

**TENDER FORM FOR THE PURCHASE OF ELECTRICAL DEPARTMENT ITEMS CHILDREN
HOSPITAL FAISALABAD FOR THE FINANCIAL YEAR 2022-23.**

| SR.NO. | NAME OF EQUIPMENT | SPECIFICATIONS | QTY |
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| MEDICAL & LAB EQUIPMENT | | | |
| 1. | Resuscitation Trolley | <ul style="list-style-type: none"> • Resuscitation trolley for emergency. • Stainless steel / ABS top. • Three or more drawers. • Lower cupboard with central locking / securing all drawers and cupboard. • Operated by cupboard door and use of security seals. • Double hook stainless steel I.V. Pole. • Push handle. • Quality cushion castors (2 x braking). • Cardiac board 600mm x 400mm with housing brackets at rear of trolley. • Universal rail system fitted to width of trolley. <p>ACCESSORIES:</p> <ul style="list-style-type: none"> • Aneroid sphygmomanometer with Paeds, Neonatal & infant Velcro cuff and rail clamp. • Electronic timer and rail clamp. • Venturi suction unit with O2 outlet and 2.0-liter jar. • Suction tube and connecting tubing. • O2 flow meter fitted to O2 venturi outlet 0-15 lpm. • Pin index regulator with outlet for connection to remote venturi hose and O2 outlet • Oxygen cylinder Qty 01 fitted with trolley • Intubation set comprising: • Macintosh & Miller laryngoscope with 4/5 blade set. • Magill introducing forceps. (For Infant, Neonatal & pediatric) • Paeds/Neonatal resuscitator. • Disposable E.T. tubes Set. • Guedel airways. • Pen torch. • Artery forceps. | 04 Nos |



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| | | <ul style="list-style-type: none"> • Dressing scissors. • Set of plastic tubes. • Examination light to rail clamp • Stainless steel cylinder holders / strap. • Automatic External Defibrillator shelf <p>Note: (Sample to be provided by the firm on 11.06.2023 at General store of Children Hospital Faisalabad and to be approved by the Technical Evaluation Committee. Sample after 11.06.2023 will not be accepted)</p> <p>Country of Manufacturer: Imported Mode: DDP Warranty: 03-Years Comprehensive Warranty with parts</p> | |
| 2. | Cardiac Monitor/Patient Monitor | <p>Bedside Monitor to display vital signs and other parameter for Adult, Paeds and Neonates.</p> <p>Operating Features and Characteristics:</p> <ul style="list-style-type: none"> • Non fade Touch screen TFT color display. • Electro-surgical interference suppression or protection. • Defibrillator protection. • Minimum six waveforms for real time and freeze monitoring. • Waveform traces speed; 25 & 50mm/sec. • Screen size: min. 12" TFT or LCD Touch Screen color display. • Capability to connect with HL7 interface. • Capability to connect with LAN or WLAN for data transfer on central station. | 10 Nos |



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| | | <p>Parameters:</p> <p>ECG Numeric: Heart rate. 3 or 5 and more ECG leads monitoring.</p> <p>Non-Invasive Blood Pressure (NIBP):</p> <ul style="list-style-type: none"> • Method: Oscillometric principle. • Numeric: systolic, diastolic and mean pressure. • Selectable auto inflates interval settings. Rising cuff continuous pressure display. <p>Temperature:</p> <ul style="list-style-type: none"> • Numeric: Temperature selectable in °C and °F <p>Pulse Oximetry:</p> <ul style="list-style-type: none"> • Numeric: 0 – 100% oxygen saturation measuring range • Waveform-Plethysmograph Pulse <p>Arrhythmia Analysis:</p> <ul style="list-style-type: none"> • Arrhythmia Analysis and ST Analysis <p>Respiration:</p> <ul style="list-style-type: none"> • Breath Rate display and apnea alarms • Sweep Speed: 6.25, 12.5 mm / sec. <p>Other Features:</p> | |



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| | | <ul style="list-style-type: none"> • Trend Data: Graphical and Tabular upto 72 Hrs. <p>Alarms:</p> <ul style="list-style-type: none"> • High & Low (settable) on all parameters • Visual and audible indication of alarms <p>Other Parameter:</p> <ul style="list-style-type: none"> • Operating Requirement: AC 220 V & 50 Hz Built-in rechargeable battery for at least 60 minutes AC power failure at full parameter. Single or Dual Channel Printer. <p>Accessories: The system must be complete with all sensors, probes, cables or any other accessories required for measuring all the above selected parameters for Adults, Paeds and neonates.</p> <ul style="list-style-type: none"> • ECG lead - (Qty-01) • SPO2 Sensor for adult, Paeds and Neonates (Qty-01 each). • Temperature Probe Skin and Rectal (Qty-01 each). • NIBP Cuff for adult, Paeds and neonates. (Qty-02 each). Mounting Stand Imported supplied from same manufacturer. <p>Optional Items (Mandatory to quote):</p> <ul style="list-style-type: none"> • IBP two channel • Capnography (EtCO2) Mainstream/Side stream • Cardiac output. Skin Temperature and Rectal Temperature Probes (01 each) <p>Country of Manufacturer: USA/EU/Japan Quality Certificate: FDA510K/CE MDD/ Jp MHLW Mode: DDP Warranty: 03-Years Comprehensive Warranty with parts</p> | |



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| 3. | Overhead Warmer | <ul style="list-style-type: none"> • Baby warming system. • Microprocessor/Servo controlled heating system. • Mobile with antistatic castors, bumper guard/Safety Rail. • Manual heat output control: 0% to 100% (continuous/set level control) • Skin and Manual temp control settings. • Display range of temperature: LED / LCD • Heating power/ source: 500 W Quartz/Ceramic • Selection for operating modes: Skin or Manual • Pivot arm technology for heating. Head can be moved in both directions allowing X-Ray procedure without moving the baby. • Integrated observation lamp (Minimum 400 lumens) • Integrated baby bed 700 x 475 (±5%) mm with secured plexiglass side panels, foldable down, with mattress & grid for X-ray. • Manual bed inclination. (Minimum 10 degree) • Audio and visual alarms for Power failure, Skin Temperature deviations, High Temperature, Skin probe defective/ unplugged. <p>ACCESSORIES:</p> <ul style="list-style-type: none"> • IV pole • Skin probe (reusable) <p>Optional Items (Mandatory to quote):</p> <ul style="list-style-type: none"> • Height adjustment <p>Country of Manufacturer: USA/EU/Japan Quality Certificate: FDA510K/CE MDD/ Jp MHLW Mode: DDP Warranty: 03-Years Comprehensive Warranty with parts</p> | 20 Nos |



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| 4. | Intensive Care Servo Controlled Incubator | <ul style="list-style-type: none"> • Double wall canopy system • Servo Control System. • Intensive Care Incubator comprises Microprocessor controlled unit with at least 5-inch LCD display set/measure temperature & baby skin temperature. • Temperature regulation up to (28.0-38) °C, ±1°C with uniform heat distribution over the bed surface. • Sensor attached to child's skin should continuously measure child skin temperature. • Bed surface 700 mm x 400 mm (approx.) with form mattress • Drawer / Cabinet • The radiolucent plastic panel of the incubator to accommodate X-ray cassettes from outside • Highly thermostable acrylic glass or similar material hood fitted with a large hinged flap Four spring operated elbow / hand ports. • Replaceable bacterial filters • Built in control for Humidification to regulate incubator air up to 60%. • Trending of parameters (Temperature etc.) for at least 24 hours • Head & Feet tilt provision. • Neonatal Oxygen flowmeter 0-6 liter/min. • Alarm signals safety • The visual and audible battery powered alarm for power failure . • Visual & audible alarm for temperature excess (39 °C) • Audible & Visual alarm warns in case of fan/motor failure and sensor/probe failure. • Test buttons to check the individual alarms signals at any time or automatic system. • Less than or equal to 50dBA Noise level <p>ACCESSORIES:</p> <ul style="list-style-type: none"> • Unit complete with • Air temperature sensor • Skin temperature Sensor • I.V. Pole | 10 Nos |



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| | | <ul style="list-style-type: none"> • Guard Rail • Separate / Built in pulse oximeter (In case of separate pulse oximeter, only hospital grade pulse oximeter required. Offers with hand held or finger mounted pulse oximeter will be rejected.) • Digital weighing scale for weighing baby inside the incubator <p>Optional Items (Mandatory to quote):</p> <ul style="list-style-type: none"> • Air mattress • High humidification pads Humidity Meter <p>Country of Manufacturer: USA/EU/Japan Quality Certificate: FDA510K/CE MDD/ Jp MHLW Mode: DDP Warranty: 03-Years Comprehensive Warranty with parts</p> | |
| 5. | Infusion Pump | <ul style="list-style-type: none"> • Operates on any brand of infusion set. • Automatic control of infusion rate independent of venous or arterial pressure • Bolus function • Air bubble detector. • Automatic pressure release after occlusion. • Automatic switchover to keep-vein-open (KVO) rate of 1.0 ml/hr. • Compatible with commonly available Infusion sets. • Light indicates main or battery operation • Detects a “no flow” situation i.e. empty container <p>DISPLAY:</p> <ul style="list-style-type: none"> • LED/LCD digital display which indicates flow rate • Infused volume • Volume to be infused • Volume balance | 20 Nos |



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| | | <ul style="list-style-type: none"> • Infusion time • Remaining time • Battery capacity • Occlusion level <p>INFUSION RATE:</p> <ul style="list-style-type: none"> • 0.1-999.9 ml/hr in 1 ml increments <p>INFUSION TIME:</p> <ul style="list-style-type: none"> • 99 to 95 hours <p>AUTOMATIC RATE CALCULATION:</p> <ul style="list-style-type: none"> • On total volume + time <p>VOLUME LIMIT SELECTION:</p> <ul style="list-style-type: none"> • From 1 -999 ml • Accuracy of above parameters +/- 5% <p>KVO RATE:</p> <ul style="list-style-type: none"> • 1– 3.0 ml/hr <p>AUDIBLE AND VISUAL ALARMS:</p> <ul style="list-style-type: none"> • Activated by: Empty Container • Occlusion • Low Battery • Open Door | |



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| | | <ul style="list-style-type: none"> • Air-in-Line • Internal Malfunction • End of infusion. <p>BATTERY:</p> <ul style="list-style-type: none"> • Rechargeable maintenance free dry batteries with 3 hours or more operation when fully charged. <p>SAFETY FEATURES:</p> <ul style="list-style-type: none"> • Door locks while functioning <p>ACCESSORIES</p> <ul style="list-style-type: none"> • 100 Original disposable infusion set will be provided with each unit. <p>Optional Items (Mandatory to quote):</p> <ul style="list-style-type: none"> • Compatible docking station of two to be provided. <p>Country of Manufacturer: USA/EU/Japan Quality Certificate: FDA510K/CE MDD/ Jp MHLW Mode: DDP Warranty: 03-Years Comprehensive Warranty with parts</p> | |
| 6. | Syringe Pump | <ul style="list-style-type: none"> • Syringe pump for fluid administration. • Flow Rates: 0.1 -900 ml/hr. (Approx.) • Bolus rate: 0.1 to 1200 / hr. • LCD display of set parameters • Universal Syringe acceptance capability for disposable, Plastic, Size, 5, 10, 20, 50, 60 ml • Drive Accuracy. $\pm 3\%$ | |



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| | | <ul style="list-style-type: none"> • Display of drug name, Infusion rate, infused volume and volume to be infused • Set Automatic adaptation of controls according to syringe /infusion set • Quick freed/rapid infusion facility/bolus • KVO Functions (Keep vein open) • Data event log • Safety alarm & indicator: Occlusion pressure alarm, end of infusion, loose syringe alarm, low battery, and technical malfunction alarm, • Rechargeable battery and mains operated 220V, 50Hz • Battery backup 3 hours or more. <p>ACCESSORIES</p> <ul style="list-style-type: none"> • System should be supplied with complete accessories. <p>Optional Items (Mandatory to quote):</p> <ul style="list-style-type: none"> • Compatible docking station of two to be provided. <p>Country of Manufacturer: USA/EU/Japan Quality Certificate: FDA510K/CE MDD/ Jp MHLW Mode: DDP Warranty: 03-Years Comprehensive Warranty with parts</p> | 15 Nos |

**MEDICAL SUPERINDENTENT
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| ELECTRICAL STORE DEPARTMENT ITEMS | | | |
|------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1. | Fall/False Ceiling Lights | <p>60 watts 2'x2' Feet Panel White Color The LED Light Driver circuit should be fixed with the light. Lux Requirements: 300 Lux at One Meter Distance from Light. Note: (Sample to be provided by the firm on 11.06.2023 at General store of Children Hospital Faisalabad and to be approved by the Technical Evaluation Committee. Sample after 11.06.2023 will not be accepted and offer will be rejected)</p> <p>Mode: DDP Warranty: 01-Year Comprehensive Warranty with parts</p> | 900 Nos |



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