

## BID RESPONSE FORM

UNICEF Invitation to Bid (LITB) No.: LITB-2026-9204579; Date: 22-06-2026

Supply and installation of Medical Equipment for present requirement and under LTA  
 THE FOLLOWING INFORMATION MUST BE COMPLETED FOR EACH ITEM BEING OFFERED

Name of Supplier: \_\_\_\_\_

Sl. No.	Item details	Quantity (present need)	Unit price Excl. VAT (BDT) for present need	Unit price Excl. VAT (BDT) for LTA	Delivery lead-time (DAP) – present need
10	<p><b>Pediatric / Children Hospital Bed (PICU Bed)</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: To be mentioned by the bidder            Country of Manufacturing/Shipment: To be mentioned by the bidder            Certification: Must be ISO Certified</p> <p>The bed shall be a manual pediatric hospital bed designed for use in children wards, NICU step-down units, and pediatric care units.            The bed shall be robust, safe, and ergonomically designed, ensuring maximum patient safety and comfort. It shall include protective side rails and smooth height/position adjustment mechanisms suitable for children.</p> <p>Construction &amp; Material</p> <ul style="list-style-type: none"> <li>• Bed frame made of high-quality mild steel with epoxy powder coating for corrosion resistance.</li> <li>• Platform made of perforated steel sheet or ABS molded panels for ventilation and hygiene.</li> <li>• Smooth edges and corners to prevent injury.</li> <li>• Strong and stable structure suitable for pediatric use.</li> </ul> <p>Bed Dimensions</p> <ul style="list-style-type: none"> <li>• Overall length: 1600 – 1800 mm</li> <li>• Overall width: 700 – 900 mm</li> <li>• Mattress platform height: fixed or adjustable (approx. 500 – 700 mm)</li> <li>• Safe working load: minimum 100 kg</li> </ul>	12			

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	<p>Backrest Adjustment</p> <ul style="list-style-type: none"> <li>• Manual backrest adjustment using crank mechanism or ratchet system.</li> <li>• Backrest angle adjustment: 0° to at least 70°.</li> <li>• Smooth and easy operation by caregiver.</li> </ul> <p>Side Rails (Safety Feature)</p> <ul style="list-style-type: none"> <li>• Full-length or split ABS/metal side rails on both sides.</li> <li>• Lockable and foldable design.</li> <li>• Designed to prevent accidental falls of pediatric patients.</li> </ul> <p>Head &amp; Foot Boards</p> <ul style="list-style-type: none"> <li>• Removable ABS molded head and foot boards.</li> <li>• Easy to clean and disinfect.</li> <li>• Locking mechanism to ensure stability.</li> </ul> <p>Mobility</p> <ul style="list-style-type: none"> <li>• Bed mounted on four swivel castors (minimum 100–125 mm diameter).</li> <li>• At least two castors with locking mechanism (brakes).</li> <li>• Smooth and noiseless movement.</li> </ul> <p>Mattress Platform</p> <ul style="list-style-type: none"> <li>• Compatible with pediatric mattress.</li> <li>• Ventilated surface for hygiene and comfort.</li> <li>• Easy to clean and disinfect.</li> </ul> <p>Accessories (Standard Supply)                      The bed shall be supplied with:</p> <ol style="list-style-type: none"> <li>1. Side rails – 1 set</li> <li>2. Head &amp; foot boards – 1 set</li> <li>3. IV pole provision (or IV pole optional)</li> <li>4. Mattress (optional or if specified)</li> </ol>				

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	<p>5. User manual – 1 set</p> <p>Safety &amp; Standards</p> <ul style="list-style-type: none"> <li>• CE certified (or equivalent international certification)</li> <li>• Manufacturer must be ISO 13485 certified</li> <li>• Smooth surfaces for infection control</li> <li>• Free from sharp edges or protrusions</li> </ul> <p>Warranty</p> <ul style="list-style-type: none"> <li>• Minimum 01 (one) year warranty from date of installation/handover</li> <li>• Supplier must provide after-sales service and spare parts support</li> <li>• Service response time: within 72 hours of complaint</li> </ul>				
20	<p><b>PICU Ventilator</b></p> <p>Model: To be mentioned by the bidder  Brand: To be mentioned by the bidder  Country of Origin: USA/UK/Germany /Japan/France  Country of Manufacturing/Shipment: To be mentioned by the bidder  Certification: Must be <b>US-FDA, CE (MDR) approved</b></p> <p>The ventilator shall be an advanced microprocessor-controlled intensive care ventilator designed to provide comprehensive respiratory support for neonatal and pediatric patients in PICU, NICU and critical care settings.</p> <p>The system shall support invasive ventilation, non-invasive ventilation, and high-flow oxygen therapy, and be suitable for use in hospitals and professional healthcare facilities.</p> <p>System Features</p> <ul style="list-style-type: none"> <li>• Minimum 15-inch color TFT touchscreen display with user-friendly interface.</li> <li>• Software capable of Invasive, Non-Invasive, and High Flow Oxygen Therapy.</li> </ul>	12			

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	<ul style="list-style-type: none"> <li>• Suitable for Pediatric, and Adult patients (3 to 144 Kg) or more</li> <li>• Integrated Ideal Body Weight (IBW) calculator with auto-parameter setting.</li> <li>• Should have Loop study &amp; Loop save study</li> <li>• Automatic leak compensation for NIV and invasive ventilation.</li> <li>• Advanced automatic control ventilation mode (SMART mode or equivalent).</li> <li>• Apnea backup ventilation available in all applicable modes.</li> <li>• Built-in oxygen sensor for FiO<sub>2</sub> monitoring.</li> <li>• Advanced lung mechanics monitoring with backup ventilation capability.</li> <li>• Connectivity: RS232, USB, and Ethernet (HIS integration capable).</li> <li>• Integrated pneumatic and ultrasonic nebulizer compatibility.</li> <li>• Demand flow system for improved patient comfort.</li> <li>• Open and closed suction support functions.</li> <li>• Minimum 5000 event log storage capacity.</li> <li>• Automatic Exhalation Sensitivity (ESENS) adjustment.</li> <li>• Triggering system: Flow trigger, pressure trigger, and smart trigger.</li> <li>• Built-in turbine (blower-based system), independent of compressed air supply.</li> <li>• Minimum 3 hours internal battery backup.</li> <li>• Etco<sub>2</sub> (Upgradable Function)</li> <li>• SpO<sub>2</sub> (Upgradable Function)</li> </ul> <p>Ventilation Modes The ventilator shall support at least the following modes:</p> <p>Controlled Modes</p> <ul style="list-style-type: none"> <li>• Volume Controlled Ventilation (VCV)</li> <li>• Pressure Controlled Ventilation (PCV)</li> <li>• Pressure Regulated Volume Control (PRVC)</li> </ul> <p>Support Modes</p> <ul style="list-style-type: none"> <li>• Pressure Support Ventilation (PSV)</li> <li>• Continuous Positive Airway Pressure (CPAP)</li> </ul>				

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<p>Combined Modes</p> <ul style="list-style-type: none"> <li>• SIMV (VCV) + PSV</li> <li>• SIMV (PCV) + PSV</li> <li>• PRVC + PSV</li> <li>• PRVC + Volume Support (VS)</li> </ul> <p>Advanced Modes</p> <ul style="list-style-type: none"> <li>• Bi-level ventilation</li> <li>• APRV (Airway Pressure Release Ventilation)</li> <li>• SMART Mode (auto-adaptive ventilation or equivalent)</li> <li>• Non-invasive ventilation (including NIPPV for neonatal use)</li> <li>• High Flow Oxygen Therapy</li> </ul> <p>Monitoring &amp; Performance</p> <p>The ventilator shall provide continuous monitoring of:</p> <ul style="list-style-type: none"> <li>• Airway pressures (Ppeak, Pmean, PEEP, Plateau)</li> <li>• Tidal volume (inspired and expired)</li> <li>• Minute ventilation</li> <li>• Respiratory rate (total and spontaneous)</li> <li>• Flow parameters</li> <li>• Lung mechanics (compliance, resistance)</li> <li>• Leak monitoring</li> </ul> <p>The system shall display:</p> <ul style="list-style-type: none"> <li>• Waveforms: Pressure, Flow, Volume</li> <li>• Loops: Pressure-Volume, Flow-Volume</li> <li>• Trends: Minimum 72 hours graphical trend display</li> </ul> <p>Connectivity &amp; Data Management</p> <ul style="list-style-type: none"> <li>• RS232 and USB interface for data export</li> <li>• Ethernet port for Hospital Information System (HIS) integration</li> <li>• Capability to connect external monitors and accessories</li> <li>• Event log capacity: minimum 5000 events</li> </ul> <p>Quality Management System</p> <ul style="list-style-type: none"> <li>• Manufacturer must be ISO 13485 certified</li> <li>• Supplier (if different) must be ISO 9001 certified</li> <li>• Valid certificates must be submitted with the technical offer</li> </ul>				
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	<p>Classification</p> <ul style="list-style-type: none"> <li>• Device shall comply with EU MDD 93/42/EEC or EU MDR 2017/745</li> <li>• Device classification: Class IIb</li> </ul> <p>Accessories (Standard Supply)</p> <p>The ventilator shall be supplied with:</p> <ul style="list-style-type: none"> <li>• Mobile trolley with brake (same manufacturer/principal) – 1 pc</li> <li>• Adult single-use breathing circuit – 5 pc</li> <li>• Circuit holder arm – 1 pc</li> <li>• Power cord – 1 pc</li> <li>• Oxygen hose – 1 pc</li> <li>• Operating manual – 1 set</li> </ul> <p>Compliance &amp; Certifications</p> <ul style="list-style-type: none"> <li>• US-FDA approved (mandatory)</li> <li>• CE certified (preferred)</li> <li>• ISO 13485 certified manufacturer</li> <li>• ISO 9001 certified supplier (if applicable)</li> <li>• Electrical safety compliant</li> </ul> <p>Warranty &amp; After-Sales Service</p> <ul style="list-style-type: none"> <li>• Minimum 02 (Two) years comprehensive warranty from the date of successful installation, commissioning, and handover</li> <li>• During warranty, supplier shall provide all maintenance, spare parts, and repair services free of cost</li> <li>• Service response time: within 72 hours of complaint notification</li> </ul>				

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30	<p><b>Electric Sucker Machine</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: To be mentioned by the bidder            Country of Manufacturing/Shipment: To be mentioned by the bidder            Certification: Must be CE /MDR and ISO Certified</p> <p><b>General Description</b>            The unit shall be a high-capacity, high-power electric suction machine suitable for use in operating rooms, emergency departments, ICU/PICU, wards, and general surgical procedures. The system shall utilize an oil-free, maintenance-free suction pump capable of providing stable and continuous suction performance for clinical and surgical applications. The suction unit shall be mounted in a durable housing made of powder-coated metal and high-quality plastic, with integrated storage space for accessories.</p> <p><b>Technical Specifications</b>  <b>Suction Performance</b></p> <ul style="list-style-type: none"> <li>• Pumping capacity: minimum 25 L/min</li> <li>• Maximum negative pressure: up to 90 kPa</li> <li>• Adjustable vacuum regulator located on the front panel</li> <li>• Stable and continuous suction operation</li> </ul> <p><b>Electrical Specifications</b></p> <ul style="list-style-type: none"> <li>• Input power: AC 220V, 50 Hz</li> <li>• Power consumption: approximately 180 VA</li> </ul> <p><b>Noise Level</b></p> <ul style="list-style-type: none"> <li>• Operating noise level: less than 65 dB</li> </ul> <p><b>Collection System</b></p> <ul style="list-style-type: none"> <li>• Dual collection jars with capacity: 2.5 liters × 2</li> <li>• Durable, reusable glass jars with overflow protection preferred</li> <li>• Easy-to-clean collection system</li> </ul>	21			

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	<p><b>System Features</b></p> <ul style="list-style-type: none"> <li>• Oil-free and maintenance-free suction pump</li> <li>• Compact and durable structure suitable for hospital use</li> <li>• Integrated accessory storage compartment</li> <li>• Easy operation and maintenance</li> <li>• Smooth mobility and stable operation</li> <li>• Suitable for continuous clinical use</li> </ul> <p><b>Safety Features</b></p> <ul style="list-style-type: none"> <li>• Overflow protection mechanism</li> <li>• Bacterial filter system to prevent contamination</li> <li>• Stable suction regulation system</li> <li>• Electrical safety compliant</li> </ul> <p><b>Accessories (Standard Supply)</b></p> <p>The system shall be supplied with:</p> <ol style="list-style-type: none"> <li>1. Main suction unit – 1 pc</li> <li>2. Glass collection jars (2.5L) – 2 pcs</li> <li>3. Foot switch – 1 pc</li> <li>4. Suction tubing set – 1 set</li> <li>5. Spare bacterial filters – 1 set</li> <li>6. Power cord – 1 pc</li> <li>7. User manual – 1 set</li> </ol> <p><b>Compliance &amp; Standards</b></p> <ul style="list-style-type: none"> <li>• CE certified or equivalent international certification</li> <li>• Manufacturer must be ISO 13485 certified</li> <li>• Supplier should be ISO 9001 certified (if applicable)</li> </ul>				

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	<p>The equipment shall comply with:</p> <ul style="list-style-type: none"> <li>• IEC 60601-1 (Electrical Safety)</li> <li>• IEC 60601-1-2 (EMC)</li> </ul> <p><b>Warranty &amp; After-Sales Service</b></p> <ul style="list-style-type: none"> <li>• Minimum 01 (one) year comprehensive warranty</li> <li>• Supplier shall provide free maintenance and repair services during warranty period</li> <li>• Spare parts availability for minimum 5 years</li> <li>• Service response time: within 72 hours of complaint notification</li> </ul>				
40	<p><b>BiPAP Machine</b></p> <p>Model: To be mentioned by the bidder  Brand: To be mentioned by the bidder  Country of Origin: To be mentioned by the bidder  Country of Manufacturing/Shipment: To be mentioned by the bidder  Certification: Must be CE /MDR and ISO Certified</p> <p><b>General Description</b></p> <p>The unit shall be a <b>microprocessor-controlled BiPAP / Non-Invasive Ventilation (NIV) system</b> designed for respiratory support of adult and pediatric patients in hospitals, sleep laboratories, emergency departments, PCU step-down units, and homecare environments.</p> <p>The system shall provide reliable and comfortable non-invasive respiratory therapy with intelligent pressure control, leak compensation, and patient synchronization technology.</p> <p><b>System Features</b></p> <ul style="list-style-type: none"> <li>• Compact and lightweight design</li> <li>• User-friendly interface with color display</li> <li>• Quiet operation suitable for bedside and homecare use</li> <li>• Integrated turbine/blower system</li> <li>• Intelligent pressure adjustment and patient synchronization</li> </ul>	05			

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	<ul style="list-style-type: none"> <li>• Automatic leak compensation</li> <li>• Real-time monitoring of therapy parameters</li> <li>• Humidifier compatibility or integrated humidification system preferred</li> <li>• Suitable for continuous and long-term respiratory support</li> </ul> <p><b>Ventilation Modes</b> The device shall support at least the following modes:</p> <ul style="list-style-type: none"> <li>• CPAP</li> <li>• S Mode (Spontaneous)</li> <li>• ST Mode (Spontaneous/Timed)</li> <li>• T Mode (Timed)</li> <li>• Auto CPAP (preferred)</li> </ul> <p><b>Adjustable Parameters</b></p> <ul style="list-style-type: none"> <li>• IPAP adjustable range suitable for clinical BiPAP therapy</li> <li>• EPAP adjustable range suitable for clinical BiPAP therapy</li> <li>• Respiratory rate adjustable</li> <li>• Inspiratory time adjustable</li> <li>• Ramp time adjustable</li> <li>• FiO<sub>2</sub> support through oxygen inlet connection preferred</li> <li>• Trigger sensitivity adjustable</li> </ul> <p><b>Monitoring Parameters</b> The system shall display and monitor at least:</p> <ul style="list-style-type: none"> <li>• Inspiratory pressure (IPAP)</li> <li>• Expiratory pressure (EPAP)</li> <li>• Respiratory rate</li> <li>• Leak value</li> <li>• Tidal volume</li> <li>• Minute ventilation</li> <li>• Therapy usage time</li> </ul>				

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	<p><b>Alarm System</b> The device shall provide audio-visual alarms for:</p> <ul style="list-style-type: none"> <li>• High/low pressure</li> <li>• Power failure</li> <li>• Low tidal volume</li> <li>• Circuit leakage/disconnection</li> <li>• Apnea alarm</li> <li>• System fault</li> </ul> <p><b>Display &amp; User Interface</b></p> <ul style="list-style-type: none"> <li>• Minimum 4.3inch touch screen and knob control high resolution Color LCD/TFT display</li> <li>• Real-time display of therapy parameters</li> <li>• Easy navigation and parameter adjustment</li> <li>• Display of alarm status and therapy information</li> </ul> <p><b>Humidification</b></p> <ul style="list-style-type: none"> <li>• Integrated or detachable heated humidifier preferred</li> <li>• Adjustable humidification level</li> <li>• Overheat protection for humidifier system</li> </ul> <p><b>Power Supply</b></p> <ul style="list-style-type: none"> <li>• AC power supply: 100–240V, 50/60 Hz</li> <li>• Internal or external battery backup preferred</li> <li>• Low power consumption and safe continuous operation</li> </ul> <p><b>Accessories (Standard Supply)</b> The system shall be supplied with:</p> <ol style="list-style-type: none"> <li>1. Main BiPAP unit – 1 pc</li> <li>2. Patient breathing circuit/tubing – 1 set</li> <li>3. Nasal or full-face mask – 1 pc</li> </ol>				

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	<p>4. Power adapter and cord – 1 set            5. Humidifier chamber (if applicable) – 1 pc            6. Air filters – 1 set            7. User manual – 1 set</p> <p><b>Compliance &amp; Standards</b></p> <ul style="list-style-type: none"> <li>• CE certified under MDR or equivalent</li> <li>• US-FDA approval preferred</li> <li>• Manufacturer must be ISO 13485 certified</li> </ul> <p>The equipment shall comply with:</p> <ul style="list-style-type: none"> <li>• IEC 60601-1 (Electrical Safety)</li> <li>• IEC 60601-1-2 (EMC)</li> </ul> <p><b>Warranty &amp; After-Sales Service</b></p> <ul style="list-style-type: none"> <li>• Minimum 01 (one) year comprehensive warranty</li> <li>• Free maintenance and repair service during warranty period</li> <li>• Spare parts support for minimum 5 years</li> <li>• Service response time within 72 hours of complaint notification</li> </ul>				
50	<p><b>Patient Isolation Curtain System</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: To be mentioned by the bidder            Country of Manufacturing/Shipment: To be mentioned by the bidder            Curtain Size (Approx): (Track-25 feet, Fabric-30 feet)</p> <p><b>General Description</b></p> <p>The system shall be a <b>hospital-grade patient isolation curtain system</b> designed for use in <b>hospital wards, ICU, CCU, NICU, emergency departments, examination rooms, and patient cubicles.</b></p>	12			

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	<p>The curtain system shall provide patient privacy, infection control support, durability, and easy maintenance. The complete system shall include <b>track system, supporting accessories, and antibacterial fire-retardant curtain fabric.</b></p> <p><b>Cubicle Curtain Track System</b>  <b>Track Material &amp; Construction</b></p> <ul style="list-style-type: none"> <li>• Track material: Electrophoresis-coated aluminum</li> <li>• Track dimensions approximately: <ul style="list-style-type: none"> <li>• Width: 19 (+/- .5 mm)</li> <li>• Height: 31.4 mm</li> <li>• Thickness: 1.3 mm</li> </ul> </li> <li>• Corrosion-resistant and durable finish</li> <li>• Smooth curtain movement with low operating noise</li> <li>• Suitable for ceiling or wall-mounted installation</li> </ul> <p><b>Track Length</b>  Available lengths shall include approximately:  as per site requirement.</p> <p><b>Track Accessories</b>  The complete track system shall include:</p> <ul style="list-style-type: none"> <li>• Heavy-duty plastic runners/glidors</li> <li>• Wall brackets and mounting hooks</li> <li>• End caps</li> <li>• Supporting poles/brackets as required</li> <li>• Necessary installation accessories and fasteners</li> </ul> <p><b>Curtain Fabric Specifications</b>  <b>Fabric Material</b></p> <ul style="list-style-type: none"> <li>• 100% inherently flame-retardant (IFR) polyester or specialized antimicrobial synthetic blend.</li> </ul>				

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	<ul style="list-style-type: none"> <li>• Built-in bio-protection. Must actively inhibit the growth of MRSA, VRE, <i>E. coli</i>, and molds. Non-leaching and effective for the lifetime of the fabric.</li> <li>• Fabric weight: Heavy-duty commercial grade: 250 GSM to 300 GSM</li> </ul> <p><b>Fabric Features</b></p> <ul style="list-style-type: none"> <li>• Antibacterial treated fabric</li> <li>• Fire-retardant material</li> <li>• Resistant to fading and shrinkage</li> <li>• Smooth finish suitable for repeated cleaning and disinfection</li> </ul> <p><b>Mesh Top Section</b></p> <ul style="list-style-type: none"> <li>• Minimum <b>24-inch mesh top section</b> for improved air circulation and ventilation</li> <li>• Mesh shall be durable and integrated with curtain fabric</li> </ul> <p><b>Color Options</b> Available colors shall include:</p> <p><b>Installation Requirements</b></p> <ul style="list-style-type: none"> <li>• Supplier shall provide complete installation and fitting</li> <li>• Curtain and track system shall be properly aligned and securely mounted</li> <li>• Smooth sliding operation shall be ensured after installation</li> </ul> <p><b>Compliance &amp; Standards</b></p> <ul style="list-style-type: none"> <li>• Fabric shall comply with hospital infection control requirements</li> <li>• Fire-retardant compliance certificate shall be provided</li> <li>• Manufacturer should comply with ISO quality management standards</li> </ul> <p><b>Accessories (Standard Supply)</b> The system shall be supplied complete with:</p> <ol style="list-style-type: none"> <li>1. Aluminum curtain track – as required</li> <li>2. Curtain fabric panels – as required</li> </ol>				

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	3. Plastic runners/glidens – complete set 4. Wall brackets/hooks – complete set 5. End caps – complete set 6. Supporting poles/brackets – as required 7. Mounting accessories – complete set  <b>Warranty &amp; After-Sales Service</b> <ul style="list-style-type: none"> <li>• Minimum 01 (one) year warranty against manufacturing defects</li> <li>• Supplier shall provide installation and after-sales support</li> <li>• Damaged accessories/components shall be replaceable</li> </ul>				
60	<b>Bubble CPAP System (Option 1)</b>  <b>Brand:</b> To be mentioned by the bidder <b>Model:</b> To be mentioned by the bidder <b>Country of Origin:</b> USA/UK/Japan/EU Countries <b>Quality Standard:</b> Valid US-FDA and/or CE-MDR certified system <b>General Description</b> An electrically powered device designed to deliver high-flow heated and humidified air or air/oxygen mixture to neonatal patients for non-invasive respiratory support including Bubble CPAP and High-Flow Oxygen Therapy. The system may additionally use a water column/bubbler to generate Bubble CPAP therapy. The system shall provide continuous positive airway pressure (CPAP) to spontaneously breathing premature neonates and infants weighing up to 10 kg.  <b>Features</b> <ul style="list-style-type: none"> <li>• Supports Bubble CPAP and High-Flow Oxygen Therapy</li> <li>• Specifically designed for neonates and newborns</li> <li>• Electronically controlled pressure and flow regulation system</li> <li>• Integrated touch screen display preferred</li> <li>• Servo-controlled heated humidifier</li> <li>• Advanced humidification control algorithms</li> </ul>	30			

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	<ul style="list-style-type: none"> <li>• Automatic temperature and humidity regulation</li> <li>• Designed to minimize condensation (thermodraft technology, AirSpiral inspiratory &amp; evequa expiratory) within breathing circuits</li> <li>• Compatible with duel heated-wire breathing circuits</li> <li>• Inbuilt temperature sensor and heated hose adapter for closed-system operation to minimize infection risk</li> <li>• Bubble generator/bubbler with adjustable PEEP and water level indicator</li> <li>• Integrated oxygen blender with flow meter (USA/UK/Japan/EU Countries)</li> <li>• Accepts inlet gas supply pressure between 3.5 – 6 bar (43 – 87 psi)</li> <li>• Mounted on a original medical-grade wheeled stand with brakes</li> <li>• Pole mounting system with four anti-static swivel castors, minimum two with brakes</li> <li>• All reusable components shall be suitable for hospital-grade disinfection</li> <li>• Patient circuits, nasal tubing, nasal cannula, prongs, masks, and bonnets must be medical grade and preferably from the same manufacturer as the humidifier system. Compatible third-party accessories are not acceptable.</li> </ul> <p><b>Technical Specifications</b></p> <ul style="list-style-type: none"> <li>• Adjustable CPAP pressure range: minimum 0 – 10 cmH<sub>2</sub>O</li> <li>• Stable and constant CPAP delivery at outlet</li> <li>• Adjustable flow range: minimum 0 – 15 L/min</li> <li>• Oxygen concentration adjustable from 21% – 100%</li> <li>• Pressure indicator displayed in cmH<sub>2</sub>O</li> <li>• Noise level less than 50 dB</li> <li>• External heated humidification chamber</li> <li>• Relative humidity output up to 100%</li> <li>• Adjustable output temperature up to 36°C</li> <li>• Power supply: 100 – 240V AC, 50/60 Hz</li> </ul> <p><b>Alarm System</b></p> <p>The system shall provide audible and visual alarms for:</p>				

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	<ul style="list-style-type: none"> <li>• Circuit disconnection</li> <li>• Breathing circuit fault</li> <li>• No water condition</li> <li>• High and low temperature</li> <li>• Chamber/cartridge disconnection</li> <li>• Service required indication</li> <li>• Main power failure</li> </ul> <p><b>Safety Features</b></p> <ul style="list-style-type: none"> <li>• Built-in overpressure protection system</li> <li>• Overheating protection for patient circuit</li> <li>• Medical-grade electrical safety compliant</li> </ul> <p><b>Environmental Conditions</b></p> <p>Operating Conditions:</p> <ul style="list-style-type: none"> <li>• Temperature: 5°C – 40°C</li> <li>• Relative humidity: 0% – 95% RH</li> </ul> <p>Storage Conditions:</p> <ul style="list-style-type: none"> <li>• Temperature: 5°C – 45°C</li> <li>• Relative humidity: 10% – 95% RH</li> </ul> <p>Other Requirements:</p> <ul style="list-style-type: none"> <li>• Atmospheric pressure: 700 – 1060 hPa</li> <li>• Ingress protection rating: minimum IPX0</li> <li>• Humidifier should be UL listed or equivalent preferred</li> </ul> <p><b>Standard Accessories</b></p> <p><b>Following these parts are supplied with each Bubble CPAP Unit</b></p> <p>Each device must be supplied with the following accessories</p> <ul style="list-style-type: none"> <li>Ø Heated Humidifier chamber # 01 no/each machine</li> <li>Ø Blender with integrated oxygen flow meter - 01 no/each machine</li> <li>Ø Dual Heated Patient circuit # 01 no/each machine</li> </ul>				

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	<p>           ∅ Nasal Tubing (50cm,70cm,100cm)- 03 no/each machine            ∅ Prong each size (XS, S,M) minimum # 03 no/each machine            · Size: X-Small (XS) Nostril ∅ [3 mm]-3 pcs            · Size: Small (S) Nostril ∅ [3.5 mm]-3 pcs            · Size: Medium (M) Nostril ∅ [4.1 mm]-4 pcs            ∅ Mask each size (S,M,L) minimum # 03 no/each machine            · Size: Small (S) Mask width nose [18.5 mm]-02 pcs            · Size: Medium (M) Mask width nose [21 mm]-04 pcs            · Size: Large (L) Mask width nose [23 mm]-04 pcs            ∅ Infant Bonnet with strap (S, M, L) minimum - 03 no/each machine            · Size: Small(S)Head circumference [21-23 cm]-02 pcs            · Size: Medium(M)Head circumference [23-25 cm]-04 pcs            · Size: Large(L)Head circumference [25-28 cm]-04 pcs            ∅ Optiflow/high flow interface - 01 no/each machine            ∅ Imported stand from the same manufacturer # 1 no/each machine            ∅ Medical Grade Gas Supply Line (Oxygen and Air) with standard Probe            ∅ Mounting clamp for Blender and Humidifier.            ∅ Power Cable            ∅ User Manual             Warranty &amp; After-Sales Service            • Minimum 01 (one) year comprehensive warranty from the date of installation and commissioning            • Supplier shall provide all maintenance and repair services during the warranty period            • Service support shall be provided within 72 hours from complaint notification         </p>				

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70	<p><b>Pediatric Pulse oximeter (Handheld)</b></p> <p><b>Brand:</b> To be mentioned by the bidder  <b>Model:</b> To be mentioned by the bidder  <b>Country of origin:</b> To be mentioned by the bidder  <b>Country of Shipment:</b> To be mentioned by the bidder</p> <p><b>General Requirements</b></p> <ul style="list-style-type: none"> <li>The device should be a small, lightweight, ergonomic handheld for continuous and spot-check pulse oximetry monitoring</li> <li>Suitable for all types of Patients: Pediatric, Infant</li> <li>Should have continuous patient monitoring option</li> <li>The device should have TFT LCD Color Display (minimum 2 inch)</li> <li>Parameters- should display numerical SpO<sub>2</sub>, Pulse Rate.</li> <li>Should display plethysmography waveform</li> <li>The unit should have a re-usable sensor (finger type/flex type) and also should have the option to accept other than the manufacturer's compatible sensor.</li> <li>The devices should have rechargeable batteries &amp; chargers with a minimum 24 hours capacity.</li> <li>Should have audible and visual alarms for low/high saturation and pulse rate.</li> <li>Should have audible and visual alarms for sensor errors or disconnected, system errors, and low battery.</li> </ul> <p><b>Display Range</b>  Oxygen Saturation (SpO<sub>2</sub>)- 0 – 100%  Pulse Rate (PR) - 25-240bpm  <b>Saturation Accuracy:</b> SpO<sub>2</sub> detection includes the range 70 - 100 %. Also capable of measuring lower saturations.  <b>Pulse Rate Accuracy:</b> SpO<sub>2</sub> accuracy (in the range 70 - 100%) within ± 3%, for all patients and perfusion / movement conditions.  <b>Alarm System</b></p>	30			

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	<p>Audible and visual alarms for low/high saturation and pulse rate. Audible and visual alarms for sensor errors or disconnected, system errors, and low battery. Alarm override and temporary silencing function. <b>Battery Requirements:</b> The devices should have rechargeable batteries with a minimum capacity of 24 hours. <b>Environmental Requirements</b> Operating conditions: 5°C - 40°C / 0% – 95% RH. Storage conditions: 5°C - 45°C / 10% – 95% RH. (required) Atmospheric pressure: 700 ~ 1060hPa. Ingress protection rating: IPX0. (required)</p> <p><b>Regulation &amp; Conformity Requirements</b> CE mark conforming to Medical Device Directive 93/42/EEC or MDR 2017/745/EEC CE Certificate (class IIb) Declaration of Conformity (DoC) to applicable standards signed by an authorized representative of the bidder</p> <p><b>Warranty</b></p> <ul style="list-style-type: none"> <li>➤ At least 01 (One) year comprehensive warranty of the machine from the date of handing over of the machine to the user in commissioning and functioning condition.</li> <li>➤ In the warranty period, the supplier will provide all maintenance and repair services</li> <li>➤ The service should be provided within 72 hours from the date of complaints logged.</li> </ul>				

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80	<p><b>Multiparameter Patient Monitor for PICU</b></p> <p>Model: To be mentioned by the bidder                      Brand: To be mentioned by the bidder                      Country of Origin: To be mentioned by the bidder                      Country of Manufacturing/Shipment: To be mentioned by the bidder                      Certification: Must be CE, MDR and ISO Certified</p> <p>The monitor shall be a compact, multiparameter patient monitor designed for continuous monitoring of vital signs in PICU and child wards.                      The system shall provide accurate, real-time monitoring with a fully touch-screen interface, advanced clinical features,EWS, GCS, RR from Pleth, PPV and compatibility with central monitoring systems.</p> <p><b>Display &amp; User Interface</b></p> <ul style="list-style-type: none"> <li>• Minimum 12-inch color touchscreen TFT LCD display</li> <li>• Capacitive touch screen with full touch operation</li> <li>• High resolution (minimum 800 × 600 pixels or better)</li> <li>• User-friendly interface with gesture-based interface change, brightness, and volume control (swipe/drag)</li> <li>• Adjustable display layout for waveform and numeric parameters</li> <li>• Automatic brightness adjustment based on ambient light</li> <li>• Clear visualization of waveforms and numerical values</li> </ul> <p><b>Standard Monitoring Parameters and advanced Clinical Features</b></p> <p>The monitor shall measure and display at least the following:</p> <ul style="list-style-type: none"> <li>• ECG (minimum 5 lead) and Heart Rate (HR)</li> <li>• Respiration (RESP)</li> <li>• Oxygen saturation (SpO<sub>2</sub>)</li> <li>• Pulse Rate (PR)</li> </ul>	22			

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	<ul style="list-style-type: none"> <li>• Non-invasive Blood Pressure (NIBP)</li> <li>• Dual Temperature (TEMP)</li> <li>• Respiration rate derived from plethysmography (SpO<sub>2</sub>-based RESP)</li> <li>• Early Warning Score (EWS) or equivalent patient scoring system</li> <li>• Glasgow Coma Scale (GCS) support (manual or integrated)</li> <li>• Pulse Pressure Variation (PPV) monitoring system</li> <li>• Real-time waveform display (3/5/6 lead ECG, RESP, SpO<sub>2</sub>)</li> <li>• 12 lead ECG monitoring options</li> <li>• Trend data storage and review (minimum 72 hours)</li> <li>• Alarm system with configurable limits</li> <li>• Compatible with Central Monitoring System (CMS)</li> <li>• Fanless design to minimize infection risk and noise</li> <li>• Compact, lightweight, and portable</li> <li>• Easy-to-clean surface suitable for hospital infection control protocols</li> <li>• Ergonomic design for bedside use</li> </ul> <p><b>Power Supply</b></p> <ul style="list-style-type: none"> <li>• Input power: AC 100–240V, 50/60 Hz</li> <li>• Built-in rechargeable battery</li> <li>• Battery backup: minimum 4 hours continuous monitoring</li> </ul> <p><b>Connectivity</b></p> <ul style="list-style-type: none"> <li>• Compatible with Central Monitoring System (CMS)</li> <li>• Standard communication ports (e.g., Ethernet, USB or equivalent)</li> <li>• Capability for data export and integration with hospital systems</li> </ul> <p><b>Accessories (Standard Supply)</b> The system shall be supplied with:</p> <ol style="list-style-type: none"> <li>1. Main unit – 1 pc</li> <li>2. Reusable NIBP cuff with hose (Pediatric) – 1 set</li> <li>3. Reusable ECG cable (minimum 5 lead) – 1 pc</li> </ol>				

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	<p>4. Disposable ECG electrodes – 1 set                      5. Reusable SpO<sub>2</sub> sensor (Pediatric) – 1 pc                      6. Reusable temperature probe – 1 pc                      7. Power cord – 1 pc                      8. User manual – 1 set</p> <p><b>Compliance &amp; Standards</b></p> <ul style="list-style-type: none"> <li>• CE certified under MDR (EU 2017/745) or equivalent</li> <li>• Manufacturer must be ISO 13485 certified</li> <li>• Supplier must be ISO 9001 certified</li> <li>• Compliance with:                             <ul style="list-style-type: none"> <li>• IEC 60601-1 (Electrical safety)</li> <li>• IEC 60601-1-2 (EMC)</li> </ul> </li> </ul> <p><b>Warranty &amp; After-Sales Service</b></p> <ul style="list-style-type: none"> <li>• Minimum 02 (Two) years comprehensive warranty from the date of installation and commissioning</li> <li>• Supplier shall provide all maintenance, spare parts, and repair services free of cost during warranty</li> <li>• Service response time: within 72 hours of complaint</li> </ul>				
90	<p><b>Syringe Pump</b></p> <p>Model: To be mentioned by the bidder                      Brand: To be mentioned by the bidder                      Country of Origin: To be mentioned by the bidder                      Country of Shipment: To be mentioned by the bidder                      Certification: Must be CE /MDR and ISO Certified</p> <p>General Requirements</p> <ul style="list-style-type: none"> <li>• Compact, lightweight and portable with a standard foldable handle.</li> </ul>	34			

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	<ul style="list-style-type: none"> <li>• Must support a tool-free stackable design, allowing multiple units to be combined without auxiliary equipment.</li> <li>• Minimum 4.3-inch TFT full-color touchscreen with an intuitive operating system.</li> <li>• Large font display for key parameters, clearly visible from at least 5 meters away.</li> <li>• The available modes are (Rate, Time, Body weight, Ramp up down, loading does, sequence &amp; TIVA)</li> <li>• Micro-mode option for precise control specially in neonatal or small-dose administration</li> <li>• Built-in library supporting no less than 2,000 drug names.</li> <li>• Ingress protection rating of at least IP34.</li> </ul> <p>Performance and Accuracy</p> <ul style="list-style-type: none"> <li>• Syringe Compatibility: Open system supporting 2/3ml, 5ml, 10ml, 20ml, 30ml, and 50/60ml syringes.</li> <li>• Recognition: Automatic recognition of syringe size after calibration.</li> <li>• Flow Rate Range: * 0.1 – 1500 ml/h (minimum increment of 0.01 ml/h). <ul style="list-style-type: none"> <li>○ Micro-mode range for precise control in neonatal or small-dose administration.</li> </ul> </li> <li>• Infusion Modes: Must include at least 8 modes: Rate, Time, Body-weight, Drug Library, Ramp up/down, Loading dose, Sequence, and TIVA.</li> </ul> <p>Safety and Monitoring</p> <ul style="list-style-type: none"> <li>• Drug Error Reduction System (DERS): Standard inclusion to prevent medication errors.</li> <li>• Drug Library: Built-in library supporting no less than 2,000 drug names.</li> <li>• Occlusion Management: 12 selectable occlusion levels (Range: 75mmHg to 900mmHg). <ul style="list-style-type: none"> <li>○ Anti-bolus Function: Motor must automatically reverse to reduce line pressure following an occlusion.</li> </ul> </li> </ul>				

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	<ul style="list-style-type: none"> <li>○ DPS: Real-time occlusion pressure display with pre-alarm and pressure drop alarms.</li> <li>● Alarms: 3-level visual and audible alarms for VTBI infused, Syringe empty/near empty, Occlusion, Battery status, and System errors.</li> </ul> <p><b>Technical Features and Connectivity</b></p> <ul style="list-style-type: none"> <li>● Bolus/Purge: Support for both manual and automatic bolus with programmable rates up to 1500 ml/h (for 50/60ml syringes).</li> <li>● KVO Rate: Adjustable from 0.01 to 5.0 ml/h.</li> <li>● Data Logs: Internal memory for more than 5,000 history records and at least 20 recent treatment records for quick initiation.</li> <li>● Connectivity: * Wired/Wireless (Wi-Fi) communication options. <ul style="list-style-type: none"> <li>○ Support for USB data export, software upgrades, and nurse call integration.</li> <li>○ Connectivity to HIS/CIS/3rd party platforms.</li> </ul> </li> </ul> <p><b>Power Supply and Battery</b></p> <ul style="list-style-type: none"> <li>● Battery Life: Rechargeable lithium battery providing 5.5 hours as standard.</li> <li>● Charging: Internal charging system with a charge time of less than 2.5 hours for standard battery.</li> <li>● Power Source: Compatible with AC 100-240V (50/60Hz) and DC 12V.</li> </ul> <p><b>Compliance &amp; Certifications</b></p> <ul style="list-style-type: none"> <li>● CE/MDR, CFDA/USFDA Certified</li> <li>● ISO 13485 Certified Manufacturer</li> <li>● ISO 9001 Certified Supplier (if applicable)</li> <li>● Electrical safety compliant</li> </ul>				

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	<p>General Lifetime: The equipment should have a minimum operational lifetime of seven (07) years from the date of manufacturing.</p> <p>Warranty</p> <ul style="list-style-type: none"> <li>➤ At least 01 (One) year comprehensive warranty of the machine from the date of handing over of the machine to the user in commissioning and functioning condition.</li> <li>➤ In the warranty period, the supplier will provide all maintenance and repair services</li> <li>➤ The service should be provided within 72 hours from the date of complaints logged.</li> </ul>				
100	<p><b>Infusion Pump</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: To be mentioned by the bidder            Country of Shipment: To be mentioned by the bidder            Certification: Must be CE /MDR and ISO Certified</p> <p>General Requirements</p> <ul style="list-style-type: none"> <li>• Compact, lightweight and portable with a standard foldable handle.</li> <li>• Must support a tool-free stackable design, allowing multiple units to be combined without auxiliary equipment.</li> <li>• Minimum 4.3-inch TFT full-color touchscreen with an intuitive operating system.</li> <li>• Large font display for key parameters, clearly visible from at least 5 meters away.</li> <li>• The available modes are (Rate, Time, Body weight, Drip, Drug Library, Ramp up down, loading does, &amp; sequence)</li> <li>• Micro-mode option for precise control specially in neonatal or small-dose administration</li> <li>• Built-in library supporting no less than 2,000 drug names.</li> </ul>	34			

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	<ul style="list-style-type: none"> <li>• Ingress protection rating of at least IP34.</li> </ul> <p>Performance and Accuracy</p> <ul style="list-style-type: none"> <li>• Flow Rate Range: 0.10 to 1500 ml/h with a minimum step of 0.01 ml/h.</li> <li>• Accuracy: Flow rate accuracy must be less than 5%</li> <li>• Drip Mode: Support for 1 to 500 drops/min</li> <li>• Micro Mode: Specialized precise control for newborns and small-dose administration, ranging from 100 to 1500 ml/h.</li> <li>• Infusion Modes: Must offer 8 modes, including Rate, Time, Body-weight, Drip, Drug library, Ramp up/down, Loading dose, and Sequence.</li> <li>• KVO Rate: Adjustable from 0.01 to 5.0 ml/h (default is 1 ml/h).</li> </ul> <p>Safety and Monitoring</p> <ul style="list-style-type: none"> <li>• Air Bubble Detection: Dual up and down sensors with 7 selectable levels (50µl to 800µl).</li> <li>• Pressure Monitoring: Dual up and down pressure sensors with 12 selectable occlusion levels (75mmHg to 900mmHg).</li> <li>• Safety Features:               <ul style="list-style-type: none"> <li>○ Anti-bolus: Automatic motor reversal to reduce line pressure after an occlusion.</li> <li>○ Dose Error Reduction System (DERS): Standardized to prevent medication errors.</li> <li>○ Dynamic Pressure System (DPS): Standard occlusion pre-alarm and pressure drop alarms.</li> </ul> </li> <li>• Drug Library: Internal library containing no less than 2,000 drugs.</li> </ul> <p>Alarm System</p> <ul style="list-style-type: none"> <li>• Alert Types: Multiple indicators including picture, sound, text, and light.</li> </ul>				

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	<ul style="list-style-type: none"> <li>• Levels: 3 distinct alarm levels (High, Middle, Low) covering safety critical issues like air bubbles, door open, occlusion, and battery status</li> </ul> <p>Power Supply and Battery</p> <ul style="list-style-type: none"> <li>• Battery Life: Rechargeable lithium battery providing 5.5 hours as standard.</li> <li>• Charging: Internal charging system with a charge time of less than 2.5 hours for standard battery.</li> <li>• Power Source: Compatible with AC 100-240V (50/60Hz) and DC 12V.</li> </ul> <p>Compliance &amp; Certifications</p> <ul style="list-style-type: none"> <li>• CE/MDR, CFDA/USFDA Certified</li> <li>• ISO 13485 Certified Manufacturer</li> <li>• ISO 9001 Certified Supplier (if applicable)</li> <li>• Electrical safety compliant</li> </ul> <p>General Lifetime: The equipment should have a minimum operational lifetime of seven (07) years from the date of manufacturing.</p> <p>Warranty</p> <ul style="list-style-type: none"> <li>• At least 01 (One) year comprehensive warranty of the machine from the date of handing over of the machine to the user in commissioning and functioning condition.</li> <li>• In the warranty period, the supplier will provide all maintenance and repair services</li> <li>• The service should be provided within 72 hours from the date of complaints logged.</li> </ul>				

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110	<p><b>12-Channel ECG Machine</b></p> <p>Model: To be mentioned by the bidder  Brand: To be mentioned by the bidder  Country of Origin: To be mentioned by the bidder  Country of Manufacturing/Shipment: To be mentioned by the bidder  Certification: Must be CE /MDR and ISO Certified</p> <p>The system shall be a 12-channel digital electrocardiograph (ECG) machine capable of simultaneous acquisition, display, recording, and analysis of 12-lead ECG signals. The unit shall be suitable for use in hospitals, emergency departments, ICU/CCU/PICU, and outpatient departments, providing accurate and reliable cardiac diagnostics.</p> <p><b>Technical Specifications</b></p> <p>ECG Acquisition</p> <ul style="list-style-type: none"> <li>• Simultaneous acquisition of 12-lead ECG signals</li> <li>• Frequency response: 0.05 – 200 Hz (-3 dB) or better</li> <li>• Input impedance: <math>\geq 50 \text{ M}\Omega</math></li> <li>• Sampling rate: minimum 2000 samples/second/channel</li> <li>• CMRR: <math>\geq 110 \text{ dB}</math> (AC off), <math>\geq 120 \text{ dB}</math> (AC on)</li> <li>• Noise level: <math>\leq 15 \mu\text{V}</math></li> <li>• Heart rate measurement range: 30 – 300 bpm</li> <li>• Input protection against defibrillation and electrosurgical interference</li> </ul> <p>Display</p> <ul style="list-style-type: none"> <li>• Minimum 08-inch color TFT display</li> <li>• Resolution: minimum <math>800 \times 480</math> pixels or higher</li> <li>• Adjustable or tiltable screen preferred</li> <li>• Display of waveforms, patient information, lead status, battery level, and system parameters</li> </ul>	03			

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<p>Recording &amp; Printing</p> <ul style="list-style-type: none"> <li>• Built-in high-resolution thermal printer</li> <li>• Multiple report formats (e.g., 12×1, 6×2, 3×4, rhythm strip)</li> <li>• Paper speed options: 5 to 50 mm/s</li> <li>• Sensitivity settings: 1.25 to 40 mm/mV with auto gain control</li> <li>• Capability to print on thermal paper and external A4 printer</li> </ul> <p>Data Management</p> <ul style="list-style-type: none"> <li>• Internal memory capacity: minimum 800 ECG records</li> <li>• Data export/import via USB, SD card, or equivalent storage media</li> <li>• Output formats: PDF, JPG, DICOM, SCP, XML or equivalent</li> <li>• Capability for ECG data transfer via LAN/USB/storage device</li> <li>• Compatibility with HIS/PACS/EMR systems (DICOM/FTP or equivalent protocols)</li> </ul> <p>Software &amp; Functions</p> <ul style="list-style-type: none"> <li>• Verified ECG interpretation algorithm (CSE validated or equivalent)</li> <li>• Recording modes: Auto, Manual, and Rhythm</li> <li>• Waveform freeze, replay, and review (minimum 5–300 seconds)</li> <li>• Lead-off detection and signal quality indication</li> <li>• Pre-sampling, real-time, triggered, and periodic sampling modes</li> </ul> <p>Connectivity</p> <ul style="list-style-type: none"> <li>• Interfaces: USB, LAN (Ethernet), and/or SD card slot</li> <li>• Optional support for barcode scanner, keyboard, wireless adapter, and external printer</li> <li>• Capability to view and print ECG data on PC</li> </ul> <p>Power Supply</p> <ul style="list-style-type: none"> <li>• Power supply: AC 100–240V, 50/60 Hz</li> <li>• Built-in rechargeable battery (minimum 5000 mAh or equivalent)</li> <li>• Automatic AC/DC switching</li> </ul> <p>Physical Characteristics</p> <ul style="list-style-type: none"> <li>• Compact and portable design</li> <li>• Maximum weight: ≤ 5 kg</li> <li>• Durable construction suitable for hospital use</li> </ul>				
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	<p>Accessories (Standard Supply)</p> <p>The system shall be supplied with:</p> <ol style="list-style-type: none"> <li>1. ECG main unit – 1 pc</li> <li>2. Patient cable (IEC/AHA standard) – 1 pc</li> <li>3. Limb electrodes (clamp type) – 1 set</li> <li>4. Chest electrodes (suction type) – 1 set</li> <li>5. Thermal recording paper – 1 pack</li> <li>6. Power cord and adapter – 1 set</li> <li>7. Grounding cable – 1 pc</li> <li>8. User manual – 1 set</li> </ol> <p>Compliance &amp; Standards</p> <ul style="list-style-type: none"> <li>• CE certified (MDR) Certified</li> <li>• Manufacturer must be ISO 13485 certified</li> <li>• Supplier must be ISO 9001 certified (if applicable)</li> <li>• Compliance with: <ul style="list-style-type: none"> <li>• IEC 60601-1 (Electrical Safety)</li> <li>• IEC 60601-1-2 (EMC)</li> </ul> </li> </ul> <p>Warranty &amp; After-Sales Service</p> <ul style="list-style-type: none"> <li>• Minimum 02 (Two) years comprehensive warranty</li> <li>• Free maintenance, service, and spare parts during warranty period</li> <li>• Service response time: within 72 hours of complaint</li> </ul>				

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120	<p><b>Defibrillator with Monitor</b></p> <p>Model: To be mentioned by the bidder  Brand: To be mentioned by the bidder  Country of Origin: To be mentioned by the bidder  Country of Manufacturing/Shipment: To be mentioned by the bidder  Certification: Must be CE (MDR) and/or US-FDA approved</p> <p><b>General Description</b>  The unit shall be a portable, microprocessor-controlled defibrillator and patient monitor suitable for use in emergency departments, ICU/CCU/PICU/NICU environments.  The system shall provide manual defibrillation, AED function, synchronized cardioversion, patient monitoring, and external pacing in a compact and lightweight design.</p> <p><b>System Features</b></p> <ul style="list-style-type: none"> <li>• Minimum 7-inch high-definition color display</li> <li>• Compact, lightweight, and portable design suitable for emergency transport and bedside use</li> <li>• Four-in-one functionality including: <ul style="list-style-type: none"> <li>• Manual defibrillation</li> <li>• Automated External Defibrillator (AED)</li> <li>• Patient monitoring</li> <li>• External pacing</li> </ul> </li> <li>• Suitable for adult, pediatric, and neonatal patients</li> <li>• User-friendly interface with quick access emergency controls</li> <li>• User-definable shortcut keys for rapid operation during emergencies</li> <li>• Continuous ECG waveform and vital parameter display</li> <li>• Real-time patient impedance detection and display</li> <li>• Full range of accessories including external paddles and internal paddles/handles</li> </ul> <p><b>Defibrillation Specifications</b></p>	03			

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	<ul style="list-style-type: none"> <li>• Biphasic waveform technology</li> <li>• Energy selection range: 1 – 360 Joules</li> <li>• Charging time: ≤ 5 seconds at 200 Joules</li> <li>• Support for synchronized cardioversion</li> <li>• Automatic energy escalation capability (AED mode preferred)</li> <li>• Visual and audible charging/discharge indicators</li> <li>• Shock delivery through paddles and adhesive pads</li> </ul> <p><b>AED Function</b></p> <ul style="list-style-type: none"> <li>• Integrated AED mode with voice and visual prompts</li> <li>• Automatic rhythm analysis and shock recommendation</li> <li>• CPR guidance support preferred</li> <li>• Fast transition between AED and manual mode</li> </ul> <p><b>Monitoring Functions</b></p> <p>The monitor shall provide at least:</p> <ul style="list-style-type: none"> <li>• ECG monitoring</li> <li>• Heart rate display</li> <li>• SpO<sub>2</sub> monitoring</li> <li>• NIBP monitoring</li> <li>• Respiration monitoring</li> <li>• Temperature</li> </ul> <p><b>Pacing Function</b></p> <ul style="list-style-type: none"> <li>• Integrated external pacing function</li> <li>• Adjustable pacing rate and output current</li> <li>• Demand and fixed pacing modes preferred</li> </ul> <p><b>Display &amp; User Interface</b></p> <ul style="list-style-type: none"> <li>• High-resolution color TFT/LCD display</li> <li>• Simultaneous waveform and parameter display</li> </ul>				

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	<ul style="list-style-type: none"> <li>• Battery status, alarm status, and charging indication</li> <li>• Easy operation under emergency conditions</li> </ul> <p><b>Alarm System</b> Audio-visual alarms for:</p> <ul style="list-style-type: none"> <li>• High/low heart rate</li> <li>• Lead disconnection</li> <li>• Low battery</li> <li>• System fault</li> <li>• Paddle connection error</li> </ul> <p><b>Data Management &amp; Connectivity</b></p> <ul style="list-style-type: none"> <li>• Internal event recording and storage capability</li> <li>• USB and/or network connectivity preferred</li> <li>• Capability for ECG/event data export and review</li> </ul> <p><b>Power Supply</b></p> <ul style="list-style-type: none"> <li>• AC power operation: <b>100–240V, 50/60 Hz</b></li> <li>• Built-in rechargeable battery</li> <li>• Battery backup suitable for transport and emergency use</li> <li>• Battery charging indication available</li> </ul> <p><b>Accessories (Standard Supply)</b> The system shall be supplied with:</p> <ol style="list-style-type: none"> <li>1. Main defibrillator unit – 1 pc</li> <li>2. Reusable external paddles – 1 set</li> <li>3. Internal paddles/handles – 1 set</li> <li>4. Disposable adhesive defibrillation pads – 1 set</li> <li>5. ECG patient cable – 1 pc</li> <li>6. SpO<sub>2</sub> sensor – 1 pc</li> <li>7. Temperature probe-01 pc</li> </ol>				

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	<p>8. Power cord – 1 pc            9. Rechargeable battery – 1 pc            10. User manual – 1 set</p> <p><b>Compliance &amp; Standards</b></p> <ul style="list-style-type: none"> <li>• CE certified under MDR or equivalent</li> <li>• US-FDA approval preferred</li> <li>• Manufacturer must be ISO 13485 certified</li> <li>• Compliance with:               <ul style="list-style-type: none"> <li>• IEC 60601-1 (Electrical Safety)</li> <li>• IEC 60601-1-2 (EMC)</li> <li>• IEC 60601-2-4 (Defibrillator standard)</li> </ul> </li> </ul> <p><b>Warranty &amp; After-Sales Service</b></p> <ul style="list-style-type: none"> <li>• Minimum <b>02 (Two) years comprehensive warranty</b></li> <li>• Free maintenance and repair service during warranty period</li> <li>• Spare parts and consumables support required</li> <li>• Service response time: <b>within 72 hours</b> of complaint</li> </ul> <p><b>General Requirements</b></p> <ul style="list-style-type: none"> <li>• Equipment must be brand new and latest model</li> <li>• Bidder must provide technical datasheet and compliance statement</li> <li>• User and biomedical training must be included</li> <li>• Spare parts availability for minimum 5 years must be ensured</li> </ul>				
130	<p><b>ABG Machine</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: To be mentioned by the bidder</p>	03			

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	<p>Country of Manufacturing/Shipment: To be mentioned by the bidder</p> <ul style="list-style-type: none"> <li>• Fully automatic blood gas analyzer Benchtop or Portable</li> <li>• Essential Measured parameters; pH, pCO<sub>2</sub>, pO<sub>2</sub> &amp; other calculative parameters</li> <li>• Optional parameters: Na, K, Ca, Cl, HCT, Glu/Lac, Urea, bilirubin, SO<sub>2</sub>, tHB etc.</li> <li>• Sample Type: Whole Blood, Serum, Plasma, Dialysate &amp; QC material</li> <li>• Measurement Sample volume: less than 100 micro litre.</li> <li>• Analysis time : less than 125 sec.</li> <li>• Technology: Sensor/Cartridge/Electrode/Optical based technology</li> <li>• Data display should be on well-illuminated, adequate size screen display.</li> <li>• Thermal printer: Build in &amp; graphical capability</li> <li>• Barcode scanner: Standard Accessory</li> <li>• Power Supply: 100-240V, 50-60 Hz</li> <li>• Calibration – Auto Calibration or On demand</li> <li>• Quality Control: Must have option for internal or external quality control</li> <li>• Operating of the machine- User Friendly Touch Screen or Keypad</li> <li>• Ambient working temperature – 15 to 31 Degrees.</li> <li>• Relative humidity: 20-85%</li> <li>• It must be US-FDA /CE (Conformité Européenne) approved.</li> <li>• Operating and Service manual should be supplied.</li> </ul> <p><b>Warranty &amp; After-Sales Service</b></p> <ul style="list-style-type: none"> <li>• Minimum 02 (Two) years comprehensive warranty</li> <li>• Supplier shall provide software support, maintenance, and repair services during warranty period</li> <li>• Service response time: within 72 hours from complaint notification</li> <li>• Availability of spare parts and software support for minimum 5 years</li> </ul>				

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SI. No.	Item details	Quantity (present need)	Unit price Excl. VAT (BDT) for present need	Unit price Excl. VAT (BDT) for LTA	Delivery lead-time (DAP) – present need
140	<p><b>Central Monitoring System (CMS) with Workstation</b></p> <p>Model: To be mentioned by the bidder                      Brand: To be mentioned by the bidder                      Country of Origin: To be mentioned by the bidder                      Country of Manufacturing/Shipment: To be mentioned by the bidder                      Certification: Must be CE (MDR) and/or US-FDA approved</p> <p><b>General Description</b>                      The system shall be a <b>Central Monitoring System (CMS)</b> designed for continuous centralized monitoring, storage, review, and management of patient data from bedside patient monitors within ICU, CCU, NICU, PICU, emergency, and other critical care areas.                      The CMS shall support real-time display of patient parameters, alarm management, waveform review, trend analysis, and network connectivity through a dedicated workstation.</p> <p><b>System Configuration</b>                      The complete system shall include at minimum:</p> <ul style="list-style-type: none"> <li>• Central Monitoring Software</li> <li>• USB Watchdog</li> <li>• Cat5E networking cables</li> <li>• RS232 communication connector/interface</li> <li>• Networking hub/switch</li> <li>• Central workstation computer</li> <li>• 650VA UPS (Uninterruptible Power Supply)</li> <li>• Inkjet printer-canon/HP/Brothers</li> </ul> <p><b>Central Monitoring Software Features</b>                      The CMS software shall provide:</p> <ul style="list-style-type: none"> <li>• Real-time monitoring of multiple bedside patient monitors simultaneously</li> <li>• Centralized display of waveforms, numeric parameters, alarms, and trends</li> <li>• Multi-bed monitoring capability</li> </ul>	02			

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	<ul style="list-style-type: none"> <li>• Remote alarm notification and alarm review</li> <li>• Patient trend review and waveform playback</li> <li>• Event and alarm storage capability</li> <li>• Patient admission/discharge management</li> <li>• Network communication with compatible bedside monitors</li> <li>• User-friendly graphical interface</li> <li>• Password-protected user access preferred</li> <li>• Data export and printing capability</li> <li>• Support for central alarm management and review</li> </ul> <p><b>Monitoring Capability</b> The system shall support monitoring and display of at least:</p> <ul style="list-style-type: none"> <li>• ECG / Heart Rate</li> <li>• Respiration</li> <li>• SpO<sub>2</sub></li> <li>• NIBP</li> <li>• Temperature</li> <li>• Pulse Rate</li> <li>• Optional advanced parameters depending on bedside monitor compatibility</li> </ul> <p><b>Review, Monitoring &amp; trending Data</b></p> <ul style="list-style-type: none"> <li>• Number of monitoring device: minimum 64 monitor</li> <li>• Maximum bed number on single/dual Screens: 36</li> <li>• Maximum bed number on 3/4 Screens: 64</li> <li>• Single bed display mode: Single bed on one screen/ compact display, Dynamic trend screen /Standard screen /ECG screen</li> <li>• Maximum waveforms on single/dual screens: 36</li> <li>• Historical review: Supports at least 2000 discharged patient monitoring data review</li> <li>• Full disclosure: 240 hours</li> <li>• Trends: 240 hours</li> <li>• DM trends: 240 hours</li> </ul>				

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	<ul style="list-style-type: none"> <li>• NIBP review: 1000 NIBP measurement results</li> <li>• C.O. review: 720 C.O. measurement results</li> <li>• Alarm events: The latest 3000 events</li> <li>• OxyCRG review: At least 48 hours (Only Neonate)</li> <li>• Dynamic trends: 8 hours</li> <li>• ST segment: 24 hours</li> <li>• Arrhythmia statistic: 24 hours</li> <li>• ECG summary: 24 hours</li> <li>• Freeze waveform: 120s full disclosure</li> </ul> <p><b>Workstation Specifications</b> The workstation computer shall include or exceed the following specifications:</p> <p><b>Processor</b></p> <ul style="list-style-type: none"> <li>• Intel Core i7 (10th Generation or higher)</li> </ul> <p><b>Memory</b></p> <ul style="list-style-type: none"> <li>• Minimum 16 GB RAM</li> </ul> <p><b>Storage</b></p> <ul style="list-style-type: none"> <li>• Minimum 1 TB SSD storage</li> <li>• Support for dual hard disk redundancy preferred</li> </ul> <p><b>Graphics</b></p> <ul style="list-style-type: none"> <li>• Integrated graphics capable of dual-display extension</li> </ul> <p><b>Optical Drive</b></p> <ul style="list-style-type: none"> <li>• DVD-ROM or equivalent</li> </ul> <p><b>Display</b></p> <ul style="list-style-type: none"> <li>• Minimum 23.8-inch widescreen Dell/HP/ASUS monitor</li> <li>• Resolution: minimum 1920 × 1080 pixels</li> </ul> <p><b>Operating System</b></p> <ul style="list-style-type: none"> <li>• Licensed operating system compatible with CMS software</li> </ul> <p><b>Networking &amp; Connectivity</b></p>				

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	<ul style="list-style-type: none"> <li>• Ethernet-based network communication</li> <li>• Cat5E or higher networking support</li> <li>• RS232 communication support</li> <li>• Compatible with bedside patient monitors of the same manufacturer</li> <li>• Centralized communication through network switch/hub</li> <li>• Capability for data transfer and export</li> </ul> <p><b>Data Management</b></p> <ul style="list-style-type: none"> <li>• Real-time patient data storage</li> <li>• Alarm and event history storage</li> <li>• Trend data review capability</li> <li>• Waveform replay function</li> <li>• Data backup and redundancy support preferred</li> <li>• Printing and report generation capability</li> </ul> <p><b>Power Supply &amp; Backup</b></p> <ul style="list-style-type: none"> <li>• AC input: 100–240V, 50/60 Hz</li> <li>• 650VA UPS included for uninterrupted operation</li> <li>• UPS backup suitable for safe system shutdown and short-term operation</li> </ul> <p><b>Accessories (Standard Supply)</b></p> <p>The system shall be supplied with:</p> <ol style="list-style-type: none"> <li>1. Central Monitoring Software License – 1 set</li> <li>2. USB Watchdog – 1 pc</li> <li>3. Networking cables (Cat5E or better) – as required</li> <li>4. RS232 connectors/interfaces – as required</li> <li>5. Network switch/hub – 1 pc</li> <li>6. Workstation computer – 1 set</li> <li>7. 23.8-inch Dell/HP/ASUS monitor – 1 pc</li> <li>8. 650VA UPS – 1 pc</li> <li>9. Inkjet printer-canon/HP/Brothers – 1 pc</li> </ol>				

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	<p>10. User manual – 1 set</p> <p><b>Compliance &amp; Standards</b></p> <ul style="list-style-type: none"> <li>• CE certified under MDR or equivalent</li> <li>• US-FDA approval preferred</li> <li>• Manufacturer must be ISO 13485 certified</li> <li>• Supplier must be ISO 9001 certified (if applicable)</li> <li>• Compliance with:               <ul style="list-style-type: none"> <li>• IEC 60601-1 (Electrical Safety)</li> <li>• IEC 60601-1-2 (EMC)</li> </ul> </li> </ul> <p><b>Warranty &amp; After-Sales Service</b></p> <ul style="list-style-type: none"> <li>• Minimum 01 (one) year comprehensive warranty</li> <li>• Supplier shall provide software support, maintenance, and repair services during warranty period</li> <li>• Service response time: within 72 hours from complaint notification</li> <li>• Availability of spare parts and software support for minimum 5 years</li> </ul>				
150	<p><b>Spot light</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: To be mentioned by the bidder            Country of Manufacturing/Shipment: To be mentioned by the bidder            Certification: Must be CE /MDR and ISO Certified</p> <p>General Requirements</p> <ul style="list-style-type: none"> <li>• The unit shall be a mobile type LED minor surgical light suitable for use in minor operation theaters, emergency rooms, outpatient departments, NICU,PICU, ICU, and examination rooms.</li> </ul>	05			

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	<ul style="list-style-type: none"> <li>• The system shall provide shadow-free, homogeneous, and high-intensity illumination for minor surgical and clinical procedures.</li> <li>• The offered system shall be compact, easy to maneuver, and suitable for continuous clinical operation.</li> </ul> <p>illumination System</p> <ul style="list-style-type: none"> <li>• Light source shall be high-efficiency LED technology.</li> <li>• Illumination intensity shall be minimum 70,000 Lux at 50 cm working distance.</li> <li>• The light field shall provide uniform and shadow-reduced illumination.</li> <li>• Color Rendering Index (CRI) shall be <math>\geq 90</math>.</li> <li>• Red color rendering index (R9) shall be <math>\geq 90</math>.</li> <li>• Color temperature shall be adjustable or optimized within the range of 3,500K–5,000K.</li> <li>• LED service life shall be minimum 50,000 hours.</li> </ul> <p>Light Head</p> <ul style="list-style-type: none"> <li>• The light head shall be compact and lightweight for easy positioning.</li> <li>• The diameter of the light field shall be suitable for minor surgical procedures.</li> <li>• The light intensity shall be adjustable through touch or membrane control panel.</li> <li>• The system shall generate low heat radiation toward the surgical field.</li> </ul> <p>Arm &amp; Mobility</p> <ul style="list-style-type: none"> <li>• The unit shall be supplied with a spring-balanced arm system for smooth positioning.</li> <li>• The arm shall allow vertical and horizontal movement with stable positioning.</li> <li>• The mobile stand shall be robust with antistatic castors and braking mechanism.</li> <li>• The base shall ensure high stability during movement and operation.</li> </ul> <p>Electrical Requirements</p> <ul style="list-style-type: none"> <li>• Power supply shall be 220–240V AC, 50/60 Hz.</li> <li>• Power consumption shall be low and energy efficient.</li> <li>• The unit shall include protection against voltage fluctuation.</li> </ul>				

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	<p>Safety &amp; Standards</p> <ul style="list-style-type: none"> <li>• The equipment shall comply with applicable IEC/ISO safety standards for medical electrical equipment.</li> <li>• The unit shall be CE/FDA certified.</li> <li>• The manufacturer shall have ISO 13485 certification.</li> </ul> <p>Accessories</p> <ul style="list-style-type: none"> <li>• Mobile stand with locking castors.</li> <li>• Spring-balanced arm assembly.</li> <li>• Sterilizable handle (if applicable).</li> <li>• User manual and service manual.</li> </ul> <p>Warranty</p> <ul style="list-style-type: none"> <li>➤ At least 01 (One) year comprehensive warranty of the machine from the date of handing over of the machine to the user in commissioning and functioning condition.</li> <li>➤ In the warranty period, the supplier will provide all maintenance and repair services</li> <li>➤ The service should be provided within 72 hours from the date of complaints logged.</li> </ul>				
160	<p><b>Baby Cot</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: To be mentioned by the bidder            Certification: Must be CE and ISO Certified</p> <p><b>General Description</b>            The unit shall be a <b>hospital-grade baby crib</b> designed for safe accommodation and transport of newborns and infants in hospitals, NICU, SCANU, maternity, and pediatric wards. The crib shall be durable, easy to clean, and suitable for continuous hospital use.</p> <p><b>Technical Specifications</b></p> <ul style="list-style-type: none"> <li>• Baby cot/bassinet made of transparent ABS/acrylic material</li> </ul>	450			

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	<ul style="list-style-type: none"> <li>• Smooth edges and rounded corners for infant safety</li> <li>• Mattress platform with removable mattress</li> <li>• Side protective rails for safety</li> <li>• Easy cleaning and disinfection design</li> <li>• Mounted on smooth moving castors/wheels</li> <li>• Minimum two wheels with locking system</li> <li>• Compact and stable structure suitable for hospital use</li> <li>• Anti-rust powder-coated finish</li> </ul> <p><b>Accessories (Standard Supply)</b> The system shall be supplied with:</p> <ol style="list-style-type: none"> <li>1. Baby crib frame – 1 pc</li> <li>2. Transparent baby bassinet – 1 pc</li> <li>3. Mattress – 1 pc</li> <li>4. Castors with brakes – 1 set</li> <li>5. User manual – 1 set</li> </ol> <p><b>Compliance &amp; Standards</b></p> <ul style="list-style-type: none"> <li>• CE certified or equivalent</li> <li>• Manufacturer should comply with ISO 13485 quality standards</li> <li>• Materials should be non-toxic and hospital grade</li> </ul> <p><b>Warranty &amp; After-Sales Service</b></p> <ul style="list-style-type: none"> <li>• Minimum 01 (one) year warranty</li> <li>• Service support within 72 hours of complaint notification</li> <li>• Spare parts support for minimum 5 years</li> </ul>				

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170	<p><b>Bubble CPAP (Option 2)</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: USA/Germany/New-zeland            Country of Manufacturing/Shipment:USA/Germany/New-zeland            Certification: Should be US-FDA certified</p> <p>An electrically powered device designed to deliver high-flow (exceeding peak inspiratory flow) heated and humidified ambient air or air/oxygen to a neonatal patient as part of non-invasive ventilation (NIV); it may additionally be used with a water tank to produce bubble continuous positive airway pressure (bubble CPAP).</p> <p>a. Provides continuous positive airway pressure to spontaneously breathing infants requiring respiratory support for premature neonates and infants weighing up to 10kg.</p> <ul style="list-style-type: none"> <li>∅ The device should have a servo control heated humidifier</li> <li>∅ Humidifier must have a visual and audible alarm for the following safety.               <ul style="list-style-type: none"> <li>v Circuit Disconnection alarm</li> <li>v The Tube Fault Alarm</li> <li>v Temperature high and low alarm.</li> <li>v Chamber installation</li> <li>v The Service Required alarm</li> </ul> </li> <li>∅ Humidifier must have bottom heating technology for better humidification and less water condemnation.</li> <li>∅ Humidifier must have Auto as well as manual mode for direct temperature adjustment.</li> <li>∅ Humidifier must have water vapors size adjustment for humidity control.</li> <li>∅ Device must have an temperature and heating hose adaptor and temperature sensor to minimize infection.</li> <li>∅ Device must have Bubbler for PEEP adjustment along with water level inductor.</li> </ul> <p>b. Supports pressures between 1 – 10 cmH2O through bubble controller.</p>	14			

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	<p>c. Suitable for heated closed patient circuits.</p> <p>d. The device must have a blender (USA Countries) with an integrated oxygen flow meter.</p> <p>e. Medical bubble CPAP unit on a medical-grade telescopic stand</p> <p>f. Including alarms for power failure, Circuit disconnect, high and low pressure, and no flow.</p> <p>g. All accessories (patient circuits, nasal tubing, nasal cannula, prong, mask, and bonnet) must be medical grade and manufacture should be the same as same humidifier chamber. Compatible accessories are not allowed.</p> <p>Technical Specification of Bubble CPAP Unit:</p> <ul style="list-style-type: none"> <li>• Input Flow Range : 4 to 15 L/min</li> <li>• Recommended Input Flow : 6 to 8 L/min</li> <li>• Set CPAP Pressure Range : 3 to 10 cmH2O</li> <li>• Intended Patient Population : Premature neonates and infants up to 10 kg</li> <li>• Oxygen Analyzer Port : 22 mm Male or 15 mm Female</li> <li>• Pressure Monitoring Port : Female Luer</li> <li>• Gas supply : 3.0 to 6.0 bar (Air and Oxygen)</li> <li>• Gas connection : DISS (REF1093) or NIST (REF1094)</li> <li>• FiO2 Oxygen concentration : 21 to 100 %, ± 3% accuracy full scale</li> <li>• Alarms : Audible (inlet pressure difference &gt;1bar)</li> </ul> <p>Following these parts are supplied with each Bubble CPAP Unit</p> <p>h. Each device must be supplied with the following accessories-</p> <ul style="list-style-type: none"> <li>∅ Heated Humidifier – 1 no/each machine</li> <li>∅ Blender with integrated oxygen flow meter - 1 no/each machine</li> <li>∅ Patient circuit – 1 no/each machine</li> <li>∅ Nasal Tubing- 1 no/each machine</li> <li>∅ Prong each size (XS/S/M) minimum – 01 no/each machine</li> <li>∅ Mask each size (S,M,L) minimum – 01 no/each machine</li> <li>∅ Infant Bonnet with strap (S,M,L) minimum – 01 no/each machine</li> </ul>				

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	<p>∅ Telescopic stand – 1 no/each machine</p> <p>∅ Medical Grade Gas Supply Line (Oxygen and Air) with standard Probe</p> <p>∅ Mounting clamp for Blender and Humidifier.</p> <p>∅ Power Cable</p> <p>∅ User Manual</p> <p>i. Warranty &amp; related services</p> <p>∅ At least 01 (One) year comprehensive warranty of the machine from the date of handing over of the machine to the user in commissioning and functioning condition.</p> <p>∅ In the warranty period, the supplier will provide all maintenance and repair services</p> <p>∅ The service should be provided within 72 hours from the date of complaints logged.</p>				
180	<p><b>Portable Fetal Doppler</b></p> <p>Model: To be mentioned by the bidder</p> <p>Brand: To be mentioned by the bidder</p> <p>Country of Origin:</p> <p>Certification: Should be ISO &amp; CE</p> <p>General Requirements</p> <ul style="list-style-type: none"> <li>• Portable, handheld fetal Doppler for non-invasive detection and monitoring of fetal heart rate (FHR).</li> <li>• Suitable for use in hospitals, maternity centers, clinics, community health facilities, and home healthcare settings.</li> <li>• Device shall be CE approved or comply with equivalent international quality and safety standards.</li> <li>• Manufacturer shall be ISO 13485 certified.</li> </ul> <p>Technical Features</p> <ul style="list-style-type: none"> <li>• Operating Principle: Continuous Wave (CW) Doppler Ultrasound.</li> <li>• Ultrasound Frequency: 2 MHz ±10% (preferred); optional 3 MHz probe acceptable.</li> <li>• Fetal Heart Rate (FHR) Measuring Range: 50–240 bpm.</li> <li>• Accuracy: ±2 bpm or better.</li> </ul>	623			

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	<ul style="list-style-type: none"> <li>• Ultrasound Output Intensity: Compliant with IEC 60601 and applicable safety standards.</li> <li>• High-sensitivity waterproof probe.</li> <li>• Real-time fetal heart rate display.</li> <li>• Built-in speaker for clear fetal heartbeat sound.</li> <li>• Adjustable audio volume control.</li> <li>• Automatic signal processing and noise reduction technology.</li> </ul> <p>Display</p> <ul style="list-style-type: none"> <li>• Large LCD, LED, or OLED display.</li> <li>• Simultaneous display of fetal heart rate and battery status.</li> <li>• Easy-to-read display under various lighting conditions.</li> </ul> <p>Power Supply</p> <ul style="list-style-type: none"> <li>• Operates on rechargeable lithium battery or standard AA batteries.</li> <li>• Battery operating time: Minimum 4 hours continuous use.</li> <li>• Low battery indication.</li> <li>• Automatic power-off function to conserve battery.</li> </ul> <p>Probe</p> <ul style="list-style-type: none"> <li>• Ergonomic, lightweight probe design.</li> <li>• Waterproof probe (IPX7 or equivalent preferred).</li> <li>• Durable cable and connector.</li> <li>• Easy probe replacement if required.</li> </ul> <p>Safety Requirements</p> <ul style="list-style-type: none"> <li>• Electrical Safety Standard: IEC 60601-1 or equivalent.</li> <li>• Electromagnetic Compatibility: IEC 60601-1-2 or equivalent.</li> <li>• Ultrasound Safety Standards compliant.</li> <li>• Device shall be safe for routine obstetric examination.</li> </ul> <p>Physical Characteristics</p> <ul style="list-style-type: none"> <li>• Compact and lightweight handheld design.</li> <li>• Weight: Not more than 600 g (excluding accessories).</li> <li>• Durable medical-grade housing.</li> <li>• Easy cleaning and disinfection.</li> </ul> <p>Accessories</p>				

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	<ul style="list-style-type: none"> <li>• Main unit.</li> <li>• Ultrasound probe.</li> <li>• Rechargeable battery and charger (if rechargeable type).</li> <li>• Carrying pouch/case.</li> <li>• User manual.</li> </ul> <p>Environmental Conditions</p> <ul style="list-style-type: none"> <li>• Operating Temperature: 5°C to 40°C or better.</li> <li>• Relative Humidity: Up to 85% non-condensing.</li> </ul> <p>Warranty and Support</p> <ul style="list-style-type: none"> <li>• Minimum 1-year comprehensive warranty.</li> <li>• Availability of local service support and spare parts.</li> <li>• User training and installation support to be provided.</li> </ul> <p>Documentation</p> <ul style="list-style-type: none"> <li>• Product brochure/catalog.</li> <li>• User and service manuals.</li> <li>• CE certificate or equivalent.</li> <li>• ISO 13485 certification of manufacturer.</li> </ul>				
190	<p><b>Glucometer and strips</b></p> <p>Blood Glucose Monitoring System (Meter &amp; Test Strips)  Model: To be mentioned by the bidder  Brand: To be mentioned by the bidder  Country of Origin:  Certification: Should be ISO &amp; CE</p> <p>Features</p> <p>The bidder shall supply a complete, ready-to-use Blood Glucose Monitoring System comprising:</p> <ul style="list-style-type: none"> <li>• Digital Blood Glucose Meter (Glucometer)</li> <li>• Blood Glucose Test Strips</li> <li>• Lancing Device and Sterile Lancets</li> <li>• User Manual (in English and/or local language)</li> </ul>	623			

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	<ul style="list-style-type: none"> <li>• Rigid Carrying/Storage Case</li> </ul> <p>Technical Specification</p> <p>Type: Portable, handheld blood glucose monitoring system</p> <p>Measurement Principle: Electrochemical biosensor technology</p> <p>Sample Type: Fresh capillary whole blood</p> <p>Blood Sample Volume: ≤ 1.0 µL</p> <p>Measuring Range: 20–600 mg/dL (1.1–33.3 mmol/L) or better</p> <p>Test Time: ≤ 5 seconds</p> <p>Display: Large LCD digital display</p> <p>Memory Capacity: Minimum 500 test results with date and time</p> <p>Coding: Auto-coding or no-coding technology</p> <p>Measurement Units: mg/dL and/or mmol/L</p> <p>Power Supply: Replaceable battery</p> <p>Battery Life: Minimum 1,000 tests per battery set</p> <p>Data Management: USB, Bluetooth, or wireless connectivity (optional)</p> <p>Quality Control: Built-in quality control and error detection system</p> <p>Operating Temperature: 5°C to 45°C or better</p> <p>Accuracy: Complies with ISO 15197:2013 or latest applicable standard</p> <p>Calibration: Plasma-equivalent results</p> <p>Strip Shelf Life: Minimum 12 months from manufacturing date</p> <p>Test Strip Storage: Room temperature as recommended by manufacturer</p> <p>Automatic Functions: Auto power on/off upon strip insertion/removal</p> <p>Indicators: Low battery, strip error</p> <p>Accessories: Carrying case, lancing device, lancets, test strips, batteries, user manual</p> <p>Regulatory Compliance: ISO, CE</p> <p>Standard Supply Package</p> <p>01 Glucometer Unit</p> <p>25 Lancets</p> <p>25 Test Strips</p> <p>Batteries, User Manual, Carrying Case</p>				

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190 A	<p><b>Glucometer test strips (additional)</b></p> <p>Provide price for one box containing 25 test strips compatible with the offered glucometer (item 190)</p>	01			
200	<p><b>Tri -netro ROP machine</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: USA            Country of Manufacturing/Shipment: Should be same as origin            Certification: CE, FDA</p> <p>The system shall be a professional-grade, portable, wide-field digital imaging device specifically designed for Retinopathy of Prematurity (ROP) screening and documentation in the Neonatal Intensive Care Unit (NICU). The system must be capable of high-resolution imaging of the infant retina to monitor disease progression and treatment outcomes.</p> <p>Imaging Headpiece (Handheld Probe)            The headpiece is the primary functional component and must meet the following:</p> <ul style="list-style-type: none"> <li>• Design: Ergonomic, lightweight handheld Camera Handpice (Weight less than 500g) for single-operator use.</li> <li>• Contact Imaging: Must be a contact-based optical system utilizing a coupling gel.</li> <li>• Field of View (FOV): Minimum 100 to 130° wide-field in a single capture to visualize the peripheral retina (Zone 3).</li> <li>• Illumination: Integrated "Cold" LED illumination to eliminate thermal risk to the neonatal retina.</li> <li>• Focusing: Fine manual or auto-focus control accessible on the probe handle or via foot switch.</li> <li>• Durability: The lens and body must be validated for high-level disinfection with medical-grade wipes (e.g., 70% Isopropyl Alcohol) without optical degradation.</li> </ul>	01			

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	<ul style="list-style-type: none"> <li>• Cable: Reinforced, flexible umbilical cable (approximate 1.8 meters) to reach infants deep inside incubators.</li> </ul> <p>Optical &amp; Camera Performance</p> <ul style="list-style-type: none"> <li>• Sensor: High-sensitivity Medical CMOS/CCD sensor optimized for neonatal vascular detail.</li> <li>• Resolution: Minimum 3-5 Megapixels effective resolution.</li> <li>• Capture Modes: High-resolution still images and real-time video capture (minimum 30 fps) with audio annotation capability.</li> <li>• Safety Standards: Must comply with ISO 15004-2 (Ophthalmic light safety) and IEC 60601-1 (Electrical safety).</li> </ul> <p>Processing Workstation &amp; Display</p> <p>The system must include a dedicated medical-grade processing unit:</p> <ul style="list-style-type: none"> <li>• Processor: Intel Core i7 or equivalent (latest generation).</li> <li>• Memory: Minimum 16 GB DDR4 RAM.</li> <li>• Storage: Minimum 1 TB Solid State Drive (SSD) for rapid image saving and database search.</li> <li>• Display: Minimum 15-inch Full HD (1920 x 1080) anti-glare medical-grade monitor.</li> <li>• Form Factor: Mounted on a dedicated Medical Grade Trolley with lockable, anti-static wheels and a secure holster/dock for the headpiece.</li> </ul> <p>Software &amp; Connectivity</p> <ul style="list-style-type: none"> <li>• Clinical Suite: Dedicated ROP software for patient registration, image marking (Zones/Stages), and side-by-side visit comparison.</li> <li>• Tele-Ophthalmology: Built-in capability for secure, encrypted remote data transfer for expert grading.</li> <li>• Compatibility: Full DICOM compliance for PACS/HIS integration.</li> <li>• Export: Multi-format export (JPEG, PNG, AVI/MP4) via USB 3.0, LAN, and high-speed Wi-Fi.</li> </ul> <p>Power &amp; Environmental</p>				

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	<ul style="list-style-type: none"> <li>• Input Power: 220–240V, 50 Hz.</li> <li>• Battery Backup: Integrated lithium-ion battery providing more than 2 hours of full system operation for bedside use without a wall outlet.</li> <li>• External Protection: Included 1 kVA Online UPS to protect sensitive optics from voltage fluctuations.</li> </ul> <p>Required Accessories &amp; BOQ                      The supplier must provide the following as a complete kit:</p> <ol style="list-style-type: none"> <li>1. Main System: Handheld Headpiece and Medical Workstation/Trolley.</li> <li>2. Lenses: Wide-field lens (standard) plus any specialized lenses required for the quoted FOV.</li> <li>3. Speculums: 3x Sterilizable neonatal eyelid speculums (varying sizes).</li> <li>4. Scleral Depressor: 1x Sterilizable infant depressor for peripheral examination.</li> <li>5. Control: 1x Multi-function Foot Switch for hands-free image capture.</li> <li>6. Protection: 1x Custom-fit Dust Cover and a ruggedized Carrying Case for transit.</li> </ol> <p>Warranty, Training &amp; Support</p> <ul style="list-style-type: none"> <li>• Warranty: Minimum 2 Years Comprehensive Warranty covering the headpiece, workstation, and software.</li> <li>• Training: Onsite clinical training for doctors and nurses on image acquisition and software management.</li> </ul>				
210	<p><b>Hemoglobinometer and strips</b></p> <p>Portable Digital Hemoglobinometer with Test Strips                      Model: To be mentioned by the bidder                      Brand: To be mentioned by the bidder                      Country of Origin: To be mentioned by the bidder</p> <p><b>Parameter Specification</b>                      Type: Portable, battery-operated digital hemoglobin measuring device                      Measurement Principle: Photometric, reflectance photometry, or equivalent technology                      Parameters Measured: Hemoglobin (Hb) concentration</p>	623			

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	<p>Sample Type: Capillary, venous, or arterial whole blood            Sample Volume: ≤ 20 µL            Measuring Range: At least 0–25 g/dL            Accuracy: ±1.0 g/dL or better within the measuring range            Precision: CV ≤ 3%            Test Time: ≤ 60 seconds            Display: Large digital LCD display            Memory Capacity: Minimum 500 test results with date and time            Data Transfer: USB, Bluetooth, or equivalent (if available)            Calibration: Factory calibrated; no routine user calibration required            Power Supply: Rechargeable battery and/or replaceable batteries            Battery Capacity: Minimum 500 tests per charge/set of batteries            Operating Temperature: 15°C to 40°C or as recommended by manufacturer            Operating Humidity: 10%–90% RH, non-condensing            Quality Control: Built-in self-test and quality control features            Result Units: g/dL            Portability: Lightweight handheld design</p> <p><b>Standard Accessories</b></p> <ul style="list-style-type: none"> <li>• Hemoglobinometer unit</li> <li>• Carrying case</li> <li>• Rechargeable battery and charger (if applicable)</li> <li>• User manual</li> <li>• Quality control material (if supplied by manufacturer)</li> <li>• 25 Test strips</li> </ul> <p><b>Test strips:</b></p> <p>Parameter      Specification            Type      Disposable hemoglobin test strips/microcuvettes compatible with the offered hemoglobinometer</p>				

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	Sample Requirement Capillary, venous, or arterial whole blood Sample Volume Compatible with analyzer requirements Shelf Life Minimum 12 months upon delivery Storage Conditions As recommended by manufacturer; room-temperature storage preferred Packaging Individually packed or moisture-protected container Calibration Factory calibrated; no coding required Quality Assurance Compatible and validated for use with the offered device Regulatory Compliance CE Mark and/or US FDA approval (preferred)				
210 A	<b>Hemoglobinometer test strips (additional)</b>  Provide price for one box containing 25 test strips compatible with the offered Hemoglobinometer (item 210)	01			
220	<b>Labor Beds</b>  General Description The equipment must be an integrated, heavy-duty manual/hydraulic obstetric table designed systematically for conducting safe parturient delivery, gynecological surgeries, operative abortions, routine clinical examinations, and multi-functional obstetric diagnosis within medical healthcare facilities. 2. Structural Design & Material Requirements <ul style="list-style-type: none"> <li>• Base &amp; Column Construction: The base seat structure and upright supporting column covering must be fabricated from high-quality, corrosion-resistant medical-grade 304 Stainless Steel to withstand heavy exposure to disinfectants, prevent rust, and facilitate flawless cleaning cycles.</li> <li>• Table Architecture: Must feature an ergonomic modular design consisting of a primary main bed integrated seamlessly with a fully detachable/sliding auxiliary table section to satisfy versatile patient positioning demands and smooth breakdown for space optimization.</li> <li>• Mattress Quality &amp; Hygiene: The entire mattress setup must be completely seamless, utilizing high-density, single-piece molded memory sponge or equivalent premium high-resilience</li> </ul>	100			

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SI. No.	Item details	Quantity (present need)	Unit price Excl. VAT (BDT) for present need	Unit price Excl. VAT (BDT) for LTA	Delivery lead-time (DAP) – present need
	<p>medical foam. It must be upholstered with a high-grade artificial leather cover that is antimicrobial, waterproof, blood/fluid-resistant, and completely non-absorbent.</p> <ul style="list-style-type: none"> <li>• Mobility &amp; Braking Mechanics: Must be equipped with heavy-duty, smooth-rolling floor castors enabling multi-directional maneuverability. It must integrate a highly secure and rigid mechanical floor-locking brake device to ensure absolute stability during micro-surgical operations.</li> </ul> <p>3. Functional &amp; Mechanical Adjustments</p> <ul style="list-style-type: none"> <li>• Height Adjustment: Must be hydraulically elevated and lowered via an integrated fluid-dynamic, non-slip foot pedal system. The core mechanism must utilize premium, imported high-pressure Y-type sealing rings to prevent structural hydraulic fluid leakage over continuous long-term field operations.</li> <li>• Trendelenburg Range: Must support smooth manual mechanical gear/crank adjustment setups for both standard Trendelenburg and Reverse-Trendelenburg orientations.</li> <li>• Backrest Adjustability: Features precise, safe mechanical adjustments to articulate the back-board section upwards and downwards to assist targeted surgical or delivery angles.</li> <li>• Leg Board Flexibility: The specialized leg plates/sections must be capable of rotating outwards by a minimum of 90 degrees (or up to 180 degrees) to offer completely unobstructed medical practitioner access, with alternative utility as a heavy-load foot pedal support structure.</li> </ul> <p>Technical Parameters and Dimensions</p> <p>Bidders must strictly meet or exceed the following dimensional thresholds and range profiles:</p> <p>Overall Table Length: 1950 mm ± 50 mm</p> <p>Overall Table Width: 600 mm ± 10 mm</p> <p>Adjustable Height Range: Min: ≤ 700 mm to Max: ≥ 900 mm (Allowance: ±50 mm)</p> <p>Trendelenburg / Reverse-Trendelenburg: ≥ 10° / ≥ 20°</p> <p>Back Board Elevation (Upwards): ≥ 50°</p> <p>Back Board Depression (Downwards): ≥ 3°</p> <p>Leg Board Outward Rotation: ≥ 90° (or full 180° swing option)</p> <p>5. Standard Accessories Bundle</p> <p>Each delivered units must come bundled with the following standard surgical components fully included in the standard price breakdown:</p> <ul style="list-style-type: none"> <li>• One (1) Pair of heavily padded, multi-axis adjustable arm support boards.</li> </ul>				

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	<ul style="list-style-type: none"> <li>• One (1) Pair of padded, anatomical leg supports / lithotomy crutches equipped with integrated heavy locking clamps.</li> <li>• One (1) Pair of high-grip, ergonomic stainless steel arm grab handles / rods.</li> <li>• One (1) Deep-drawn, slide-out stainless steel waste fluid / sewage collection basin located conveniently underneath the integrated perineal cut-out area.</li> </ul> <p>6. Quality Assurance &amp; Regulatory Framework</p> <ul style="list-style-type: none"> <li>• Manufacturer Certifications: The original manufacturer must strictly hold active, audited international quality compliance standards like ISO 9001 and ISO 13485 (specifically governing medical device production processes).</li> <li>• Product Safety Compliance: The specific model quote must carry globally recognized safety certificates, such as a valid CE certification, USFDA registration, or universally accepted equivalent global regulatory medical standard.</li> <li>• Warranty &amp; Guarantee: Must be accompanied by a minimum of 1 (one) year comprehensive warranty from the date of final operational site installation, including parts and service support locally.</li> </ul>				
230	<p><b>Patient bed (ICU)</b></p> <p>Item Name: Five Function Electric ICU Bed            Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: To be mentioned by the bidder            Country of Manufacturing/Shipment: To be mentioned by the bidder            Certification: Must be FDA, CE /MDR and ISO Certified</p> <p>General Requirements            The bidder shall supply and install electrically operated five-function ICU beds suitable for Intensive Care Unit (ICU), Critical Care Unit (CCU), High Dependency Unit (HDU), Emergency, and Recovery departments. The system shall be designed for continuous hospital operation and shall provide safe patient positioning, mobility, and caregiver convenience.</p>	12			

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	<p>Technical Specifications</p> <p>Bed Construction</p> <ul style="list-style-type: none"> <li>• The bed shall be electrically operated five-function ICU type.</li> <li>• Overall bed dimensions shall be approximately: <ul style="list-style-type: none"> <li>o Length: 2160 mm</li> <li>o Width: 1055 mm</li> </ul> </li> <li>• Mattress platform dimensions shall be approximately: <ul style="list-style-type: none"> <li>o Length: 1930 mm</li> <li>o Width: 900 mm</li> </ul> </li> <li>• Height adjustment range shall be approximately 480–760 mm.</li> <li>• The bed platform shall be four-section type.</li> <li>• The bed frame shall be constructed from high-strength steel with epoxy powder coating.</li> <li>• The mattress platform shall be press-formed with smooth finishing and without welding scars.</li> <li>• All surfaces shall be corrosion resistant and easy to clean/disinfect.</li> <li>• Safe working load capacity shall be minimum 250 kg.</li> <li>• The bed should have detachable bumper wheel in four corner</li> <li>• The bed should have patient angle indicator</li> </ul> <p>Electrically Operated Functions</p> <p>The ICU bed shall provide minimum five (5) electrically controlled functions:</p> <ul style="list-style-type: none"> <li>• Backrest elevation</li> <li>• Knee/leg rest elevation</li> <li>• Hi-Low height adjustment</li> <li>• Trendelenburg positioning</li> <li>• Reverse Trendelenburg positioning</li> <li>• Electric CPR</li> </ul> <p>Position Adjustment</p> <ul style="list-style-type: none"> <li>• Backrest elevation shall be electrically adjustable.</li> <li>• Knee/leg section shall be electrically adjustable.</li> <li>• Trendelenburg and Reverse Trendelenburg functions shall be provided.</li> </ul>				

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	<ul style="list-style-type: none"> <li>• Bed movement shall be smooth, stable, and low-noise.</li> <li>• One-touch stop function or equivalent safety stop system shall be available.</li> </ul> <p>Control System</p> <ul style="list-style-type: none"> <li>• The bed shall be supplied with handheld wired controller and both side keypad control system</li> <li>• Controller shall have clearly marked function buttons.</li> <li>• The control system shall be user friendly and easy to disinfect.</li> <li>• Electrical system shall provide protection against accidental operation.</li> <li>• The control/liner motors should be LINAK or US branded</li> </ul> <p>Side Rails</p> <ul style="list-style-type: none"> <li>• The bed shall be equipped with foldable/collapsible ABS side rails.</li> <li>• Side rails shall have secure locking mechanism in raised position.</li> <li>• Side rails shall be easy to operate by healthcare staff.</li> <li>• The design shall ensure patient safety and quick caregiver access.</li> <li>• The side rails should have bed control keypad system.</li> </ul> <p>Head &amp; Foot Boards</p> <ul style="list-style-type: none"> <li>• Headboard and footboard shall be detachable ABS molded type.</li> <li>• Boards shall be impact resistant, antibacterial, and easy to clean.</li> <li>• Secure locking mechanism shall be provided.</li> <li>• Quick-release mechanism for emergency access is preferred.</li> </ul> <p>Mobility &amp; Locking System</p> <ul style="list-style-type: none"> <li>• The bed shall be equipped with four (4) heavy-duty medical-grade double layer castors.</li> <li>• Castor diameter shall be minimum 125 mm.</li> <li>• Castors shall provide smooth, noiseless, and anti-static movement.</li> <li>• The bed shall have central locking system with simultaneous locking of all four castors.</li> <li>• Locking/unlocking shall be foot pedal operated.</li> <li>• Directional steering function or equivalent shall be available for smooth patient transfer.</li> <li>• The locking system shall ensure stable bed positioning during patient care and procedures.</li> </ul>				

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	<p>Mattress Platform</p> <ul style="list-style-type: none"> <li>• Mattress retainers/stoppers shall be provided.</li> <li>• Optional ABS platform and/or X-ray translucent resin platform preferred.</li> <li>• Platform shall support proper ventilation and patient comfort.</li> <li>• The bed should have 12cm imported foam mattress</li> </ul> <p>Battery Backup</p> <ul style="list-style-type: none"> <li>• The bed shall have integrated rechargeable battery backup system.</li> <li>• The battery system shall permit continued operation during mains power failure.</li> </ul> <p>Accessories</p> <p>The following standard accessories shall be supplied:</p> <ul style="list-style-type: none"> <li>• Handheld controller</li> <li>• Foldable ABS side rails</li> <li>• IV pole with hooks</li> <li>• Urine bag hooks/holders</li> <li>• Central locking caster system</li> <li>• Battery backup system</li> <li>• Mattress retainers/stoppers</li> <li>• Foam mattress(10cm)</li> </ul> <p>Standards &amp; Certifications</p> <ul style="list-style-type: none"> <li>• CE Certificate and/or US FDA preferred.</li> <li>• ISO 13485 certification for manufacturer preferred.</li> <li>• Product shall comply with applicable IEC medical electrical safety standards.</li> </ul> <p>Warranty &amp; After Sales Service</p> <ul style="list-style-type: none"> <li>• Minimum 01 year comprehensive warranty from date of installation/acceptance.</li> <li>• Availability of spare parts and technical service support shall be ensured for minimum 5 years.</li> </ul>				

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240	<p><b>Phototherapy machine</b></p> <p>Model: To be mentioned by the bidder                      Brand: To be mentioned by the bidder                      Country of Origin: USA                      Country of Manufacturing/Shipment: USA                      Certification: Should be US-FDA certified</p> <p>The Phototherapy Machine shall be designed for the effective treatment of neonatal jaundice using high-intensity blue LED light. The unit must provide uniform, stable, and safe phototherapy with adjustable irradiance levels and precise treatment time monitoring. The system shall be suitable for use in NICU, SCANU, neonatal ward, and labor room environments.</p> <p>Technical Specifications</p> <p>Light Source</p> <ul style="list-style-type: none"> <li>• Light Source: Blue Super LED</li> <li>• Examination Light: White LED</li> <li>• Wavelength Range: 400–550 nm (Peak: 450–460 nm)</li> <li>• Heat, UV, and IR emission-free light source</li> <li>• Treatment Life-time of LEDs: Minimum 50,000 hours</li> <li>• Adjustable Irradiance Intensity Levels: I, II, III or more</li> </ul> <p>Light Intensity Performance</p> <ul style="list-style-type: none"> <li>• Minimum 57 μW/cm<sup>2</sup>/nm at 35 cm distance</li> <li>• Minimum 49 μW/cm<sup>2</sup>/nm at 40 cm distance</li> <li>• Minimum 36 μW/cm<sup>2</sup>/nm at 50 cm distance</li> </ul> <p>Display &amp; Interface</p> <ul style="list-style-type: none"> <li>• Screen Type: LCD Touch Screen</li> <li>• Real-time Clock and Date Display</li> <li>• Treatment Timer: 0–999 hours</li> <li>• 48-hour Down Counter</li> <li>• Timer Counter Type: 0–999h treatment timer and 48h down-counter</li> </ul> <p>Mechanical &amp; Structural Features</p>	40			

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	<ul style="list-style-type: none"> <li>• 360° Rotatable Head Module for flexible positioning</li> <li>• Noise Level: &lt;30 dB</li> <li>• Cooling System: Fan-less cooling system (silent operation)</li> </ul> <p>Medical Grade Trolley</p> <ul style="list-style-type: none"> <li>• Adjustable height trolley</li> <li>• Basket for storage of accessories</li> <li>• Tailored holder for power adapter</li> <li>• Ergonomic handle design for easy mobility</li> </ul> <p>Aluminium moulded mounting stand</p> <p>Electrical Features</p> <ul style="list-style-type: none"> <li>• Voltage &amp; Frequency: 220–240 VAC, 50/60 Hz (or customer specified)</li> </ul> <p>Working Conditions</p> <ul style="list-style-type: none"> <li>• Operating Temperature: 15°C to 30°C</li> <li>• Operating Humidity: 5% to ≤ 99% RH</li> </ul> <p>Storage Conditions</p> <ul style="list-style-type: none"> <li>• Storage Temperature: -10°C to +40°C</li> <li>• Storage Humidity: 0% to 90% RH</li> </ul> <p>Accessories (Standard Supply)</p> <ul style="list-style-type: none"> <li>• Aluminium Moulded Mounting Stand – 01 pc</li> <li>• Power Adapter with Cable – 01 set</li> </ul> <p>User Manual – 01 set</p> <p>Compliance &amp; Certifications</p> <ul style="list-style-type: none"> <li>• CE Certified</li> <li>• ISO 13485 Certified Manufacturer</li> <li>• ISO 9001 Certified Supplier (if applicable)</li> <li>• Electrical safety compliant</li> <li>• Suitable for hospital NICU and neonatal care environments</li> </ul> <p>Warranty</p> <p>∅ At least 01 (One) year comprehensive warranty of the machine from the date of handing over of the machine to the user in commissioning and functioning condition.</p>				

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	<p>∅ In the warranty period, the supplier will provide all maintenance and repair services</p> <p>∅ The service should be provided within 72 hours from the date of complaints logged.</p>				
250	<p><b>Radiant Warmer</b></p> <p>Model: To be mentioned by the bidder            Brand: To be mentioned by the bidder            Country of Origin: USA            Country of Manufacturing/Shipment: USA            Certification: Should be US-FDA certified</p> <p>The Infant Radiant Warmer (Neonatal Resuscitation Table) shall be designed to provide a safe, stable, and thermally controlled environment for newborns using an advanced infrared heating system. The system must ensure precise temperature regulation during resuscitation, examination, and treatment procedures in NICU, SCANU, Labor Room, and OT settings.</p> <p>Technical Specifications            Heating System            Heater Type: 500W or higher far infrared ceramic heating tube            Operating Modes:            I. Baby (Servo) Mode            II. Manual Mode            III. Pre-heating Mode            Heater Output:            Setting Range: 0–100% (in 5% increments)            Indication Range: 0–100% (in 1% increments)</p> <p>Temperature Control &amp; Monitoring            Control System: Microprocessor-based Servo Control            Temperature Sensor: Integrated twin temperature sensor (Body &amp; Surface)            Accuracy: ±0.3°C</p>	40			

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	<p>Display Range: 20.0°C to 42.0°C</p> <p>Canopy &amp; Heating Head Mobility                      Canopy Horizontal Rotation: 240°-260° (120° -180° clockwise &amp; counterclockwise)                      Vertical Rotation: ±30°- ±45°                      Heating Head Module:                      Horizontal Rotation: 240°-260°                      Vertical Rotation: ±30°- ±45°</p> <p>Display &amp; Interface                      Display Type: minimum 10" LCD Touch Screen/Knob control                      Resolution: 800 × 600 pixels or more                      Trend &amp; Data Storage:                      Trend View: Minimum 48 hours                      Event Storage: Up to 3000 events or more                      Examination Lighting                      LED Examination Light: 6W (2W × 3 LEDs)                      Adjustable Illumination Intensity: 0–1500 Lux minimum</p> <p>Timer &amp; Clinical Functions                      APGAR Timer Mode                      CPR Timer Mode                      APGAR Audible Alerts: 1, 5, and 10 minutes                      Alarm Silence: Hands-free operation</p> <p>Mechanical &amp; Structural Features                      Mattress Surface to Ground Height (Standard): 90 cm                      Inclination Angle (Back &amp; Forth): ±12° Minimum                      Guard Door: Transparent guard door with damper                      Patient Weight Capacity: 300 g to 8000 g maximum                      Retractable X-Ray Tray                      X-ray Cassette Holder Dimension: 53 × 35 cm (As per standard)</p>				

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	<p>Pass-through Drawer Electric bed lifting and tilting functions, controlled via paddle or touch interface</p> <p>Environmental Conditions Operating Conditions: 18°C – 30°C / 30% – 75% RH Storage Conditions: -40°C – 55°C / &lt; 93% RH Atmospheric Pressure: 700 – 1060 hPa</p> <p>Quality Management System Manufacturer must be certified for ISO 13485 – Medical Devices: Quality Management Systems – Requirements for Regulatory Purposes. Supplier (if not the manufacturer) must at minimum be certified for ISO 9001 – Quality Management Systems – Requirements. Valid certificates must be submitted with the technical offer.</p> <p>Classification Classified under EU MDD 93/42/EEC or EU MDR 2017/745. Device Classification: Class IIb.</p> <p>Safety &amp; Product Standards The equipment must comply with the following international standards: IEC 60601-1:2005 + A1:2012(E) – Medical electrical equipment – Part 1: General requirements for basic safety and essential performance. IEC 60601-1-2:2014 – Medical electrical equipment – Part 1-2: Electromagnetic compatibility (EMC) – Requirements and tests. IEC 60601-2-21:2009 – Medical electrical equipment – Particular requirements for the basic safety and essential performance of infant radiant warmers. Documentary evidence of compliance must be provided.</p> <p>Accessories (Standard Supply) Temperature Sensor – 02 pcs IV Pole – 01 pc Monitor Mounting Shelf – 01 pc</p>				

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	<p>Storage Drawer – 01 pc                      X-ray Cassette – 01 pc                      Earthing Cable – 01 pc                      Power Cable – 01 pc                      User Manual – 01 set</p> <p>Compliance &amp; Certifications</p> <ul style="list-style-type: none"> <li>• CE Certified</li> <li>• ISO 13485 Certified Manufacturer</li> <li>• ISO 9001 Certified Supplier (if applicable)</li> <li>• Electrical safety compliant</li> <li>• Suitable for hospital NICU, SCANU, and delivery room environments</li> </ul> <p>Warranty</p> <ul style="list-style-type: none"> <li>• At least 01 (One) year comprehensive warranty of the machine from the date of handing over of the machine to the user in commissioning and functioning condition.</li> <li>• In the warranty period, the supplier will provide all maintenance and repair services</li> <li>• The service should be provided within 72 hours from the date of complaints logged.</li> </ul>				
260	<p><b>Aneroid Sphygmomanometer with Adult and Pediatric Cuffs</b></p> <p>Model: To be mentioned by the bidder                      Brand: To be mentioned by the bidder                      Country of Origin:                      Certification: Should be ISO &amp; CE (FDA will be an advantage)</p> <p>General Requirements</p> <ul style="list-style-type: none"> <li>• Portable, non-invasive blood pressure measuring device.</li> <li>• Suitable for use in hospitals, clinics, emergency departments, pediatric units, and community healthcare settings.</li> <li>• Robust and durable construction for routine clinical use.</li> <li>• Device shall comply with international standards for blood pressure measurement accuracy.</li> </ul>	406			

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	<ul style="list-style-type: none"> <li>• Manufacturer shall be ISO 13485 certified.</li> </ul> <p>Measurement System</p> <ul style="list-style-type: none"> <li>• Type: Aneroid sphygmomanometer (manual blood pressure monitor).</li> <li>• Measurement Range: 0–300 mmHg or wider.</li> <li>• Accuracy: ±3 mmHg or better.</li> <li>• Easy-to-read high-contrast dial gauge.</li> <li>• Corrosion-resistant mechanism.</li> <li>• Calibration capability for periodic accuracy verification.</li> </ul> <p>Cuffs</p> <ul style="list-style-type: none"> <li>• Supplied with interchangeable:               <ul style="list-style-type: none"> <li>○ Adult cuff/ Pediatric cuff.</li> </ul> </li> <li>• Cuffs shall be made of durable, washable, latex-free material.</li> <li>• Secure hook-and-loop (Velcro) fastening.</li> <li>• Clearly marked artery indicator and size range.</li> <li>• High-quality inflation bladderless with leak-proof design.</li> </ul> <p>Inflation System</p> <ul style="list-style-type: none"> <li>• Latex-free inflation bulb.</li> <li>• Chrome-plated or durable air-release valve.</li> <li>• Smooth and precise pressure release control.</li> <li>• Leak-resistant tubing and connectors.</li> </ul> <p>Display/Gauge</p> <ul style="list-style-type: none"> <li>• Large dial gauge with clear graduations.</li> <li>• Minimum dial diameter: 50 mm.</li> <li>• Easy visibility under normal clinical lighting.</li> <li>• Shock-resistant gauge preferred.</li> </ul> <p>Physical Characteristics</p> <ul style="list-style-type: none"> <li>• Lightweight and portable design.</li> <li>• Protective carrying case included.</li> <li>• Suitable for frequent clinical use.</li> <li>• Durable housing resistant to routine wear and tear.</li> </ul>				

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	<p>Accessories</p> <ul style="list-style-type: none"> <li>• Adult cuff/ Pediatric cuff.</li> <li>• Inflation bulb with air-release valve.</li> <li>• Carrying/storage case.</li> <li>• User manual.</li> </ul> <p>Warranty and Support</p> <ul style="list-style-type: none"> <li>• Minimum 1 year warranty.</li> <li>• Availability of spare cuffs and accessories.</li> <li>• Local service support preferred.</li> </ul> <p>Documentation</p> <ul style="list-style-type: none"> <li>• Product brochure/catalog.</li> <li>• User manual.</li> <li>• CE/FDA certification (where applicable).</li> <li>• Manufacturer’s ISO 13485 certification.</li> </ul>				
270	<p><b>ARI Timer</b></p> <p>The unit is activated by an easily accessible button. Activated by pressing the center of the front-side of the device. By pressing the start button:</p> <ol style="list-style-type: none"> <li>1. Produce an audible beep to indicate the countdown has started.</li> <li>2. Provide red visual indicator informing the user that the device has been activated and is counting down (For example a flashing LED could indicate the unit is currently counting down.)</li> <li>3. After 30 seconds it will give one single beep, and after 60 seconds a double audible beep produced indicates 60 seconds’ period has passed and the visual indicator should cease indicating the unit has stopped counting down.</li> <li>4. Pressing the button during an ongoing countdown reset the unit which means stop the countdown and the visual indicator.</li> <li>5. One audible signal (beep) at start and two audible signals (Beep, Beep) at the end of the cycle.</li> <li>6. Visual indication (red LED flashing) during operation and progress during the cycle. (Each second flashing, till the timer is stopped or when it completes the one-minute count)</li> <li>7. The unit does not make any sounds during the countdown (to avoid causing confusion for the person counting the breaths). Accuracy should be ± 0.1 second.</li> </ol>	86			

**BID RESPONSE FORM**  
**UNICEF Invitation to Bid (LITB) No.: LITB-2026-9204579; Date: 22-06-2026**  
**Supply and installation of Medical Equipment for present requirement and under LTA**

SI. No.	Item details	Quantity (present need)	Unit price Excl. VAT (BDT) for present need	Unit price Excl. VAT (BDT) for LTA	Delivery lead-time (DAP) – present need
	8.The unit battery powered, and full batteries allow the unit to support 10 ,000 cycles of 60 seconds as a minimum. 9. The indicator LED integrated in the casing and not protruding. 10. A provision included to ensure that the battery is not connected to the internal circuit at the time of delivery. This to avoid unwanted activation, leakage or accidental short-circuit of the unit. Additional accessories: 2 sets of batteries Made in/Country or origin: To be mentioned Warranty: 1 (one) year				

**SPECIAL NOTES:**

1) Bids will be evaluated on the basis of reviewing the technical specification as per UNICEF standard quality and durability. Based on the acceptability of the product specification offered, **shortlisted bidders may be requested to submit a set of samples for small items/consumables, at a later stage.** Upon acceptability of the product, successful bidders will be selected as per the lowest price and minimum delivery lead time.

**2) Following mandatory documents need to be submitted with the bids:**

- a. Bidder should present **proof of its experience** in supplying similar products for at least five years:
  - i. Please provide list of **at least 05 client names and contact details** (preferably UN, INGO, Diplomatic missions or other international organizations).
  - ii. Please submit **copies of at least 05 successfully completed orders (03 recent orders and 02 earlier than five years)** in the form of purchase/work order or work/job completion certificate.
- b. **Technical Specification Alignment:** Technical specifications must be prepared as a separate document and written in a clear, detailed, and product-specific manner. Every stated specification must fully align with and be cross-referenced to the attached product brochure or the manufacturer’s catalog. Compliance with the minimum technical requirement is mandatory.
- c. **Authorized distributor/dealer of renowned brands will be given preference.** Bidders must submit a formal Manufacturer’s Authorization Letter (MAL) specially for high-value equipment. The authorization must be issued exclusively for UNICEF and must clearly mention the bid number. All submitted documents will be subject to strict verification by UNICEF. However, exception can be considered for low-value or consumable items.
- d. **Technical Manpower Details:** Bidders must provide complete details of the technical personnel assigned to this project, including comprehensive Curriculum Vitae (CVs) and documentary evidence of their relevant professional qualifications and experience.

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- e. Bidder needs to submit **updated legal documents** (Trade License, VAT/BIN Certificate and ETIN certificate) and NID of Owner/MD/CEO. This is especially required for bidders who are not registered with UNICEF.
- 3) Depending on the award value the awarded supplier(s) may need to submit **5% performance guarantee** of the total contract amount (excl. VAT) in the form of Bank Guarantee, which will be returned after successful completion of delivery and installation (as applicable). However, if the awarded supplier fails to meet the obligations under the purchase order as per requirement, then UNICEF will reserve the right to forfeit or deduct from the bank guarantee.
- 4) **Present Requirement:** The required quantity mentioned in the table for present need may increase or decrease subject to requirement of UNICEF.
- Future requirement under LTA:** Bidders are requested to offer price for future **requirement under LTA** in the respective column of the table. The Long Term Arrangement (LTA) will be initially effective for a **period of 2 years** from the date of award. The LTA can be extended further 1 + 1 year upon mutually agreed terms and conditions. However, UNICEF is not obligated to order any minimum quantity of Goods from the supplier pursuant to the LTA.
- 5) Delivery lead time means total time required to make the goods readily available at the consignee (DAP) from the date of issue of purchase order. DAP – Delivery At Place means delivery of goods, including supply and installation (if applicable), to the consignee(s) **at district level within Bangladesh**.
- 6) This ITB is only **for local companies/suppliers registered in Bangladesh**. Interested international companies/manufacturers are requested to submit bid through authorized local agent registered and having its office in Bangladesh and with DAP incoterms. The bidder must provide **on-site support for installation, testing and commissioning as applicable**.
- 7) The bidders are requested to provide genuine, brand-new product which is acceptable subject to pre-delivery and/ or post-delivery inspection.
- 8) Supplier must mention "**realistic delivery time**" i.e. number of days require for delivery including time for formal pre-delivery inspection.
- 9) Unit price of items should include cost of packaging, cost of transportation during transit, installation, commissioning, testing (as applicable) and risk involved up to the consignee(s) for Delivery At Place (DAP).
- 10) Price of item must be given without VAT. Applicable percentage of VAT to be mentioned in the below table point-d.**
- 11) Please refer to Contractual Provisions for related terms and conditions. Please also refer to Part V (Clause 5) of the 'Specific Terms and Conditions' for Invoice Instructions and VAT payment.

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12) Maintaining UNICEF Visibility and Branding is mandatory (Logo design/copy will be provided by UNICEF).

**KINDLY FILL UP THE FOLLOWING FORM:**

UNICEF Requirements	Bidders' Response
a. <b>Validity of Offer (Preferably 24 months):</b>	
b. <b>Delivery Terms: (Ready stock preferred for present need)</b> Delivery At Place (DAP) to the Consignee (Please mention total number of calendar days required for delivery)	For present requirement, please mention in the above table with price information against each item serial.  <b>For LTA please mention estimated lead-time:.....</b>
c. <b>Payment Terms (Note Part IV of the UNICEF Specific Terms &amp; Conditions):</b>	
d. <b>Value Added Tax (VAT) in Percentage (%):</b>  <i><u>NB: Suppliers MUST provide prove from the Government Authority. Government circular or policies for the stated VAT percentage otherwise bids will be invalidated.</u></i>	

*Tarin Riwaad*

Procurement Officer  
22-06-2026

*Michael Dagne*

OIC, Chief Supply and Logistics  
22-06-2026