



OFFICE OF THE  
MEDICAL SUPERINTENDENT  
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**SUBJECT:- CLARIFICATIONS- PURCHASE OF MEDICAL & LAB EQUIPMENT & ELECTRICAL STORE DEPARTMENT ITEMS CHILDREN HOSPITAL FAISALABAD FOR THE FINANCIAL YEAR 2022-23. PUBLISHED VIDE IPL-3939**

Children Hospital Faisalabad intends to procure Medical & Lab Equipment & Electrical Store Items. Invitation to bids (ITB) was published in daily "Dunya" vide IPL # 3939. Bidding Documents was uploaded on the official websites of the Punjab Procurement Regulatory Authority (PPRA) and Specialized Healthcare & Medical Education Department. As per instructions in the advertisement, different Queries / Suggestions were received from the firms. Department discussed these and clarified/amended as under:-

SR. No.	Name of Item	Name of Firm	Advertised Specifications	Query/Suggestion of the Firm	Decision of the Pre-Bid Committee
1.	Cardiac Monitor / Patient Monitor	M/s Ferozsons Laboratories Limited	Bedside Monitor to display vital signs and other parameter for Adult, Paeds and Neonates.  <b>Operating Features and Characteristics:</b> <ul style="list-style-type: none"><li>• Non fade Touch screen TFT color display.</li><li>• Electro-surgical interference suppression or protection.</li><li>• Defibrillator protection.</li><li>• Minimum six waveforms for real time and freeze monitoring.</li><li>• Waveform traces speed; 25 &amp; 50mm/sec.</li><li>• Screen size: min. 12" TFT or LCD Touch Screen color display.</li><li>• Capability to connect with HL7 interface.</li><li>• Capability to connect with LAN or WLAN for data transfer on central station.</li></ul>	<ul style="list-style-type: none"><li>• Please add minimum 10 wave forms for real time display on Monitor Screen.</li><li>• Please add 12 lead ECG analysis for the patients.</li><li>• Please add the cardiac monitor should be able to measure sudden rise and fall of blood pressure.</li><li>• Please add the cardiac monitor should be able to measure minimum 20 arrhythmia analysis and ST analysis.</li><li>• Please demand printer in optional items.</li></ul>	The advertised specifications are as per approved Product Vocabulary of Medical Stores (PVMS) of Specialized Healthcare & Medical Education Department. The approved PVMS specifications are also as per need of the End users of this Institute. After discussion and Deliberation, the committee decided not to change the advertised specifications of Cardiac Monitor/ Patient.

**Parameters:**

**ECG**

- Numeric: Heart rate.
- 3 or 5 and more ECG leads monitoring

**Non-Invasive Blood Pressure (NIBP):**

- Method: Oscillometric Principle.
- Numeric: Systolic, Diastolic and mean pressure.
- Selectable auto inflates interval settings.
- Rising cuff continuous pressure display.

**Temperature:**

- Numeric: Temperature selectable in °C and °F

**Pulse Oximetry:**

- Numeric: 0 - 100% oxygen saturation measuring range
- Waveform-Plethysmograph Pulse

**Arrhythmia Analysis:**

- Arrhythmia Analysis and ST Analysis

**Respiration:**

- Breath Rate display and apnea alarms
- Sweep Speed: 6.25, 12.5 mm / sec.

**Other Features:**

- Trend Data: Graphical and Tabular up to 72 Hrs.

**Alarms:**

- High & Low (settable) on all parameters
- Visual and audible indication of alarms

- Please demand 3-Channel Printer
- Please add 12 lead ECG analysis in optional items
- Please add dual certificate for cardiac monitor.

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			<p><b>Other Parameter:</b></p> <ul style="list-style-type: none"> <li>Operating Requirement: AC 220 V &amp; 50 Hz</li> <li>Built-in rechargeable battery for at least 60 minutes AC power failure at full parameter.</li> <li>Single or Dual Channel Printer.</li> </ul> <p><b>Accessories:</b></p> <p>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"> <li>ECG lead - (Qty-01)</li> <li>SPO2 Sensor for adult, Paeds and Neonates (Qty-01 each).</li> <li>Temperature Probe Skin and Rectal (Qty-01 each).</li> <li>NIBP Cuff for adult, Paeds and neonates. (Qty-02 each).</li> <li>Mounting Stand Imported supplied from same manufacturer.</li> </ul> <p><b>Optional (Mandatory to quote):</b></p> <ul style="list-style-type: none"> <li>IBP two channel</li> <li>Capnography (EtCO2) Mainstream / Side stream</li> <li>Cardiac output.</li> <li>Skin Temperature and Rectal Temperature Probes (01 each)</li> </ul> <p><b>Country of Manufacturer:</b> USA/EU/Japan  <b>Quality Certificate:</b> FDA510K/CE MDD/ Jp MHLW  <b>Mode:</b> DDP  <b>Warranty:</b> 03-Years Comprehensive Warranty with parts</p>		
2.	Cardiac Monitor / Patient Monitor	M/s Shirazi Trading	<p>Bedside Monitor to display vital signs and other parameter for Adult, Paeds and Neonates.</p> <p><b>Operating Features and Characteristics:</b></p>	<ul style="list-style-type: none"> <li>Add Monitor should be modular</li> <li>12 waveforms display for real time and freeze monitoring</li> </ul>	The advertised specifications are as per approved Product Vocabulary of Medical Stores (PVMS) of Specialized

			<ul style="list-style-type: none"> <li>• Non fade Touch screen TFT color display.</li> <li>• Electro-surgical interference suppression or protection</li> <li>• Defibrillator protection.</li> <li>• Minimum six waveforms for real time and freeze monitoring.</li> <li>• Waveform traces speed; 25 &amp; 50mm/sec.</li> <li>• Screen size: min. 12" TFT or LCD Touch Screen color display.</li> <li>• Capability to connect with HL7 interface.</li> <li>• Capability to connect with LAN or WLAN for data transfer on central station.</li> </ul> <p><b>Parameters:</b></p> <p><b>ECG</b></p> <ul style="list-style-type: none"> <li>• Numeric: Heart rate.</li> <li>• 3 or 5 and more ECG leads monitoring.</li> </ul> <p><b>Non-Invasive Blood Pressure (NIBP):</b></p> <ul style="list-style-type: none"> <li>• Method: Oscillometric Principle.</li> <li>• Numeric: Systolic, Diastolic and mean pressure.</li> <li>• Selectable auto inflates interval settings.</li> <li>• Rising cuff continuous pressure display.</li> </ul> <p><b>Temperature:</b></p> <ul style="list-style-type: none"> <li>• Numeric: Temperature selectable in °C and °F</li> </ul> <p><b>Pulse Oximetry:</b></p> <ul style="list-style-type: none"> <li>• Numeric: 0 – 100% oxygen saturation measuring range</li> <li>• Waveform-Plethysmograph Pulse</li> </ul> <p><b>Arrhythmia Analysis:</b></p> <ul style="list-style-type: none"> <li>• Arrhythmia Analysis and ST Analysis</li> </ul> <p><b>Respiration:</b></p> <ul style="list-style-type: none"> <li>• Breath Rate display and apnea alarms</li> </ul>	<ul style="list-style-type: none"> <li>• Add 12 lead ECG capability</li> <li>• Trend Data: Graphical and Tabular up to 144 Hrs</li> <li>• Please amend Built-in rechargeable battery for at least 04 hours AC power failure at full parameters</li> <li>• Optional Items (Mandatory to quote with future upgradability option)</li> <li>• FDA510K should be mandatory along with another quality certificate (CE MDD/Jp MHLW)</li> </ul>	<p>Healthcare &amp; Medical Education Department. The approved pVMS specifications are also as per need of the End users of this Institute. After discussion and Deliberation, the committee decided not to change the advertised specifications of Cardiac Monitor/ Patient.</p>
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- Sweep Speed: 6.25, 12.5 mm / sec.

**Other Features:**

- Trend Data: Graphical and Tabular up to 72 Hrs.

**Alarms:**

- High & Low (settable) on all parameters
- Visual and audible indication of alarms

**Other Parameter:**

- 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.

**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.

- 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.

**Optional (Mandatory to quote):**

- IBP two channel
- Capnography (EtCO2) Mainstream / Side stream
- Cardiac output.
- Skin Temperature and Rectal Temperature Probes (01 each)

**Country of Manufacturer:** USA/EU/Japan

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			<p>Quality Certificate: FDA510K/CE MDD/ Jp MHLW Mode DDP Warranty: 03-Years Comprehensive Warranty with parts</p>		
3.	Overhead Warmer	M/s Shirazi Trading	<ul style="list-style-type: none"> <li>• Baby warming system.</li> <li>• Microprocessor/Servo controlled heating system.</li> <li>• Mobile with antistatic castors, bumper guard/Safety Rail.</li> <li>• Manual heat output control: 0% to 100% (continuous/set level control)</li> <li>• Skin and Manual temp control settings.</li> <li>• Display range of temperature: LED / LCD</li> <li>• Heating power/ source: 500 W Quartz/Ceramic</li> <li>• Selection for operating modes: Skin or Manual</li> <li>• Pivot arm technology for heating.</li> <li>• Head should be moved in both directions allowing X-Ray procedure without moving the baby.</li> <li>• Integrated observation lamp (Minimum 400 lumens)</li> <li>• Integrated baby bed 700 x 475 (±5%) mm with secured plexiglass side panels, foldable down, with mattress &amp; grid for X-ray.</li> <li>• Manual bed inclination. (Minimum 10 degree)</li> <li>• Audio and visual alarms for Power failure, Skin Temperature deviations, High Temperature, Skin probe defective/unplugged.</li> </ul> <p>ACCESSORIES:</p> <ul style="list-style-type: none"> <li>• IV pole</li> <li>• Skin probe (reusable)</li> </ul> <p>OPTIONAL (Mandatory to quote):</p> <ul style="list-style-type: none"> <li>• Height adjustment</li> </ul> <p>Country of Manufacturer: USA/EU/Japan Quality Certificate: FDA510K/CE MDD/ Jp MHLW Mode: DDP</p>	<ul style="list-style-type: none"> <li>• Display range of temperature: Full color LCD</li> <li>• Heart Rate of baby through ECG leads as Optional Mandatory to quote.</li> <li>• FDA510K should be mandatory along with another quality certificate (CE MDD/Jp MHLW)</li> </ul>	<p>The advertised specifications are as per approved Product Vocabulary of Medical Stores (PVMS) of Specialized Healthcare &amp; Medical Education Department. The approved PVMS specifications are also as per need of the End users of this Institute. After discussion and Deliberation, the committee decided not to change the advertised specifications of Overhead Warmer.</p>

4.	Servo Controlled Intensive Care Infant Incubator	M/s Shirazi Trading	<p>Warranty: 03-Years Comprehensive Warranty with parts</p> <ul style="list-style-type: none"> <li>• Double wall canopy system</li> <li>• Servo Control System.</li> <li>• Intensive Care Incubator comprises Microprocessor controlled unit with at least 5-inch LCD display set/measure temperature &amp; baby skin temperature.</li> <li>• Temperature regulation up to (28.0-38) °C, ±1°C with uniform heat distribution over the bed surface.</li> <li>• Sensor attached to child's skin should continuously measure child skin temperature.</li> <li>• Bed surface 700 mm x 400 mm (approx.) with form mattress</li> <li>• Drawer / Cabinet</li> <li>• The radiolucent plastic panel of the incubator to accommodate X-ray cassettes from outside</li> <li>• Highly thermostable acrylic glass or similar material hood fitted with a large hinged flap Four spring operated elbow / hand ports.</li> <li>• Replaceable bacterial filters</li> <li>• Built in control for Humidification to regulate incubator air up to 60%.</li> <li>• Trending of parameters (Temperature etc..) for at least 24 hours</li> <li>• Head &amp; Feet tilt provision.</li> <li>• Neonatal Oxygen flowmeter 0-6 liter/min.</li> <li>• Alarm signals safety</li> <li>• The visual and audible battery powered alarm for power failure.</li> <li>• Visual &amp; audible alarm for temperature excess (39 °C)</li> <li>• Audible &amp; Visual alarm warns in case of fan/motor failure and sensor/probe failure.</li> <li>• Test buttons to check the individual alarms signals at any time or automatic system.</li> <li>• Less than or equal to 50dBA Noise level</li> </ul> <p>ACCESSORIES:</p> <p>Unit complete with</p> <ul style="list-style-type: none"> <li>• Air temperature sensor</li> </ul>	<ul style="list-style-type: none"> <li>• Intensive Care Incubator comprises Microprocessor controlled unit with at least 7 inch or more touch screen display.</li> <li>• Bed Surface 640 mm x 400 mm (approx.)</li> <li>• Please remove this Line: Neonatal Oxygen flowmeter 0-6 liter/min</li> </ul> <p>Please remove the following Optional Features as these are Lock-out and favoring only one brand.</p> <ul style="list-style-type: none"> <li>• Air Mattress</li> <li>• High Humidification pads Humidity meters.</li> </ul> <p>FDA510K should be mandatory along with another quality certificate (CE MDD/Jp MHLW)</p>	<p>The advertised specifications are as per approved Product Vocabulary of Medical Stores (PVMS) of Specialized Healthcare &amp; Medical Education Department. The approved PVMS specifications are also as per need of the End users of this Institute.</p> <p>However, the optional items are clinically not so important and are manufacturer-specific features that will stifle competition and create a monopoly for a certain brand. So, in order to widen the competition, the optional items are made non-mandatory to quote.</p>
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			<ul style="list-style-type: none"> <li>• Skin temperature Sensor</li> <li>• I.V. Pole</li> <li>• Guard Rail</li> <li>• 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.)</li> <li>• Digital weighing scale for weighing baby inside the incubator</li> </ul> <p><b>OPTIONAL: (Mandatory to quote)</b></p> <ul style="list-style-type: none"> <li>• Air mattress</li> <li>• High humidification pads Humidity Meter</li> </ul> <p><b>Country of Manufacturer:</b> USA/EU/Japan  <b>Quality Certificate:</b> FDA510K/CE MDD/ Jp MHLW  <b>Mode:</b> DDP  <b>Warranty:</b> 03-Years Comprehensive Warranty with parts</p>		
6.	Syringe Pump	M/s Medical Equipment & Systems	<p><b>OPTIONAL ITEMS (Mandatory to quote)</b></p> <ul style="list-style-type: none"> <li>• Compatible docking station of two to be provided.</li> </ul>	Docking Station may please be made an optional feature instead of a mandatory requirement to bid.	The advertised specifications are as per approved Product Vocabulary of Medical Stores (PVMS) of Specialized Healthcare & Medical Education Department. The approved PVMS specifications are also as per need of the End users of this Institute. However, the optional items are clinically not so important and are manufacturer-specific features that will stifle competition and create a monopoly for a certain brand. So, in order to widen the competition, the optional Items are made non-mandatory to quote.
5.	Infusion Pump		<p><b>OPTIONAL ITEMS (Mandatory to quote)</b></p> <ul style="list-style-type: none"> <li>• Compatible docking station of two to be provided.</li> </ul>	Docking Station may please be made an optional feature instead of a mandatory requirement to bid.	The advertised specifications are as per approved Product Vocabulary of Medical Stores (PVMS) of Specialized Healthcare & Medical Education Department. The approved PVMS specifications are also as per need of the End users of this Institute. However, the optional items are clinically not so important and are manufacturer-specific features that will stifle competition and create a monopoly for a certain brand. So, in order to widen the competition, the

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					optional items are made mandatory to quote.
6.	Patient Monitor, Overhead Warmer, Servo controlled Intensive Care Incubator, Resuscitation Trolley	M/s Medequips (Pvt.) Ltd.		Please note that the budget for Patient Monitors, Overhead Warmers, Incubators and Resuscitation Trolley is not sufficient. You are therefore, required to revise the estimated cost of these items. So that we will be able to submit our bid against this tender.	The committee decided that the estimated prices are sufficient and cannot be increased as the estimated prices are actual as per budget.
7.	Resuscitation Trolley, Patient Monitor, Overhead Warmer, Servo controlled Intensive Care Incubator, Syringe Pumps, Infusion Pumps	M/s Vertex Medical (Pvt.) Ltd.		<p>1. The recent developments, including the Russia-Ukraine war, have caused a substantial appreciation in the prices of Biomedical Equipment across the European region. As a result, we find ourselves in a challenging economic situation, making it impractical to source medical equipment from Europe at the estimated prices of the tender.</p> <p>2. Our primary goal is to provide exceptional healthcare solutions to the people of Pakistan. To achieve this, it is vital for us to acquire cutting-edge Biomedical Equipment that meets international standards. However, the estimated prices are not commensurate with the present economic realities, rendering it impossible for us to procure the required equipment from our renowned manufacturers in the USA, EU, or Japan.</p> <p>3. In light of these circumstances, we kindly request your esteemed procuring agency to consider a 35 % increase in the estimated prices for the following tender items:</p> <p><b>Resuscitation Trolley, Patient Monitor, Overhead Warmer, Servo controlled Intensive Care Incubator, Syringe Pumps, Infusion Pumps</b></p>	The committee decided that the estimated prices are sufficient and cannot be increased because the estimated prices are actual as per budget.
8.	Patient Monitor, Overhead Warmer, Servo controlled Intensive Care Incubator, Syringe	M/s Gesundheit Solutions (Pvt.) Ltd.		<p>Due to Russia-Ukraine war, the inflation of prices of Biomedical Equipment in Europe has made it impractical for us to quote the required Biomedical Equipment in the estimated prices of the tender. We request you to consider other geographical regions of the World like Korea and North America etc. There are several reputed manufacturers of Biomedical Equipment selling their products in all parts of the World including USA, Europe and Japan. The quality</p>	The committee, after detailed discussion with the representative of the Company was of the view that most of the firms were demanding a substantial increase in the estimated prices of Biomedical Equipment. The prices of the Biomedical Equipment from Europe have actually become high

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	Pumps, Infusion Pumps			of the Biomedical Equipment from these regions is equally good as those offered from USA, Europe and Japan. So, we request you to include these geographical regions in the advertised specifications.	<p>due to inflation resulting from Russia-Ukraine War.</p> <p>Moreover, as per ITB clause 4.1 of the Standard Bidding Documents of Specialized Healthcare &amp; Medical Education Department</p> <p>"The Country of Manufacturer should be of USA, Europe and Japan Unless, otherwise any other country of manufacturer is mentioned in the specifications"</p> <p>After deliberation and discussions, the committee decided to add two more Geographical regions i.e Korea and North America as country of manufacturer in addition to USA, Europe and Japan in the specifications of</p> <p><b>Patient Monitor, Overhead Warmer, Servo controlled Intensive Care Incubator, Syringe Pumps, Infusion Pumps</b></p> <p>The country of manufacturer will be amended as following</p> <p><b>Country of Manufacturer:</b> USA/EU/Japan/Korea/North America</p> <p><b>Quality Certificate:</b> FDA510K/CE MDD/ Jp MHLW</p> <p><b>Mode:</b> DDP</p> <p><b>Warranty:</b> 03-Years Comprehensive Warranty with parts</p>
9.	Patient Monitor, Overhead Warmer, Servo controlled Intensive Care Incubator, Syringe Pumps, Infusion Pumps	M/s Icon	Lord's	<p>Due to current inflation around the globe, companies are facing the problem of Unexpectedly high prices of Biomedical Equipment especially from the European Manufacturers. In this context, the estimated prices of the Biomedical equipment advertised in the tender are too low. We request you to increase the estimated prices of the Biomedical Equipment advertised in the tender.</p> <p>We understand the importance of adhering to the Budget constraints and we assure you that our request for price increase is solely driven by the prevailing Market Conditions.</p>	<p>The committee decided that the estimated prices are sufficient and cannot be increased because the estimated prices are actual as per budget.</p>

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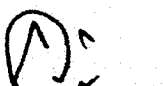
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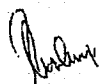
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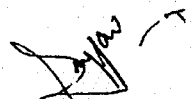
10.	Ceiling Lights	M/s Sunshine	<p>60 watts 2'x2' Feet Panel White Color LED Light Driver Circuit should be fixed with the Light.  <b>Lux Requirement:</b> 300 Lux at One Meter distance from the Light.  <b>Mode:</b> DDP  <b>Warranty:</b> One Year Comprehensive Warranty with Parts.</p>	<p>Due to ban on imports, the Ceiling Light in the required specification is not available in the Local Market. Ceiling Lights are available in the Market in the following specifications:  48W &amp; 72 W  So, we request you to amend the specification as following.  "60 watts or Higher 2'x2' Feet Panel White Color"  OR  "48 watts or Higher 2'x2' Feet Panel White Color"</p>	<p>In order to widen the competition, the committee decided to amend the specifications as following.  "60 Watts or Higher 2'x2' Feet Panel White Color"  LED Light Driver Circuit should be fixed with the Light.  <b>Lux Requirement:</b> 300 Lux at One Meter distance from the Light.  <b>Mode:</b> DDP  <b>Warranty:</b> One Year Comprehensive Warranty with Parts.</p>
11.	Ceiling Lights	M/s Sandal Surgicals	<p>60 watts 2'x2' Feet Panel White Color LED Light Driver Circuit should be fixed with the Light.  <b>Lux Requirement:</b> 300 Lux at One Meter distance from the Light.  <b>Mode:</b> DDP  <b>Warranty:</b> One Year Comprehensive Warranty with Parts.</p>	<p>Due to ban on imports, the Ceiling Light in the required specification is not available in the Local Market. Ceiling Lights are available in the Market in the following specifications:  48W &amp; 72 W  So, we request you to amend the specification as following.  "60 watts or Higher 2'x2' Feet Panel White Color"  OR  "48 watts or Higher 2'x2' Feet Panel White Color"</p>	<p>In order to widen the competition, the committee decided to amend the specifications as following.  "60 Watts or Higher 2'x2' Feet Panel White Color"  LED Light Driver Circuit should be fixed with the Light.  <b>Lux Requirement:</b> 300 Lux at One Meter distance from the Light.  <b>Mode:</b> DDP  <b>Warranty:</b> One Year Comprehensive Warranty with Parts.</p>

This clarification shall be considered as part of the Bidding Document. All other terms & conditions of bidding document shall remain same.

  
**Engr. Fauqeer Nisar**  
Bio-Medical Engineer  
Faisalabad Institute of Cardiology, Faisalabad  
(Member)

  
**Dr. Sulman Javed**  
Associate Professor Paediatric Neonatology  
Children Hospital Faisalabad  
(Member)

  
**Dr. Muhammad Ali**  
DMS (Purchase)  
Children Hospital Faisalabad  
(Member)

  
**Medical Superintendent**  
Children Hospital Faisalabad  
(Convener)