

**SPECIALIZED HEALTH CARE AND  
MEDICAL EDUCATION  
DEPARTMENT**

**GOVERNMENT OF THE PUNJAB**



**PRODUCT VOCABULARY MEDICAL  
STORE (PVMS) OF PEDIATRIC  
EQUIPMENT**

**Volume - I , 2016**

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>LED PHOTOTHERAPY UNIT</b>
Clinical Purpose	Phototherapy consists of exposure to daylight or to specific wavelength of light using polychromatic polarized light, lasers, LED, lamp, dichroic lamps or very bright, full-spectrum light. The Light is administered for a prescribed amount of time. One common use of the term is associated with the treatment of skin disorders& neonatal jaundice.
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Overhead infant phototherapy unit; LED type</li> <li>• Spectral irradiance High irradiance mode: 45-50<math>\mu</math>W/cm<sup>2</sup>/nm</li> <li>• Low irradiance mode: 20-25<math>\mu</math>W/cm<sup>2</sup>/nm</li> <li>• Wavelength range between 430-465 nm</li> <li>• LED lamps life 40,000 – 50,000 hours</li> <li>• Maximum noise level 35 dB (A)</li> <li>• Height adjustment 1200 mm to 1600 mm from light</li> <li>• Lamp unit dimensions 350 mm x 225 mm Approx</li> <li>• Lamp unit tilting position</li> <li>• Effective surface area 50 cm x 30 cm at 35 cm Approx , from the light source</li> <li>• Operating Voltage 220 V/ 50 Hz</li> </ul>	
<b>Accessories:</b>	
<ul style="list-style-type: none"> <li>• Eye protector pads</li> </ul>	

Clinical Specialty	Pediatric Equipment
Generic Name	<b>PHOTOTHERAPY UNIT (FLORESENT TUBE)</b>
Clinical Purpose	Phototherapy Unit: Consists of exposure to daylight or to specific wavelengths of light using polychromatic polarized light,, fluorescent lamps, dichroic lamps or very bright, full-spectrum light. The light is administered for a prescribed amount of time. One common use of the term is associated with the treatment of skin disorders& neonatal jaundice.
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Swirling light head, height adjustable on mobile stand with lockable castors.</li> <li>• 6 Blue or 4 Blue/2 White combination tubes or any other equivalent source</li> <li>• Wave length of fluorescent tubes: 400-550nm</li> <li>• Therapy timer and total run hour timer with LED/LCD display, which can be reset for each treatment.</li> <li>• Air convection system in the light head for silent operation and excessive heat discharge. .</li> </ul>	
<b>Accessories</b>	
<ul style="list-style-type: none"> <li>• Eye protector pads</li> </ul>	

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>OVER HEAD WARMER</b>
Clinical Purpose	Overhead warmers are used to maintain the body temperature of newborn infants. This is best done so that the energy expended for metabolic heat production is minimized. The heat output of these devices is usually regulated by servo control to keep the skin temperature constant at a site on the abdomen where a Thermistor probe is attached.
<b>TECHNICAL SPECIFICATION</b>	
<p>Baby warming system.  Microprocessor controlled heating system.  Mobile with antistatic castor, lockable, bumper guard.</p> <ul style="list-style-type: none"> <li>• Manual heat output control : 0% to 100%</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. Head can be moved in both directions allowing X-Ray procedure without moving the baby.</li> <li>• Integrated observation lamp</li> <li>• Integrated baby bed 700 x 450 mm approx. with secured plexi glass side panels, foldable down, with grid for X-ray.</li> <li>• Manual bed inclination.</li> <li>• Audio and visual alarms for Power failure, Skin Temperature deviations, High Temperature, Skin probe defective/ unplugged.</li> <li>• Lockable antistatic castors</li> </ul>	
<p><b>Accessories :</b></p> <ul style="list-style-type: none"> <li>• IV pole,</li> <li>• Skin probe (reusable)</li> </ul>	

Clinical Specialty	Pediatric Equipment
Generic Name	<b>Baby Resuscitation Trolley Fully Equipped</b>
Clinical Purpose	Resuscitation is the process of correcting physiological disorders in an acutely unwell patient. It is an important part of intensive care medicine, trauma surgery and emergency medicine. The trolley that provides Resuscitation facilities called resuscitation trolley
<b>TECHNICAL SPECIFICATION</b>	
<p>Baby resuscitation Trolley with warming system.  Microprocessor controlled heating system.  Open intensive care system for pre-mature and newborn, mobile with antistatic castor, lockable, bumper guard.</p> <ul style="list-style-type: none"> <li>▪ Manual heat output control : 0% to 100%</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. Head can be moved in both directions allowing X-Ray procedure without moving the baby.</li> <li>▪ Integrated observation lamp.</li> <li>▪ Integrated baby bed 700 x 450 mm approx. with secured Plexiglas side panels, foldable down, with grid for X-ray.</li> <li>▪ Manual bed inclination.</li> <li>▪ Audio and visual alarms for Power failure, Skin Temperature deviations, High Temperature, Skin probe defective/ unplugged.</li> <li>▪ Combined O<sub>2</sub> humidifier with venturi suction complete including flow meter and suction bottle dedicated to neonates. Corrugated tube for O<sub>2</sub> humidifier and O<sub>2</sub> connection hose. 1 x O<sub>2</sub> Cylinder with fittings.</li> </ul>	
<b>Accessories :</b>	
<ul style="list-style-type: none"> <li>▪ Complete with O<sub>2</sub> hood</li> <li>▪ IV pole</li> <li>▪ Skin probe (reusable)</li> </ul>	
<b>Optional :</b>	
<ul style="list-style-type: none"> <li>• Resuscitation device for babies, breathe delivery system to deliver CPAP and PEEP.</li> </ul>	

Clinical Specialty	Pediatric Equipment
Generic Name	<b>TRANSPORT INCUBATOR</b>
Clinical Purpose	An incubator is an apparatus used to maintain environmental conditions suitable for a neonate (newborn baby). It is used in preterm births or for some ill full-term babies. The Transport Incubator is used for transportation of infant from one place to another
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Cabin 600 x 240 x 290 mm (approx.) with transparent panel with two hand ports</li> <li>• Digital Display with all standard parameter</li> <li>• O2 supply cylinder</li> <li>• Simple frame which can be latched on to any stretcher</li> <li>• Thermometer with digital display of temperature</li> <li>• Visual &amp; audible alarms for temperature excess (39 C)</li> <li>• Low battery alarm.</li> <li>• Collapsible stand</li> </ul>	
<b>Accessories</b>	
Unit complete with <ul style="list-style-type: none"> <li>• Oxygen cylinder with reducing valve</li> <li>• O2 connecting hose</li> <li>• Built in flowmeter</li> <li>• Guard Rail</li> <li>• Restraint straps</li> <li>• Battery Operated Ventilator</li> <li>• Oxygen monitor separate / built in</li> <li>• Integrated battery backup / Compatible UPS for four hours with Socket to drive the equipment with full functions in ambulance, aircraft &amp; hospital.</li> <li>• In case of pneumatic driven Ventilators, two E-type cylinders each for min three hours operation</li> </ul>	
<b>Optional</b>	
<ul style="list-style-type: none"> <li>• Water nebulizer</li> <li>• Bronchial aspirators</li> <li>• Vacuum mattress</li> <li>• Digital weighing scale for weighing baby inside the incubator</li> </ul>	

Clinical Specialty	Pediatric Equipment
Generic Name	<b>PRIMARY CARE INCUBATOR</b>
Clinical Purpose	An incubator is an apparatus used to maintain environmental conditions suitable for a neonate (newborn baby). It is used in preterm births or for some ill full-term babies
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Primary Care Incubator Comprises Microprocessor controlled unit with 5 inch LCD display of set and measure temperature</li> <li>• Air temperature control</li> <li>• Temperature regulation range 28.C - 38 C +/- 1 C with uniform heat distribution over the bed surface</li> <li>• Replaceable bacteria filter for filtration of fresh air and oxygen</li> <li>• Bed surface 700 mm x 460 mm (approx.) with mattress</li> <li>• Bed surface can be Trendelenburg and anti Trendelenburg</li> <li>• Highly thermo stable acrylic glass or similar material double/Triple wall with four iris/elbow (sleeve) window and one side port</li> <li>• Humidification of the incubator air regulate able between 40-60 %</li> <li>• Oxygen flowmeter 0-15 liter/min</li> <li>• Noise Level: Equal or less than 45 dBA</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>• A visual and audible alarm warns in case of fan failure</li> <li>• Test buttons to check the individual alarms or automatic test system</li> </ul>	
<b>Accessories</b>	
<ul style="list-style-type: none"> <li>• Complete with air temperature sensor</li> <li>• IV pole</li> <li>• Hand held pulse oximeter built in / separate</li> <li>• Guard rail</li> <li>• Restraint straps</li> </ul>	
<b>Optional</b>	
<ul style="list-style-type: none"> <li>• Water nebulizer</li> <li>• Oxygen distributor/manifold</li> <li>• Bronchial aspirators</li> <li>• Mattress</li> <li>• Digital weighing scale to weigh baby inside the incubator</li> <li>• Ultrasonic nebulizer &amp; Humidity Indicator</li> </ul>	



Clinical Specialty	Pediatric Equipment
Generic Name	<b>SERVO CONTROLLED INCUBATOR</b>
Clinical Purpose	An incubator is an apparatus used to maintain environmental conditions suitable for a neonate (newborn baby). It is used in preterm births or for some ill full-term babies
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Double/ Triple wall canopy system</li> <li>• Servo Control System.</li> <li>• Intensive Care Incubator comprises Microprocessor controlled unit with 5 inch LCD display set/measure temperature &amp; baby skin temperature.</li> <li>• Temperature regulation upto 38 C with uniform heat distribution over the bed surface</li> <li>• Sensor attached to child's skin continuously measures child skin temperature</li> <li>• Bed surface 700 mm x 460 mm (approx.)</li> <li>• 2 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 in front.</li> <li>• Four spring operated elbow / hand ports.</li> <li>• Replaceable bacteria filters</li> <li>• Built in control for Humidification to regulate incubator air up to 60%</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 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 45dBA Noise level</li> </ul>	
<p><b>Accessories:</b></p> <p>Unit complete with</p> <ul style="list-style-type: none"> <li>• Air temperature sensor</li> <li>• Skin temperature Sensor</li> <li>• I.V. Pole</li> <li>• Guard Rail</li> <li>• Restraint straps</li> <li>• Pulse Oximeter separate / built in</li> </ul>	
<p><b>Optional:</b></p> <ul style="list-style-type: none"> <li>• Water nebulizer</li> <li>• Bronchial aspirators</li> <li>• Vacuum mattress</li> <li>• Digital weighing scale for weighing baby inside the incubator</li> <li>• High humidification pads</li> </ul>	

- Connection of Oxygen to drive flow meter both form oxygen cylinder & manifold of central gas pipeline system
- Oxygen flowmeter 0-15 liter/min. for incubator
- Humidity Meter

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>CRASH CART TROLLEY FULLY EQUIPPED</b>
Clinical Purpose	A crash cart trolley is a set of trays / drawers /shelves on wheels used in hospitals for transportation and dispensing of emergency medication/equipment at site of medical/surgical emergency for life support protocols (ACLS/ALS) to potentially save someone's life.
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Baby resuscitation trolley for emergency</li> <li>• Stainless steel / ABS top.</li> <li>• Three or more drawers</li> <li>• Lower cupboard with central locking / securing all drawers and cupboard</li> <li>• Operated by cupboard door and use of security seals</li> <li>• Double hook stainless steel I.V. Pole</li> <li>• Push handle</li> <li>• Quality cushion castors (2 x braking)</li> <li>• 2 x stainless steel cylinder holders / strap</li> <li>• Cardiac board 600 x 400 x 55mm with stainless steel housing brackets at rear of trolley.</li> <li>• Universal rail system fitted to width of trolley.</li> </ul>	
<p><b>Accessories :</b> (Sample to be approved by the End User/Biomedical Engineer)</p> <ul style="list-style-type: none"> <li>• Aneroid sphygmomanometer with Paeds &amp; infant Velcro cuff and rail clamp</li> <li>• Electronic timer and rail clamp</li> <li>• Venturi suction unit with O<sub>2</sub> outlet and 2.0 liter jar</li> <li>• Suction tube and connecting tubing</li> <li>• O<sub>2</sub> flow meter fitted to O<sub>2</sub>venturi outlet 0-15 lpm</li> <li>• Pin index regulator with outlet for connection to remote venturi hose and O<sub>2</sub> outlet</li> <li>• Oxygen cylinder Qty 01 fitted with trolley</li> </ul> <p><b>Intubation set comprising:</b></p> <ul style="list-style-type: none"> <li>• Macintosh laryngoscope with 4/5 blade set</li> <li>• Magill introducing forceps</li> <li>• Paeds resuscitator</li> <li>• Disposable E.T. tubes Set</li> <li>• Guedel airways</li> <li>• Pen torch</li> <li>• Artery forceps</li> <li>• Dressing scissors</li> <li>• Set of plastic tubes</li> <li>• Examination light to rail clamp</li> </ul>	

Clinical Specialty	Pediatric Equipment
Generic Name	<b>BABY COT</b>
Clinical Purpose	Baby Cot is used for the comfort and the safety of the newborn and for offering the most practical and functional solution to the health operators
<b>TECHNICAL SPECIFICATION</b>	
<p>The trolley carrying the baby cot should a solid and safe structure and is made of epoxy painted steel.</p> <ul style="list-style-type: none"> <li>• Lying area made of rectangular hollow pipe frame.</li> <li>• Safety sides can be slide up &amp; down provided with standard cushioned rexene foam mattress.</li> <li>• Laying area: 78cm x 135cm. approx. or better</li> <li>• Back raise adjustment.</li> <li>• Mobile on 75mm diameter</li> <li>• Castors (Two lockable).</li> </ul>	
<p><b>Optional:</b></p> <ul style="list-style-type: none"> <li>• IV Pole</li> </ul>	

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>Paeds ICU Beds</b>
Clinical Purpose	Pediatric ICU Bed is used for the comfort and the safety of the newborn and for offering the most practical and functional solution to the health operators
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Motorized Hospital bed suitable for use in Intensive Care Unit</li> <li>• Paeds Intensive Care bed with removable head and foot panels</li> <li>• Height adjustment with hand held control and nurse control panel</li> <li>• Trendelenburg / anti Trendelenburg position</li> <li>• Back raise</li> <li>• Knee raise</li> <li>• Radiolucent backrest</li> <li>• To facilitate use of the C arm / x-ray with cassette holder for imaging</li> <li>• Castors with bumpers</li> <li>• Central Locking system</li> <li>• Mattress with internal hinge and standard nylon proof cover</li> <li>• Safe working load 20-150 KG</li> </ul>	
<b>Accessories :</b>	
<ul style="list-style-type: none"> <li>• Collapsible Side Rails Pair</li> <li>• I.V Rod</li> </ul>	
<b>Optional :</b>	
<ul style="list-style-type: none"> <li>• Bedside Cabinet</li> <li>• Over Bed Table</li> </ul>	

Clinical Specialty	Pediatric Equipment
Generic Name	<b>NEONATAL MONITOR</b>
Clinical Purpose	Neonatal monitor or physiological monitor is a medical device used for the monitoring of neonates/paeds vital sign
<p><b>TECHNICAL SPECIFICATION</b></p> <ul style="list-style-type: none"> <li>• Configured Bedside monitor for display of vital signs monitoring</li> <li>• Measuring all physiological parameters of Paeds, Neonates</li> <li>• Mounted on original wall mounted stands</li> <li>• Monitors should be connected with central station wirelessly / wired</li> </ul> <p><b>OPERATING FEATURES &amp; CHARACTERISTICS</b></p> <ul style="list-style-type: none"> <li>• Electro-surgical interference suppression/ protection</li> <li>• Defibrillator protection</li> <li>• Freeze and cascade facility</li> <li>• waveforms traces speeds 25/50mm/sec</li> <li>• Screen size min 12" or more with touch screen colored</li> <li>• Minimum 5-6 waveforms or more</li> </ul> <p><b>STANDARD PARAMETERS</b></p> <ul style="list-style-type: none"> <li>• ECG, NIBP, SpO<sub>2</sub>, 2-Temp, Respiration, Trends, Arrhythmia Analysis</li> </ul> <p><b>ECG: (Cable Alligator Type)</b></p> <ul style="list-style-type: none"> <li>• Numeric heart rate</li> <li>• Waveform: Six wave form minimum, real time freeze ECG trace</li> <li>• 3 and 6 lead monitoring</li> <li>• Measuring range: 15 to 250bpm</li> <li>• 5 and 10 lead each ECG cable with electrodes</li> <li>• Ability to detect Adult &amp; Pediatric Heart rate range, QRS widths and amplitudes</li> </ul> <p><b>NONINVASIVE BLOOD PRESSURE (NIBP): (Paeds, Neonates Cuff )</b></p> <ul style="list-style-type: none"> <li>• Method: Oscillometric principle</li> <li>• Numeric: Systolic, Diastolic and Mean Pressures</li> <li>• Ability to measure Adult &amp; Pediatric B.P</li> <li>• Rising Cuff / continuous pressure display</li> <li>• Selectable auto inflate interval settings</li> </ul> <p><b>TEMPERATURE (Rectal, Skin Probes)</b></p> <ul style="list-style-type: none"> <li>• Numeric. Temperature selectable in 'C / 'F</li> <li>• Channels: 2 channels or more</li> <li>• Ability to measure Adult &amp; Pediatric temperature range</li> </ul> <p><b>PULSE OXIMETRY: (Paeds, Neonates Probes )</b></p> <ul style="list-style-type: none"> <li>• Numeric: 0-100% Oxygen saturation measuring range</li> <li>• Massimo Technology/ Other patent technology with motion tolerance</li> <li>• Waveform: Plethysmograph pulse with Sensor for Pediatrics &amp; Neonates Patients</li> </ul> <p><b>RESPIRATION:</b></p> <ul style="list-style-type: none"> <li>• Sweep speed: 6.25, 12.5mm/sec.</li> <li>• Breathe rate display and Settable Apnea Alarm.</li> </ul>	

**ARRTHIEMIA ANALYSIS:**

- Arrhythmia analysis and ST analysis with minimum 10 Arrhythmia detection

**TRENDS:**

- Trends for at least 48-96 hours with graphical and tabular representation for all parameters

**ALARMS:**

- Selectable automatic Adult and Pediatric Mode alarm limits High and low (settable) on all parameters
- Visual and Audible indication of alarms

**BACKUP SUPPORT**

- Built-in Rechargeable Battery with back up of at least 1-2 hours in case of AC power failure for full parameters.
- Wall mount or trolley original from manufacturer.
- The system must be complete with all sensors, probe, cable or any other accessories required for measuring all the above selectable parameters for adult & Pediatric applications. All the accessories must be supplied by the same manufacturer

**Accessories:**

- ECG Paper Roll (05)

**OPTIONAL ITEMS:****RECORDER**

- 2 Channel Recorder for printing of ECG Waveforms

**INVASIVE BLOOD PRESSURE MODULE**

- 2 Channel IBP Monitoring
- Numeric: Systolic, Diastolic and Mean Pressure
- Variable scale: Selectable
- 5 IBP Complete kits

**CARDIAC OUTPUT MODULE**

- Numeric Display
- Display of Cardiac Output
- Thermodilution Method
- One starter kit

**CAPNOGRAPHY (ETCO<sub>2</sub>)**

- For measuring of End Tidal CO<sub>2</sub>
- Capability of Main / side stream measurements for intubated and non intubated
- Airway & nasal adapter 50 each adult and paed
- Telemetry
- Central Station with 19" LED

Clinical Specialty	Pediatric Equipment
Generic Name	<b>ELECTRIC BREAST PUMP</b>
Clinical Purpose	A breast pump is a device that extracts milk from the breasts of a lactating woman. Breast pumps may be manual devices powered by hand or foot movements or electrical devices powered by electricity or batteries.

**TECHNICAL SPECIFICATION**

- Sterilizable with silicon leaf physiological suction rhythm
- Sucking pressure: 330mBar
- Adjustable milking cycle upto 50/min
- Digital LCD/ LED display
- Rechargeable battery
- AC 220 V 50 Hz.

**Accessories**

- Breast shield three sizes
- Breast shield for caved-in-nipples (3cm)
- Milk collection bottles
- Milk collection bottles cap
- Bottle stand
- Connecting tubing
- Cleaning brush

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>MANUAL BREAST PUMP</b>
Clinical Purpose	A breast pump is a mechanical device that extracts milk from the breasts of a lactating woman. Breast pumps may be manual devices powered by hand or foot movements or electrical devices powered by electricity or batteries.
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Sterilizable with silicon teat physiological suction rhythm.</li> <li>• Adjustable vacuum handle</li> <li>• Milk flow with each pump stroke.</li> <li>• Vacuum is released automatically after each pump stroke.</li> </ul>	
<b>Accessories</b>	
<ul style="list-style-type: none"> <li>• Handle Expression funnel</li> <li>• Nipple Shields</li> <li>• Breast shells for protection of sore or cracked nipples and allow air to circulate</li> <li>• Breast shield (three sizes)</li> <li>• Milk collection bottle</li> <li>• Cleaning brush</li> </ul>	

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>BILIRUBINO METER NON-INVASIVE TYPE</b>
Clinical Purpose	Bilirubin meter is used to analyze serum bilirubin value

**TECHNICAL SPECIFICATION**

- Type Noninvasive for measurement through forehead
- Intended use Pre, during and post phototherapy
- Gestational age 27-42 weeks
- Post-natal age 0-20 days
- Total serum bilirubin range 0-20 mg/dL
- Accuracy (RMSE) +/- 1.5 mg/dL at 66% of the time or 1 sigma
- Power 100-240 V AC, 50 Hz
- Rechargeable battery 30 measurements on full charge
- Complete with Desk top charger

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>BILIRUBINO METER CAPILARY TYPE</b>
Clinical Purpose	Bilirubin is the yellow breakdown product of normal heme catabolism, caused by the body's clearance of aged red blood cells which contain hemoglobin. It is used to analyze the 'total bilirubin' through a micro capillary tube
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Use</li> <li>• Sample</li> <li>• Serum</li> <li>• Reading cuvette</li> <li>• Measure unit</li> <li>• Reading time</li> <li>• Reading in</li> <li>• Optical filter</li> <li>• Display</li> <li>• Printer</li> <li>• Memory</li> <li>• Power requirements</li> <li>• Complete with micro centrifuge for capillaries.</li> <li>• Capillaries tube – Pack of 100.</li> </ul>	<ul style="list-style-type: none"> <li>Measurement of total bilirubin by photometric method</li> <li>Centrifuged whole blood</li> <li>Minimum volume: 10 µl</li> <li>Haeparinized haematocrit capillary</li> <li>mg/ dl or µmol/ l</li> <li>3s approx.</li> <li>Accuracy <math>\pm 5\%</math></li> <li>455 and 575 nm / 461 and 551 nm</li> <li>Alpha numeric/ LCD</li> <li>Thermal printer, Integrated</li> <li>Memory for 90 results</li> <li>220V, 50Hz</li> </ul>

Clinical Specialty	Pediatric Equipment
Generic Name	<b>WHOLE BODY COOLING MACHINE</b>
Clinical Purpose	Hyperthermia is elevated body temperature due to failed thermoregulation that occurs when a body produces or absorbs more heat than it dissipates. Extreme temperature elevation then becomes a medical emergency requiring immediate treatment to prevent disability or death. Hypothermia is defined as a body core temperature below 35.0 °C (95.0 °F). Whole body cooling machine provides the facilities of thermoregulation
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• System Capable used for Hospital ICU, Coronary care units, Operating Room, Recovery and Emergency Rooms</li> <li>• System has convenient way to warm or cool patients</li> <li>• Hypo hyper Thermia unit should have hose connections for water Blankets</li> <li>• Hypo hyper Thermia mats of different sized &amp; shaped</li> <li>• Systems should have standard operating modes</li> <li>• Fluid Temperature Range Manual:5°C to 40°C</li> </ul>	
<b>Accessories:</b>	
<ul style="list-style-type: none"> <li>• Reusable Blanket (Pediatric)</li> <li>• And all other standard accessories</li> </ul>	
<b>Optional:</b>	
<ul style="list-style-type: none"> <li>• Any other blanket size, as per requirement of end user, subject to the availability and generalization of requirement</li> </ul>	

Clinical Specialty	Pediatric Equipment
Generic Name	<b>COOL MIST &amp; OXYGEN TENT</b>
Clinical Purpose	An oxygen Tent consists of a canopy placed over the head and shoulders, or over the entire body of a patient to provide oxygen at a higher level than normal. This form of treatment is often prescribed in conditions where people have difficulty in breathing. An oxygen tent can be used in either a hospital setting or outside a health-care facility, and can be recommended for short- or long-term therapy
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• For upper respiratory therapy for the Pediatric patient</li> <li>• Recirculation system to provide a cooled saturated mist</li> <li>• Canopy reusable</li> <li>• Operation by compressed air or Oxygen</li> <li>• Oxygen Concentration control</li> <li>• Oxygen alarm system</li> <li>• Automatic cooling and heating system with 15 to 35 Deg. C</li> <li>• Automatic regulation of temperature</li> <li>• Ultrasonic humidity control system for upto 95% humidity levels</li> <li>• Unit complete with all standard accessories like air compressor, aspirator and oxygen analyzer</li> </ul>	

Clinical Specialty	Pediatric Equipment
Generic Name	<b>BLOOD / FLUID WARMER</b>
Clinical Purpose	A fluid warmer is a medical device used in healthcare facilities for warming fluids, crystalloid, colloid, or blood product, prior to being administered (intravenously or by other parenteral routes) to body temperature levels in order to prevent hypothermia in physically traumatized or surgical patients
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Unit should be electronically controlled for reliable transfusion and infusion procedure</li> <li>• With blood warming adjustable coil</li> <li>• With safety device thermo control 39-40 deg C</li> </ul>	

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>OXYGEN HOOD</b>
Clinical Purpose	An oxygen hood consists of a canopy placed over the head and shoulders, or over the entire body of a patient to provide oxygen at a higher level than normal. This form of treatment is often prescribed in conditions where people have difficulty in breathing. An oxygen tent can be used in either a hospital setting or outside a health-care facility, and can be recommended for short- or long-term therapy.
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Design to minimize the risk of patient during therapy</li> <li>• Infant respiratory hood designed for precise control of oxygenation with consistent FiO<sub>2</sub> distribution.</li> <li>• Transparent material: disinfect able</li> <li>• Size: 175 Lx175 Wx135 H mm approx.</li> <li>• Neck opening: 100 Wx40 H mm approx.</li> </ul>	

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>ULTRASONIC NEBULIZER</b>
Clinical Purpose	Nebulizer is a drug delivery device used to administer medication in the form of a mist inhaled into the lungs. Nebulizers use oxygen, compressed air or ultrasonic power to break up medical solutions and suspensions into small aerosol droplets that can be directly inhaled from the mouthpiece of the device.
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Ultrasonic energy for uniform and highly dense 1-5 microns</li> <li>• Medication cup with replaceable diaphragm</li> <li>• Made of highly resistant Sterilizable resin</li> <li>• Stand with solution bottle for safety</li> <li>• Nebulizing rate: 4 ml / min or greater</li> <li>• Mist particle size: Approx. 1-5 microns</li> <li>• Nebulizing time setting: 1-30 min or more adjustable</li> <li>• Medication cup capacity: 150 ml or better</li> </ul>	
<b>Accessories :</b>	
<ul style="list-style-type: none"> <li>• Solution bottle 500 ml for approximate 4 hours continuous operation</li> <li>• Solution bottle support</li> <li>• Water Level controller</li> </ul>	
<b>Optional :</b>	
<ul style="list-style-type: none"> <li>• Trolley with flexible arm</li> </ul>	



Clinical Specialty	Pediatric Equipment
Generic Name	<b>BABY RESUSCITATION MANKIN / SIMULATOR</b>
Clinical Purpose	A manikin is a life-sized anatomical human model used in education and engineering. The best known of these, the Transparent Anatomical Manikin (TAM) is a three-dimensional, transparent model of a human being, created for medical instructional purposes
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>The generalized specifications of Simulators to be prepared by the end-user. The end-user shall certify the generalization of specifications and get it approved from the concerned committee and competent authority before the process of procurement.</li> </ul>	

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Clinical Specialty	Pediatric Equipment
Generic Name	<b>MANUAL RESUSCITATOR NEONATAL</b>
Clinical Purpose	Neonatal resuscitation or also called as newborn resuscitation is the resuscitation of newborn children with children with birth asphyxia
<b>TECHNICAL SPECIFICATION</b>	
<ul style="list-style-type: none"> <li>• Autoclaveable silicone resuscitator for infants</li> <li>• Consisting of 240 ml approx. bag</li> <li>• Patient valve with regulator</li> <li>• Mask size 00, 0, 1 &amp; 2, approx. Autoclaveable</li> <li>• Airways sizes 0, 1</li> <li>• Reservoir bag 240 ml approx. capacity</li> <li>• Reservoir bag Complete in carrying case with pop up valve</li> </ul>	

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