MINUTES OF PRE BID MEETING HELD ON 25-01-2024 AT 11:00 A.M. IN THE CONFERENCE ROOM OF THE ADMIN BLOCK IN THE CHILDREN'S HOSPITAL & UNIVERSITY OF CHILD HEALTH SCIENCESLAHORE FOR THE PROCUREMENT OF ELECTRO MEDICAL EQUIPMENT. PLANT & MACHINERY & IT EQUIPMENT UNDER ADP SCHEME ESTABLISHMENT OF PEADIATRIC BURN CENTER

Reference advertisement letter No. P.C./679/CH&UCHS dated 03-01-2024 regarding the Procurement of Electro Medical Equipment, Plant & Machinery& IT under ADP Scheme Establishment of Peadlatric Burn Center for the year 2023-2024 held on 25-01-2024 at 11:00 a.m. in The Children's Hospital, University of Child Health Sciences, Lahore.

- Tender Published in newspaper on 11-01-2024 under IPL No. 302 (Roznama Nawa-e-Waqt & Express Tribune) as well as on PPRA website on 11-01-2024 and ready for sale.
- As per advertised tender a Pre-Bid Meeting held on 25-01-2024 at 11:00 am (As per schedule already given in the advertisement).
- Meeting starts with the recitation of the Holy Quran. It was briefed to the Chairperson that prebid meeting scheduled to clarify the queries of the company in order to avoid any misunderstanding during the bidding process.

Detailed discussions made by the Pre-Bid Committee, with the representative of the firms following points were discussed and decision made as follow by the committee.

Sr. No.	Items Description	Clarification/Decision
1.	Pediatrics Ventilator	<ul> <li>It was Brief to the bidders to kindly quote the Flow Analyzer for ventilator /anesthesia compatible to all brands (no need to quote price separately).</li> <li>Dual Certificate is mandatory.</li> <li>Remaining all are as per specified T&amp;C.</li> </ul>
2.	a. Anesthesia Workstation	<ul> <li>Dual Certificate is mandatory.</li> <li>Pendant should be single arm instead of dual the specifications including gas &amp; electric provision e.t.c. are as per provided specifications.</li> </ul>
	b. Anesthesia Machine c. Anesthesia Pendant (Package Items)	
3.	Operation Table Electro Hydraulic	No Changes
4.	Operation Theater light	No Changes
5.	Pulse Oximeter	SP02 Sensor 2 infant ,1 adult with each Unit
6& 7.	a. Syringe Pump with docking station. And Infusion Pump.	<ul> <li>Please read 8 docking station instead of 10 as 25 syringe pump will be procured with minimum docking capability of 3 each.</li> <li>Item No 6 and 7 is considered as package.</li> <li>25 Local Stand with 5 Wheel for firm rip and load bearing for item number 6 &amp; 7.</li> </ul>
8.	Defibrillator	<ul> <li>External paddles for adult and pediatric are required.</li> <li>Pacing Defib disposable paddles Qty 3/each.</li> <li>Local trolley is required which ensured the safety of defibrillators, with similar pattern of original trolley.</li> </ul>

And Ray

Sr. No.	Items Description	Clarification/Decision
9.	a. Cardiac Monitors Invasive IBP with Capnography	<ul> <li>NIBP hose Pipe quantity required 2.</li> <li>BP cuffs 2 Peads, 2 Adult; SPO2 leads 2 SPO2 sensors 2 infant, 1 adult reusable.</li> <li>Read 1 Etco2 Module instead of 2.</li> <li>Monitor self with drawer to keep accessories.</li> </ul>
10	b. Cardiac monitor (Non Invasive)	
10.	a. Central Oxygen Supply System  b. Bed Head Unit for medical	Bidder Must submitted the Under taking to completely execute the project ,In case of minor variation in BOQ;
	gases with outlet c. Vacuum Regulator d. Oxygen Flow Meter	
12.	ECG Machine with 12 channels	Read as ECG 6 Channels. Local trolley with similar to original to ensure satisfactory.
13.	Diathermy Machine with bipolar leads Local	Additional accessories diathermy added in new Specification. Piz read total quantity 4 instead of 2 units.
14.	Magnifying Loops (Imported) 2.5 X	No Changes
15.	K wire driver	No changes
16.	Humby Skin Graft Knife	No changes
17.	Blood Warmer (Imported)	No changes
18.	Fluid Warmer	No changes
19.	Forced Air Patient Warming System	No changes
20.	Operating Micro Scope	As per request of bidder all bidder minor changes in specification has been proposed ,Please considered
21.	Hand Held Doppler	No changes
22.	Micro vascular Sets (Imported)	No changes
23.	Dialysis Unit with RO Plant	Read as CRRT (CRRT continuous renal replacement therapy)
24.	Quick sterilizer (Imported)	No changes
25.	a). Hand Surgery Sets for burn hand (Local) b). General Plastic & Burn Surgery Sets (Local) c). Dressing sets	No changes
26.	Complete Hydro Therapy Unit (Local)	No changes
	b. Autoclave (Local) c. Hand Scrub Stand (Local)	No obcodes
27.	d. OT Table (Local) a. Ultraviolet	No changes
21.	Ultraviolet     Chest Expander	No changes
28.	a. Stretcher	
	<ul> <li>b. Crash Cart local</li> <li>c. Patient Stretcher with side Bars &amp; Oxygen Cylinder</li> <li>d. Patient Transfer Stretcher Trolley Cum Bed / Fowler Bed</li> <li>e. Fowler Bed for Burn Patients with bed side Cabinet,</li> </ul>	No changes
	Attendant Bed/ Sofa and Over Bed Table	

of span W

Sr. No.	Items Description	Clarification/Decision
20	Audiovisual Items  a. Security camera with installation and Monitor  b. Audiovisual system for Theater to Committee room  c. Speaker system	Specifications attached
30.	If Equipment  a. Computer System Core i7 (Latest Generation) 16 GB Ram 1 TB Hard disk 19" LCD with UPS (APC 650VA) with computer tables. b. Laser Printer c. Multifunctional Printer	No change
31.	Multi Media Projector	No change
32.	Shortwave Diathermy	Specifications attached
33.	Ultrasound Unit	Specifications attached
34	Direction regarding the Bid submission.	<ul> <li>CDR/BG should be in Technical offer.</li> <li>Compliance Sheet should be properly filled and proper tagging should be there so that easily verified.</li> <li>Document should be attached in bid as per evaluation criteria.</li> <li>Nando verification /certification is mandatory.</li> <li>Warranties of some equipment's have been revised as per estimated prices.</li> <li>NANDO (New Approach Notified and Designated) is mandatory.</li> <li>A firm should require to submit its plane of PPM, as per manufacturing along with this list of machine consumable / kits as per manufacturer guidelines.</li> </ul>

Dr. Sarfraz Ahmad Associate Professor PaediatricPM&R

Engrapan Haider Biomedical Engineer / Purchase Officer

Mazhar Iqbal Noor Computer Programmer / IT Incharge

Dr. Aslam Rao Associate Prof. of Plastic & Reconstructive Surgery

Serial No	01		
Estimated Unit Cost	11,035,200	Quantity	8
Generic Name	PEDIATRICS VENTILATOR		
Clinical Purpose	Ventilator is a machine that provides mechanical ventilation by moving breathable air into and out of the lungs, to deliver breaths to a patient who is physically unable to breathe, or breathing insufficiently.		

#### VENTILATION:

- 1. Microprocessor controlled powerful ventilation system mounted on trolley
- 2. Color touch screen 15" Minimum LCD or TFT or better.
- 3. Patient Range: Adult and Pediatrics.
- 4. Breathing classification: Pressure control, Volume control Pressure control with set Volume Breath.

  MODES OF VENTILATION:
- 5. Volume control.
- 6. Assisted CMV.
- 7. Pressure control PC.
- 8. Assist Pressure Control.
- 9. CPAP.
- 10. SIMV with VC.
- 11. SIMV with PC.
- 12. Pressure support.
- 13. Bi-PAP ventilation.
- 14. APRV or equivalent.
- 15. Noninvasive ventilation (NIV) with PC, SIMV and PS.
- 16. High flow O2 Therapy.

#### CONTROL:

17. Set & measured parameters simultaneously.

## MEASUREMENT RANGE AND SPECIFICATION:

- 18. Inspiratory tidal volume: 20 to 2000 ml or more in VC.
- 19. Respiratory frequency: 5 to 120bpm or better
- 20. SIMV breath frequency: 1 to 50 bmp or better
- 21. Inspiratory pressure: 10 to 80 cmH2O or better
- 22. Inspiratory flow: 80 L/Min or cmH2O or better.
- 23. I: E ratio: 1:4 / 4:1 inverse or better
- 24. PEEP: 3 to 30cm H2O or better.
- 25. FiO2 or O2 delivery: 21 to 100%
- 26. Monitoring parameters for set and measured value simultaneously:
- 27. Total breath rate.
- 28. Oxygen concentration FiO2 (Through Paramagnetic sensor technology or Non consumable sensor).
- 29. Expired minute volume.
- 30. I: E ratio.
- 31. Peak Pressure.
- 32. Mean pressure.
- 33. Lung Mechanics with pressure and volume loops.
- 34. Others control and functions:

\$ 87 Aprilar

- 35. Back up ventilation.
- Microprocessor gas delivery system.
- 37. Breathe circuit Compliance Compensation.
- 38. Expiratory hold or Inspiratory hold.
- 39. Pressure or Volume or flow trigger sensitivity.
- 40. Spon Triggered breaths should be indicating in pressure or volume curve.
- 41. Trend Data of 72 hours or more.
- 42. Automatic weaning method for automatically performs a spontaneous breathing trial.
- 43. The waveform should be displayed on ventilator's screen.
- 44. Expiratory valve should be Sterilize-able or autoclave-able and easily detachable.
- 45. Patient data, monitoring parameters data, alarms and trend data can be transfer in USB / equivalent and it should be readable and printable through laptop or PC.

## ALARMS:

- 46. Apnea
- 47. AC power failure
- 48. High and low Expired minute volume
- 49. High and low peak air way pressure.
- 50. High and low breath rate
- 51. FiO2 variation.
- 52. Gas supply source failure
- 53. Low battery

#### NEBULIZER:

54. Built in nebulizer during ventilation.

#### COMPRESSED AIR SUPPLY:

55. The ventilator should be driven on external compressor for powerful ventilation and should have the capability to connect with central medical pipeline system of the hospital.

#### **HUMIDIFIER:**

- 56. Automatic compensation (Servo) controlled heated humidifier with temperature monitoring at air way and Humidification camber with alarm for low/ high limits with water tarp in the patient circuit.
- 57. Supplies by same manufacturer.

#### AIR COMPRESSOR:

- 58. Air compressor should be supplied by same manufacturer for better compatibility.
- 59. In case of central air supply pressure failure, air compressor should be automatically switch on & off.
- 60. Air compressor should be mounted on same ventilator trolley.

#### SUPPLY REQUIREMENTS:

- 61. Electric 220 V 50 Hz.
- 62. Built-in or integrated battery backup for main ventilator.
- 63. The warranty of equipment will be including batteries, all kind of sensors and flow sensor.

## WARRANTY:

5 years comprehensive warranty.

#### PPM and maintenance kits:

Should provide the complete list and parts need to be replace during warranty period as per recommendation of manufacturer along with Documents. Mandatory to calibrate the equipment during warranty period will be the ultimate responsibility of firm to conclude the warranty.

#### Flow Analyzer For Ventilator:

Latest Analyzer as per manufacturer recommendation (Universal and compatible to use with all type of ventilators and anesthesia Machine). The price of Analyzer should be Quoted as a Package with Ventilator, separate pricing is not allowed.

mas C

pso

## TRAINING

End-mer Pereign attachment for one week.

Comprehensive High End Service Training of Bio-Medical Engineer at site of manufacturer for one week.

# COUNTRY OF MANUFACTURER/QUALITY CERTIFICATIONS;

USA/ EUROPE / JAPAN/Dual Certification is mandatory .

my of Markor

Serial No	2A   16,409,122   Quantity   1		
Estimated Unit Cost			
Generic Name	ANESTHESIA WORKSTATION (HIGH END)		
Clinical Purpose	This anesthesia workstation can be used for all category of patients (Adult, Peads Neonate). It used by anesthesiologists to support the administration of anesthesi The anesthesia workstation is designed to provide an accurate and continuous supply of medical gases (such as oxygen and nitrous oxide) with electronic gamixing and mixed with anesthetic agents (such as Isoflurane & Sevoflurane) and deliver this to the patient at a safe pressure and flow. Additionally, machine incorporate a ventilator, suction unit and advance patient monitoring devices.		dministration of anesthesia.  n accurate and continuous oxide) with electronic gas flurane & Sevoflurane) and w. Additionally, machines

- 1. Anesthesia work station machine to administer anesthetic agents in precise control and flow manner.
- 2. The machine will equip to monitor the vital sign parameters and anesthetic agents during operation.
- 3. Pendant Mounted or Floor mounted version (To be specified by the procuring agency and the end-user). Provision of 3-gases O2, N2O and Air.
- 4. Machine should capable to deliver low flow and minimal flow anesthesia with fresh gas flow efficiency graph.
- Provision of communication port for sharing and transfer of data to HIMS or HIS through HL7 protocol.
- 6. Unit shall comprise of the following components:
- 7. Electronically controlled gas mixing and monitoring of anesthetic gases (O2, AIR, and N2O) both by digits as well as colored virtual tubes.
- 8. Manual ventilation should be possible if the electrical system fails. 

  Built-in illumination system.
- 9. Non-interchangeable pipeline inlets.
- 10. Electronic Display of Central Pipeline & cylinder gauges for O2, N2O and AIR.
- 11. Central gas or electrically driven unit.
- 12. Pin index cylinder yokes for Oxygen & N2O (One each).
- 13. Automatic shifting on the cylinder if the central supply of O2 or N2O fails.
- 14. Gas outlet and O2 flush control.
- 15. 1 auxiliary O2 outlet (preferably electronics).
- 16. Two Lockable castors.
- 17. Stainless steel or fiber work surface.
- 18. Absorber bag support arm.
- 19. Integrated heated breathing system or ability to manage water condensation & Humidification.
- 20. Drawer unit 5-6" high. (Only in floor mounted version).
- 21. Scavenging system active type.
- 22. Integrated or Built-in or Mounted suction with accessories to be supplied from same manufacturer which should be compatible with machine.

#### ANESTHESIA VENTILATOR:

- 23. Anesthesia Ventilator with minimum 15" or more LCD or TFT Touch Screen.
- 24. The ventilator shall be capable of ventilating Neonates, pediatric and Adult Patients.
- 25. The ventilator shall have following features as a minimum requirement:
- 26. Volume Preset Time Cycled Ventilation or Volume Control.
- 27. Manual and spontaneous.

# 9 Assor Raw

- 28. Pressure Mode (PCV).
- 29. Synchronized pressure controlled ventilation (SIMV-PC).
- 30. Synchronized volume controlled ventilation (SIMV).
- 31. PS with apnea back up.
- 32. Breathing Mode Selection (Standby, Volume, Spontaneous and Pressure).
- 33. Built in Oxygen Monitor.
- 34. Inverse 1:E ratio Capability.
- 35. Gas Specific Input Connectors (Air or Oxygen ISO or ANSI Standards).
- 36. Tidal Volume 05-1400 ml or better in any ventilation mode.
- 37. Rate or Frequency 4 to 80 bpm or better.
- 38. PEEP: off, 4 to 20 cmH2O or better.
- 39. Inspiratory Pressure Limit.
- 40. Pressure, Volume and O2 curves.
- 41. Spirometer loops for volume, pressure and flow.
- 42. Oxygen or Electrically Driven.
- 43. Power Supply 220 VAC, 50 Hz.
- 44. Built-in Battery Backup (60 Minutes or more).
- 45. Low or High FiO2 Alarm.
- 46. Numeric value or graphically representation of inspired and expired tidal volume.
- 47. Incorrect Rate or Ratio alarm.
- 48. Mains power failure alarm.
- 49. Low battery alarm.
- 50. Oxygen Senor: Paramagnetic Technology (Non consumable).
- 51. Electronic hypoxic function.
- 52. The ventilator shall be supplied with complete drive hose and power cable.
- Capability to detect oxygen during self-test mode.
- Transfer of Data & log book to external storage media through USB port or equivalent printable format.
- 55. Patient ventilation module or breathing system should be auto cleavable.
- 56. Cardiac bypass mode or HLM.
- 57. Note: Annual maintenance kits (needs to replace) will be included in the warranty period as per manufacturer's guidelines.

#### **VAPORIZER:**

- Two pre calibrated Vaporizers of Isoflurane & Sevoflurane vaporizer (or by choice), temperature and flow compensated.
- 59. The vaporizer should have the compatibility certificate with quoted anesthesia machine.

#### MONITORING:

- 60. Modular Vital sign monitor with transport module.
- 61. Display size of transport module minimum 3.5" touch screen with one hours' built-in battery backup.
- 62. Size of main display minimum 17" touch screen or more for monitoring of vital sign parameters of Neonates, Peads and adults.
- 63. Measurement of ECG 5 or 6 leads.
- 64. NIBP with re-usable single hose cuff for neonates, Peads and Adults.
- SpO2 (Massimo Technology or Equivalent motion tolerant technology) with re-usable cable and sensors for neonates, Peads & adult
- 66. HR.
- 67. Temperature with nasal and skin probe.
- 68. Respiration.
- 69. Four Channel IBP.
- 70. Trend data 72 hours or more.

A Mor Row

- 71. Printer module for printing waveforms and patient data.
- 72. Anesthetic Agent, CO2, O2 and N2O Monitoring (With monitor or within Anesthesia Machine) along with Gas consumption and uptake data.
- 73. Monitoring of xMAC or MAC value. (With monitor or with in the anesthesia machine).
- 74. EtCO2 main or side stream (Complete with all sensors probes, reusable).
- 75. Provision of communication port for sharing and transfer of data to HIMS or HIS through HL7 protocol.
- 76. 220V, 50 Hz operated.
- 77. Built-in or Integrated battery backup or online pure sine wave UPS with dry batteries for at least 60 minutes.
- 78. Note: Vital sign Monitor must be supplied by the same manufacturer and shall capable to interface with machine.
- 79. The warranty of equipment will be including batteries, all kinds of filters and flow sensor. ACCESSORIES OF ANESTHESIA VENTILATOR:
- 80. Power outlet with 3 or 4 socket outlets to connect the auxiliary equipment.
- 81. CO2 absorber 700 1,500 gm or better complete with valve for bag or ventilator.
- 82. Re-Usable Silicon Autoclave able breathing circuit (Adult, Pediatric and Infant 01 each)
- 83. Mounts and Y-piece.
- 84. Hinge arm for breathing circuit
- 85. Additional breathing hose and connector with 01 adult & 01 pediatric and infant bellows. (Only provide with bellow based machine) or Universal bellow
- 86. 2 x O2 and 2 x N2O pin index cylinders (Should be provided locally along with test certificate from approved Gas supplier).
- 87. Breathing bags 0.5, 1.0, 1.5, 2 & 3 L
- 88. Water-lock or water-trap (QTY-05).
- 89. Sample lines (QTY-10).

#### MONITORING ACCESSORIES:

- 90. 2 X NIBP Cuffs for Adult, infant and Peads (one each)
- 91. 2 X Spo2 probes for Adult, infant & Peads (one each)
- 92. 2 X Temperature probes (Nasal & Skin).
- 93. 2 X ECG Leads.
- 94. 2X Four Channel IBP leads.
- 95. EtCO2 sensor or module.
- 96. 4 x printing paper roll.

#### **OPTIONAL ITEMS**

- 97. NIRS (Near Infra-Red Spectroscopy unit for Cerebral Pulse Oximetry for pediatric patients.
- 98. Complete with main unit with monitor and sensors including disposable head sensor or probe (Qty. 50 Nos.)
- 99. 12 lead ECG option.
- 100. NMT Neuro muscular transmission.
- 101. BIS Monitoring.
- 102. Cardiac Output module or monitor.
- 103. Patient Date Management: o Remote view of patient data through web-based application.
- 104. Patient data should be managed as pdf reports.
- 105. Online pure sine wave UPS backup of 60 minutes for complete workstation.
- 106. The warranty of equipment will be including (System & UPS batteries), all kind of sensors and flow sensor.

## WARRANTY:

5 years comprehensive warranty.

J Har Ray

Establishment of Pedlatric burn center PC/679/CH&UCHS: Dated 3-1-2024 after prebid final version

## PPM and maintenance kits;

Should provide the complete list and parts need to be replace during warranty period as per recommendation of manufacturer along with Documents. Mandatory to calibrate the equipment during warranty period will be the ultimate responsibility of firm to conclude the warranty.

# COUNTRY OF MANUFACTURER/QUALITY CERTIFICATIONS:

USA/ EUROPE / JAPAN/Dual Certification is mandatory.

J Ayara

#### Establishment of Pediatric burn center PC/679/CH&UCHS: Dated 3-1-2024 after prebld final version

Serial No	2B		
Estimated Unit Cost	11,035,200	Quantity	01
Generic Name	ANESTHESIA WORKSTATION (LOW END)		
Clinical Purpose	The anesthesia workstation is used by anesthesiologists to support the administration of anesthesia. The anesthesia machine is designed to provide an accurate and continuous supply of medical gases (such as oxygen and nitrous oxide), mixed with an accurate concentration of anesthetic agents (such as Iso and Sevo), and deliver this to the patient at a safe pressure and Flow. Additionally, machines incorporate a ventilator and patient monitoring devices.		

#### TECHNICAL SPECIFICATIONS

- 1. Mobile type (To be specified by the procuring agency and the end-user).
- Anesthesia machine to administer anesthetic agents in precise control and flow manner for Adult and pediatric patients.
- 3. Provision of 3-gases O2, N2O and Air.
- 4. It must comprise of the following components
- 5. Non-interchangeable pipeline inlets.
- 6. Pipeline & cylinder gauges for O2, N2O and Air.
- 7. Central gas or electrically driven unit.
- 8. Pin index cylinder yokes for Oxygen & N2O (One each), as backup.
- 9. Gas outlet and O2 flush control.
- 10. 1 auxiliary O2 outlet.
- 11. Two Lockable castors or central brake.
- 12. Stainless steel or fiber work surface.
- 13. Absorber bag support arm.
- 14. Three gas flow meters for precise control and monitoring of gases.
- 15. Drawer unit 4-6" high (Only for trolley version machine).
- 16. Scavenging system Passive or Active type.

#### ANESTHESIA VENTILATOR:

- 17. Anesthesia Ventilator with minimum 10" or more color LCD or TFT Screen.
- 18. The ventilator shall be capable of ventilating adult and pediatric patients.
- 19. The ventilator shall have following features as a minimum requirement:
- 20. Volume Preset Time Cycled Ventilation or Volume Control.
- 21. Pressure Controlled Ventilation.
- 22. SIMV Mode
- 23. Pressure Support
- 24. Breathing Mode Selection (Standby, Volume, Spontaneous and Pressure).
- 25. Built in Oxygen Monitoring.
- 26. Inverse I: E ratio Capability.
- 27. Gas Specific Input Connectors (Air or Oxygen ISO or ANSI Standards).
- 28. Tidal Volume from 20ml to 1400ml or better in any ventilation mode.
- 29. Rate or Frequency 4 to 60 bpm or better.
- 30. PEEP (off, 4 to 20 cm H2O) or better.
- 31. Inspiratory Pressure Limit.
- 32. Power Supply 220 VAC, 50 Hz.
- 33. Built-in Battery Backup (60 Minutes or more).
- 34. Low or High FiO2 Alarm.

# A Kyor Ra

- 35. Incorrect Rate or Ratio alarm.
- Mains Failure alarm.
- 37. Low battery alarm advance indication.
- 38. Hypoxic device function.
- 39. Spirometry (Loops) or curves of Pressure and Volume.
- 40. High and Low pressure alarm.
- 41. The ventilator shall be supplied with complete drive hose and power cable.
- 42. Note: Annual maintenance kit (needs to replace) will be included in the warranty period as per manufacturer's guidelines.
- 43. The warranty of equipment will be including batteries, oxygen sensor and flow sensor.

#### VAPORIZER:

- 44. Two pre calibrated Vaporizers of Isoflurane & Sevoflurane vaporizer, temperature and flow compensated.
- 45. Manufacturer should provide compatibility certificate of machine and vaporizers.

#### **MONITORING:**

- 46. Vital sign monitor.
- 47. Size of minimum 12" or more for display of vital sign parameters.
- 48. Measurement of ECG 3 or 5 leads.
- 49. NIBP, SPO2 and HR measurements.
- 50. Temperature with nasal probe.
- 51. Respiration.
- 52. EtCO2 (main or side stream).
- 53. Dual Channel IBP.
- 54. 220V, 50 Hz operated.
- 55. Printer for printing waveform and patient data.
- 56. Trend data: at-least 72 hours.
- 57. Built-in Battery backup two hours.
- 58. Note: Vital sign Monitor must be supplied by the same manufacturer and shall capable to interface with machine.

## ANESTHESIA ACCESSORIES:

- 59. Power outlet with 2 or 3 or 4 socket outlets to connect the auxiliary equipment.
- 60. CO2 absorber 800 1,500 gm or better complete with valve for bag or ventilator.
- 61. Breathing bags.
- 62. Hinge arm for patient circuit.
- 63. Re-Usable Silicon Autoclave able breathing circuit (Adult and Peads 01 each)
- 64. Mounts or Y-piece.
- 65. Additional breathing hose and connector with 01 adult & 01 pediatric bellows. (Only provide with bellow based machine) Or Universal bellow.
- 66. 2 x O2 and 2 x N2O pin index cylinders (Should be provided locally along with test certificate from approved Gas supplier).

#### MONITORING ACCESSORIES:

- 67. 2 X NIBP Cuffs for Adult and Peads (Two each)
- 68. 2 X SPO2 probes for Adult & Peads (Two each)
- 69. 2 X Temperature probes.
- 70. 2X IBP Leads.
- 71. 2 X ECG Leads.
- 72. 2X ECG electrodes.
- 73. EtCO2 Sensor or module.
- 74. 4 x printing papers roll.

J My Row

Establishment of Pediatric burn center PC/679/CH&UCHS: Dated 3-1-2024 after prebid final version

## WARRANTY:

f"

3 years comprehensive warranty including all parts and consumables

## PPM and maintenance kits;

Should provide the complete list and parts need to be replace during warranty period as per recommendation of manufacturer along with Documents. Mandatory to calibrate the equipment during warranty period will be the ultimate responsibility of firm to conclude the warranty.

# COUNTRY OF MANUFACTURER/QUALITY CERTIFICATIONS:

USA/ EUROPE / JAPAN/Dual Certification is mandatory .

g Haka

Serial No	2C			
Estimated Unit Cost	2,207,040 Quantity 02			
Generic Name CEILING MOUNTED ANESTHESIA PENDANT				
Clinical Purpose	working area, integrating a	Anesthesia pendant is applied in operating rooms. It is used to set up anesthesia working area, integrating anesthesia machine. It provides convenience of anesthesia operation to the greatest extent.		

- Ceiling mounted Anesthesia Pendant system should be powder coated, hygienically smooth surface, impact and disinfectant resistant.
- 2. Shelves 3 or 4 pcs
- 3. Drawer 1 or 2 Pcs
- 4. No. of Arms: 02
- 5. Length of first Arm 1000 mm
- 6. Length of second arm 750-800 mm
- 7. Max. Degrees of Rotation at each arm 300° or better(max)
- 8. Loading capacity: 180 kg 200 kg or better (Motorized Uplifting arm to lift the anesthesia machine as per compatibility)
- Braking system: Electromagnetic or Electric or pneumatic brakes to control horizontal movement. •
   Electrical Sockets British Standard 16 to 20 Pcs
- 10. LAN Data ports RJ45 or equivalent for PC 2 Pc
- 11. Oxygen Outlet: 2Pcs
- 12. Medical Air 4 Bar 2 pcs
- 13. Vacuum Outlet: 2 pcs
- 14. Nitrous Oxide Outlet 2 pcs
- 15. AGSS Out let 2 PCS (Active AGSS)
- 16. I.V Pole- 1 PC
- 17. Basket for Accessories.

#### WARRANTY:

5 years comprehensive warranty including all parts and consumables

#### **COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

J Knoka

Serial No	3			
Estimated Unit Cost	5,000,000	Quantity	02	
Generic Name	ELECTRO-HYDRAULI TABLE	ELECTRO-HYDRAULIC/ELECTRO-MECHANICAL OPERATION TABLE		
Operating Tables used to conduct the different kind of surgical interventions of patients, the dedicated tables provide all the positions required by the surgeon				

- 1. Weight bearing capacity of 250kg or more.
- 2. 5 Sectional operation Table with two leg section.
- 3. Table top equipped with radiolucent material.
- 4. The mattress covers with washable, antistatic material.
- 5. X-ray Cassette holder for X-Ray and C-Arm facility Sliding table top at least 250mm or more
- 6. Electric Height adjustment: 730 to 1000 mm or more.
- 7. Electric Trendelenburg and Reverse Trendelenburg: 25° degree and -25° or better.
- 8. Electric lateral tilt: 30° degree and -30° degree or better.
- 9. Manual or electric backrest adjustment:70° degree and -15° degree or better. (Both are acceptable)
- 10. Manual leg section adjustment: 20° degree and -90° or better. 220-230 V, 50 Hz.
- 11. Hand control unit. Override panel in the column or Wireless remote for back up control in emergency cases.
- 12. Battery backup control of table in case of main power failure.

#### **ACCESSORIES:**

- 13. Pair of Arm rest with clamp
- 14. Anesthesia screen
- 15. Large width body strap
- 16. Adjustable bottle holder rod
- 17. Shoulder support
- 18. Pair of Knee Crutches.
- 19. Lateral Support
- 20. Note: PPM kits for 5 year will be provided as per manufacturer Recommendation.

#### WARRANTY:

5 years comprehensive warranty including all parts and consumables

And By Ander Law



## PPM and maintenance kits:

Should provide the complete list of part needs to be replace during warranty on as per recommendation of manufacturer along with Documents.

## COUNTRY OF MANUFACTURER:

USA/ EUROPE / JAPAN

y of february

Serial No	4		
Estimated Unit Cost	3,000,000	Quantity	02
Generic Name	CEILING OT LIGHT DOUBLE HEAD		
Clinical Purpose  OT Light is a medical device intended to assist medical personnel during a sprocedure by illuminating a local area or cavity of the patient.			

- 1. LED shadow less operation theatre ceiling light, hermetically sealed dust proof.
- 2. Adjustable light intensity 160000 LUX at 1 meter distance.
- 3. Satellite combination of 160000 LUX at 1 meter.
- 4. Color temperature 4000°-4500° Kelvin.
- 5. Electronic control panel for light Parameter's adjustment.
- 6. Color rendition index of 96 or more.
- 7. LED life 50,000 hours or better.
- 8. Autoclavable handles.
- 9. Operating Voltage 220V, 50Hz.

#### WARRANTY:

5 years comprehensive warranty including all parts and consumables

## PPM and maintenance:

Annual PMM and check of light intensity and replacement of LED after 50,000 Hr is the responsibility of firm during warranty period.

## **COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

& By How Lan

Serial No	5			
Estimated Unit Cost	336300/-	Quantity	20	
Generic Name	Pulse Oximeter Bed side			
Clinical Purpose	saturation of a patient's ble	saturation of a patient's blood (as opposed to measuring oxygen saturation directly through a blood sample) and changes in blood volume in the skin, producing a		

- Non-invasive measurement of oxygen saturation and pulse rate with LCD screen. Desktop unit.
- 2. Display of oxygen saturation and pulse rate.
- 3. Oxygen saturation measurement range from 0 -100%.
- 4. Pulse strength perfusion indication
- 5. Capability of Plethysmography.
- 6. Pulse rate measurement from 30-250 bpm.
- 7. Visual and audible indication of alarms.
- 8. Built-in battery backup 05 hours.
- 9. High and low alarms settings. Power of 220 V, 50 Hz.

#### Accessories:

Reusable Peadtrics SPO2 probe with sensor Quantity-04. (Infant 2, Adult 1)Reusable

## **WARRANTY:**

5 years comprehensive warranty including all parts.

## **COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

J Mrw Rw

Serial No	6			
Estimated Unit Cost	454,677	Quantity	25 Syringe Pump + +08Docking Station	
Generic Name	Syringe Pump with dockin	Syringe Pump with docking station.(item 6 and 7 as package)		
Clinical Purpose		Syringe pumps will capable to deliver fluids and medicines into a patient body in controlled manner (Time, Rate & Volume) through various sizes of Disposable Syringes.		

- 1. Syringe pump for fluid administration.
- 2. Flow Rates: 0.1 -900 ml/hr. (Approx.)
- 3. Bolus rate: 0.1 to 1200 / hr.
- 4. LCD display of set parameters
- Universal Syringe acceptance capability for disposable, Plastic, Size, 5, 10, 20, 50, 60 ml
   Drive Accuracy. ±3%
- 6. Display of drug name, Infusion rate, infused volume and volume to be infused.
- 7. Set Automatic adaptation of controls according to syringe /infusion set.
- 8. Quick freed/rapid infusion facility/bolus
- 9. KVO Functions (Keep vein open)
- 10. Data event log
- Safety alarm & indicator: Occlusion pressure alarm, end of infusion, loose syringe alarm, low battery, and technical malfunction alarm.
- 12. Rechargeable battery and mains operated 220V, 50Hz
- 13. Battery backup 3 hours or more.

#### **ACCESSORIES**

System should be supplied with complete accessories.

15 Local Stand with 5 Wheel for firm rip and load bearing

Compatible docking stations (For minimum 03 syringe pumps Qty<del>10</del> 8)

## **WARRANTY:**

5 years comprehensive warranty including all parts and consumables

## **COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

A D Winger

Serial No	7			
Estimated Unit Cost	169,500	Quantity	21	
Generic Name	Infusion Pump,(item 6 and	Infusion Pump,(item 6 and 7 as package)		
Clinical Purpose	controlled manner (Time,	Infusion pumps will be capable to deliver fluids into a patient body in controlled manner (Time, Rate & Volume). Infusion pumps are designed mainly for stationary use at a patient's bedside.		

- 1. Operates on any brand of infusion set.
- 2. Automatic control of infusion rate independent of venous or arterial pressure
- 3. Bolus function.
- 4. Air bubble detector.
- 5. Automatic pressure release after occlusion.
- 6. Automatic switchover to keep-vein-open (KVO) rate of 1.0 ml/hr.
- 7. Compatible with commonly available Infusion sets.
- 8. Light indicates main or battery operation
- Detects a "no flow" situation i.e. empty container DISPLAY:
- 10. LED/LCD digital display which indicates flow rate
- 11. Infused volume
- 12. Volume to be infused
- 13. Volume balance
- 14. Infusion time
- 15. Remaining time
- 16. Battery capacity
- 17. Occlusion level

#### INFUSION RATE:

18. 0.1-999.9 ml/hr in 1 ml increments

#### INFUSION TIME:

19. 99 to 95 hours

#### **AUTOMATIC RATE CALCULATION:**

20. On total volume + time.

#### ACCESSORIES

- 21. System should be supplied with complete accessories.
- 22. IV pole 5 wheels with firm grip and stability of Pump.

#### WARRANTY:

5 years comprehensive warranty including all parts and consumables

## COUNTRY OF MANUFACTURER:

USA/ EUROPE / JAPAN

And of What on

Serial No	8									
Estimated Unit Cost	1,614,000 Quantity 3									
Generic Name	DEFIBRILLATOR									
Clinical Purpose	Defibrillators are devices that restore a normal heartbeat by sending an electric pulse or shock to the heart.									

- 1. Biphasic Transthoracic (External) Defibrillator.
- 2. LCD color display with Screen Size of approx. 5 inches or better
- 3. Synchronized output with ECG.
- For External Defibrillation Energy Selection & Delivery on Control Panel and / Or External Paddles.
- 5. For Internal Defibrillation Energy Selection on Control Panel and / Or Internal Paddles and Delivery must be on Internal Paddles.
- 6. Charging Indicator
- 7. The energy range should be adjustable for Neonates, Paeds and Adults up to 200 Joules or better
- 8. Charging Time for full energy should be less than 6-7 seconds
- 9. Display of HR, ECG through paddles and Lead I, II & III patient cable
- 10. Built-in recorder for printing of full summery on standard 50 mm paper
- 11. Alarms for High and low Heart rate, low battery warning
- 12. Auto Tester / Self-Check
- 13. External Paddles (Adult and Paeds)
- 14. AED Facility with Cable
- 15. Pacing Facility
  Other Parameters:
- 16. Operating Requirement: AC 220 V & 50 Hz
- 17. Built-in Rechargeable battery with charger for minimum 100 shocks at maximum energy Accessories:
- 18. Complete with all Standard Accessories.
- 19. External Pedal (Peads and Adult).
- 20. Original LocalTrolley with antistatic castors / wheels and all precautionary measures applicable.

#### **Optional Mandatory To Quote:**

- 21. EtCO2
- 22. SpO2
- **23. NIBP**
- 24. Pacing / Defibrillation Pads (Reusable 1 / Disposables 3)
- 25. External paddles for adult and pediatric are required.
- 26. Pacing Defib disposable paddles Qty 3/each.
- 27. Local trolley is required which ensured the safety of defibrillators

#### WARRANTY:

5 years comprehensive warranty including all parts and consumables

#### **COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

J of Know Kon

Serial No	9									
Estimated Cost	1,500,000 Quantity 3+18									
Generic Name	INVASIVE &NON INVASIVE MONITOR									
Clinical Purpose	that allows for the monito such as Cardiac Rhythm,		· · · · · · · · · · · · · · · · · · ·							

- 1. Bedside Monitor to display vital signs and other parameter for Adult and Paeds
- 2. Screen Size: At least 12" diagonal (Touch Operated) or better with non-fade LCD / TFT LCD / LED color display.
- 3. Electro-Surgical Interference Suppression / Protection
- 4. Defibrillator Protection
- 5. Freeze and Cascade Facility
- 6. Waveform: Six wave forms or more
- 7. Waveform Traces Speed: 25 & 50 mm / sec Parameters:
- 8. ECG
- 9. Numeric: Heart Rate
- 10. Real Time, and freeze ECG Trace Non-Invasive Blood Pressure (NIBP):
- 11. Method: Oscillometric Principle
- 12. Numeric: Systolic, Diastolic, and Mean Pressure
- 13. Selectable auto inflate interval settings
- 14. Rising Cuff / Continuous Pressure Display
- 15. Invasive Blood Pressure (IBP)(Quote for 3 systems invasive Monitor)
- 16. IBP Two Channel.(Quote for 3 systems invasive Monitor))
- 17. Side Stream / Mainstream Capnography (EtCO2) (Quote for 3 systems invasive Monitor))

#### Temperature:

- 18. Numeric: Temperature selectable in °C / °F Pulse Oximetry:
- 19. Numeric: 0 100% oxygen saturation measuring range
- 20. Waveform-Plethysmograph Pulse with Pulse Strength Indication Arrhythmia Analysis:
- 21. Arrhythmia Analysis and ST Analysis Respiration:
- 22. Breath Rate display and settable apnea alarms
- 23. Sweep Speed: 6.25, 12.5 mm / sec or better Other Features:
- 24. Trend Data: Graphical / Tabular with at-least 48 hours' back-up or better

#### Alarms

- 25. High & Low (settable) on all parameters
- 26. Visual and audible indication of alarms Other Parameter:
- 27. Operating Requirement: AC 220 V & 50 Hz
- 28. Built-in rechargeable battery for fully operational back-up for at least 1.5 2 hours or online pure Sinewave UPS (imported) with fully operational back-up for at least 2 hours or better (Batteries included in warranty):

#### Communication

28. Capability to interface with LAN / WLAN for data transfer.

J J Knorka

Accessories for each Units.

BP cuff (1 Adult ,2 Pends)

2X NIBP CUFFS

3X SPO<sub>2</sub> probe with Sensor.(2 INFANT, 1 ADULT)

2X IBP Leads

5X IBP transducer (Only for Invasive Monitor)

2X EtCO2(Only for Invasive Monitor 1x)

Note: Same specification will be used for Non Invasive Monitor by Excluding point (15,16 & 17). It is mandatory to quote technical offer of both monitors separately in a single bid, and financial offer as well Competition will be based on collective prices.

## WARRANTY:

5 years comprehensive warranty including all parts and consumables

## **COUNTRY OF MANUFACTURER:**

USA /EUROPE/JAPAN.

of Murkow





Control by the Control of the Contro	SPECIFICATION OF MEDICA	l equipment/instruments
Clinical Specialty	PEDIATRIC PLASTIC SU	RGERY
Generic Name	Nebulitet	aty. 11 Mar.
Clinical Purpose	form of a mist inhaled wave nebulizer is to hi frequency ultrasonic w piezoelectric element.	elivery device used to administer medication in the into the lungs. The technology inside an ultrasonic over an electronic oscillator generate a high vave, which causes the mechanical vibration of a This vibrating element is in contact with a liquid requency vibration is sufficient to produce a vapor

For nebulication of respiratory tracts.

- Hospital grade for continuous operation.
- Ultrasonically generated uniform and highly dense particles of 0.5-5 microns size.
- ▲ Approximately 65-70% of particles of less than 4 micron size.
- Autoclave able delivery pipes.
- Air flow of 10 L/min.
- Aerosol heating facility
- Quiet operation with noise level of less than 40dB.
- Nebulizing time setting from 0-30 min.
- Medication cup capacity: 150 ml.
- ♣ Power of 220 Volts / 50 Hz.
- One extra Flexible arm/ delivery pipe/masks (all sizes).
- ▲ Complete with bacteria filter

Accessories:

Warranty:

One Year Standard Warranty

you Rav

DE M. ASLAM RAC MARKET PROTECT AND VOIC DESCRIPTION OF THE PROCESSION OF THE PROTECT OF THE PROT ( }

ETR. WASEEM HUMAYOUN tettels, Witte, ME (Plustic) Assessor Professor Plustic & Racamerucities Eurgery Eta Chileran's Mosaffal, Labora

14- Rav.

R\_

Serial No	11 (A,B,C,D)		
Estimated Cost	15,247,286	As Per BOQ	
Generic Name	MEDICAL GAS PIPELI	NE SYSTEM	
Clinical Purpose			

The Medical gas Pipe line should strictly comply with the international standards and configuration for requirements of HTM 2022 or latest, however, ISO 7396-1 or latest can also be used. It would be the choice of the bidder for adherence to any standard which would be mentioned in the bid. The objectives are to ensure the following:

- a) Non-Interchangeability Between Different Pipeline Systems By Design;
- b) Continuous Supply Of Gases And Vacuum at Specified Pressures By Providing Appropriate Sources;
- c) Required Flow Rates In Particular Areas/ Outlets;
- d) Use Of Suitable Materials;
- e) Cleanliness Of Components;
- f) Correct Installation;
- g) Provision Of Monitoring, Controls and alarm at single site.
- h) Correct Marking Of The Pipeline System;
- i) Following Of Testing And Commissioning Protocols;
- j) Maintaining The Purity Of The Gases Delivered By The Pipeline System;
- k) Correct Operational Management.

BOQ:

List Attached.

#### WARRANTY:

3 years comprehensive warranty including all parts and consumables

## **COUNTRY OF MANUFACTURER:**

USA /EUROPE/JAPAN.

J Mulu

	- 1	
	-	
-	3 <b>(</b>	D

Serial No	11 (A,B,C,D)	11 (A,B,C,D)											
Estimated Unit Cost	15,247,286 Quantity 22												
Generic Name	BED HEAD UNIT FOR V	VARD											
Clinical Purpose	To provide a comprehensive solution of medical gasses and power supply at on panel.												

- 1. Each unit consists of: 1,000 mm and above
- 2. Horizontal type
- 3. Built in over bed Light with ON/OFF switch.
- 4. Built in reading Light, with ON/OFF switch.
- 5. Provision for Nurse Call/ Alert Button
- 6. Gas outlets (1x Vacuum, 2x Oxygen) with complete fitted point should from USA, EU and Japan. Electrical provisions.
- 7. Electrical sockets: 4 Nos. of Multi Pin Plug.
- 8. All wiring conforms to standards, ground/earth.
- 9. Electrical & Gas Pipes should be separate as per standard.
- 10. Base should be 2 mm or more.

## WARRANTY:

3 years comprehensive warranty including all parts and consumables

## COUNTRY OF MANUFACTURER:

Local

\$ 9 Aur Raw

## Establishment of Pediatric burn center PC/679/CH&UCHS: Dated 3-1-2024 after prebid final version

Serial No	11 (A,B,C,D)	11 (A,B,C,D)										
Estimated Unit Cost	15,247,286	15,247,286 Quantity 8										
Generic Name	BED HEAD UNIT FOR	ICU										
Clinical Purpose	To provide a comprehensive panel.	To provide a comprehensive solution of medical gasses and power supply at on panel.										

#### TECHNICAL SPECIFICATIONS

- 1. Each unit consists of: 1,500 mm and above
- 2. Horizontal type with railing
- 3. Built in over bed Light with ON/OFF switch
- 4. Built in reading Light with ON/OFF switch.
- 5. Provision for Nurse Call/ Alert Button
- 6. Gas outlets (1x Vacuum, 1x Air, 3x Oxygen complete fitted), with complete fitted point should from (USA, EU and Japan).

## **Electrical provisions**

- 7. Electrical sockets: 6 Nos. of Multi Pin Plug and 2 Nos. of German standard.
- 8. All wiring conforms to standards, ground/earth.
- 9. Electrical & Gas Pipes should be separate as per standard.
- 10. Base should be 2 mm or more.

## WARRANTY:

3 years comprehensive warranty including all parts and consumables

#### ORIGIN:

LOCAL.

& J purker

Serial No	11 (A,B,C,D)										
Estimated Cost	15,247,286	15,247,286 Quantity 30 +30									
Generic Name	VACUME REGULATOR	& OXYGEN FLOW ME	ΓER								
Clinical Purpose											

## VACUUM REGULATOR WITH GAUGE / DIGITAL

- 1. The Vacuum Controller should be connected to Wall Source of Vacuum using direct probe or rail mounting System.
- 2. Vacuum Levels 0 to 750 mm Hg complete with 1 Liter suction Bottles, Unbreakable/ Autoclave able.
- 3. Complete with overflow safety system.

#### **OXYGEN FLOW METER**

- 4. Wall mounted oxygen flow meter
- 5. Flow range: 1-15 LPM
- 6. Minimum flow rate starting at 1 LPM
- 7. Complete with unbreakable and autoclavable polycarbonate humidifier bottle

## WARRANTY:

1 year comprehensive warranty including all parts and consumables

#### **COUNTRY OF MANUFACTURER:**

USA /EUROPE/JAPAN.

of Adarken

# Burn Canter Children Hospital Lahore

BOQ

	ourth Floor	No.	Pend	iants	BH	u	NO 01	168	MIN	AL UN	118	VALV	f bo	XES	Alarm Pannel		o	2		N;	10		М	۸4				VA	c		ĄĢ	155
40	ROOM	OF BEDS	Anesthesia	Surpeon	MMGGST	PUNCOOL	В	Š	3474	XX	1635[7]	×	R	A	3	N N	12	Sam	1	Maria	1	1		15cm	17	The state of	Namm	King King		1Seam	Chum	L'Smm
	Pediatric Ward	7				7	14			7	Jan y	1			1			120	140	1	0	-			0		200000	7	170	70	and affect to	0
	Ward hydro room	1					1			2	_							50	10		0	~ ~ ~			0				50	20		0
	Ward hydro room	2				2	2			2								40	20		0		1000		0		posterior and a second		49	20	-	0
	Ward	8				8	16			8		1			1			120	160		0	100000	1200000		0		2		120	80	10000	0
5	Burn ICU	8			8		16		16	. 8			,					150	160		0	1.200000		150	160				150	80		0
6	ICU hydro room	1					2		1	2			•					60	20		0	1	2-11-11-1		10				60	20		0
7	Burn HDU	5				5	10		5	5		,						100	100		0	STATE OF THE PARTY	Seed and	100	50				100	50		0
8	HDU hydro room	1					1			1		'						40	10		0	1 200 000 40			0	. 100 100 100			40	10		0
9	Burn OT	0					0	0	0	0	0			0	0				0		0		2002		0	The Control			Color Continue	0		0
10	Pre OP	2					2		0	2		,			,			70	20		0			70	0				70	20		0
11	Post OP	3					3		3	3		,			,			70	30	1000 1002	0			70	30		75.55		70	30		0
12	Riser Valve /PIPE				-			-								100	400000	inexp Tools	0	-	0	100			0	100	Language Control		Part of the same	0	-	0
13	Mainline piping																400		0		0		400		0		200	200		0		
	Total	38	0	0	8	22	67	0	25	40	0	5	1	0	6	100	400	820	670	0	0	100	400	390	250	100	200	200	820	400	0	0

		LEGEND
1	BHU	BED HEAD UNIT
2	AVSU	AREA VALVE SERVICE UNIT
3	AAP	AREA ALARM PANNEL
4	02	OXYGEN
5	NZO	NITROUS OXIDE
6	MA4	MEDICAL AIR 4 BAR
7	AGSS	Anesthesia Gas Scavanging System
8	SA7	SURGICAL AIR 7 BAR
9	VAC	VACUUM
10	LPM	LITRE PER MINUTE
11		THREE GASSES

7 9 Muchon

Serial No	12									
Estimated Unit Cost	403560	Quantity 1								
Generic Name	ECG									
Clinical Purpose Electrocardiography (ECG) is the process of recording the electrical activity heart over a period using electrodes placed on a patient's body.										

- 1. Six Channels ECG on at least 3 5 inches LCD display or better
- 2. Display of six channel ECG simultaneously
- 3. Manual and Automatic Operation
- 4. Variable Gain: 1/2, 1, 2 cm / mV
- 5. Interpretation Software both Adult and Paeds
- 6. Recording Trace speed: 10 / 12.5, 25 and 50 mm / sec
- 7. Muscle artifact and AC (50 Hz) interference filters
- 8. Defibrillator Protection
- 9. Built-in battery operation with 60 mins standby backup or better / Can acquire and prints 15 ECGs without recharging
- 10. Paper Size: 100 110 mm or larger
- 11. Noise Filter and Baseline Correction
- 12. Capability to interface with LAN / WLAN for data transfer
- 13. Thermal Recorder for printing out of Six Channels simultaneously
- 14. Paper Rolls / Z Folds / Recording Papers: Quantity = 10 (Each Roll Length minimum 20 meters) 15. Operating Requirement: AC 220 V & 50 Hz 16. Securing / fixation to the mobile Cart by strap or other means must be provided

#### Accessories:

Complete with all Standard Accessories, including patient cables for Pediatrics

Reusable electrode, limb electrode and leads 2 sets.

Disposable sticking electrodes QTY 100

Operational & Service Manual

Dedicated ECG Mobile Cart (Local)

#### WARRANTY:

3 Years comprehensive warranty including all parts and consumables.

#### **COUNTRY OF MANUFACTURER:**

#### USA/EUROPE/JAPAN

of Adurkan

Serial No	13	13											
Estimated Unit Cost	1883280 Quantity 2												
Generic Name	HIGH END ELECTROS	URGICAL UNIT											
Clinical Purpose	Electrosurgical Machine is used to cut, congulate and desiccate the biological tissues.												

- 1. Microprocessor based electrosurgical 4 units for normal and under water cutting usages.
- 2. Automatic self-test function.
- 3. Operation in radio frequency range.
- 4. Controls for cutting, coagulation, spray and blends.
- 5. Monopolar cutting power of 350 watts or more with change of 05 watts or less increment.
- 6. Bipolar cutting power of 120 watts or more.
- 7. Mono polar coagulation power of 120 Watts or more.
- 8. Bipolar coagulation power of 100 Watts approx.
- 9. Spray coagulation mode.
- 10. Different gradations of blending of cutting and coagulation power.
- 11. Touch Screen Display of all controls and set values of cutting and congulation power, error messages etc.
- 12. Audio and visual alarms, 220V, 50 Hz.

#### ACCESSORIES FOR EACH SET:

- 13. 3X Monopolar handle with cord.
- 14. 3X Bipolar forceps with cord.
- 15. 1X Trolley having anti-static lockable wheels.
- 16. Attachment for monopolar coagulation.
- 17. 6X Knife electrode.
- 18. 6XSurgical electrode, ball-shaped.
- 19. 6XWire loop electrode.
- 20. 6X Needle electrode.
- 21. 6X Ball electrode.
- 22. 6X Bipolar coagulation forceps.
- 23. 1X Reusable silicon patient plate.
- 24. 2X Double paddle foot switch, explosion proof.

## **WARRANTY:**

5 years comprehensive warranty of all parts including consumables

## **COUNTRY OF MANUFACTURER**

Local

My Myukan

Serial No	14			
Estimated Unit Cost	58258	Quantity	8	
Generic Name	MAGNIFYING OPERA	MAGNIFYING OPERATING LOOPS		
Clinical Purpose	Use in fine surgery especially surgery on nerves, tendons and small vessels.			

#### TYPE A

Binocular alilean loupes with fatigueless view.

Magnification: 2.5x - 3.0xWorking distance: 550-300 mm. Field of view: 115-70 mm.

Titanium or sport frame designed specifically to use with loupes in different colors.

## WARRANTY:

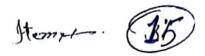
1 Years comprehensive warranty including all parts and consumables.

## **COUNTRY OF MANUFACTURER:**

USA/EUROPE/JAPAN

Joseph Rever Raw





	SPECIFICATION OF MEDICAL EQUIPMENT/INSTR	UMENTS	
Clinical Specialty	PEDIATRIC PLASTIC SURGERY		
Generic Name	K wire driver	02	
Clinical Purpose	Used for correction of contractures by intro- bones.	n of contractures by introducing wires and rearranging	

- Light weight handle to be precisely captured like a pen or pistol.
- Cannulated for use with multiple wire lengths.
- K-Wire driver operating speed: 300 RPM or more.
- Smooth K-wires with wire guide between 0.75mm 2.0mm or more in dia.
- Automatic grip mechanism securely holds the wire.
- Grip mechanism can be locked into position for wire removal.

### Accessories:

- Hand unit with wire/ compatible connector autoclaveable at 135c or above (1)
- Control unit if separate (01)
- Attacment for wire driver if detachable. (1)
- K-Wire with wire guide 0.75-1.0mm (200)
- K-Wire with wire guide 1.0-1.5mm (100)
- Oil spray bottle (02)
- autoclaveable case with lid and silicone mate (01)
- User Manual (01)

Optional (If any): Microsaw unit/microdrill unit if detachable with hand unit (1)

## Warranty:

Comprehensive 3 years warranty

## Country / Origin of Manufacturer:

USA / Europe / Japan

MBBS(KE), FCPS(PLAS)

ASSISTANT PROFESSION OF PEDIATRI PLASTIC & RECONSTRUCTIVE SING, OF THE CHILDREN'S HOSP of

dr. Waseem Humayoun MBBS, MRH. MS (Plastic) Assistant Professor Plastic & Reconstructive Surgery The Children's Hospital, Lahore

Holar Kar

Serial No	16		
Estimated Unit Cost	1,561,297	Quantity	5
Generic Name	HAMBY GRAFT KNIFE		
Clinical Purpose			

#### SKIN GRAFT MESHER

- 1. Capable of handling thin and thick grafts of any length
- 2. Geometrically defined cutting of skin graft
- 3. Efficient performance
- 4. Availability of different expansion ratios for flexibility
- 5. Keyless disassembly OR recommended design of manufacturer ...
- 6. Humby Skin Graft Knife.

## WARRANTY:

3 Years comprehensive warranty including all parts and consumables.

## **COUNTRY OF MANUFACTURER:**

USA/EUROPE/JAPAN

J Howkar

Serial No	17	17		
Estimated Unit Cost	494,559	Quantity	2	
Generic Name	BLOOD WARMER	BLOOD WARMER		
Clinical Purpose	A blood warmer is us	A blood warmer is used in healthcare facilities for warming blood product.		

Microprocessor controlled unit should have facility of reliable transfusion and infusion for intra and postoperative hypothermia.

Dry warming system.

Online warming with tubing.

Pre-selected temperature settings over the range 37OC to 39OC.

Indications/ display for different temperatures.

Blood warming device with safety cutout at 41-43 OC.

Visual and audible alarm for low and high temperature

## WARRANTY:

3 Years comprehensive warranty including all parts and consumables.

## **COUNTRY OF MANUFACTURER:**

USA/EUROPE/JAPAN

of Adversar

# Establishment of Pediatric burn center PC/679/CH&UCHS: Dated 3-1-2024 after prebid final version

		The state of the same of the first the state of the state	Anatherina Commission in Commi	
Serial No	18			
Estimated Unit Cost	80,712	Quantity	3	
Generic Name	FLUID WARMER	FLUID WARMER		
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.			
TECHNICAL SPECIF	CATIONS			
<ul><li> With blood warming ac</li></ul>	•	fusion and infusion		
<ul> <li>With safety device ther WARRANTY:</li> </ul>	mo control 39-40 deg C			
	varranty including all parts and o	agusumuhlar		
COUNTRY OF MANU		consumables.		

J Kympa

LOCAL





Clinical Specialty Generic Name Clinical Purpose SPECIFICATION OF MEDICAL EQUIPMENT/INSTRUMENTS

PEDIATRIC PLASTIC AND BURN SURGERY

Forced Air pressure warming system

Patient Heating System allows maintain the necessary body temperature, which allows increase the effectiveness of treatment by reducing the frequency of complications, associated with unintentional hypotherma

## TECHNICAL SPECIFICATIONS

Complete set of unit and hose LED/ panel for Temperature range Operating Temperature:

High: 43° +/- 3°C (109.4° +,- 5.4°F),

Med: 38° +/- 3°C (100.4° +/- 5.4°F),

Low: 32° +/- 3°C (89.6° +/- 5.4°F)

Quiet and easy-tc-use unit

Adjustable airflow, precise temperature delivery

Safe, quick temperature response

Two airflow settings and hose-end temperature sensing

Accessories:

Optional (If any):

My m Ran.

M. ASLAM RA

MBBSSKE) SOSSA

AND A MEDICALISM

AND A MEDICALISM

THE CHILDREN

THE CHI

Serial No	20		
Estimated Unit Cost	5865209	Quantity	1
Generic Name	OPERATING MICROS	COPE	
Clinical Purpose			

- 1. Floor mounted stand, counter balance suspension arm and-component for angular-movement.
- 2. Microscope body with 5multistep magnification changer (manual or motorized)
- 3. Built in coaxial illumination, motorized fine focusing and manual/motorized coarse focusing
- 4. Objective: f=300.
- 5. Binocular tube inclined at fixed angle.
- 6. Eyepiece 12.5x with diopteric adjustment.
- 7. Sterilization protective caps for all drive knobs.
- 8. Illumination with controllable intensity with halogen or LED.
- 9. With or without fiber optics.
- 10. Water proof foot control panel.
- 11. HD video camera integration with recorder, LED Screen 40inches or more.
- 12. Complete with all accessories.

### WARRANTY:

5 Years comprehensive warranty including all parts and consumables.

## **COUNTRY OF MANUFACTURER:**

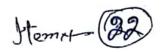
USA/EUROPE/JAPAN

of Murtan

Serial No	21				
Estimated Unit Cost	309,099 Quantity 2				
Generic Name	HAND HELD DOPPLET	HAND HELD DOPPLER			
Clinical Purpose	Hand Held Doppler is used for the assessment of peripheral vessels				
TECHNICAL SPECIFI	CATIONS				
Vascular Probes 4, 5 and Main unit should have LC	8. MHz CD Display of waveform and m	imerical data			
WARRANTY:					
	arranty including all parts and o	consumables.			
COUNTRY OF MANUI	FACTURER:				
USA/EUROPE/JAPAN	SA/EUROPE/JAPAN				

Jo of Hurkan





	PVMS OF MEDICAL EQUIPMENT/INSTRUMENTS
Clinical Specialty	PAEDIATRIC PLASTIC SURGERY
Generic Name	MICROVASCULAR SET (Imported) Qy. 03 Sets.
Clinical Purpose	These instruments are used for repair of vessels and nerves in post traumatic deformities of hand in children.

JEWELERS FORCEPS MICRO-GRIP, STR. 13CM, 5"	4
MICRO SCISSORS, STR. 16,5CM, 6 1/2"	2
MICRO SCISSORS, CVD. 16,5CM, 6 1/2"	1
MICROFORECEPS, STR, 6 CM, 3"	2
MICRO NEEDLE HOLDER, STR. 15 CM, 5 1/2"	2
MICRO NEEDLE HOLDER, CVD. 15 CM, 5 1/2"	1
MICRO CLAMPS SINGLE 2X8MM ,10-14 GM PRESSURE,	2
MICRO CLAMPS DOUBLE ,2X8MM ,10-14 GM PRESSURE	1
MICRO CLAMPS SINGLE 3X11MM ,17-23 GM PRESSURE,	2
MICRO CLAMPS DOUBLE, 3X11MM, 17-23 GM PRESSURE,	1
MICRO CLAMPS SINGLE 3.5X16MM ,35X44 GM PRESSURE,	2
MICRO CLAMPS DOUBLE ,3.5X16MM ,35-44 GM PRESSURE	1
MICRO CLAMPS SINGLE 4X24MM ,60-74 GM PRESSURE,	2
MICRO CLAMPS SINGLE 4X24MM ,60-74 GM PRESSURE,	2
MICRO CLAMPS DOUBLE, 6X36MM, 120- 140 GM PRESSURE,	1
MICRO CLAMPS DOUBLE, 6X36MM, 120- 140 GM PRESSURE,	1
MICRO CLAMPS SINGLE APPLICATOR	1
MICRO CLAMPS DOUBLE APPLICATOR	1
MICRO CLIP APPLICATOR SMALL-	1
MICROINSTRUMENT STERILIZATION BOX FOR 16 INSTRUMENTS AND CLAMPS with silicon matt	1

HIR. WASEEM HUMAYOUN

Assistant Professor
Plastic & Reconstructive Surgery
The Children's Hospital, 147579

18/1/2W

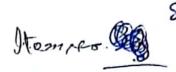
MBBS(KE), FCDSTPLAST)

MBBS(KE), FCDSTPLAST)

AND AREGONSTRUCTURES UNITAL

THE CHILDREN'S HOSPITAL

FOROZOUT ROAD, Labour



	SPECIFICATION OF MEDICAL EQUIPMENT/INSTRUMENTS
Clinical Specialty	PEDIATRIC PLASTIC SURGERY
Generic Name	HAND SURGERY INSTRUMENTS SET - OF Sets.
Clinical Purpose	Used for reconstructive surgery of various congenital, post burn and post traumatic hand deformities in children.

LEAD HAND FOR ADULTS	1
LEAD HAND FOR PAEDS	3
SCALPEL HANDLE No. 3	1
SCALPEL HANDLE No. 4	1
KILNER CUTANEOUS HOOK 15CM	1
CUTAN HOOK GILLIES FIG. 1, SHARP 18CM	1
JACKSON RETRACTOR 17CM	1
MANNERFELT RETRACTOR SHARP 15.5CM	1
MANNERFELT SADDLE HOOK FEN. 12 X 12MM	1
RETRACTOR FLEX. 3 PRONGS BLUNT 16CM	1
KLAPP RETRACTOR 2 PRONGS 17.5CM	1
DESMARRES RETRACTOR 15MM, 13CM	1
KOCHER LANGENBACK RETRACTOR 25 X 6MM	1
LANGENBACK RETRACTOR 30 X 11MM, 21CM	1
DISSECTING SCISSORS BABY METZENBAUM CVD	
14.5CM	2
DISSECTING SCISSORS REYNOLDS FINE CVD 15.5CM	2
FINE SCISSORS KILNER CVD SL. 12.5CM	2
SCISSORS MAYO STILLE CVD 14.5CM	2
SCISSORS FINO SH/SH STR, 10.5CM	2
SCISSORS FINO SH/SH CVD, 10.5CM	2
TISSUE FORCEPS ADSON STR 1X2T, 12CM	1
TISSUE FORCEPS ADSON STR 1X2T, 12CM	1
JEWELLER FORCEPS MICRO GRIP STR 13CM	2
HEMOST FORCEPS ROCHESTER PEAN CVD 14CM	1
HEMOST FORCEPS ROCHESTER KOCHER STR, 1X2T,	
24CM	1
FORCEPS MICRO JACOBSON SHARP 18CM	2
BONE RONGEUR BOHLER STR 15.5CM, 4MM	1
BONE RONGEUR LUER STR 17.5CM	1
MYRTLE BLADE PROBE 14CM	1
RETRACTOR WEITLANER BLUNT 13CM	1
RETRACTOR WEITLANER BLUNT 16.5CM	1

REIN.
ROLLING

ASLAM RAU

ARBSIKE). FCRSIDLASTI

ASTICLA RECONSTRUCTIVE SALIANT

THE CHILDREN'S HOSPITAL

FORDZIAN ROSAL, LABORA

DR. WASEEM HUMAYOUN
MBBS, MPH, MS Plastic,
Assistant Professor Plastic & Reconstructive Surgery The Children's Hospital, Lahore

LARSEN TEND GRASP FORĆEPS 3MM, 10CM	1
LARSEN TEND GRASP FORCEPS 4MM, 10CM	1
LARSEN TEND GRASP FORCEPS 5MM, 10CM	1 .
HEMOST FORCEPS ADSON STR 1X2T, 18.5CM	1
NEEDLE HOLDER CRILE WOOD TC STR 15CM	1
NEEDLE HOLDER MAYO HEGAR TC STR 16CM	2
NEEDLE HOLDER MAYO HEGAR TC HEAVY STR 20CM	2
MICRO NEEDLE HOLDER CVD 14CM	2
MALLET 150G, Ø 25MM, 19CM	1
WIRE CUTTING PLIER TC 22CM	1
WIRE CUTTING SCISSORS SERR TC 12CM, SERR	1
BUNNELL TENDON PASS. INST. 18CM	1
RALK HAND DRILL WITH JACOB CHUCK & KEY	1
TENOTOMY SCISSORS STEVENS SHARP 11.5CM	2
TENOTOMY SCISSORS STEVENS SHARP CVD 11.5CM	2
DISSECTING SCISSORS JAMESON FINE CVD SC 15.5CM	2
SCISSORS SH/BL STR FIG. 2, 14.5CM	2
MALTZ RASP TC FIG. 8, 17CM	1
BUCK GRAMCKO LEVER 15CM	2
BONE HOLDING FORCEPS 16CM	1
WIRE SEIZING FORCEPS 19CM	1
KLEINERT KUTZ TENDON FORCEPS 20CM	1
RASPATORY 3MM, 18.5CM	1
RASPATORY 6MM, 19CM	1
CUTAN HOOK GILLIES FIG. 2, SHARP 18CM	1
MICRO SCISSORS STR 16.5CM	5
MICRO SCISSORS CVD 16.5CM	5
JEWELLER FORCEPS MICRO GRIP STR 13CM	3
MINI LANGENBACK 10 X 6MM, 16CM	2
HOKE OSTEOTOME 3MM, 14CM STR	2
HOKE OSTEOTOME 6MM, 14CM STR	2
VOLKMANN CURETTE FIG.00, 17CM, 4.4MM	1
VOLKMANN CURETTE FIG.2, 17CM, 8.5MM	1
SCISSORS SH/SH CVD SC, 12CM, SERR	2
VESSEL SCISSORS POTTS SMITH ANGLED 45°, SC,	
18.5CM	2
FINE SCISSORS CVD SC. TC, 11.5CM	2 -
ALM RETRACTOR SHARP 7CM	1
LISTON CUTT. FORCEPS STR 17CM	1
BOHLER CUTT, FORCEPS STR 15CM	1
BUNNELL TENDON STRIPPER MALL. 5.5MM	1

Kylonka

ASLAM RAL

ASSISTANT PROFESSION OF THE CHILDREN'S HOSPI ... IN

FORDER PROFESSION OF THE CHILDREN'S HOSPI ... IN

FORDER PROBLEM COMM. LABORT.

DR. WASEEM HUMAYOUS
MBBS, MPH, MS (Plastic
Assistant Professor
Plastic & Reconstructive Surgery
The Children's Hospital, Lahore

a

CONTAINER SYSTEM	
Sterilization Container, silver	1
outside 285x280x135, ins. 262x260x116mm	
Lid perforated - Bottom perforated	
Wire Baskets 255x245x70mm	1
sterilis.drape green 130x60 cm	1
Identification Label, silver	2
Permanent Filter round Ø 190mm	4
for 1/1, 3/4 and 1/2 Container	
made of TEFLON/PTFE ca 1200x using	

Visi on Raw

DR M. ASLAM RAO

MBBS(KE), FCPS(PLAST)

AND ASLAM PROPERTISON OF PEDATRO

ASTO A RECONSTRUCTIVE SURFICIAL

THE CHILDREN'S HOSPITAL

FERDINA Road, Labora

■ NA SEEM HUMAYOUN

I) R. WASEEM HUMAYOUN
MBBS, MPH, MS (Plastic)
Assistant Professor
Plastic & Reconstructive Surgery
The Children's Hospital, Lahore

Arma Ray

al

	IFICATION OF MEDICAL EQU			
Clinical Specialty	PEDIATRIC PLASTIC SURGERY Q4. 40 Sets			
Generic Name	General plastic and burn surgery sets,LOCAL INSTRUMENTS			
Clinical Purpose				
	TECHNICAL SPECIA	ICATIONS		
The state of the s		THE RESIDENCE OF THE PARTY OF T		and the second
Each set contains				
Tray Kidney medium		1		
Tray Kidney large		1		
,,				
Lotion Bowl 50x100mm,	250ml	2		
Cooleal handle #2		2		
Scalpel handle #3 Scalpel handle (B.P. type	hevagonal#3	2		
Frazier/McGuckin Suction	n Tube 10.FG 30ø, 19cm	2		
, razionnicodokin odcilo	11 1 100 10.1 0 000, 19011	1		
	10			
GilliesHookletDelic Fig.2	, 18cm	4		
Castroviejo Scleral Mark	er 0-20mm	1		
Standard Dressing Fcps	serr 14 5cm	2		
Standard Diessing Pops	3011 14.30111	4		
Rampley Sponge Holdin	g Fcps 18cm	2		
Backhaus Towel Fcps 1	1cm	4		
Adson forceps (120 mm	non-toothed)	2		
Lexer Baby Op-Scissors		2		
	<del> </del>			
Dudge Nelle Helder 42-	TO			
Ryder Ndle Holder 13cm	110	2		
Halsey Ndle Holder serr	13cm TC	2		
Halstead Micro Mosquito	Fcpscvd 12cm	4		
Francis Et	L/L/ 4 F 40			
Freer Septum Elevator s	n/DI 4.5mm, 18cm	1		
Sterilizing Container per	forated 400x200x90mm	1		
METZENBAUM Fino Sci	sears blunt str 19cm TC			
INIETZENBAUN FIIIO SCI	asora Diditi sti 100III 10	4	٨	
			'\	

Margar Bry.

MIBBS(KE), FCPS(PLAST)

MIBBS(KE), FCPS(PLAST)

MISSISTANT PROFESSOR OF PEDMIRH;

MI AS HIC A RECONSTRUCTIVE SURGERY

CHE CHILDREN'S HOSPITAL

Ferozpur Road, Lahora

() R. WASEEM HUMAYOUN
MEDS, MPH, MS (Plastic)
Assistant Professor
Pinstic & Reconstructive Surgery
The Children's Hospital, Lehore

4/6



Bonn Suture Tying Fcps 1x2T, 0.12mm	2	
Adson Dressing Fcpsserr 12cm	2	
STEVENS Tenotomy Scissors sh/shcvd 11cm	3	-
Galipot 2.Oz, 60ml	1	
Adson Dressing Fcps 1x2T 12cm	2	
Strabismus Scissors cvd 11cm	2	
Mayo Scissors str 17cm TC	2	
METZENBAUM Fino Scissors blunt cvd 18cm TC	2	
Medium Langenbeck Retractor	2	
Mini Langenbeck Retractor 20x6mm, 16cm	2	
Volkmann Bone Curette 17cm, small, medium and large	1 each	
Right anle suture tying forecepsleheys small and medium	1 each	
Large quadrangular tray	1	
Accessories:		

Optional (If any):

DR M. ADJAM L'ALI MEGSIKES. FCPSIPI ASI, ASSISTANT PROFESSOR OF PERIODE PLASTIC A RECONSTRUCTIVE SIMPLE. TO THE CHILDREN'S HOSPI FLIL Ferozpur Road, Lainhair

I)R. WASEEM HUMAYOUN
MBBS, MPH, MS (Plastic)
Assistant Professor

Plastic & Reconstructive Surgery 'he Children's Hospital, Lahoro

Marker Land Notare Land (611) 24

SPECIFICATION OF MEDICAL EQUIPMENT/INSTRUMENTS **Clinical Specialty** PEDIATRIC PLASTIC AND BURN SURGERY ag. 25 Sets. **Generic Name** Dressing set for burn patients, LOCAL INSTRUMENTS **Clinical Purpose** 

## TECHNICAL SPECIFICATIONS

Fray Kidney medium	1
otion Bowl 50x100mm, 250ml	1
Standard Dressing Fcpsserr 14.5cm	2
Adson forceps (120 mm, non-toothed) Lexer Baby Op-Scissors cvd 10cm	2
exer Baby Op-Scissors and Toom	2
Ryder Ndle Holder 13cm TC	2
Halstead Micro Mosquito Fcpscvd 12cm	4.
Sterilizing Container perforated 300x150x90mm	1
METZENBAUM Fino Scissors blunt str 18cm TC	2
Bonn Suture Tying Fcps 1x2T, 0.12mm	1
Adson Dressing Fcpsserr 12cm	2
STEVENS Tenotomy Scissors sh/shcvd 11cm	1
Adson Dressing Fcps 1x2T 12cm	2
Strablsmus Scissors cvd 11cm	1
Mayo Scissors str 17cm TC	1
METZENBAUM Fino Scissors blunt cvd 18cm TC	1

**Accessories:** 

How Ray 16/1/24

MBBS(KE), FOR SIPLA MBBS(RE), FOT PROF. A. SSISTANT PROFESSION IN THE SECONSTRUCTION OF THE CHILDREN'S HUSE FOROZOUT ROOM, C. I) R. WASERM HUMAYOUT MBBS, MPH, MS (Plastic) Ashistant Professor Plastic & Reconstructive Surgery
The Children's Hospital, Lahore

Serial No	26A		
Estimated Unit Cost	Rs.1748760	Quantity	4
Generic Name	Hydro Therapy Pool (Local)		
Clinical Purpose	Hand Held Doppler is used for the assessment of peripheral vessels		

- 1. Bathtub have polished, high-finish, acid resistant stainless steel tank
- 2. Bathtub have hydraulic adjustable height
- 3. Control panel manufactured in stainless steel
- 4. Control panel with electronic control functions operated by push buttons or touchpads
- 5. Digital Temperature Control
- 6. Bath tub includes foot support
- 7. Bathtub include patient head pillow/wedge
- 8. Bathtub include a patient shower with hose or shower handle and the taps
- 9. Scalding protection
- 10. Push button controlled auto fill on/off
- 11. Push button controlled hydro massage on/off
- 12. Single whirlpool outlet that can be quickly fully cleaned
- 13. Capacity (approx.) 280 litres or more
- 14. Length (bathtub) 1900mm or more
- 15. Width (bathtub) 800mm or more
- 16. Tub rim height: 1100mm or more
- 17. Weight limit (patient) 180kg or more

#### WARRANTY:

5 Years comprehensive warranty including all parts and consumables.

### **COUNTRY OF MANUFACTURER:**

LOCAL

J Marlan.

	٠	۱	

Serial No	266)	1		
Estimated Unit Cost	1,452,816	Quantity	1	
Generic Name	Autoclave Class B (Bench top )			
Clinical Purpose				

Chamber Capacity: 20-25 Liter.

Loading Capacity: 5kg instruments or 1.5kg textiles or more

Table top Standalone Class B-Autoclave

Built-in Electric Steam Generator made of stainless steel Fully automatic microprocessor controlled autoclave

Digital LCD display 5 Sterilization programs

Fast cycle programs

Temperature Cycle 134°C in 30-45 min

Temperature Cycle 121°C in 45-60min

Vacuum and Bowie & Dick test program

Serial interface for documentation

Automatic electrical door lock with safety door lock system

Easy to use by single button start Electro-polished stainless steel chamber 304/316

Temperature sensor

Internal storage of last 40 cycles data/Automatic storage of the sterilization cycle on pen drive/flash card Built-in monitoring system to check the cycle automatically Tipple-pre and deep post vacuum Two reservoirs for fresh and waste water 4/5 pieces of compatible trays with the autoclave One piece of tray holder

Accessories: Standard Accessories including Integrated thermal printer for the automatic print of the sterilization data at the end of the cycle.

#### WARRANTY:

5 years comprehensive warranty including all parts and consumables

### **COUNTRY OF MANUFACTURER:**

USA/ EUROPE / JAPAN

A Mylorkon

Serial No	26 (C)	26 (C)		
Estimated Unit Cost	Rs. 123,640/-	Quantity	01 No.	
Generic Name	HANDWASH SCRUE	HANDWASH SCRUB (SINGLE BAY)		
Clinical Purpose				

Stainless steel construction of non-magnetic material 304. Stainless Steelgauge 16, argon welded.

Single baysystem, baysize 3'x3'x2'.

Mechanical watervalve Stopped basin anti splashends.

Elbowoperatingwater flow. Soap dispensing

\$ 87

Mympan

Scrial No	28-(n)	28-(n)		
Estimated Unit Cost	Rs. 74,144/-	Quantity	04 Nos.	
Generic Name	Stretcher			
Clinical Purpose	Use for the Patient Shifting Safety			

## Madeintwoparts:

- 1. Stretcherremovable
- 2. Base trolley. Made from 1-1/4" x 1-1/4" square M.S.pipe16SWG

havingM.S.shcet20SWGinbedding

Patient SafeWorkingLoadcapacitymin150 kgormore.

- Size85cm (H)x60cm (W)x195cm (L)
- Thebeddingareacoveredby2"1stqualityfoamRexenecover.
- · Havingsiderailcollapsible.
- · Stretchershouldalsohavefourreflectingbumpers.
- I.V.rodprovisiononbothsidesandurinebaghooks.
- Having8"wheeleasterstwowithbrake.
- · Withutilitybasket.

of Marile

Serial No	28B				
Estimated Unit Cost	400,000/-	Quantity	6		
Generie Name	Crash Cart (Local)				
Clinical Purpose					

Trolley for emergency

Stainless steel

Stainless steel recessed top

Three or more drawers

Overall Dimensions: 20" L x 30" W x 35" H (approximately 10 % tolerance)

Lower cupboard with central locking / securing all drawers and cupboard

Ergonomic Push handle

125 mm antistatic castors with locking

Cardiac board housing brackets at rear of trolley.

Universal rail system fitted to width of trolley

Pull-out Shelf.

Overhead frame for some of the accessories

### ACCESSORIES:

- 1 x Aneroid sphygmomanometer
- 1 x Side Accessory mount rail.
- 1 x Cylinder holder bracket, 48 cft
- 1 x Double hook stainless steel I.V. Pole
- 1 x Swivel Shelf (Monitor/Defibrillator)
- 1 x Waste Basket/Sharp Container
- 1 x Drawer Dividers

#### WARRANTY:

3 years comprehensive warranty including all parts

## COUNTRY OF MANUFACTURER

Pakistan (Local)

of Muchan

Serial No	28 (C)		
Estimated Unit Cost	Rs. 61,820/-	Quantity	02 Nos.
Generic Name	Patient STRETCHER with	side bars & Oxygen Cylind	er
Clinical Purpose			

- Overalldimensionsapprox.size:2000mmLx550mmWx800mmH.
- · Stain less steel Construction
- · Fixedheighttrolleyframe
- Basetrolleymadeof11/4x11/4inchpipe16SWG. Top frame 18G (1 1/4 x 1 1/4 inch)
- IV polesocketwithpolerodSS. Same as in Bed
- Mobileon6"heavydutyplatetypecastorswithdiagonallybrakelock
- Stretchertopwithheadraisefacilitybycombratchetupto60deg.
- · Bufferson fourcorners.
- Smooth edges,burrfree
- · Collapsible Side Guards as per sample design
- Topdetachable
- Top made of foam mattress/ Rexene

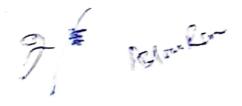
Patientweightbearingcapacity:200Kgormore

1

My on for

28-10)	
3a.200,7394 Quantity II No.	
Palent Transe Species Trailey	
The for the Patern Smitting Salien	
	Palent Transer Species Trolley

- Overallelinensississepprississe Libramilia Silmin Wicklimm El.
- Skinken-reed Construction
- Régin adjuntable Rivinautic
- Basenvlleynadex/0%a/0%inchpipel/s98WG. Top frame 0WG (1 % a 1 % inch)
- IV pole wester with pole and SS. Same as in Bed
- Mobileon® heavyduopiatetypetaturovitidiagonaliyimaietoek
- Streetierupwiliteatranefacilityhycombranderupublider
- Bullers on four corners.
- Smnoth-edges, but free
- Cultapuble Side Guardu as per sample design
- Tardeteitifie
- Top made of from matters Reverse
   Patientweighthearingcapacity 2000 growing



Serial No	28E			
Estimated Unit Cost	250,000/-	Quantity	4	
Generic Name	Fowler bed along with Mattress, Over bed table, Bedside Locker (Local)			
Clinical Purpose	inical Purpose Used for patients in general ward.			

3 Function bed, Height Adjustable Head raise, and Leg raise,

Over all dimensions: 39" W x 90" L x 21" H Approx. Main Frame: Made of 16 SWG pipe 1-1/4" x 2-1/2" rectangular pipe section CO2 welded together at corners. End of Pipes be covered with special plastic bushes Mattress Frame: Should be in 4 parts The 2nd part fixed and 3 moveable parts made of 1-1/4" x 1-1/4" longitudinal & 1" cross pipes of steel square pipe of 16 SWG. The end of each moveable part should be attached to the main frame by means of bolt having metal hinges.

#### FIXED SIZES (Approx.):

- 1) Head Raise part: 25" x32"
- 2) Fixed Part: 8" x32"
- 3) Knee Bridge Part: 12 x32"
- 4) Leg Rest part: 24 "x32" Bedding area made of solid 5mm dia, wire mesh. Head Raise & Knee Raise by means of two crank All Crank moving pipe at head and leg places be of 16SWG 1-1/4" rounded pipe, attached across Head and leg part with triangular brackets of 5/16" thick x 1-1/4" x 12" long plate. The foot part should have vascular position with a lever mechanism for moving of foot part in knee bridge position. A surface bearing must be fixed for friction free movement of crank.

The handle of the cranks should be retractable and collapsible and be made in one piece of ½" steel rod. Cranks main screw made of dia: ¾" steel rod with square / ACMI type of threading with safe limit mechanism. Head & Foot Part of Mattress frame have (Mattress stay) steel brackets CO2 welded for keeping the mattress in proper place. High quality head & foot panels made of 88 pipe and baculite sheet 6mm material. The panels of both ends are easily removable in emergency.

Bed is provided with I.V. Rod, S.S 5/8" dia, adjustable from (36" to 50"), with 2Nos Non traumatic prongs/ hooks. The provision is made to attach the IV rod on both side of the bed. Hooks for N.G. / urine Bag on both sides.

### Foundation Frame:

Made of 16 SWG 1-1/4" x 2-1/2" Rectangular pipe welded together at corner.

#### **Bumpers:**

Four 5" rounded bumpers of made of flexible material at all corners.

#### Castors

5 " ball bearing rust proof, water proof, high quality easters with individual Total locking on two casters.

#### Finish:

All metals part to be chemically degreased / derusted through phosphate treatment and covered with antimicrobial polyester powder coating.

#### Welding:

All metal parts should be welded by CO2 gas.

#### Side Rails:

Foldable side guards with smooth rounded Aluminum top and Stainless-steel bars. Fixed to the bed on both sides covering 70% of platform length when engaged. Steel locking mechanism for strength. Minimum height when in use 30 cm from mattress platform.

### Mattress:

Best quality mattress foam of 4" thickness having density of 32 kg/m3. Water proof Rexene cover having best quality with Zipper.

of prouter,

### IV ROD

Rust free high quality steel less steel one on each corner.

### BED SIDE LOCKER:

Powder coated sheet steel construction. Galvanized steel sheet 20 SWG. Top drawers with one bottom compartment. Built-in handles for durability. Plastic /SS top laminated with raised edges on 3 sides 50 mm twin castors rust proof waterproof, two lockable. Casters with rubber tires for noise free operation on floors. Compatible with the offered bed in color and functionality. All metal parts should be welded by CO2 gas.

Approx. overall size: 18" W x 15" D x 34" H (Approx.).

#### **OVER BED TABLE:**

Powder coated Mild steel construction. Stainless steel internal column. Gas spring assisted height. Height adjustable from 70 to 100cm adjustment. Compatible with the offered bed in color and functionality. Plastic /SS top with rounded edges and cup/glass holders Approx. top size: 81 x 35 cm (Approx.). 50mm twin casters. Casters with rubber tires for noise free operation on floors. Stainless steel foot rest at base. All metal parts should be welded by CO2 gas.

### ATTENDANT BENCH:

MS Pipe/ tube base structure (1"x1") with matching paint. Full laminated Top of ¾" thick Sheesham Wood (best quality).

Size of the bench is 60"x18"x15" (LxHxW) approx.

#### WARRANTY:

3 Year comprehensive warranty including all parts and consumables

## COUNTRY OF MANUFACTURER:

Local (Pakistan)

# of Mynutar

# Procurment of Electro Medical Equipment, Plant & Machinery and IT Equipment for Establishment of Peadtric Burn Centre SR. No: 29

(a)

		System with all accessories & Complete Installati	
Sr. No	Item Descripation	Specifications	QTY
1	IP Based Cameras (2 MP)	2 MP, 1/2.7" CMOS image sensor, low illuminance, high image definition Outputs max. 2MP (1920 × 1080p) @25/30 fps H.265 codec, high compression rate, ultra-low bit rate Built-in IR LED, max. IR distance: 30 m ROI, SMART H.264/H.265, Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, illegal access 12V DC/PoE power support, IP67 protection	16 Nos.
2	Network Video Recorder 16Channel 4K- (2-HDD Supported)	16-channel IP Based Cameras Supported Smart H.265+/Smart H.264+/H.265/H.264; H.265 auto switch Max 200 Mbps incoming bandwidth Up to 8MP resolution for preview and playback 8-channel decoding@1080p (30 fps) AI by Camera: Perimeter protection; SMD Plus; people counting; heat map Support IPC UPnP	1 Nos.
3	Networking Switch PoE 8 Ports + 2 SFP Ports	8-Port Fast Ethernet PoE Switch Layer two commercial switch Supports IEEE802.3, IEEE802.3u and IEEE802.3X standards MAC auto learning, aging, MAC address capacity is 2K Supports MDI/MDIX self-adaptation RJ45 port supports 10/100/100 Mbps self-adaptation Supports IEEE802.3af and IEEE803.3at power supply standards Adopts metal enclosure Supports Hi-PoE 60W Supports DC 48-57V power supply	3 Nos.
4	Power Distribution Unit 6 Ports	Power Distribution Unit 6 Ports	2 Nos.
5	Cabinet 4U with Fan	AWG 18 to 20, With Cooling fan	1 Nos.
6	PVC Junction Box (Size 2*2)	PVC Junction Box (Size 2*2)	16 Nos.
7	Hard Disk (4TB)	Surveillance Hard Drive 64MB Cache	2 Nos.
8	Cabling (Cat 6 Cable) Ducts, piping complete Installation	Cat 6 Pure Copper 23 AWG	2500 Rfi
9	LED 32" Inch (CCTV Cameras Surveillance)	2 * HDMI, 2 * USB, VGA Port, Resolution 1366*768, 4K Supported	2 Nos.
10	HDMI Cable 4K Supported (5- Meter)	4K Supported	2 Nos.

Kyru Ran

except of M

## Procurment of Electro Medical Equipment, Plant & Machinery and IT Equipment for Establishment of Peadtric Burn Centre

SR. N	0:	29	(b)	)
-------	----	----	-----	---

		S14 110. 25 (B)	
A	udio Visual System for The	ater to Committee Room with all accessories & Committee Room with all accessories	Complete
Sr. No	Item Descripation	Specifications	QTY
I	Amplifer with Mixer	60 Watt rated power, 3 MIC inputs 2 AUX inputs 3 MIC volume control AUX volume control, Phone Jack MIC Input	1 Nos.
2	Amplifer with Mixer	120 Watt rated power, 3 MIC inputs 2 AUX inputs 3 MIC volume control AUX volume control, Phone Jack MIC Input	l Nos.
3	Speakers Celling Mount	Built-in 100v/70v transformer In-ceiling type loudspeaker 5" speaker unit Power taps 6W @100V & above Metal grille & ABS baffle Spring clip fast installation	4 Nos.
4	Hand Microphone Wireless	Handheld wireless microphone x 1 Receiver x 1	2 Nos.
5	Collar Mic /Headmic Wireless	Wireless Transmitter x 1 Receiver x 1 Microphone x 1	2 Nos.
6	Cable & Other Accessories	High Performance 14 Gauge Speaker Wire,	As per Acutal
7	Fiber Cable	6 Core Fiber Cable	As per Acutal
8	Fiber Media Converter	Audio, Video Singnal Converter	As per Acutal

Monter Stimbs W

## Procurment of Electro Medical Equipment, Plant & Machinery and IT Equipment for Establishment of Peadtric Burn Centre SR.

No: 29 (c)

		1101 25 (6)	
	Speakers Systo	em with all accessories & Complete Installation	
Sr. No	Item Descripation	Specifications	QTY
1	Amplifer with Mixer	60 Watt rated power, 3 MIC inputs 2 AUX inputs 3 MIC volume control AUX volume control, Phone Jack MIC Input	1 Nos.
2	Speakers Celling Mount	Built-in 100v/70v transformer In-ceiling type loudspeaker 5" speaker unit Power taps 6W @100V & above Metal grille & ABS baffle Spring clip fast installation	10 Nos.
3	Microphone	Table microphone wired	1 Nos.
4	Cable & Other Accessories	High Performance 14 Gauge Speaker Wire, Connectors related accessiors with complete Installation	As per Acutal

definite prompon

Procurment of Electro Medical Equipment, Plant & Machinery and IT Equipment for Establishment of Peadtric Burn Centre SR. No: 30 (a)

Desktop Computer System Core i7(with Complete Accessories) Quantity: 05

Sr#	Specifications			
1	Processor	Intel 12th Generation Core i7 3.0 to 5.0 GHz (Base Frequency)		
2	Mother Board	Intel Chipset		
3	Memory	16 GB DDR- 4 or higher (Support up to 64GB)		
4	Hard Disk Drive	1 TB		
5	SSD	256 GB or Higher		
6	Video/Display Card	Intergated		
7	Sound Card	Intergated		
8	Integrated I/O	Six USB Ports (USB 2.0/3.0/3.1), PCI/PCIe Slot etc, HDMI/VGA Port		
9	Network	Built-In Gigabit Enternet, Wireless, Lan a/b/g/n or ac		
10	Super Drive	Yes		
11	Graphic Card	Built-In		
12	Mouse & Key Board	USB Wired Keyboard, 2-Button USB 2.0 Optical Mouse		
13	Operating System	Windows 10 Pro upgradable Windows 11 Pro		
14	Warranty	1 Year's Manufacature's Warrenty		
15	Country of Manufacturing & Origin	Any Country Inculding China, Japan, USA, Europe		
16	Display	19.5" Inches or higher LED Monitor Including all cables)		

	Note: All items under this lot must be of same brand.				
	UPS (with Cor	mplete Accessories) Quantity: 05			
Sr#		Specifications			
1	Output power capacity	325 Watts / 650VA			
2	Output Connections	Universal receptacle (Battery Backup)			
3	Nominal Output Voltage	230V			
4	Nominal Input Voltage	230V			
5	Input Connections	NEMA 5-15P			
6	Cord Length	1.2meters			
7	Maximum Input Current	5.0A			
8	Country of Manufacturing & Origin	Any Country Inculding China, Japan, USA, Europe			

My ~ Rav

2

M

# Procurment of Electro Medical Equipment, Plant & Machinery and IT Equipment for Establishment of Peadtric Burn Centre SR. No: 30

(b)

Laserjet Printer (Black&White)(with complete Accessories) Quantity: 02

Sr. #	Specifications			
1	Print Technology	LaserJet		
2	Print Quality(Mono)	Up to 1,200 x 1,200 dpi		
3	Print speed	10 ppm & above		
4	Monthly duty cycle	10,000 pages & above		
5	Connectivity, standard	Hi-Speed USB		
6	Power	input voltage: 220 to 240		
7	Printing Paper Size	A4, A5, A6, Envelope		
8	Color Detail	Black & White		
9	Country of	Any Country Inculding China, Japan, USA,		
	Manufacturing & Origin	Europe		

Kys or Raw

2



## Procurment of Electro Medical Equipment, Plant & Machinery and IT Equipment for Establishment of Peadtric Burn Centre SR.

No: 30 (c)

## Multifuncation Printer(Black&White)

100

(with

complete Accessories) Quantity: 01

Sr.#	Specifications		
1	Print Technology	LaserJet	
2	Device Category	All in one Multifuncation	
3	Funcations	Print, Copy, Scan	
4	Print Quality(Mono) Up to 600 x 600 dpi		
5	Print speed	eed Standard	
6	Monthly duty cycle	10,000 pages & above	
7	Connectivity, standard	Hi-Speed USB	
8	Power	input voltage: 220 to 240	
9	Printing Paper Size	A4, A5, A6, Envelope	
10	Color Detail	Black & White	
11	Country of	Any Country Inculding China, Japan,	
	Manufacturing & Origin	USA, Europe	

Man Ran

ac



# Procurment of Electro Medical Equipment, Plant & Machinery and IT Equipment for Establishment of Peadtric Burn Centre SR. No:

31

Multimedia Projector(with Complete Accessories & Complete Installation) Quantity: 01

Sr. No	Specifications  Specifications				
1	Projection System:	DLP			
2	Resolution Minimum	800×600 Pixels (VGA)			
3	Brightness	3000 Lumens and above			
4	Contrast ratio	10,000:1			
5	Display Color	1.07 billion colors			
6	Aspect ratio	Native 4:3			
7	Light Source	Lamp			
8	Optical  Throw Ratio: 1.54~1.72, Zoom Ratio: 2x Lens Control Manual Zoom and Focus				
9	Audio:	Built-in Speaker:			
10	USB Port	1 × Type A ,1 × Type B			
11	Inputs $1 \times RGB, 2 \times HDMI, 1 \times VGA, 1 \times Video (RCA)$				
12	Outputs 1 × RGB,				
13	PC Control	1 × PC Control Port (D-Sub 9 P)			
14	Country of Manufacturing & Origin	Any Country Inculding China, Japan, USA, Europe			
		ojetor Screen			
Sr. No		Specifications			
1	Size	6ft × 6ft			
2	Inches	75 Inch			
3	Type	Manual			
		rojetor Stand			
Sr. No	, and the second				
1	Size	3 Ft Adjustable			
2	Type	Metal / Celling Mount Square			
	HDM	I Cable 20 Meter			
Sr. No					
1	Size	20 Meter			
2	Туре	4k Supported high Quality			
		ess Slide Changer			
Sr. No	Specifications				
01.110		Openications			

Mar Rav

2



Serial No	23- Anesthesia & Ventilation		
Clinical Specialty			
Estimated Unit Cost	13,794,000/-	Quantity	01 No.
Generic Name	Continuous Renal Replacement Therapy (CRRT)		
Clinical Purpose	Continuous Renal Replacement Therapy (CRRT) is therapy that replaces the normal blood filtering function of the kidneys. It is used in ICU setups where patients with AKI or multiple organ failure are treated.		

- Continuous Veno-Venous Hemofiltration (CVVH).
- Continuous Veno-Venous Hemodialysis (CVVHD).
- Continuous Veno-Venous Hemodiafiltration (CVVHDF).
- Slow Continuous ultrafiltration (SCUF).
- Theuraptic Plasma Exchange (TPE).
- Hemoperfusion (HP).
- Should have blood leak detentor (Optical).
- Air Detector (Ultrasonic)
- Should have anticoagulant pump heparin &Citrate.
- Warmer / heater.
- 7 Inch or above touch colored display.
- Internal treatment memory.
- Should have to perform all therapies including Adults and Peads.

## **ACCESSORIES**

Provide 20 Kits (5 Adult and 15 Peads) & 100 bags.

## WARRANTY:

- 5 Years comprehensive warranty including all equipment consumables
- Inconsumable reagents near to expiry replacement is responsibility of supplying firm.
- One UPS (pure sinewave) for minimum backup of 30 minutes (imported) as per manufacturer recommendation.

## **COUNTRY OF MANUFACTURER:**

USA/ Europe/ Japan

