

SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 1 PURCHASE OF ELECTRO MEDICAL EQUIPMENTS
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/01
Due Date of Opening on 22-04-2014
Time of Receipt of Tender.....1:00 P.m.
Time of Opening of Tender.....1:30 P.m.

Item #	Description	Req. Qty.	Make & Model	Manufacturer
1	<p><u>Mobile Ventilator Capable with MRI</u></p> <p>MRI Compatible Transport Ventilator for emergency. Unit should be capable of ground and air transportation. Unit should have face mask CPAP, mask pressure ventilation or volume ventilation with ET-Tube. Unit should be Pneumatically operated for use on pediatric and adult patients. Demand flow system for spontaneous breathing to 140 L/min. Pressures displayed on manometer. Modes of Operation: CMV, IMV, CPAP, Pressure Limit. Mandatory breath flow rate : 36 L/min. MRI compatibility : up to 1.5 T static field strength, 260 G/cm spatial field gradient, 250 V RF power, shielded . Weight: 6~ 8 pounds (2.-3 kg) Input gas requirement: 55 psi + 15 psi (3.8 bar + 1 bar). Unit should meet the International Standards for transport ventilators.</p> <p>Control Settings : Mandatory Breaths : ON or OFF Respiratory Rate: 2 to 50 bpm Tidal Volume : 360 to 1,500 ml Peak Pressure: 10 to 75 cm H2O PEEP / CPAP: 0 to 20 cm H2O Oxygen: 100% or 65%</p> <p>Unit should have alarm for low oxygen inlet pressure. Standard Accessories: Travel bag, 2.4 m oxygen hose, box of 10 disposable circuits with large mask and head strap. Must be connectable with oxygen cylinder and one reserve cylinder.</p> <p>Country of origin: USA/UK/Japan/Western Europe / Equivalent</p>	06 Nos.		
2	<p><u>3 CHANNEL ECG MACHINE</u></p> <p>3-channel LCD display. 58 mm printouts. Battery & mains powered. Auto-adaptive filters for outstanding signal quality. Loose leads indicator. Auto, manual and user-defined profiles. Alpha-numeric keyboard. Pacemaker detection. Connection to PC software Connection to vacuum electrode system. Diagnostics upgrade . Graphic display Alphanumeric and functional key board. Indication of connect of each electrode</p> <p><u>Printer:</u> Paper width (mm): 58. Paper type: roll. Paper speed (mm/s): 5, 10, 25, 50</p> <p><u>Signal Processing</u> Number of channels : 3. Number of leads : 12. Sensitivity (mm/mV): 2.5, 5, 10, 20. Stored records (10-sec long strips): 6. Long ECG recording 1 lead / 2 leads (min) : 9/no.</p> <p>Country of origin: USA/UK/Japan/Western Europe/Equivalent</p>	08 Nos.		
3	<p><u>Mobile Suction Machine</u></p> <p>Suction Machine with two polycarbonate collection Jars. 4 antistatic castors , 2 with brakes. Suction control knob with 3 m cable</p>	12 Nos.		

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	<p>Pump flow: 40L/min or better. 4 liters jars with scale up to 3500ml and safety valve for overflow prevention. Hydrophobic PTFE filter. 3 m PVC Suction tube. Metallic handle, Metallic curved and straight catheter.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>			
4	<p>Defibrillator</p> <p>Portable Microprocessor controlled Defibrillator with Built-in Monitor, Recorder:Manual, synchronized Defibrillator with built-in monitor and 2-Channel recorder for ECG and Monitoring, mains 200-240VAC 50 Hz and rechargeable battery. Built-in Self test Functions like Automatic capacitor test etc. Output energy 2 to 250j or more. Charging Time 3 Sec or better for 200J, 5 Sec or better for 250J charging in AC operation or fully charged new battery, Bi-Phasic Transthoracic wave form delivery system. ECG through paddles and patient cable. Monitor size 5.6 inch or more, Color LCD, Lead synchronizer, sweep speed 25 or 50mm/sec, Digital display of heart rate with high/low alarm. Automatic external Defibrillation is available with additional optional disposable pad adapter Cable and disposable pads. when shockable rhythm is detected. Automatically starts Charging for Hands free defibrillation. System should have multiple capacitor banks to have good charge back up in case of capacitor failure. System should have option for Multi-parameters monitoring for future upgrade. One can Easily add measuring parameters such as SpO2 and CO2. Adults and paed's paddles, built-in recorder, speed 25mm/sec or equivalent with Standard paper. The recorder should automatically start when charge button is pressed and stops 15Sec or earlier after discharge. Main Unit, complete with External paddles for paed's and adults, Rechargeable battery and standards accessories should be quoted.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>	01 No.		
5	<p>Bed Side Multi Para Monitor</p> <p>Multi parameter Monitor to display ECG, Resp, NIBP, SpO2 & Temp as standard. Capability for other parameters measurement such as IBP dual and ETCO2 15" color TFT Touch Screen display resolution 1024 x 768 Waveforms display 8 or better. Trend recording: 1-72 hour or better.</p> <p>ECG : Input: 5 lead ECG cable as standard Lead choice : I, II, III, aVF, AVL, V, Test Gain choice : x0.5, x1, x2, x4 HR Display Range: 30-300bpm NIBP : Method: automatic oscillating measurement Pulse Rate Range: 30-250(bpm) Adult / Pediatric Mode: Sys 40-250 (mmHg) DIA: 15-200(mm Hg) Neonatal Mode Sys: 40-135 (mmHg) DIA:15-100(mmHg) SP02 : Anti Motion Sp02 Sp02% Range : 0-100% Pulse rate Range: 30-250bpm Sp02 probe: red light LED wavelength 660nm 5nm Temperature : Range: 25- 50(°C) Display Resolution : 0.1 °C Channel : 2 channels Respiration: Method : RA-LL impedance Range : 0-120rpm Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>	10 Nos.		

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6	<p>Central Monitor System 17" or more color TFT Monitor Waveform : ECG (I, II, III, aVR, aVL, aVF, V1-V6) HR, ST, NIBP, IBP, SpO2, PR, RR, TEMP, EtCO2, Multi-gas up to 32-waveform presentation for 16 bedside monitor. Alarm for High and Low limits alarm, Audiable and visual alarm 8 seconds real-time recording Freeze waveform recording Trend data recording Alarm strip recording Laser printer Pentium processor .</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	01 No.		
7	<p>Fiberoptic Broncho Scope Size 5mm Fiber Optic Bronchoscope with standard set of accessories. Field of view: 120° Working length: 600 mm Insertion Tube Outer diameter: 6.0 mm Distal end Outer diameter: 5.9mm Range of tip bending Up 180° Down 130° Instrument channel: 2.8mm</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>	01 No.		
8	<p>Non Invasive Cardiac Output Monitor Cardiovascular monitor (Non Invasive Cardiac Out Put Monitor) with Electrical Cardiometry (EC) measuring channel , EC Patient Cable, NIBP module with Adult Arm Cuff , 12" high resolution color display, Rechargeable battery , USB Interface for backup and printing</p> <p>Blood Flow SV/SI Stroke Volume / Stroke Index HR Heart Rate CO/CI Cardiac Output /Cardiac Index</p> <p>Vascular System NIBP Non-invasive Blood Pressure SVR /SVRI Systemic Vascular Resistance/ SVR Index based on input of Central Venous Pressure (CVP) SSVR / SSVRI Stroke System Vascular Resistance /SSVR-Index</p> <p>Contractility Contractility Variation of Index of Contractility LCW / LCWI Left Cardiac Work based on input of Wedge Pressure (PAOP) LSW / LSWI Left Stroke Work STR Systolic Time Ratio (PEP/LVET) CPI Cardiac Performance Index</p> <p>Fluid Status TFI Thoracic Fluid Content SVV Stroke Volume Variation FTC Corrected Flow Time</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>	01 No.		
9	<p>Gel Electrophoresis with Power Supply Distance between electrodes 228 mm Buffer Volume 700 ml Gel Tray Size 163 x 149 mm Comb 25 Well or 34 well / line x lea 21 well or 34 well / lines x lea 15 well or 34 well / lines x lea 13 well or 34 well / lines x lea Caster Size 170 x 156 mm Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>	01 No.		

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<p>10</p>	<p><u>O.T. Table with Power Battery</u> Multipurpose Electro Hydraulic Operation table with table top slid function. System operable with hand control switch for all electrical function and foot pump for hydraulic function. In case of complete failure of electrical power, table should be capable to work on manual system. Hand switch control should have a back lit for convenient and ease of operation. Patient weight bearing capacity should be 200kg or more. Longitudinal slide of 12" or more. Built in x-ray cassettes channel. Radio translucent table . Self diagnosis system with instant error code display. USB port to integrate with OR system. Safety side rail, emergency stop button , hand switch should have special function of patient positioning, up and down, left and right tilt, up and down back , up and down leg, sliding function. Essential function such as lock/unlock, level, flex/reflex should be incorporated. In reverse orientation with longitudinal slide function, the joint of flex table, should travel over the table base for allowing the C-Arm to go deep underneath of the table for imaging of total hip. Normal orientation slide to head end 52" ore more. Normal orientation slide to leg end 15" or more. Reserve orientation slide to leg end 25" ore more. Range of table movement Head: +/- 90° or better , Back: +80°/-50° or better Leg: +80°/-105° or better , Trendelungburg : +/-30° or better Lateral tilt : +/-20° or better, Height from floor to 46" or better Flex : 25°, Reverse flex : 30° Reflex : 100°, Revers reflex :100° Kidney elevator " 0~4.5" or more Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>	<p>02 Nos.</p>		
<p>11</p>	<p><u>Surgical Diathermy</u> Microprocessor digital technology. Mono polar and bipolar cut and coagulation. Seven different types of current Pure , blend I, blend II, blend III, bipolar, spray and contact. Patient return electrode monitoring. 400W maximum out put. Two modes of bi polar coagulation (99 Watts maximum power) and soft coagulation (50 Watts maximum power). Memory function as standard. Pure cut 400W at 500ohms. Blend I: 230W at 300 ohm, Blend II: 180W at 300 ohms, Blend III: 120W at 300 ohms. Contact coagulation :100W at 300 ohms. Spray coagulation : 80W at 500 ohms. Biopolar coagulation: 99W at 100 ohms. 50 W at 100 ohm . Main frequency 400,500,800KHz +/- 10%. Repetition rate : 20,33KHz +/- 10%. High frequency leakage current : less than 150mA. Low frequency leakage current: patient leads to Ground: Less than 0.01mA, chassis to ground : Less than 0.1mA. Unit complete with: bipolar forceps reusable bipolar forceps cable. Reusable mono polar handle with cable. Reusable twin button handle with cable. Electrodes . double foot switch. Single foot switch. Disposable dual return plate. Reusable return plate cable. Reusable metal plate with cable. Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	<p>14 Nos.</p>		
<p>12</p>	<p><u>Anesthesia Machine with Ventilator</u></p> <ul style="list-style-type: none"> • Gas Supply: Pipeline input pressure: 3 to 8 bar supply required; Connections: NIST for O₂, N₂ O and Air; Cylinder input: NIST or optional pin indexed. • Oxygen flush 40 l/min (between 3 - 8 bar) • Should have built in suction operating on vacuum, injector system should be optional • Should automatically compensate for the amount of fresh 	<p>02 Nos.</p>		

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	<p>gas flow directly to the patient</p> <ul style="list-style-type: none"> • Minimum 2 holders for at least 10 litre bottles • Manometer gauges • Pipeline : O₂, N₂O & Air : Upto 10 bar • Cylinder NIST: O₂, N₂O : Upto 10 bar • Pin indexed : O₂ : Upto 250 bar • N₂O : Upto 100 bar • Front outlet 22mm OD – 15mm ID • Rotameter (hypoxic guard system) <ul style="list-style-type: none"> • O₂ tube : 0 - 1 l/min • (double tube) 0 - 10 l/min • N₂O tube : 0 - 12 l/min • Air : 0 - 15 l/min • Optional 5-6 tubes • Vaporizer should be flow and temperature compensated • Should work as a half open system or a fully closed system depending on the fresh gas setting set by the user • Should have vertical light weight absorber valves • Selectatec system two station vaporizer mounting • Minimum 1.5 litres CO₂ absorber volume • Safety overpressure valve at 100 cmH₂O for absorber • Two drawer units • Should be based on bag in bottle system • Ventilation modes: CMV, PCV, manual and spontaneous modes • Should be equipped with anti-barotrauma and anti-volutrauma system • Tidal volume from 10 ml not less than 1600 ml • Ventilation frequency starting from 4 bpm up to 80 bpm • Inspiratory to expiratory time starting from 1:1 till 4:1 • PEEP not less than 20mbar • Plateau time up till: 50%, up to 58 mbar for PCV • Measured parameters should include: Expired tidal volume, frequency, minute volume, PIP, plateau pressure, PEEP, mean pressure, airway pressure • Audible and visual alarms: Low air/ N₂O/ O₂ input pressure, apnea alarm, O₂ alarms, upper/ lower limit alarms and leak or patient disconnection • Silent indicator, time and date and mains and battery indicator • Battery backup till up to 4 hours <p>Supplied With: One vaporizer , CO₂ absorber and breathing circuit.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
13	<p><u>Electric Cauttery</u></p> <p>HF electrosurgery units for small operations and dermatology work. Modes of operation, CUT, COAG BLEND and MICRO Output power: CUT 80W/400 ohm COAG 50W/400 ohm BLEND 60W/400 ohm MICRO - 20W /600 ohm Working frequency: 700 KHz +/- 10% Alarm for overheating Footswitch operating STANDARD ACCESSORIES Standard foot-switch Flat neutral plate with cable Kit of 6 short autoclavable electrodes, O 2.4 mm, length 5 cm Power cable 2 m</p> <p>Country of origin: USA/UK/Japan/Western Europe/ equivalent.</p>	01 No.		
14	<p><u>Phaco Emulsification</u></p> <ul style="list-style-type: none"> • Double Pump Venturi – Peristaltic • Double Infusion IV Pole • Reusable Tubing Set 	02 Nos.		

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	<ul style="list-style-type: none"> • Continues micrometrical stroke length control & adjustment • Co-M.I.C.S., M.I.C.S (incision size range 3.2mm – 1.0mm) • High Speed Vitrectomy up to 4000 cuts/min or better • Programmable Double Linear Footpedal • LCD Touch Screen • User Programmable • Graphical User Interface • Modular System for Anterior and Posterior Segment • Cool Phaco <p>Consisting with the following</p> <p>Phaco Console, Double Linear Foot switch, Reusable Tubing set (2), Compressor(1)</p> <p>Anterior Vitreous cutter (2) Phaco handpiece (1) Phaco Tip (2) Wrench for tip (1) Sleeves(3) Test Chamber(2) Diathermy & forcep (1) Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
<p>15</p>	<p><u>Yag Laser</u></p> <ul style="list-style-type: none"> • D-Pulse technology controls pulse number under the CPU and provide 3 Hz (single) and 1.5 Hz (burst) fast repetition rate. • Dual aiming beam rotating 360 degrees for accurate alignment • Offers 0.3 to 10 mJ, continuously adjustable in increments of 0.1 mJ, allowing the precise tissue effect. • Focus Shift: 0 to 500 µm (continuously variable, toward both anterior chamber and Posterior Chamber • Power Output: OFF, 0.5 to 25 µW • Type: Q-Switched • Pulse Duration: 4 nsec • Aiming Beam Method: Dual Beam Method • Cooling :Air • Spot Size: 8 µm • 5 Step Magnification Changer Slit Lamp • 1064nm Laser Wavelength • On Local Motorized stand <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	<p>01 No.</p>		
<p>16</p>	<p><u>Auto Refractometer</u></p> <ul style="list-style-type: none"> • Accurate refraction measurement • Super luminescent diode and highly sensitive ccd • Optimal fogging to minimize accommodation • Accommodation measurement with artificial intelligence algorithm • Assessment for intermediate or near vision lens • Keratometry measurement with mire ring • 3-d auto tracking and auto shot • Tilttable color lcd screen • High speed printer with easy loading & auto cutter • Va measurement with built-in charts and lenses • Recall function for instant vision comparisons • Contrast and glare test • Retroillumination image and nidek cataract indices <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	<p>02 Nos.</p>		

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17	<p>ETT Unit</p> <p>12-channel computerized stress-test ECG system with advanced diagnostics (Arrhythmia detection, QT module, ST maps, Risk Scoring, Maximum load prediction) Complete with: ECG, ergometry patient cable, 60x self-adhesive disposable electrodes, PC communication cable, 2x USB convertor, software DVD, HW key & Treadmill with control panel</p> <p>Simultaneous PC Based ECG Diagnostic Acquisition 12 leads ECG Monitoring.</p> <p>Automatic BP measurement support ST setting for J point position modification Stress test Protocol editor Signal freeze and review Trends of HR, ST, Bp and load Automatic & manual load control</p> <p>Electrode Application indicator QT module Arrhythmia detection and analysis Risk scoring ST maps Maximum load predication Switch to Ramp function Caliper for manual measurements</p> <p>Full patient demographic & information Interval values, ST level, ST slope, J&l point and ST/HR index Storage of unlimited ECG / KEG duration of patient ECG data to hard drive or any storage medium. Print final report to non fading laser hard copy Real time ECG /KEG monitoring 1,2,3,6, or 12 user selectable Leeds View / print full disclosure measurement for all stage, ST Max/ ST avg. On screen status of test: phase time, total time, speed, Grade target HR,12 lead St Levels & slopes Post Test review / Editing for ECG data. Baseline correction and filters to minimize motion artifact. Network Practically unlimited number of ECG/KEGs ECG /KEG serial historical comparisons Transmission of final reports via network Storage of unlimited ECG/ EKG durations of patient ECG data to hard drive. <u>Treadmill with Display Control</u></p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>	01 No.		
18	<p>Echo Cardiac Machine</p> <p>Fully Digital multi beam former. Three probe connectors including one pencil as standard. Dual processor. Integrated internal hard disk. CD/DVD, writer/reader. USB storage memory. Integrated PACS patient data base.</p> <p>IMAGING MODES . B MODE (2 D). Colorized B mode. Smart harmonic (2nd harmonic imaging). M mode. Anatomical M mode. Spectral Doppler (CW/PW). iCFM (Intelligent Color Doppler) . Quasi triplex mode. Color M mode. Power Doppler Imaging (PDI). Doppler Tissue Imaging (DTI). Multi angle imaging. Tissue harmonic imaging. Contrast media analysis. SCANNING METHOD : Electronic phase array Electronic convex array . Electronic micro convex array . Electronic linear array GAIN : Over all gain B : 15 to 75dB. Doppler : 0~30 dB. CFM: 0~20dB. FRAME RATE: 390 or more frame/ser in B mode GRAY SHADES 256 gray shades or better . IMAGE DEPTH : Image depth : 28 cm or mode. PROBE: Convex probe, Linear Probe,</p> <p>MONITORS : 15" high resolution non reflecting TFT /LCD . 3D-4D FACILITY 3D and 4D capabilities for baby face rendering , volume measurement and further investigation.</p> <p>DATA MANAGEMENT FACILITY . For digital acquisition, storage and preview of complete Ultrasound studies including static</p>	01 No.		

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	<p>and dynamic clips, studies can be review and out put to CD. System facilitated with Digital Image Processing DIP, enlarge field of view on all linear probes (EL-Mode), Contrast Media Imaging CMA. , Multi Angle Imaging Modes (MA-Mode), Extended panoramic Imaging (EP Mode) , 4D Imaging .</p> <p>Complete with the following:</p> <ol style="list-style-type: none"> i. Phase array probe adult 2~6 MHz ii. Phase array probe peds 3~8 MHz iii. 2.0 MHz Doppler Pencil Probe (CW) iv. Transesophageal Probe 3-8MHz <p>Black & White Ultrasound printer. UPS /Stabilizer</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>			
19	<p><u>Liasion Troppin-I Machine.</u></p> <p>Fully Automatic Random Access , Batch Mode & Stat Function Analyzer for Routine and Specialized Immunoassays or chemiluminescence system Qualitative & Quantitative Analysis assays Sample Type : Serum / Plasma Sample Volume : 5 - 150 ul Through put 180 tests per hour Clot Detection Barcode concept of samples and reagents Auto reflex testing Automatic dilution of high titre samples Variable dilution protocols Automatic Analysis for wide range of Assays available : Cancer, Cardiac Marker , Infectious Diseases , Thyroid, Reproductive Endocrinology, Anaemia, Hydentention, Growth, Autoimmunity, Diabetes, Sepsis, Adrenal Function , EBV, Turch, Borrelia, Treponema, VZV, Mycoplas,a, Measles & Mumps, Gastrointestinal Etc. Compatible UPS will be supplied with the system to run the system trouble free Startup Kit for 40 tests will be provided with the system Certification FDA Approved , CE Marked</p> <p>Country of Origin: USA / EU / Japan/ Equivalent</p>	01 No.		
20	<p><u>Incubators (Branded)</u></p> <ul style="list-style-type: none"> - 6" Color Screen Displaying all Parameters at the same time - Servo Control Humidity . Control Range 20-95% - Servo Control Oxygen Control Range 21-85 % - Reducing Sound Stress Designed Canopy Noise Level ≤ 45 dBA - Large Bed Cabin with Double Walls Suitable for Twin Babies - Double Skin Temperature - Able to Measure and Monitor Skin Temperatures of Twin Babies Simultaneously - Sensor Module Technology - Double Doors Able to Open 180° - 6 pcs Intervention Windows Easily Openable with Elbow Touch - Air Curtains Activated Automatically when the Doors Are Open In order to Prevent Heat Loss of the Canopy - Continuing Monitoring for 1.5 Hours in Case of 	07 Nos.		

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	<p>Power Failure</p> <ul style="list-style-type: none"> - Build-in Scale : 0 to 10 kg with 1gr sensitivity - Trends: 48 Hours for Air Temp, Skin Temp, Humidity, O2 Concentration, Heater Power, 24-day trend – Weight gain and loss - Air Filter 0.5 μ - Trendelenburg Mechanism $\pm 15^\circ$ - X-Ray Cassette Tray <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
21	<p><u>Delivery Table with Remote control</u></p> <p>Remote control table System operable with hand control switch for all electrical function and foot pump for hydraulic function. In case of complete failure of electrical power, table should capable to work on manual system. Hand switch control should have a back lit for convenient and ease of operation. Patient weight bearing capacity should be 200kg or more. USB port to integrate with OR system.</p> <p>Safety side rail, emergency stop button , hand switch should have special function of patient positioning, up and down, left and right tilt, up and down back , up and down leg, sliding function.</p> <p>Essential function such as lock/unlock, level, flex/reflex should be incorporated.</p> <p>Range of table movement</p> <p>Head: +/- 90° or better</p> <p>Back: +80°/-50° or better</p> <p>Leg: +30°/-90° or better</p> <p>Trendelungburg : +/-30° or better</p> <p>Complete with all obs and gynae accessories.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	02 Nos.		
22	<p><u>Pulse Oximeter (Infant) complete with probe</u></p> <p>Accurate during motion and low perfusion. SpO2, pulse rate alarm, plethymographic waveforms display and up to 72 hours of patient trends. Manage date on PC via USB Audible and visual alarm. 24 hours batter life with low battery indicator . Monitors adult , pediatric and neonates. Bright LCD with large digital numerics. BCI Compatible.</p> <p>Pulse rate : 25 to 250 bpm. % SpO2: 0 to 100%. Perfusion: 0.1 to 20%. Saturation Accuracy : Without motion adult : 70% to 100% +/- 2 digits , Neonates : 70% to 100% +/- 3 digits, With motion Adult: 70% to 100% +/- 3 digits, Neonates : 70% to 100% +/- 4 digits. Pulse Rate Accuracy Without motion: 25 to 250 bpm +/- 3 digits , With motion : 25 to 250 bpm +/- digits.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	14 Nos.		
23	<p><u>Laparoscope with complete set CO2 insufflators, Monitor, Camera</u></p> <ol style="list-style-type: none"> 1. Hands Instruments For Laparoscopic Surgery (Complete Set) 2. High Defination HDTV Compatible Video System Center 3. Xenon Light Source 300W with emergency halogen lamp 4. Electronic CO2 Insufflator with large digital display. Flow Rate 20L/Min 5. High Defination Medical Grade LCD Color Monitor 26" 6. Video Trolley with antistatic castor, Key board drawer, camera head hanger. <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	02 Nos.	01 No. 01 No. 01 No. 01 No. 01 No. 01 No.	

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<p>24</p>	<p><u>Infant Warmer</u></p> <p>Radiant Heater for Neonates Operational condition : +18°C ~ + 30°C. Environment temperature: 30% ~75%. Environment relative humidity : <0.3m/s . Power requirement: <=1000VA. Temperature control mode : auto . Temperature control range : 25°C ~37°C Temperature sensor accuracy : <=0.3°C. Mattress temperature infirmity : <=2.0°C. Temperature raise time : <=45 min Heat out put indicate : 0~100%. Radiant box horizon angle adjust range : 0~+/-90° step-less . Mattress tray size: 68cm x 56cm . Mattress tray max load: 10 kg</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent</p>	<p>02 Nos.</p>		
<p>25</p>	<p><u>Ultrasound Machine with UPS and Vaginal Probe</u></p> <p>High Resolution Digital Ultrasound Diagnostic Equipment with Fully Digital Beam Former for Abdominal/Ob/ Gynae, Cardiac, Small Parts, Urology, Vascular, Nerve studies. System having Dicom Compatibility: Main Ultrasound Portable Unit Tilt able Digital Color 15'' LCD Display or more. 2.0 to 5.0 MHz Triple Frequency Convex Probe with additional THI Frequencies. System should have Built-in Recharge able Battery</p> <p><u>SPECIFICATION :</u></p> <p>Scan Mode : B, B/B,4B,B/M and M-Mode B/M Scan : Scanning Methods: Electronic Convex, Electronic Linear. B-Mode : Electronic Scan Depth: 30cm or more. M-Mode : 4-Scroll Speed Gain Adjustment: Gain: STC: 8-Steps or more. Display : Format -B/M Scan: B(Single, Dual, Zoom : Vertical Zoom with Upwards and</p> <p>Following software should be provided as standard: 1. Trapezoid imaging/wide view imaging. 2. Quick scan for image optimization. 3. Compound Scanning.</p> <p>Wide range of measurement functions with 8-ch. Calipers, distance area (trace, ellipse) Circumference, fetal growth measurement package with 6-different methods for Ob / Gynae. Twin Pregnancy measurement package and cardiac methods measurement with report function facility. Built-in Cine Loop upgradable to Dicom connectivity: Dicom Storage, Dicom Print, Dicom Media Storage. Data Management System with 320GB or more Hard Disk Drive built in to system to store and retrieve the Images along with Data output through USB. System should be quoted with sono black & white printer. FDA and CE marked.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	<p>02 Nos.</p>		
<p>26</p>	<p><u>A-Scan with Pachymetry</u></p> <p>PC based device compatible with windows Operating system Portable easy to use Up to date IOL calculation with post refractive formula Optional Pachymetry probe</p> <p>Gain : Up to 130 dB Probe fro A-Scan : 10 MHz with fixation light Range of measurement : From 1 to 60mm Operating Modes : Phakic. Aphakic. Pseudo-Phakic. Cataractous, Manual, Automatic Velocity : Pre defined for every segment or user defined</p>	<p>01 No.</p>		

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	Measurement : Up to 15 measurement with mean and standard deviation Complete with computer system. Country of origin: USA/UK/Japan/Western Europe/ Equivalent.			
27	Applanation Tonometer Country of origin: USA/UK/Japan/Western Europe/ Equivalent.	01 Nos.		
28	Photo Therapy Unit - Special Super Blue Light Technology - Maximum Protection and Fast Treatment - Five Different Adjustable Light Intensity Level from 30 $\mu\text{w}/\text{cm}^2$ – 120 $\mu\text{w}/\text{cm}^2$ - Quite Operation and Cooling without Fan - Auto Shutdown and Alert Warning Feature - Adjustable Height - Focusing Light (red) - Time and Date Display - Baby Skin Temp. Monitoring - LED Life up to 20 000 Hours Country of origin: USA/UK/Japan/Western Europe/ Equivalent	06 Nos.		
29	Sonicad Digital Country of origin: USA/UK/Japan/Western Europe/ Equivalent.	03 Nos.		
30	Portable Ultrasound Machine High Resolution Digital Ultrasound Diagnostic Equipment with Fully Digital Beam Former for Abdominal/Ob/ Gynae, Cardiac, Small Parts, Urology, Vascular, Nerve studies. System having Dicom Compatibility: Main Ultrasound Portable Unit Tilt able Digital Color 15" LCD Display or more. 2.0 to 5.0 MHz Triple Frequency Convex Probe with additional THI Frequencies. System should have Built-in Recharge able Battery SPECIFICATION : Scan Mode : B, B/B,4B,B/M and M-Mode B/M Scan : Scanning Methods: Electronic Convex, Electronic Linear. B-Mode : Electronic Scan Depth: 30cm or more. M-Mode: 4-Scroll Speed Gain Adjustment: Gain: STC: 8-Steps or more. Display : Format –B/M Scan: B(Single, Dual, Zoom : Vertical Zoom with Upwards and Following software should be provided as standard: 1. Trapezoid imaging/wide view imaging. 2. Quick scan for image optimization. 3. Compound Scanning. Wide range of measurement functions with 8-ch. Calipers, distance area (trace, ellipse) Circumference, fetal growth measurement package with 6-different methods for Ob / Gynae. Built-in Cine Loop upgradable to Dicom connectivity: Dicom Storage, Dicom Print, Dicom Media Storage. Data Management System with 320GB or more Hard Disk Drive built in to system to store and retrieve the Images along with Data output through USB. System should be quoted with sono black & white printer. FDA and CE marked. Country of origin: USA/UK/Japan/Western Europe/ Equivalent.	02 Nos.		
31	Defibrillator with ECG & Paeds Accessories Defibrillator with Built-in Monitor, Recorder:Manual, synchronized Defibrillator with built-in monitor and 2-Channel	01		

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	<p>recorder for ECG and Monitoring, mains200-240VAC 50 Hz and rechargeable battery. Built-in Self test Functions like Automatic capacitor test etc. Output energy 2 to 250j or more.Charging Time 3 Sec or better for 200J, 5 Sec or better for 250J charging in AC operation or fully charged new battery, Bi-Phasic Transthorasic waveform delivery system. ECG through paddles and patient cable. Monitor size 5.6 inch or more ,Color LCD, Lead synchronizer, sweep speed 25 or 50mm/sec, Digital display of heart rate with high/low alarm. Automatic external Defibrillation is available with additional optional disposable pad adapter Cable and disposable pads. when shockable rhythm is detected. Automatically starts Charging for Hands free defibrillation. System should have multiple capacitor banks to have good charge back up in case of capacitor failure. System should have option for Muti-parameters monitoring for future upgrade. One can Easily add measuring parameters such as SpO₂ and CO₂. Adults and paed's paddles, built-in recorder, speed 25mm/sec or equivalent withStandard paper. The recorder should automatically start when charge button is pressed and stops 15Sec or earlier after discharge. Main Unit, complete with External paddles for paed's and adults, Rechargeable battery and standards Accessories should be quoted.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
<p>32</p>	<p><u>NIBP Monitor</u></p> <p>Monitor to display ECG, Resp, NIBP, SpO₂ & Temp as standard. 15" color TFT Touch Screen display resolution 1024 x 768 Waveforms display 8 or better Trend recording: 1-72 hour or better <u>ECG</u> : Input: 5 lead ECG cable as standard Lead choice: I, II, III, aVF, AVL, V, Test Gain choice: x0.5, x1, x2, x4 HR Display Range: 30-300bpm NIBP : Method: automatic oscillating measurement Pulse Rate Range: 30-250(bpm) Adult / Pediatric Mode: Sys 40-250 (mmHg) DIA: 15-200(mm Hg) Neonatal Mode Sys: 40-135 (mmHg) DIA:15-100(mmHg) <u>SpO₂</u> : Anti Motion SpO₂ SpO₂% Range : 0-100% Pulse rate Range: 30-250bpm SpO₂ probe: red light LED wavelength 660nm 5nm <u>Temperature</u> : Range: 25- 50(°C) Display Resolution : 0.1 °C Channel : 2 channels <u>Respiration</u>: Method : RA-LL impedance Range : 0-120rpm</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	<p>03 Nos.</p>		
<p>33</p>	<p><u>Dynamape Monitor (Pulse/BP/O₂ Satoration)</u></p> <p>Monitor to display ECG, Resp, NIBP, SpO₂ & Temp as standard. 15" color TFT Touch Screen display resolution 1024 x 768 Waveforms display 8 or better Trend recording: 1-72 hour or better <u>ECG</u> : Input: 5 lead ECG cable as standard Lead choice : I, II, III, aVF, AVL, V, Test Gain choice : x0.5, x1, x2, x4 HR Display Range: 30-300bpm</p>	<p>05 Nos.</p>		

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	<p>NIBP : Method: automatic oscillating measurement Pulse Rate Range: 30-250(bpm) Adult / Pediatric Mode: Sys 40-250 (mmHg) DIA: 15-200(mm Hg) Neonatal Mode Sys: 40-135 (mmHg) DIA:15-100(mmHg) SpO2 : Anti Motion SpO2 SpO2% Range : 0-100% Pulse rate Range: 30-250bpm SpO2 probe: red light LED wavelength 660nm 5nm Temperature : Range: 25- 50(°C) Display Resolution : 0.1 °C Channel : 2 channels Respiration: Method : RA-LL impedance Range : 0-120rpm</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
34	<p>Cardiac Monitor</p> <p>Cardiac Monitor to display ECG, Resp, NIBP, SpO2 & Temp as standard. Capability for other parameters measurement such as IBP dual and ETCO2 15" color TFT Touch Screen display resolution 1024 x 768. Waveforms display 8 or better Trend recording: 1-72 hour or better ECG : Input: 5 lead ECG cable as standard Lead choice : I, II, III, aVF, AVL, V, Test Gain choice : x0.5, x1, x2, x4 HR Display Range: 30-300bpm NIBP : Method: automatic oscillating measurement Pulse Rate Range: 30-250(bpm) Adult / Pediatric Mode: Sys 40-250 (mmHg) DIA: 15-200(mm Hg) Neonatal Mode Sys: 40-135 (mmHg) DIA:15-100(mmHg) SpO2 : Anti Motion SpO2 SpO2% Range : 0-100% Pulse rate Range: 30-250bpm SpO2 probe: red light LED wavelength 660nm 5nm Temperature : Range: 25- 50(°C) Display Resolution : 0.1 °C Channel : 2 channels Respiration: Method : RA-LL impedance Range : 0-120rpm</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	03 Nos.		
35	<p>Portable Anaesthesia Machine with Vaporizer</p> <p>Complete with all standard accessories</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	02 Nos.		
36	<p>Multipara Monitor</p> <p>Multipara Monitor to display ECG, Resp, NIBP, SpO2 & Temp as standard. Capability for other parameters measurement such as IBP dual and ETCO2 15" color TFT Touch Screen display resolution 1024 x 768 Waveforms display 8 or better Trend recording: 1-72 hour or better ECG : Input: 5 lead ECG cable as standard</p>	02 Nos.		

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	<p>Lead choice : I, II, III, aVF, AVL, V, Test Gain choice : x0.5, x1, x2, x4 HR Display Range :30-300bpm NIBP : Method :automatic oscillating measurement Pulse Rate Range : 30-250(bpm) Adult / Pediatric Mode: Sys 40-250 (mmHg) DIA: 15-200(mm Hg) Neonatal Mode Sys: 40-135 (mmHg) DIA:15-100(mmHg) SP02 : Anti Motion Sp02 Sp02% Range : 0-100% Pulse rate Range : 30-250bpm Sp02 probe: red light LED wavelength 660nm 5nm Temperature : Range: 25- 50(°C) Display Resolution: 0.1 °C Channel : 2 channels</p> <p>Respiration: Method : RA-LL impedance Range : 0-120rpm</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
37	<p>Portable X-Ray Machine</p> <p>300MA INVERTER TYPE MOBILE /PORTABLE X-RAY UNIT. <u>X-RAY GENERATOR:</u> - TYPE: INVERTER (40KHZ, 18KW OR BETTER) - KV RANGE: 40KV TO 125KV OR MORE IN 2KV OR LESS STEPS. - MAS RANGE: 0.5MAS TO 100MAS MINIMUM. - MA RANGE: MAX. 300 MA <u>X-RAY TUBE UNIT:</u> - FOCUS SIZE: 1.0 MM OR BETTER - TARGET ANGLE: 16° APPROX. <u>X-RAY BEAM LIMITING DEVICE:</u> - MANUAL TYPE - PROJECTOR LAMP: HALOGEN - FILTRATION: 1.2MM AL. EQ. (TOTAL FILTRATION MIN. 2.5MM AL. EQ.). <u>MOVEMENT RANGE OF X-RAY TUBE (CENTER OF X-RAY TUBE):</u> - VERTICAL: 47CM TO 205CM FROM FLOOR TO FOCUS OR MORE - HORIZONTAL: MAX. 115CM - LATERAL PIVOTING OF X-RAY TUBE: ±90° - LONGITUDINAL PIVOTING OF X-RAY TUBE: 90° FORWARD, 15° BACKWARD - HORIZONTAL ROTATION OF ARM: ±45° <u>CASSETTE BOX:</u> - FOR STORAGE OF AT LEAST 8 CASSETTES.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	01 No.		
38	<p>Auto Processor 100 mm</p> <p>Tabletop film processor which can process all common film-types and formats used in conventional standard radiography, X-Ray Film Processor with Continuous roller transport system. 3 selectable processing speed of 90 sec/120sec/180 sec. Can have a speed to process minimum 100 Sheets per hour at 90sec speed, 10 x 12" film or better for the maximum size film. Can process 8" X 10" to 14" x 17" size films. Should have tank capacity of 3.5L or more for developer, 2L or more for fixer and 2L or more for washer with an additional replenishment tank for developer and fixer. Thermistor controlled for developer</p>	01 No.		

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	and dryer . Over heat prevention system, circuit breaker. Country of origin: USA/UK/Japan/Western Europe/ Equivalent.			
39	<p>Re Processor for Dialyzing</p> <p><u>Features</u></p> <ul style="list-style-type: none"> The dialyzer reprocessing system for hollow fiber dialyzer. This system is easy to use and reliable, consistent reprocessing of artificial kidney. This machine have a digital display for dialyzer type selection, (low flux, High flux & High Efficiency dialyzer) The machine is fully automatic integrated reprocessing machine, able to clean, test and fill the dialyzer with disinfectants. Multiple selectable program options on the front panel. The machine have user control panel, which includes program diagnostic display alarm, automatic filling of Sterilant into a dialyzer, after fiber bundle volume and leak test have passed. The machine automatically calculated concentrate amount of Sterilant needed. The machine has a single chemical Sterilant take up tube. The reprocessing time around 08 minutes for each dialyzer. Water requirement must continually meet requirement listed in ANSI/AAMI standard for hemodialysis system AAMI recommended practice for use of hemodialyzer. Venous Line Clamp – Secure venous outlet line Color coding – Provides visual cues to dialyzer orientation Header Integrity Test – Diagnostic test to verify that the header is on securely with o-ring in place Failed Volume Test – Limits the number of volume retests to two Culture Sample Cycle – Separate cycle for ease of taking water samples Water Purity: It is in accordance with AAMI/ANSI standard for hemodialysis system. RD-62 & RD-47 Inlet Pressure: 138 – 279.3 Kpa (22 – 55 Psig) Average Flow rate: 1.75 liter per minute Water temperature: 59 – 75 F° (15 – 24 C°) Drain: Higher than 6 inches (15 cm) above top surface of machine. Electrical Voltage:220-240 VAC - 50-60 Hz - 450 VA <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	02 Nos.		
40	<p>Oto Scope</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	03 Nos.		
41	<p>Complete Dental Operatory System</p> <p>Consisting of following:- <u>DOCTOR'S TRAYS</u></p> <ul style="list-style-type: none"> - 3 Hand pieces (2 high speed, 1 slow speed electrical motor). - Flexible balance arm with air break system. - Water flow control. - Individual air pressure controls. - One 3-way syringe for doctor with auto claveable / disposable 	30 Nos.		

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	<p>tips.</p> <ul style="list-style-type: none"> - Air operated foot switch with chair control. - X-Ray Viewer compatible with the unit. <p>Control panel having following functions</p> <ul style="list-style-type: none"> - Chair control - 2-preset (a) Gargling position (b) Zero position - Bowl flush - Cup filler - Keypad lock <p>DENTAL CHAIR</p> <ul style="list-style-type: none"> - Hydraulic chair. - Arm rests - adjustable headrest - Built in junction box. <p>JUNCTION BOX</p> <ul style="list-style-type: none"> -Air, Water, supplylines. - water filter, Air filter -Safe electrical compartment with Transformer, fuse, main switch etc to give output. 24 V AC for safety Main 220/240V. <p>DENTAL LIGHT:</p> <ul style="list-style-type: none"> -Up, down, back, forward and inverse movements of the light head. <p>CUSPIDOR UNIT</p> <ul style="list-style-type: none"> - 180° rotatable removable and washable spittoon. - closed water system. <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
42	<p>Dental Stool Doctor Side</p> <ul style="list-style-type: none"> -Revolving on 5 castors, with back support. <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	30 Nos.		
43	<p>Dental Stool Assistant Side</p> <ul style="list-style-type: none"> -Revolving on 5 castors, with arm support. <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	30 Nos.		
44	<p>Slow Speed Electrical Motor</p> <ul style="list-style-type: none"> - Speed: 20000 rpm - Along with Straight hand piece attachment 1:1 - Contra angle hand piece attachment 1:1 - Latch bur changing system <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	30 Nos.		
45	<p>Ultrasonic Scalar</p> <ul style="list-style-type: none"> - Built in <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	10 Nos.		
46	<p>Light Cure Unit LED Cordless</p> <p>Cordless LED curing lamp with charging system.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	10 Nos.		
47	<p>Cone Beam or Digital OPG with CEPH</p> <ul style="list-style-type: none"> - Should have following: 	01 No.		

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	<p>WITH 3D IMAGING SYSTEM <u>STANDARD EXAMINATION PROGRAMS</u> Adult Panoramic/Ceph Child Panoramic/Ceph TMJ Open/Close mouth Maxillary Sinus P-A Corpus View <u>ADULT HALF-PANORAMIC (RIGHT AND LEFT)</u> <u>CHILD HALF-PANORAMIC (RIGHT AND LEFT)</u> <u>"IMPLANT " PACKAGE – TREATMENT PLANNING.</u> - Facility to take image of the patient on wheel chair <u>SOFTWARE:</u> System must be supplied with a Software for image acquisition, Storage and Processing & printing. <u>PC WORK STATION FOR IMAGE PRODUCTION STORAGE & PRINTING</u> <u>IMAGE ACQUISITION</u> Direct acquisition through Ethernet connection Acquisition on USB peripheral <u>IMAGE HARDCOPY.</u> Images can be printed on any Window compatible printer. Image can be printed with following parameters - Patient data and examination date Exposure parameters <u>LOCAL AREA NETWORK CONNECTIVITY</u></p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
48	<p><u>Laryngoscope</u></p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	04 Nos.		
49	<p><u>Infusion Pump</u></p> <p>Volumetric peristaltic infusion pump. Flow rate 0.1 to 99.9 ml/h. Unit compatible with most IV set. Memory function incase of power failure to retain the most recent flow rate & total volume. Comprehensive alarm for Air in line, occlusion, door open, low battery, infusion complete, empty container. Built in battery with battery charger. Unit complete with IV sets.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	07 Nos.		
50	<p><u>Syringe Pump</u></p> <p>Syringe pump for use in ICU, CCU, NICU or Operation room for the infusion of chemical such as vasopressor drugs, anti cancer drugs, oxytocic, nutrituin, drug for chemotherapy medication and blood transfusion. Use of 100ml syringe. Anti bolus and anti siphon function. 3 sensors . Lockable keypad. Flow rate rang : 0.1-99.9ml/h, 100-155ml/h, Volume infused: 0.1-99999ml, Volume to be infused: 0.1-99999ml Compatible syringe: 10,20,30,50/60, 100ml or more Audio-Visual Alarms Low battery, Very low battery, Occulusion, X min pre-alam, (KVO) XX ml/h, End of infusion Syringe empty, Illegal syringe ,Plunger not fitted, Clamp opened, Internal error Nurse call system Built – in battery with 8 hours back up.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	07 Nos.		

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51	<p><u>Phototherapy Light (Branded)</u></p> <p>Input power : $\leq 200VA$. Light source : blue light tube . Tube quantity: 5 . Light source effective life : 2000hours . Wave length : $425nm \sim 475nm$. Light radiancy : $\leq 550uW/cm^2$. Time display range : 99h 59min . Display time accuracy : 2 h +/- 1 min . Adjust angle 30° , 60° , 90° .</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	05 Nos.		
52	<p><u>Diathermy Plain , Fine Forceps</u></p> <p>Microprocessor digital technology. Mono polar and bipolar cut and coagulation. Seven different types of current Pure , blend I, blend II, blend III, bipolar, spray and contact. Patient return electrode monitoring. 400W maximum out put. Two modes of bi polar coagulation (99 Watts maximum power) and soft coagulation (50 Watts maximum power). Memory function as standard. Pure cut 400W at 500ohms. Blend I: 230W at 300 ohm, Blend II: 180W at 300 ohms, Blend III: 120W at 300 ohms. Contact coagulation :100W at 300 ohms. Spray coagulation : 80W at 500 ohms. Biopolar coagulation: 99W at 100 ohms. 50 W at 100 ohm . Main frequency 400,500,800KHz +/- 10%. Repetition rate : 20,33KHz +/- 10%. High frequency leakage current : less than 150mA. Low frequency leakage current: patient leads to Ground: Less than 0.01mA, chassis to ground : Less than 0.1mA. Unit complete with: bipolar forceps reusable bipolar forceps cable. Reusable mono polar handle with cable. Reusable twin button handle with cable. Electrodes . double foot switch. Single foot switch. Disposable dual return plate. Reusable return plate cable. Reusable metal plate with cable.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	10 Nos.		
53	<p><u>Fiberoptic Laryngoscope</u></p> <p>Direction of View: Forward viewing Depth Of Field: 5 - 100 mm Outer Diameter: 4.8 mm Angulation Range Up 130° , Down Working Length 130° Inner Diameter: 365 mm 2.2 mm Halogen Light Source 150 W</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	04 Nos.		
54	<p><u>Cell Separator machine</u></p> <p>Initially configured of platelets with concurrent plasma, the Amicus Separator has been developed with an eye to the future. Further capacity for new procedures and protocols has been designed into the system.</p> <ol style="list-style-type: none"> 1. The Amicus touch screen is easy to use, giving clear operator instructions and detailed procedural information. 2. Solution and Component scales provide precise measurement for automated procedures and product transfer. 3. A separate anti-coagulant pump and scale guarantee accurate and automatic anti-coagulant control. 4. Self-loading pumps simplify and speed up Amicus Aphaeresis kit installation. Six pumps and three automatic, multi-pathway cassettes offer capacity for future procedures. 5. The Amicus Aphaeresis kit is provide in a tray whereby the components, including and easy-to-load centrifuge pack, 	01 No.		

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	<p>are layered. This guides the operator through the correct loading technique.</p> <p>6. A quiet, high-efficiency centrifuge provides consistent product volumes with shorter collection times.</p> <p>7. Compact construction, smooth glide wheels and retraceable solution pole facilitate Amicus mobility.</p> <p>8. Amicus data downloading capabilities provide detailed procedural report.</p> <p>Automation: it is fully automated micro processed controlled computerized online system</p> <p>Mobility: it has big caster wheel and can be transported to any place.</p> <p>Closed System: it is truly closed system.</p> <p>Extra corporeal volume: it has low extra corporeal volume of 209 ml with single arm and 204 ml with dual arm procedure.</p> <p>Touch screen user interface: it has large prominent touch screen to provide the procedure and collection information during the procedure.</p> <p>Yield control: it has inbuilt yield estimator to provide the desired count to be collected and the cell left out in the donor.</p> <p>Prevention of Contamination: it has in built optical sensor called interphase detector to ensure contamination-free components.</p> <p>Feature for Donor Safety:</p> <ul style="list-style-type: none"> • It has built in pressure monitor. • It has over pressure detection mechanism, with over pressure detection controls and alarms. • It has flow controls algorithm. • It has automated cuff inflation and deflation. • In-addition it also has automated prompt grip, which inflates automatically in case of low blood flow. • Battery back-up: it has an in built 20 min battery backup to store data & can operate hours on a commercially available 3 KVA UPS. <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>			
55	<p><u>Aggitator</u></p> <p>The ultrasonic processor UP100H (100W, 30kHz) is the perfect device for the sonication of small and medium size lab samples. This compact, yet powerful, lab homogenizer is commonly used for sample preparation, such as emulsifying, dispersing, dissolving and cell disruption.</p> <p>The ultrasonic processor UP100H (100 watts, 30kHz) has the same compact and ergonomic design as the UP50H (50 watts, 30kHz) but it comes with twice the ultrasonic power. At 1.1kg, it is lightweight in the hand. Of course, an operation at a stand is possible, too. The ultrasonic generator and the transducer are combined in one unit, so that there are no hassles with connecting cables. One power supply cable - that's all. This device is most suitable for the ultrasonication of very small as well as medium-sized samples. With the use of the sonotrode MS10 the range of application expands to the sonication of volumes of up to 500ml.</p> <p>Country of origin: USA/UK/Japan/Western Europe/ Equivalent.</p>	01 No.		
56	<p><u>Screening analyzer (Chemoimmuloneses)</u></p> <ul style="list-style-type: none"> • The analyzer must be based on Chemiluminescence technology offering enhanced assay sensitivity and extended linearity. 	01 No.		

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	<ul style="list-style-type: none"> • Throughput of up to 100 Immunoassay tests per hour. • The on board capacity of minimum 25 reagents at a time, with on-board refrigeration. • The analyzer must have an efficient sample handler for Continuous Random & STAT Access. • Should be capable of reporting STAT parameters in <30 minutes. (Trop I, CKMB, BNP & Beta HCG) • Continuous reagents loading & unloading without pausing or stopping the tests in process. • The analyzer must offer extended on board stability and calibration curve validity of 30 days. • The system should provide the capability of tracking reagents on-board stability in hours for efficient reagent management to avoid wastage in slow running parameters. • IA reagents, calibrators and controls must be liquid ready to use. • Automated management of retest, reflex and dilution testing without operator intervention. • System capable of handling multiple tube types and sizes at the same time. • The System should offer a broad Immunoassay Menu including Complete Viral, Reproductive & Congenital Profile, Therapeutic Drugs, Transplant, Cardiac Profile, Thyroid Profile, Tumor Markers & Metabolic profile including Vit-D. - The system should allow integration with Clinical chemistry analyzer for simultaneous IA & CC testing from one tube on a single platform by one operator. • System should offer the "Remote Diagnostics" facility for proactive monitoring to avoid system break down. <p>Country of Origin: USA / EU / Japan/Equivalent</p>			
57	<p><u>Coagulation Analyzer fully automated</u></p> <p><u>Overview :</u> fast, flexible, accurate photo-optical, fully automated coagulometer suitable for clotting, chromogenic and immunoturbidimetric assays using plasma. Detection principle:</p> <ul style="list-style-type: none"> • Photo-optical • 4 x laser optics utilising 405nm wavelength • Suitable for icteric and lipaemic samples <p>Measurement:</p> <ul style="list-style-type: none"> • Clotting • Chromogenic • Immunoturbidimetric • Sample processing: • Plasma sample • Cap piercing • 24 position sample rack • Up to 110 PT/Hour • Up to 45 APTT/Hour • Stat sample position • Suitable for spun primary sample tubes • Integrated barcode for primary patient IDs 	01 No.		

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	<p>Main features</p> <ul style="list-style-type: none"> • Simple, comprehensive, walk away operation • Integrated barcode reader • On-board printer • Dedicated TECAM software • Automatic plasma dilutions • Automatic calibration curves and quality control • Single or duplicate sample analysis • Complete positive patient ID • Integrated bar code reader for fast, accurate sample loading • STAT position for quick and easy emergency sample analysis • Cap piercing ensures operator safety with direct access to sealed primary tubes (includes needle guard) • Micro volume procedures • Reagent dead volumes less than 300µl • Low consumption of consumables: Rinse (<1ml/test) Clean (<15ml/day) • Fully programmable, allowing optimisation of existing tests and design of new test protocols • Integrated thermal printer <p>Country of Origin: USA / EU / Japan/Equivalent</p>			
58	<p><u>Double Head Microscope with Camera and Monitor</u></p> <p>Country of Origin: USA / EU / Japan/Equivalent</p>	02 No.		
59	<p><u>Haematology analyzer 5 part</u></p> <p><u>Supplied complete with:</u></p> <ul style="list-style-type: none"> ▪ Instrument Computer. ▪ Workstation Computer ▪ Computer Accessory Kit ▪ LCD Monitor <p>Fully Automated Hematology Cytometry Analyzer with Autoloader</p> <ul style="list-style-type: none"> ▪ Reports Blood Cells Counts, 5 Part Differential, Reticulocyte Counting. ▪ Calculates the Maturation Index of the Reticulocytes*. <p><u>26 Parameters:</u> WBC, NE , NE%, LY, LY%, MO , MO%, EO , EO%, BA, BA%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PCT, PDW, RETIC , RETIC%, IRF* , MRV**.</p> <p><u>Method and Technology:</u></p> <ul style="list-style-type: none"> ▪ Flow Cytometry, Triplicate Counting, Coincidence Correction, Pulse Editing, Sweep Flow, Extended Platelet Counting. ▪ Ergonomic Space Saving Design Including Tower PC and Thin Film Transistor (TFT) Monitor. ▪ Walk Away Automation System with Autoloader for Continuous Sample Loading and Stat samples. <p><u>Result Management:</u></p> <ul style="list-style-type: none"> ▪ Comprehensive Flagging System of 38 Suspect and Definitive Flags for Abnormal Cells Types and Patterns. ▪ Detection on WBC, RBC and Platelets Lineages. ▪ Laboratory Defined Quantitative Abnormalities and High/Low Ranges Flags ▪ Adaptable Laboratory Report including Ability to Print Normal ranges and High/low Flags. 	02 Nos.		

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	<ul style="list-style-type: none"> ▪ IRF: Immature Reticulocyte Fraction ▪ MRV: Mean Reticulocyte Volume <p><u>Sampling Characteristics:</u></p> <ul style="list-style-type: none"> ▪ 185 µl Whole Blood Closed Vial Sampling ▪ 125µL Whole Blood Open Vial Sampling. ▪ 50 µl Whole Blood Predilution Mode. ▪ 50µL Whole Blood Retic Mode. ▪ Automatic Probe Wipe and Wash in Manual Mode. ▪ Throughput: Approx. 75 samples/Hour ▪ Sample Capacity: 5 cassettes of 5 tubes each. ▪ Tube size: Diam.:10-16mm, Length: 47-77mm, ▪ Capacity:2-7ml ▪ Positive Bar Code ID: Codabar, NW 7, Code 39, Code 128, Interleaved 2-of-5, ▪ Specimen Integrity Check During and After Aspiration. <p><u>Data Management:</u></p> <ul style="list-style-type: none"> ▪ 3 different levels of User Access for security of data and system configuration. ▪ At least 20,000 numeric patient results, including graphic results and listmode data ▪ An unlimited number of user-definable control files. ▪ An unlimited number of patient control files. ▪ Setup of files for each shift worked. ▪ Record Reagent Information Lot numbers etc. ▪ Entry of control data from diskette. ▪ AutoStop in the event of unacceptable control data. ▪ A database of Location and Physician ▪ User defined decision rules to optimize and standardize laboratory processes 24hrs a day. ▪ Transmission of patient results, control results, numeric and graphic to as host computer. <p><u>Quality Control Management:</u></p> <ul style="list-style-type: none"> ▪ Storage and analysis of commercial control data ▪ Daily instrument checks ▪ Patient results by Operator ▪ Storage of patient results with XB analysis with Auto-Stop function after two successive batches exceed limits. ▪ Archive any or all control data to USB/ Hard Drive. ▪ Inter-laboratory Quality Assurance Program <p><u>Day-to-Day Use:</u></p> <ul style="list-style-type: none"> ▪ Zero Routine Maintenance Utilizing Patented Electronic Aperture Cleaning after Every Cycle and Cleaning -Shut Down Reagent. Automatic Startup and Shutdown without user intervention. ▪ Local Language Software and Customer Manuals (English, French, German, Italian, Japanese, Spanish) ▪ Customer Training Kit with Training Manual and Hematology Histograms CBT (English only). <p><u>Host Communication:</u></p> <ul style="list-style-type: none"> ▪ Bi-directional communication capability with laboratory information system (RS-232C) ▪ Accepts pre-assigned work list from LIS including patient demographics. ▪ Choice of primary sample identifiers. ▪ Editable results with addition of appropriate comments <p>Transmission of numerical sample results, flags, graphics and Quality Control results to Host.</p> <p>Country of Origin: USA / EU / Japan/Equivalent.</p>			
60	<p><u>Shaking Water Bath</u></p> <p>Country of Origin: USA / EU / Japan/Equivalent.</p>	01 No.		

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61	<u>High Speed Centrifuge (400ml capacity refrigerated with all accessories)</u> Country of Origin: USA / EU / Japan/Equivalent.	01 No.		
62	<u>High Speed Centrifuge 17000 rpm 24x1.5/2ml Tubes.</u> Country of Origin: USA / EU / Japan/Equivalent.	01 No.		
63	<u>Vorter Mixer</u> Country of Origin: USA / EU / Japan/Equivalent.	02 Nos.		
64	<u>Heat Block</u> Country of Origin: USA / EU / Japan/Equivalent.	01 No.		
65	<u>UV Spectrophotometer</u> Country of Origin: USA / EU / Japan/Equivalent.	01 No.		
66	<u>Autoclave CSD central sterilization</u> Fully automatic Micro-processor control system. 40 liter Chamber capacity Auto lock pressure door with double lock . With Auto dry, re dry and exhaust function. Door close indicator. Low water indicator. Chamber and tank water level indicator. Unit should capable for automatic shutdown if over pressure. . Sterilization temperature / pressure :121C(1.05KG/CM2/34C(2.07KG/CM2). 140 ° Design temperature. 3 KW Power consumption. Country of Origin: USA / EU / Japan/Equivalent.	02 Nos.		
67	<u>Chemistry Analyzer (fully automatic)</u> Fully Automated Chemistry Analyzer along with Eliza System Open System. Fully Automated Bio Chemistry Analyzer Capable to do the Elisa Tests Throughput - up to 200 tests / hour Capabilities: dilution, pre-dilution, dispensing single or multi reagents. Typical reaction volume: 200 ul or less. Standard Reagent Rack - for 27 Sample Loading Capacity - up to 96 Samples Linear Range - -0.2 to 3.0 A Reaction Vessel – Standard Micro wells, strips or plates. Temperature Controller Liquid - Surface setting Probe tip.4 Channel Optical System with 8 wavelength. Certifications NRTL Listed, CE marked & FDA Approved. Country of Origin: USA / UK/E.U/Japan/Equivalent.	01 No.		
68	<u>Ultrasonic Water Bath (USA / EU / Japan)</u> Country of Origin: USA / UK/E.U/Japan/Equivalent.	01 No.		
69	<u>Binocular Microscope Head Incline 45 & 360 Rotating Coaxial Coarse and Fine Focusing Adjustment</u> Country of Origin: USA / UK/E.U/Japan/Equivalent.	01 No.		
70	<u>Centrifuge Machine (12 holes)</u> Country of Origin: USA / UK/E.U/Japan/Equivalent.	09 Nos.		
71	<u>Vacuum Extractor</u> Country of Origin: USA / UK/E.U/Japan/Equivalent.	02 Nos.		

J. Salma

72	<u>Mercural Sphygmomanometer (mobile) with Stand and Wheels</u> Country of Origin: USA / UK/E.U/Japan/Equivalent.	10 Nos.		
73	<u>Electrolyte Analyzer and Electrodes (Single Channel)</u> Touch screen with colors and graphics. Step by step user prompts .Self-calibrating and monitoring. Plug-in reagent pack Results stored on-board or download to thumb drive.Designed and packaged for compatibility NIST traceable Calibrations. Long stability at room temperature.Verified precision, linearity, and correlation with reference methods & top-of-the-line products. Electronically tracks percent remaining and monitors expiration date Three-level quality control.Highest quality materials and craftsmanship.Designed for performance monitoring for membrane deterioration or damage Self wetting system with monitoring for bubbles, clots, leaks, and worn tubing "Smart" software provides warnings, reminders, and error messages Environmentally friendly materials. Self-contained waste bag with safety valve protection. Detailed user manual in English and Spanish Fully tested for electrical safety. Programmed to conform to established laboratory protocols. The software allows selection of a variety of performance options. Patient and quality control reference ranges and patient identification numbers are conveniently entered via the numeric keypad Intuitive user-friendly screen prompts. Automatically stores data for Levey-Jennings plots CE Marked & FDA Approved. Country of Origin: USA / UK/E.U/Japan/Equivalent.	01 No.		
74	<u>X-Ray Tube-1000MA for Angiography Machine</u> <u>Model: Infinix-CS!</u> Country of Origin: USA / UK/E.U/Japan/Equivalent.	One Unit		
75	<u>X-RAY MACHINE 500 MA</u> <u>GENERATOR:</u> Microprocessor controlled, three phase, High frequency 40kW or more Generator. Automatic line compensation, overload tube protection.kV : 40 to 125 kV or more, mA : 10 to 500 mA or better, Exposure time from 1ms to 10 sec. Out put power: 500 mA @ 80 KVp, 400 mA @ 100 KVp , 300 mA @ 125 KVp. Anatomical program 500 or more. 2 or 3 points selection parameter Power supply : 400 V (+/-10%) three phase . <u>X-RAY TUBE:</u> Dual Focus 1.0/2.0, Max Tube 125 to 150 kVp or better, Anode Heat Capacity 140 kHU or more. 1 Pair of HV cables 12 m length or more <u>TUBESTAND:</u> Tubestand height: 230cm , Counterbalanced vertical movement with electromagnetic brakes , Tube rotation: $\pm 180^\circ$ with position detent every 90, Control panel to control vertical,	One Unit		

Signature

<p>longitudinal and transverse travel. Goniometer for X-Ray beam incidence angulations indication.</p> <p><u>FOUR WAY FLOATING TABLE TOP WITH FIXED HEIGHT :</u> Dimensions of the patient panel: 220cm x 80cm approx, Longitudinal table travel +/- 45cm (90cm) & Lateral table travel +/- 11.5cm (23cm) , Movement control via electromagnetic brake . Ion Chamber Cabinet for AEC . Potter Bucky for cassettes sizes up to 35x43cm or better , Anti-scattering grid : Ratio 10:1 . Longitudinal bucky travel, 45 cm or better.</p> <p><u>COLLIMATOR:</u> Manual collimator with square shutters and light centering, LED Light indicator for alignment with bucky.Lamp timing. Retractable measuring tape</p> <p><u>VERTICAL BUCKY STAND:</u> Wall mounted ,monocolumnbucky vertical run not less than 150 cm , Stop by mechanical brake . Potter bucky for cassette size from 18 x24 to 35x43cm with either side of the tray. Ion Chamber Cabinet for AEC.Mechanical or magnetic lock brakes for the vertical travel positioning Or equivalent Country of Origin: USA / UK/E.U/Japan/Equivalent.</p>			
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Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

Submal

[Signature]

SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 9 SUPPLY & INSTALLATION OF CENTRAL OXYGEN SYSTEM FOR
CARDIAC EMERGENCY CENTER LANDHI

Tender Enquiry No. Sr.Dir (M&HS)/Tender/Proc/2014/09

Due Date of Opening on 22-04-2014

Time of Receipt of Tender.....1:00 P.m.

Time of Opening of Tender.....1:30 P.m.

Item NO.	Description	Req. Qty.	Make & Model	Manufacturer
1	Complete Medical Engineering System	1		
	Specification:			
	Copper Pipeline:			
	Copper Tube as per HTM0201 EN13348 and EN1254 Inc Tube, Fittings, Brackets, ID Tape and Silver Solder			
	Copper Pipe 1"	RFT 250		
	Copper Pipe 3/4"	RFT 2800		
	Copper Pipe 1/2"	RFT 3600		
	Outlet Points.			
	Medical Gases outlet points surface type, wall mounted. In accordance with the Healthcare Technical Memorandum HTM0201.			
	Oxygen Outlet Points	69		
	Air Outlet Points 4 bar	4		
	Nitrous Oxide	4		
	Vaccum Outlets	65		
	Surgical Air Point	1		
	Isolation Valves			
	Complete with Valve Adapter and socket, Isolating.			
	Valve 3/8	4		
	Valve 1/2	24		
	Valve 3/4	15		
	Valve 1	2		
	Medical Air Plant			
	Medical Compressed Air Plant 7 Bar fully complied with HTM 0201/C11 Duplex Air Compressors, Dryers and Filtration 600 Ltrs/Min	1		
	By Pass System			
	By pass system with network of pipeline system and isolation valves to connect the stand by compressor and refrigeration dryer, in case of emergency.			
	Control Panel			
	Installation testing, commissioning in accordance with HTM0201 standards, alongwith purging, painting inclusive of misc. accessories such as gases, welding rods etc...			
	Oxygen Supply Manifold			
	Emergency Oxygen Manifold 2 x 5 complied to HTM0201/ C11 and HTM0201. Complete with two way valve, pressure regulating regulator and 10 nos. tail connection with non-return adaptors.	1		

A. Lalwani

	Zone Service Units			
	Zone Service Unit complete box with isolation valve and adapter.	35		
	Medical Gas Alarm	1		
	Supplying and installation of Alarm System of different gases and mute/test facility, gives sound and flash light whenever. The pressure in line decreases the set pressure for individual gas i.e.			
	Oxygen	1		
	Medical Air 4 bar	1		
	Flowmeter Set			
	Oxygen flowmeter 0-15 lpm, complete with humidifier and probe, in accordance with HTM0201 standards	50		
	Suction Injector Unit (Vacuum Controllers)			
	Vacuum Controller with bacterial filter complete with O2 ltrs (2000ml) collection jar and probe in accordance with HTM0201 standards	70		
	Bed Head Unit.			
	Aluminium Bed Head Panels 4.5 ft.	70		
	Adjustable sliding plates, flexibility, in outlet points positioning, complete with wiring and internal, flexible gas tubing and with 04 electrical sockets.			
	Ceiling Pendant for Theatre			
	- Ceiling pendants with 300° rotating arm	4		
	- Outlets with arm for			
	- With color coded hoses & terminal unit.			
	- User-definable hose length integral list fix check valves.			
	- Electrical Sockets			
	6 x Electrical Sockets, schuko/F type Switches.			
	Internationally recognized HTM Standard 0201			
	G - Alarm Area with Remote Sensor upto Six Gases			
	Individual display and sensor module.			
	Self diagnostic & error message display readable for case of maintenance psi. Kpa or bar read out. Test & Mute Button, low alarm condition.			
	2 Gases			
	4 Gases			
	5 Gases			
	Internationally recognized HTM Standard 0201			
	Duplex Medical Vacuum System			
	- Medical Vacuum Capacity of each Vacuum System is 675 L/min per vacuum pump,			
	- Vacuum level @ 700-725 mm Hg. Flex connectors,			
	- Vibration Isolation,			
	- Pads			
	- Hours meters			
	- Circuit barkers			
	- Vacuum pump run lights			
	- Tank mounted system / Vertical Tank Capacity Ltr.			
	Hydropressure tested on 16 bar			

S. Salma

- Motor Power 3 kW (220-255 /380-440V 50/60 Hz			
Energy Efficiency class 2 (IE2)			
- Automatic Electric Panel			
- Electrical Inverter Control System			
Save 35% electricity			
- Automatic Electric Panel			
- Automatic Phase Sequence controlling			
Over voltage / under voltage			
- Automatic Duplex Pump Control System			
- Automatic Duplex Pump Control System			
Country of Origin: USA / UK/E.U/Japan/Equivalent.			

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

of Salmaali

**SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 7 SUPPLY & INSTALLATION OF CENETRAL OXYGEN SYSTEM FOR
CARDIAC EMERGENCY CENTER SHAH FAISAL**

Tender Enquiry No. Sr.Dir (M&HS)/Tender/Proc/2014/07

Due Date of Opening on 22-04-2014

Time of Receipt of Tender.....1:00 P.m.

Time of Opening of Tender.....1:30 P.m.

Item NO.	Description	Req. Qty.	Make & Model	Manufacturer
1	Complete Medical Engineering System	1		
	<u>Specification:</u>			
	<u>Copper Pipeline:</u>			
	Copper Tube as per HTM0201 EN13348 and EN1254 Inc Tube, Fittings, Brackets, ID Tape and Silver Solder			
	Copper Pipe 1"	RFT 250		
	Copper Pipe 3/4"	RFT 2200		
	Copper Pipe 1/2"	RFT 4000		
	<u>Outlet Points.</u>			
	Medical Gases outlet points surface type, wall mounted. In accordance with the Healthcare Technical Memorandum HTM0201			
	Oxygen Outlet Points	70		
	Air Outlet Points 4 bar	35		
	Nitrous Oxide	70		
	<u>Isolation Valves</u>			
	Complete with Valve Adapter and socket, Isolating.			
	Valve 3/8	4		
	Valve 1/2	24		
	Valve 3/4	15		
	Valve 1	2		
	<u>Medical Air Plant</u>			
	Medical Compressed Air Plant 7 Bar fully complied with HTM 0201/C11 Duplex Air Compressors, Dryers and Filtration 600 Ltrs/Min	1		

S. Salmaal

	<u>By Pass System</u>			
	By pass system with network of pipeline system and isolation valves to connect the stand by compressor and refrigeration dryer, in case of emergency.			
	<u>Control Panel</u>			
	Change over electric control panel complete with installation for compressor and dryer.			
	Installation testing, comissioning in accordance with HTM0201 standards, alongwith purging, painting inclusive of misc. accessories such as gases, welding rods etc...			
	<u>Oxygen Supply Manifold</u>			
	Emergency Oxygen Manifold 2 x 8 complied to HTM0201, C11 and HTM2022. Complete with two way valve, pressure regulating regulator and 16 nos. tail connection with non-return adaptors.	1		
	<u>Zone Service Units</u>			
	Zone Service Unit complete box with isolation valve and adapter.	15		
	<u>Medical Gas Alarm</u>	1		
	Supplying and installation of Alarm System of different gases and mute/test facility, gives sound and flash light whenever. The pressure in line decreases the set pressure for individual gas i.e.			
	Oxygen	1		
	Medical Air 4 bar	1		
	<u>Flowmeter Set</u>			
	Oxygen flowmeter 0-15 lpm, complete with humidifier and probe, in accordance with HTM0201 standards	70		
	<u>Suction Injector Unit (Vacuum Controllers)</u>			
	Vacuum Controller with bacterial filter complete with O2 ltrs (2000ml) collection jar and probe in accordance with HTM0201 standards	70		
	<u>Bed Head Unit.</u>			
	Aluminium Bed Head Panels 4.5 ft.	55		
	Adjustable sliding plates, flexibility, in outlet points positioning, complete with wirig and internal, flexible gas tubing and with O4 electrical sockets.			

I. Salmal

	USA-UK-Japan			
1	Complete Medical Engineering System	1		
	<u>Specification:</u>			
	<u>Copper Pipeline:</u>			
	Copper Tube as per HTM0201 EN13348 and EN1254 Inc Tube, Fittings, Brackets, ID Tape and Silver Solder			
	Copper Pipe 1"	RFT 250		
	Copper Pipe 3/4"	RFT 2200		
	Copper Pipe 1/2"	RFT 4000		
	<u>Outlet Points.</u>			
	Medical Gases outlet points surface type, wall mounted. In accordance with the Healthcare Technical Memorandum HTM0201			
	Oxygen Outlet Points	70		
	Air Outlet Points 4 bar	35		
	Nitrous Oxide	70		
	<u>Isolation Valves</u>			
	Complete with Valve Adapter and socket, Isolating.			
	Valve 3/8	4		
	Country of Origin: USA / UK/E.U/Japan/Equivalent.			

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

S. Salma

SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 8 SUPPLY & INSTALLATION OF CENTRAL OXYGEN SYSTEM FOR
LANDHI MEDICAL COMPLEX, KMC

Tender Enquiry No. Sr.Dir (M&HS)/Tender/Proc/2014/08

Due Date of Opening on 22-04-2014

Time of Receipt of Tender.....1:00 P.m.

Time of Opening of Tender.....1:30 P.m.

Item No.	Description	Req. Qty.	Make & Model	Manufacturer
1	Complete Medical Engineering System	1		
	<u>Specification:</u>			
	<u>Copper Pipeline:</u>			
	Copper Tube as per HTM0201 EN13348 and EN1254 Inc Tube, Fittings, Brackets, ID Tape and Silver Solder			
	Copper Pipe 1"	RFT 250		
	Copper Pipe 3/4"	RFT 2800		
	Copper Pipe 1/2"	RFT 3600		
	<u>Outlet Points.</u>			
	Medical Gases outlet points surface type, wall mounted. In accordance with the Healthcare Technical Memorandum HTM0201			
	Oxygen Outlet Points	70		
	Air Outlet Points 4 bar	35		
	Nitrous Oxide	70		
	<u>Isolation Valves</u>			
	Complete with Valve Adapter and socket, isolating.			
	Valve 3/8	4		
	Valve 1/2	24		
	Valve 3/4	15		
	Valve 1	2		
	<u>Medical Air Plant</u>			
	Medical Compressed Air Plant 7 Bar fully complied with HTM 0201/C11 Duplex Air Compressors, Dryers and Filtration 600 Ltrs/Min	1		

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	<u>By Pass System</u>			
	By pass system with network of pipeline system and isolation valves to connect the stand by compressor and refrigeration dryer, in case of emergency.			
	<u>Control Panel</u>			
	Change over electric control panel complete with installation for compressor and dryer.			
	Installation testing, commissioning in accordance with HTM0201 standards, along with purging, painting inclusive of misc. accessories such as gases, welding rods etc...			
	<u>Oxygen Supply Manifold</u>			
	Emergency Oxygen Manifold 2 x 8 complied to HTM0201, C11 and HTM0201. Complete with two way valve, pressure regulating regulator and 16 nos. tail connection with non-return adaptors.	1		
	<u>Zone Service Units</u>			
	Zone Service Unit complete box with isolation valve and adapter.	15		
	<u>Medical Gas Alarm</u>	1		
	Supplying and installation of Alarm System of different gases and mute/test facility, gives sound and flash light whenever. The pressure in line decreases the set pressure for individual gas i.e.			
	Oxygen	1		
	Medical Air 4 bar	1		
	<u>Flowmeter Set</u>			
	Oxygen flowmeter 0-15 lpm, complete with humidifier and probe, in accordance with HTM2022 standards	70		
	<u>Suction Injector Unit (Vacuum Controllers)</u>			
	Vacuum Controller with bacterial filter complete with O2 ltrs (2000ml) collection jar and probe in accordance with HTM0201 standards	70		
	<u>Bed Head Unit.</u>			
	Aluminium Bed Head Panels 4.5 ft. Adjustable sliding plates, flexibility, in outlet points positioning, complete with wiring and internal,	50		

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	flexible gas tubing and with 04 electrical sockets.			
	Country of Origin: USA / UK/E.U/Japan/Equivalent.			

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

of Salma

SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 5 PURCHASE OF SURGICAL DISPOSABLES/ INJECTABLES
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/5
Due Date of Opening on 22-04-2014
Time of Receipt of Tender.....1:00 P.m.
Time of Opening of Tender.....1:30 P.m.

Item #	Description	Req. Qty.	Make & Model	Manufacturer
1	Chest Tube No. 28 & 32	150 Each		
2	Chromic 2/0	15 Dozen		
3	Chromic No. 0	15 Dozen		
4	Chromic No. 1	15 Dozen		
5	Cotton Bandage 4"	400 Dozen		
6	Cotton Roll 400g	280 Rolls		
7	Crape Bandage 4"	280 Dozen.		
8	Crape Bandage 6"	380 Dozen.		
9	D/ Gloves (1 x 100)	1200 Pkt		
10	Disposable Syring 10cc (1 x 100)	6000 Boxes		
11	Disposable Syring 20cc (1 x 100)	800 Boxes		
12	Disposable Syring 3cc (1 x 100)	2000 Boxes		
13	Disposable Syring 5cc (1 x 100)	1200 Boxes		
14	Drip set	6000 Nos.		
15	E.T.T Tube 8	300 Nos.		
16	E.T.Tube Size 4 & 4.5 (100 Each)	200 Nos.		
17	E.T.Tube Size 6 & 6.5 (250 Each)	500 Nos.		
18	E.T.Tube Size 7 & 7.5 (1500 Each)	3000 Nos.		
19	Feeding Syring 60cc (1 X 100)	8 Boxes		
20	I/V Cannula No. 18 & 20 with stopper (1400 Each)	2800 Nos.		
21	I/V Cannula No. 22 with stopper	2000 Nos.		
22	I/V Cannula No. 24 with stopper	1200 Nos.		
23	N/G No. 16 & 18	800 Nos.		
24	P.O.P 4"	1400 Nos.		
25	P.O.P 6"	2000 Nos.		
26	Proline 0	05 Dozen		
27	Proline 1	10 Dozen		
28	Proline 2/0 RoundBody Needle	04 Dozen		
29	Proline 2/0 Straight Needle	08 Dozen		
30	Proline 5/0	02 Dozen		

S. Salma

31	Proline 6/0	02 Dozen		
32	Pyodine Scrub 450ml	80 Bottles		
33	Rectal Catheter No. 20 & 22	700 Nos.		
34	Silk 2/0	12 Dozen		
35	Silk 4/0	08 Dozen		
36	Silk No. 0	15 Dozen		
37	Silk No. 1	15 Dozen		
38	Silk No. 2/0	07 Dozen		
39	Spinal Needle No. 25	50 Nos.		
40	Sponge Stone	50 Pkts.		
41	Sticking Plaster Roll 4"	80 Pkts.		
42	Suction Catheter No. 12 & 16	1200 Nos.		
43	Surgical Blade No. 24	800 Nos.		
44	Surgical Gloves No. 6.5	1000 Pairs		
45	Surgical Gloves No. 7	1500 Pairs		
46	Surgical Gloves No. 7.5	1500 Pairs		
47	Surgical Gloves No. 7.5 & 7	1600 Nos.		
48	Urine Bag	2000 Nos.		
49	Vicryl No. 0	07 Dozen		
50	Vicryl No. 1	15 Dozen		
51	Vicryl No. 2/0	30 Dozen		
52	Vicryl No. 3/0	10 Dozen		
53	Vicryl No. 4/0	10 Dozen		
54	Xylocain Gel	400 Nos.		
55	Air Way Adult	200 Nos.		
56	Air Way Small	100 Nos.		
57	Disposable Ventilator Circuit Double Tubing	1000 Nos.		
58	HME Fitter for Ventilator	1000 Nos.		
59	CVP Lines Adult Size	1000 Nos.		
60	Disposable Kit for invasive Cardiac Output Monitor	500 Nos.		
61	Disposable Kit for Non Cardiac Output Monitor	500 Nos.		
62	Compressor Kit for Ventilator	10 Nos.		
63	Disposable Tubes Plastic with Purple Cork (500 / Pack)	600		
64	Laryngeal Mask, size 3	5 Ns.		
65	Laryngeal Mask, size 4	5 Nos.		
66	Laryngeal Mask, size 5	5 Nos.		
67	Inj. Heamacel	1500 Nos.		
68	Inj. Abocain Spinal	50 Amp		
69	Inj. Tracarium 50mg.	1000 Amp		
70	Inj. Adrenaline.	200 Amp		
71	Inj. Atropine.	1500 Amp		
72	Inj. Ceftriaxone 1g	800 Vials		

of Salma

73	Inj. Ciprofloxacin	2000 Vials		
74	Inj. Dexamethasone	9000 Amp		
75	Inj. Dobutrex	200 Amp		
76	Inj. Dopamine	480 Amp		
77	Inj. Diclofenac sodium	10000 Amp		
78	Inj. Hypozyme	500 Amp		
79	Inj. Nalbuphin 10mg	1500 Amp		
80	Inj. Levofloxacin	400 Vials		
81	Inj. Nospa	4000 Amp		
82	Inj. Propofol	500 Amp		
83	Inj. S. Choline	500 Amp		
84	Inj. Hydrocortisone 250mg	1600 Amp		
85	Inj. Tetavax	4000 Amp		
86	Inj. Toradol	2000 Amp		
87	Inj. Tramal	800 Amp		
88	Inj. Xylocain 2% plain	2000 Vials		
89	Inj. Ketamine 50mg/ 10ml	50 Vials		
90	Inj. Neo. Pyrolate	500 Amp		
91	Manitol	1200 Bottles		
92	Normal Saline 1000ml	3000 Bottles		
93	Ringer Lactate 1000ml	3000 Bottles		
94	25% D/Water	2000 Nos.		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

S. Salmagali

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SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 6 PURCHASE OF LABORATORY ITEMS
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/6

Due Date of Opening on 22-04-2014

Time of Receipt of Tender.....1:00 P.m.

Time of Opening of Tender.....1:30 P.m.

Item #	Description	Req. Qty.	Make & Model	Manufacturer
1	Methanol (Merck 2.5 Lt)			
2	Cell Pack Sysmex (20 Lt)	50		
3	Stromatolyzer 4DL Sysmex (5 Lt)	150		
4	Stromatolyzer 4DS Sysmex (126 ml)	15		
5	Sulfolyzer Sysmex X1 - 1000 (5 Lt)	12		
6	Stromatolyzer 4FB Sysmex (500 ml)	8		
7	Stromatolyzer W.H Sysmex KX - 20 (500 ml)	15		
8	Thermoborel S (PT) Siemens Sysmex (10 x 2)	200		
9	Actin Fs (APTT) Siemen Sysmex (10 x 4)	25		
10	Calcium Chloride (APTT) Siemen Sysmex (10 x 50)	25		
11	PT, APTT Control Citrol 1 E Siemen Sysmex (10 x 1)	10		
12	Citrol 2 Siemen Sysmex (10 x 1)	6		
13	Reaction Tubes SU - 40 Sysmex (3000 Per Box)	10		
14	Coulter Diff Active Pack Reagents (17 Kg)	7		
15	Field Stain A (Merck / BDH)	200		
16	Field Stain B (Merck / BDH)	30		
17	4 C Hematology Control 1 Box of total 09 vials (03 Normal Control. 03 Low & 03 High Abnormal) (Coulter 5 ml / Vial)	30		
18	Hematology Eight Check Control Sysmex Set(Sysmex 1.5 ml/2 vial Set)	12		
19	Retic Solution (Liquid) (1 Lit Merck / BDI1)	24		
20	Vacutainer (PT & APTT) (BD)	6		
21	Continuous Paper (2000 Pg) Local	20		
22	Cartridges (EPSON)	200		
23	Mega Unit Cell Separator Kits with ACD Solution (MCS/Haemonetics)	100		
24	MP (ICT) 1 x 40 Combo	200		
25	Vacutainer (CBC)	50		
26	Cell Separator machine (MCS / Haemonetics)	100b/1000		
27	Aggitator	1		
28	Screening analyzer (Chemoimmuloneses)	1		
29	Screening (Chemoimmuloneses)HBVKits	1		
30	Screening (Chemoimmuloneses)HCVKits	300b/100		
31	VDRL	150b/200		
32	HIV	25kits/100		
33	Dengue ICT Kits (Panbio/SD)	25kits/100		
		150Kits/25		

I. Salma

34	Multichannal Pipette	01 No.		
35	Vacuum Pump	01 No.		
36	PH Meter	01 No.		
37	Safety Cabinet Class II A2	01 No.		
38	UV Spectrophotometer	01 No.		
39	Adjustable Micropipette 1-10,10-100,100-1000 (Set of Three)	02 Nos.		
40	Roche Amplicor Amplification Kit	12 Nos.		
41	Roche HCV Genotyping Kit	12 Nos.		
42	QiAGin HCV PCR Kit	12 Nos.		
43	QiAGin HBV PCR Kit	12 Nos.		
44	QIAGIN DSP Nucleic Acid Extraction Kit	12 Nos.		
45	Tips Aerosol Barrier 1000 ul Dnase Rnase Free	10 Nos.		
46	Tips Aerosol Barrier 100 ul Dnase Rnase Free	10 Nos.		
47	Tips Aerosol Barrier 10 ul Dnase Rnase Free	10 Nos.		
48	1.5 ml Tubes Per Grade Dnase Rnase Free	10 Nos.		
49	50 ml Tubes Per Grade Dnase Rnase Free	1000 Nos.		
50	15 ml Tubes Per Grade	1000 Nos.		
51	4 Ways Racks fa (1.5,15, 50 ml)	05 Nos.		
52	Rotorgene 0.1 ml PCR Tubes 10,000	1500 Nos.		
53	Rotorgene 0.2 ml PCR Tubes 10,000	1500 Nos.		
54	Rnase Away	03 Nos.		
55	Absolute Ethanol Merck	05 Nos.		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

S. Salma

SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 3 PURCHASE OF SURGICAL INSTRUMENTS
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/3
Due Date of Opening on 22-04-2014
Time of Receipt of Tender.....1:00 P.m.
Time of Opening of Tender.....1:30 P.m.

Item #	Description	Req. Qty.	Make & Model	Manufacturer
1	Percutaneous Tracheotomy Kit (Sample Required)	500 Nos.		
2	Mini Tracheotomy Kit (Sample Required)	100 Nos.		
3	Pneumate Leg Compressor Kit for Prevention of DVT (Sample Required)	100 Nos.		
4	Oxygen Sensor (Sample Required)	20 Nos.		
5	Air Mixture (Sample Required)	10 Nos.		
6	Surgical Set (Sample Required)	06 Sets		
7	O.T Drums (for surgical sterilization) large size (Sample Required)	5 Nos.		
8	Oxygen Flowmeter (Sample Required)	32 Nos.		
9	Oxygen Regulator (Sample Required)	20 Nos.		
10	Paeds Laryngoscope with complete set of Blades (USA / EU / Japan) (Sample Required)	2 Nos.		
11	Adult Laryngoscope with complete set of Blades (USA / EU / Japan) (Sample Required)	1 No.		
12	Ambu Bag (Infant) (Sample Required)	5 Nos.		
13	Ambu Bag (Adult) (Sample Required)	10 Nos.		
14	Ambu Bag (Small) (Sample Required)	5 Nos.		
15	Mercural Sphygmomanometer (mobile) with stand and wheels (Sample Required)	10 Nos.		
16	Tinicum Forceps (Sample Required)	8 Nos.		
17	Gut Forceps 7.5" (Sample Required)	12 Nos.		
18	Lainiquis Forceps (Sample Required)	8 Nos.		
19	Disyoording Forceps (Sample Required)	8 Nos.		
20	D&C sets complete (Sample Required)	10 Nos.		
21	Artery Forceps Large, 8" (Sample Required)	24 Nos.		
22	Artery Forceps Curved 6" (Sample Required)	24 Nos.		
23	Artery Forceps Straight 8" (Sample Required)	24 Nos.		
24	Artery Forceps Curved (Mosquito) (Sample Required)	48 Nos.		
25	Allis Tissue Forceps 8" (Sample Required)	60 Nos.		
26	B.P. Handle 3 (Sample Required)	20 Nos.		
27	B.P. Handle 4 (Sample Required)	20 Nos.		

S. Salma

28	B.P. Handle 7 (Sample Required)	20 Nos.		
29	Chital Forceps (Sample Required)	24 Nos.		
30	Crushing Clamps (Pairs) (Sample Required)	6 Nos.		
31	Coscov Vaginal (Sample Required)	20 Nos.		
32	Episiotomy scissors curved " (Sample Required)	18 Nos.		
33	Forceps Clamp 6" (Sample Required)	20 Nos.		
34	Forceps Plain 10" (Sample Required)	10 Nos.		
35	Forceps 6" (Tooth) (Sample Required)	20 Nos.		
36	Forceps 7" (Babcock) (Sample Required)	20 Nos.		
37	Fine Curette with Handle (Sample Required)	10 Nos.		
38	Green Armatage 8" (Sample Required)	24 Nos.		
39	Kidney Tray small (Sample Required)	24 Nos.		
40	Kidney Tray medium (Sample Required)	24 Nos.		
41	Kidney Tray Large (Sample Required)	18 Nos.		
42	Kocher Forceps straight 10" (Sample Required)	60 Nos.		
43	Kocher Forceps curved 10" (Sample Required)	18 Nos.		
44	Kocher Forceps straight 8" (Sample Required)	24 Nos.		
45	Oxygen stand trolley (Sample Required)	5 Nos.		
46	Ovum Forceps 8" (Sample Required)	12 Nos.		
47	Sherman Curette (Sample Required)	12 Nos.		
48	Steel Basin, large size (Sample Required)	12 Nos.		
49	Steel Buckets with cover (Sample Required)	12 Nos.		
50	Sponge Holding Forceps 10" (Sample Required)	48 Nos.		
51	Scissors Plain Straight 7" S/S (Sample Required)	24 Nos.		
52	Scissors Curved 7" Mayo (Sample Required)	24 Nos.		
53	Scissors Curved 8" Mayo (Sample Required)	24 Nos.		
54	Scissors Curved 10" Mayo (Sample Required)	12 Nos.		
55	Scissors, straight, small, fine 5.5" (Sample Required)	12 Nos.		
56	Legging Back Retractor complete set (Sample Required)	4 Nos.		
57	Myoma Screw (Sample Required)	4 Nos.		
58	Deevers sets (Sample Required)	2 Nos.		
59	Doin Retractor (Sample Required)	12 Nos.		
60	Vacuum Rubber, silicon (Sample Required)	30 Nos.		
61	3 Mirror Contact Lens (Sample Required)	01 No.		

S. Salmah

62	Double Aspheric Lens 90 D-Volk (Sample Required)	01 No.		
63	Paeds Laryngo Scope with complete Sets of Blades (Sample Required)	02 Nos.		
64	Vacuum Cup Silastic for Viginal Delivery (Small & Medium) (Sample Required)	03 Nos.		
65	MVA Kit (Sample Required)	03 Nos.		
66	Sonicad Digital (Sample Required)	03 Nos.		
67	Nebulizer (Sample Required)	06 Nos.		
68	Gluko Meter (Sample Required)	04 Nos.		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

Salmah

SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 2 PURCHASE OF MACHINERY
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/2
Due Date of Opening on 22-04-2014
Time of Receipt of Tender.....1:00 P.m.
Time of Opening of Tender.....1:30 P.m.

Item #	Description	Req. Qty.	Make & Model	Manufacturer
1	Multimedia System with complete Accessories	03 No.		
2	Sound System with complete Accessories	01 No.		
3	Ultra Low Freezer	01 No.		
4	Electric Generator (10 KVA) with Gas Kit	01 No.		
5	Diesel Generator 50 KVA	02 Nos.		
6	Diesel/ Gas Generator 150 KVA	01 No.		
7	Computer System (Dual Core) Branded	23 Sets		
8	25 KV Generator	01 No.		
9	Split Air Conditioners 1.5 Tons	24 Nos.		
10	UPS for computers	23 Nos.		
11	Printer for Computers	23 Nos.		
12	LCD 42"	04 Nos.		
13	Refrigerator 16 cft (No Frost)	09 Nos.		
14	Electric Water Cooler	8 Nos.		
15	Electric Ceiling Fans	50 Nos.		
16	Deep Freezer	01 No.		
17	Micro Wave Oven	01 No.		
18	Audio Visual Aids	02 Nos.		
19	Overhead Projector	02 Nos.		
20	Weighing Machine for infant	06 Nos.		
21	Thump Impression Attendance Machine (Attached with Computer)	01 No.		
22	Photocopier DI	01 No.		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

Salmawal

SCHEDULE OF REQUIREMENT (TECHNICAL BID)
SR. NO. 4 PURCHASE OF FURNITURE & FIXTURE
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/4
Due Date of Opening on 22-04-2014
Time of Receipt of Tender.....1:00 P.m.
Time of Opening of Tender.....1:30 P.m.

Item #	Description	Req. Qty.	Make & Model	Manufacturer
1	Auditorium Chairs with folding writing desk support. (Sample Required)	250 Nos.		
2	Air Mettress for ICU Beds (Sample Required)	40 Nos.		
3	Over Bed Table (Sample Required)	50 Nos.		
4	Baby Cots (Iron, good quality) (Sample Required)	50 Nos.		
5	Office Table wooden 5' x 3' (Sample Required)	3 Nos.		
6	Revolving Chairs (Sample Required)	10 Nos.		
7	Office Chairs with Arms (Sample Required)	30 Nos.		
8	Chairs without Arms (Sample Required)	20 Nos.		
9	Computer Table (Sample Required)	10 Nos.		
10	Computer Chairs (Sample Required)	10 Nos.		
11	Counter Chairs (Sample Required)	10 Nos.		
12	Examination Couches (Sample Required)	5 Nos.		
13	Dining Table with Chairs (Sample Required)	2 sets		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

Salmaal

SCHEDULE OF REQUIREMENT (FINANCIAL BID)
 SR. NO. 1 PURCHASE OF ELECTRO MEDICAL EQUIPMENTS
 Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/01

Item #	Description	Req. Qty.	Rate	Amount
1	<u>Mobile Ventilator Capable with MRI</u>	06 Nos.		
2	<u>3 CHANNEL ECG MACHINE</u>	08 Nos.		
3	<u>Mobile Suction Machine</u>	12 Nos.		
4	<u>Defibrillator</u>	01 No.		
5	<u>Bed Side Multi Para Monitor</u>	10 Nos.		
6	<u>Central Monitor System</u>	01 No.		
7	<u>Fibroptic Broncho Scope Size 5mm</u>	01 No.		
8	<u>Non Invasive Cardiac Output Monitor</u>	01 No.		
9	<u>Gel Electrophoresis with Power Supply</u>	01 No.		
10	<u>O.T. Table with Power Battery</u>	02 Nos.		
11	<u>Surgical Diathermy</u>	14 Nos.		
12	<u>Anesthesia Machine with Ventilator</u>	02 Nos.		
13	<u>Electric Cautery</u>	01 No.		
14	<u>Phaco Emulsification</u>	02 Nos.		
15	<u>Yag Laser</u>	01 No.		
16	<u>Auto Refractometer</u>	02 Nos.		
17	<u>ETT Unit</u>	01 No.		
18	<u>Echo Cardiac Machine</u>	01 No.		
19	<u>Liasion Troponin-I Machine.</u>	01 No.		
20	<u>Incubators (Branded)</u>	07 Nos.		
21	<u>Delivery Table with Remote control</u>	02 Nos.		
22	<u>Pulse Oximeter (Infant) complete with probe</u>	14 Nos.		

J. Salma

23	<u>Laparoscope with complete set CO2 insufflators, Monitor, Camera</u>	02 Nos.		
	1. Hands Instruments For Laparoscopic Surgery (Complete Set)	01 No.		
	2. High Defination HDTV Compatible Video System Center	01 No.		
	3. Xenon Light Source 300W with emergency halogen lamp	01 No.		
	4. Electronic CO2 Insufflator with large digital display. Flow Rate 20L/Min	01 No.		
	5. High Defination Medical Grade LCD Color Monitor 26"	01 No.		
	6. Video Trolley with antistatic castor, Key board drawer, camera head hanger.	01 No.		
24	<u>Infant Warmer</u>	02 Nos.		
25	<u>Ultrasound Machine with UPS and Vaginal Probe</u>	02 Nos.		
26	<u>A-Scan with Pachymetry</u>	01 No.		
27	<u>Applanation Tonometer</u>	01 Nos.		
28	<u>Photo Therapy Unit</u>	06 Nos.		
29	<u>Sonicad Digital</u>	03 Nos.		
30	<u>Portable Ultrasound Machine</u>	02 Nos.		
31	<u>Defibrillator with ECG & Paeds Accessories</u>	01 Nos.		
32	<u>NIBP Monitor</u>	03 Nos.		
33	<u>Dynamape Monitor (Pulse/BP/O₂ Satoration)</u>	05 Nos.		
34	<u>Cardiac Monitor</u>	03 Nos.		
35	<u>Portable Anaesthesia Machine with Vaporizer</u>	02 Nos.		
36	<u>Multipara Monitor</u>	02 Nos.		
37	<u>Portable X-Ray Machine</u>	01 No.		
38	<u>Auto Processor 100 mm</u>	01 No.		
39	<u>Re Processor for Dialyzing</u>	02 Nos.		
40	<u>Oto Scope</u>	03 Nos.		
41	<u>Complete Dental Operatory System</u>	30 Nos.		

S. Samra

42	<u>Dental Stool Doctor Side</u>	30 Nos.		
43	<u>Dental Stool Assistant Side</u>	30 Nos.		
44	<u>Slow Speed Electrical Motor</u>	30 Nos.		
45	<u>Ultrasonic Scalar</u>	10 Nos.		
46	<u>Light Cure Unit LED Cordless</u>	10 Nos.		
47	<u>Cone Beam or Digital OPG with CEPH</u>	01 No.		
48	<u>Laryngoscope</u>	04 Nos.		
49	<u>Infusion Pump</u>	07 Nos.		
50	<u>Syringe Pump</u>	07 Nos.		
51	<u>Phototherapy Light (Branded)</u>	05 Nos.		
52	<u>Diathermy Plain , Fine Foceps</u>	10 Nos.		
53	<u>Fibroptic Laryngoscope</u>	04 Nos.		
54	<u>Cell Separator machine</u>	01 No.		
55	<u>Aggitator</u>	01 No.		
56	<u>Screening analyzer (Chemoimmuloneses)</u>	01 No.		
57	<u>Coagulation Analyzer fully automated</u>	01 No.		
58	<u>Double Head Microscope with Camera and Monitor</u>	02 No.		
59	<u>Haematology analyzer 5 part</u>	02 Nos.		
60	<u>Shaking Water Bath</u>	01 No.		
61	<u>High Speed Centrifuge (400ml capacity refrigerated with all accessories).</u>	01 No.		
62	<u>High Speed Centrifuge 17000 rpm 24x1.5/2ml Tubes.</u>	01 No.		
63	<u>Vorter Mixer</u>	02 Nos.		
64	<u>Heat Block</u>	01 No.		
65	<u>UV Spectrophotometer</u>	01 No.		

S. Salmaah

66	<u>Autoclave CSD central sterilization</u>	02 Nos.		
67	<u>Chemistry Analyzer (fully automatic)</u>	01 No.		
68	<u>Ultrasonic Water Bath (USA / EU / Japan)</u>	01 No.		
69	<u>Binocular Microscope Head Incline 45 & 360 Rotating Coaxil Coarse and Fine Focusing Adjustment</u>	01 No.		
70	<u>Centrifuge Machine (12 holes)</u>	09 Nos.		
71	<u>Vacuum Extractor</u>	02 Nos.		
72	<u>Mercural Sphygmomanometer (mobile) with Stand and Wheels</u>	10 Nos.		
73	<u>Electrolyte Analyzer and Electrodes (Single Channel)</u>	01 No.		
74	<u>X-Ray Tube-1000MA for Angiography Machine Model: Infinix-CSI</u>	One Unit		
75	<u>X-RAY MACHINE 500 MA</u>	One Unit		

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Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

Subman
[Signature]

23

SCHEDULE OF REQUIREMENT (FINANCIAL BID)
SR. NO. 9 SUPPLY & INSTALLATION OF CENTRAL OXYGEN SYSTEM FOR
CARDIAC EMERGENCY CENTER LANDHI

Tender Enquiry No. Sr.Dir (M&HS)/Tender/Proc/2014/09

Item No.	Description	Req. Qty.	Rate	Amount
1	Complete Medical Engineering System	1		
	Specification:			
	Copper Pipeline:			
	Copper Tube as per HTM0201 EN13348 and EN1254 Inc Tube, Fittings, Brackets, ID Tape and Silver Solder			
	Copper Pipe 1"	RFT 250		
	Copper Pipe 3/4"	RFT 2800		
	Copper Pipe 1/2"	RFT 3600		
	Outlet Points.			
	Medical Gases outlet points surface type, wall mounted. In accordance with the Healthcare Technical Memorandum HTM0201.			
	Oxygen Outlet Points	69		
	Air Outlet Points 4 bar	4		
	Nitrous Oxide	4		
	Vaccum Outlets	65		
	Surgical Air Point	1		
	Isolation Valves			
	Complete with Valve Adapter and socket, Isolating.			
	Valve 3/8	4		
	Valve 1/2	24		
	Valve 3/4	15		
	Valve 1	2		
	Medical Air Plant			
	Medical Compressed Air Plant 7 Bar fully complied with HTM 0201/C11 Duplex Air Compressors, Dryers and Filtration 600 Ltrs/Min	1		
	By Pass System			
	By pass system with network of pipeline system and isolation valves to connect the stand by compressor and refrigeration dryer, in case of emergency.			
	Control Panel			
	Installation testing, commissioning in accordance with HTM0201 standards, alongwith purging, painting inclusive of misc. accessories such as gases, welding rods etc...			
	Oxygen Supply Manifold			
	Emergency Oxygen Manifold 2 x 5 complied to HTM0201/ C11 and HTM0201. Complete with two way valve, pressure regulating regulator and 10 nos. tail connection with non-return adaptors.	1		
	Zone Service Units			
	Zone Service Unit complete box with isolation valve and adapter.	35		

S. Samra

	Medical Gas Alarm	1		
	Supplying and installation of Alarm System of different gases and mute/test facility, gives sound and flash light whenever. The pressure in line decreases the set pressure for individual gas i.e.			
	Oxygen	1		
	Medical Air 4 bar	1		
	Flowmeter Set			
	Oxygen flowmeter 0-15 lpm, complete with humidifier and probe, in accordance with HTM0201 standards	50		
	Suction Injector Unit (Vacuum Controllers)			
	Vacuum Controller with bacterial filter complete with O2 ltrs (2000ml) collection jar and probe in accordance with HTM0201 standards	70		
	Bed Head Unit,			
	Aluminium Bed Head Panels 4.5 ft.	70		
	Adjustable sliding plates, flexibility, in outlet points positioning, complete with wiring and internal, flexible gas tubing and with 04 electrical sockets.			
	Ceiling Pendent for Theatre			
	- Ceiling pendants with 300° rotating arm	4		
	- Outlets with arm for			
	- With color coded hoses & terminal unit.			
	- User-definable hose length integral list fix check valves.			
	- Electrical Sockets			
	6 x Electrical Sockets, schuko/F type Switches.			
	Internationally recognized HTM Standard 0201			
	G - Alarm Area with Remote Sensor upto Six Gases			
	Individual display and sensor module.			
	Self diagnostic & error message display readable for case of maintenance psi. Kpa or bar read out. Test & Mute Button, low alarm condition.			
	2 Gases			
	4 Gases			
	5 Gases			
	Internationally recognized HTM Standard 0201			
	Duplex Medical Vacuum System			
	- Medical Vacuum Capacity of each Vacuum System is 675 L/min per vacuum pump,			
	- Vacuum level @ 700-725 mm Hg. Flex connectors,			
	- Vibration Isolation,			
	- Pads			
	- Hours meters			
	- Circuit barkers			
	- Vacuum pump run lights			
	- Tank mounted system / Vertical Tank Capacity Ltr.			
	Hydropressure tested on 16 bar			
	- Motor Power 3 kW (220-255 /380-440V 50/60 Hz			
	Energy Efficiency class 2 (IE2)			
	- Automatic Electric Panel			

S. Salma

	- Electrical Inverter Control System			
	Save 35% electricity			
	- Automatic Electric Panel			
	- Automatic Phase Sequence controlling			
	Over voltage / under voltage			
	- Automatic Duplex Pump Control System			
	- Automatic Duplex Pump Control System			
	Country of Origin: USA / UK/E.U/Japan/Equivalent.			

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

S. Zahra

SCHEDULE OF REQUIREMENT (FINANCIAL BID)
SR. NO. 7 SUPPLY & INSTALLATION OF CENETRAL OXYGEN SYSTEM FOR
CARDIAC EMERGENCY CENTER SHAH FAISAL
Tender Enquiry No. Sr.Dir (M&HS)/Tender/Proc/2014/07

Item No.	Description	Req. Qty.	Rate	Amount
1	Complete Medical Engineering System	1		
	<u>Specification:</u>			
	<u>Copper Pipeline:</u>			
	Copper Tube as per HTM0201 EN13348 and EN1254 Inc Tube, Fittings, Brackets, ID Tape and Silver Solder			
	Copper Pipe 1"	RFT 250		
	Copper Pipe 3/4"	RFT 2200		
	Copper Pipe 1/2"	RFT 4000		
	<u>Outlet Points.</u>			
	Medical Gases outlet points surface type, wall mounted. In accordance with the Healthcare Technical Memorandum HTM0201			
	Oxygen Outlet Points	70		
	Air Outlet Points 4 bar	35		
	Nitrous Oxide	70		
	<u>Isolation Valves</u>			
	Complete with Valve Adapter and socket, Isolating.			
	Valve 3/8	4		
	Valve 1/2	24		
	Valve 3/4	15		
	Valve 1	2		
	<u>Medical Air Plant</u>			
	Medical Compressed Air Plant 7 Bar fully complied with HTM 0201/C11 Duplex Air Compressors, Dryers and Filtration 600 Ltrs/Min	1		

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	<u>By Pass System</u>			
	By pass system with network of pipeline system and isolation valves to connect the stand by compressor and refrigeration dryer, in case of emergency.			
	<u>Control Panel</u>			
	Change over electric control panel complete with installation for compressor and dryer.			
	Installation testing, commissioning in accordance with HTM0201 standards, alongwith purging, painting inclusive of misc. accessories such as gases, welding rods etc...			
	<u>Oxygen Supply Manifold</u>			
	Emergency Oxygen Manifold 2 x 8 complied to HTM0201, C11 and HTM2022. Complete with two way valve, pressure regulating regulator and 16 nos. tail connection with non-return adaptors.	1		
	<u>Zone Service Units</u>			
	Zone Service Unit complete box with isolation valve and adapter.	15		
	<u>Medical Gas Alarm</u>	1		
	Supplying and installation of Alarm System of different gases and mute/test facility, gives sound and flash light whenever. The pressure in line decreases the set pressure for individual gas i.e.			
	Oxygen	1		
	Medical Air 4 bar	1		
	<u>Flowmeter Set</u>			
	Oxygen flowmeter 0-15 lpm, complete with humidifier and probe, in accordance with HTM0201 standards	70		
	<u>Suction Injector Unit (Vacuum Controllers)</u>			
	Vacuum Controller with bacterial filter complete with O2 ftrs (2000ml) collection jar and probe in accordance with HTM0201 standards	70		
	<u>Bed Head Unit.</u>			
	Aluminium Bed Head Panels 4.5 ft.	55		
	Adjustable sliding plates, flexibility, in outlet points positioning, complete with wiring and internal, flexible gas tubing and with 04 electrical sockets.			

J. Salmgah

	USA-UK-Japan			
1	Complete Medical Engineering System	1		
	<u>Specification:</u>			
	<u>Copper Pipeline:</u>			
	Copper Tube as per HTM0201 EN13348 and EN1254 Inc Tube, Fittings, Brackets, ID Tape and Silver Solder			
	Copper Pipe 1"	RFT 250		
	Copper Pipe 3/4"	RFT 2200		
	Copper Pipe 1/2"	RFT 4000		
	<u>Outlet Points.</u>			
	Medical Gases outlet points surface type, wall mounted. In accordance with the Healthcare Technical Memorandum HTM0201			
	Oxygen Outlet Points	70		
	Air Outlet Points 4 bar	35		
	Nitrous Oxide	70		
	<u>Isolation Valves</u>			
	Complete with Valve Adapter and socket, Isolating.			
	Valve 3/8	4		
	Country of Origin: USA / UK/E.U/Japan/Equivalent.			

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

L. Jalmaal

SCHEDULE OF REQUIREMENT (FINANCIAL BID)
SR. NO. 8 SUPPLY & INSTALLATION OF CENTRAL OXYGEN SYSTEM FOR
LANDHI MEDICAL COMPLEX, KMC

Tender Enquiry No. Sr.Dir (M&HS)/Tender/Proc/2014/08

Item No.	Description	Req. Qty.	Rate	Amount
1	Complete Medical Engineering System	1		
	<u>Specification:</u>			
	<u>Copper Pipeline:</u> Copper Tube as per HTM0201 EN13348 and EN1254 Inc Tube, Fittings, Brackets, ID Tape and Silver Solder			
	Copper Pipe 1"	RFT 250		
	Copper Pipe 3/4"	RFT 2800		
	Copper Pipe 1/2"	RFT 3600		
	<u>Outlet Points.</u> Medical Gases outlet points surface type, wall mounted. In accordance with the Healthcare Technical Memorandum HTM0201			
	Oxygen Outlet Points	70		
	Air Outlet Points 4 bar	35		
	Nitrous Oxide	70		
	<u>Isolation Valves</u> Complete with Valve Adapter and socket, Isolating.			
	Valve 3/8	4		
	Valve 1/2	24		
	Valve 3/4	15		
	Valve 1	2		
	<u>Medical Air Plant</u> Medical Compressed Air Plant 7 Bar fully complied with HTM 0201/C11 Duplex Air Compressors, Dryers and Filtration 600 Ltrs/Min	1		

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	<u>By Pass System</u> By pass system with network of pipeline system and isolation valves to connect the stand by compressor and refrigeration dryer, in case of emergency.			
	<u>Control Panel</u> Change over electric control panel complete with installation for compressor and dryer. Installation testing, commissioning in accordance with HTM0201 standards, along with purging, painting inclusive of misc. accessories such as gases, welding rods etc...			
	<u>Oxygen Supply Manifold</u> Emergency Oxygen Manifold 2 x 8 complied to HTM0201, C11 and HTM0201. Complete with two way valve, pressure regulating regulator and 16 nos. tail connection with non-return adaptors.	1		
	<u>Zone Service Units</u> Zone Service Unit complete box with isolation valve and adapter.	15		
	<u>Medical Gas Alarm</u> Supplying and installation of Alarm System of different gases and mute/test facility, gives sound and flash light whenever. The pressure in line decreases the set pressure for individual gas i.e.	1		
	Oxygen	1		
	Medical Air 4 bar	1		
	<u>Flowmeter Set</u> Oxygen flowmeter 0-15 lpm, complete with humidifier and probe, in accordance with HTM2022 standards	70		
	<u>Suction injector Unit (Vacuum Controllers)</u> Vacuum Controller with bacterial filter complete with O2 ltrs (2000ml) collection jar and probe in accordance with HTM0201 standards	70		
	<u>Bed Head Unit.</u> Adjustable sliding plates, flexibility, in outlet points positioning, complete with wiring and internal,			

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	flexible gas tubing and with 04 electrical sockets.			
	Country of Origin: USA / UK/E.U/Japan/Equivalent.			

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

of Salmalo

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SCHEDULE OF REQUIREMENT (FINANCIAL BID)
SR. NO. 6 PURCHASE OF LABORATORY ITEMS
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/6

Item #	Description	Req. Qty.	Rate	Amount
1	Methanol (Merck 2.5 Lt)			
2	Cell Pack Sysmex (20 Lt)	50		
3	Stromatolyzer 4DL Sysmex (5 Lt)	150		
4	Stromatolyzer 4DS Sysmex (126 ml)	15		
5	Sulfolyzer Sysmex X1 - 1000 (5 Lt)	12		
6	Stromatolyzer 4FB Sysmex (500 ml)	8		
7	Stromatolyzer W.H Sysmex KX - 20 (500 ml)	15		
8	Thermoborel S (PT) Siemens Sysmex (10 x 2)	200		
9	Actin Fs (APTT) Siemen Sysmex (10 x 4)	25		
10	Calcium Chloride (APTT) Siemen Sysmex (10 x 50)	25		
11	PT, APTT Control Citrol 1 E Siemen Sysmex (10 x 1)	10		
12	Citrol 2 Siemen Sysmex (10 x 1)	6		
13	Reaction Tubes SU - 40 Sysmex (3000 Per Box)	10		
14	Coulter Diff Active Pack Reagents (17 Kg)	7		
15	Field Stain A (Merck / BDH)	200		
16	Field Stain B (Merck / BDH)	30		
17	4 C Hematology Control 1 Box of total 09 vials (03 Normal Control. 03 Low & 03 High Abnormal) (Coulter 5 ml / Vial)	30		
18	Hematology Eight Check Control Sysmex Set(Sysmex 1.5 ml/2 vial Set)	12		
19	Retic Solution (Liquid) (1 Lit Merck / BDH)	24		
20	Vacutainer (PT & APTT) (BD)	6		
21	Continuous Paper (2000 Pg) Local	20		
22	Cartridges (EPSON)	200		
23	Mega Unit Cell Separator Kits with ACD Solution (MCS/Haemonetics)	100		
24	MP (ICT) 1 x 40 Combo	200		
25	Vacutainer (CBC)	50		
26	Cell Separator machine (MCS / Haemonetics)	100b/1000		
27	Aggitator	1		
28	Screening analyzer (Chemoimmuloneses)	1		
29	Screening (Chemoimmuloneses)HBVKits	1		
30	Screening (Chemoimmuloneses)HCVKits	300b/100		
31	VDRL	150b/200		
32	HIV	25kits/100		
33	Dengue ICT Kits (Panbio/SD)	25kits/100		
34	Multichannal Pipette	150Kits/25		
35	Vacuum Pump	01 No.		
36	PH Meter	01 No.		
		01 No.		

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37	Safety Cabinet Class II A2	01 No.		
38	UV Spectrophotometer	01 No.		
39	Adjustable Micropipette 1-10,10-100,100-1000 (Set of Three)	02 Nos.		
40	Roche Amplicor Amplification Kit	12 Nos.		
41	Roche HCV Genotyping Kit	12 Nos.		
42	QiAGin HCV PCR Kit	12 Nos.		
43	QiAGin HBV PCR Kit	12 Nos.		
44	QIAGIN DSP Nucliec Acid Extraction Kit	12 Nos.		
45	Tips Aerosol Barrier 1000 ul Dnase Rnase Free	10 Nos.		
46	Tips Aerosol Barrier 100 ul Dnase Rnase Free	10 Nos.		
47	Tips Aerosol Barrier 10 ul Dnase Rnase Free	10 Nos.		
48	1.5 ml Tubes Per Grade Dnase Rnase Free	10 Nos.		
49	50 ml Tubes Per Garde Dnase Rnase Free	1000 Nos.		
50	15 ml Tubes Per Grade	1000 Nos.		
51	4 Ways Racks fa (1.5,15, 50 ml)	05 Nos.		
52	Rotorgene 0.1 ml PCR Tubes 10,000	1500 Nos.		
53	Rotorgene 0.2 ml PCR Tubes 10,000	1500 Nos.		
54	Rnase Away	03 Nos.		
55	Absolute Ethanol Merck	05 Nos.		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

S. Salmaah

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SCHEDULE OF REQUIREMENT (FINANCIAL BID)
SR. NO. 5 PURCHASE OF SURGICAL DISPOSABLES/ INJECTABLES
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/5

Item #	Description	Req. Qty.	Rate	Amount
1	Chest Tube No. 28 & 32	150 Each		
2	Chromic 2/0	15 Dozen		
3	Chromic No. 0	15 Dozen		
4	Chromic No. 1	15 Dozen		
5	Cotton Bandage 4"	400 Dozen		
6	Cotton Roll 400g	280 Rolls		
7	Crape Bandage 4"	280 Dozen.		
8	Crape Bandage 6"	380 Dozen.		
9	D/ Gloves (1 x 100)	1200 Pkt		
10	Disposable Syring 10cc (1 x 100)	6000 Boxes		
11	Disposable Syring 20cc (1 x 100)	800 Boxes		
12	Disposable Syring 3cc (1 x 100)	2000 Boxes		
13	Disposable Syring 5cc (1 x 100)	1200 Boxes		
14	Drip set	6000 Nos.		
15	E.T.T Tube 8	300 Nos.		
16	E.T.Tube Size 4 & 4.5 (100 Each)	200 Nos.		
17	E.T.Tube Size 6 & 6.5 (250 Each)	500 Nos.		
18	E.T.Tube Size 7 & 7.5 (1500 Each)	3000 Nos.		
19	Feeding Syring 60cc (1 X 100)	8 Boxes		
20	I/V Cannula No. 18 & 20 with stopper (1400 Each)	2800 Nos.		
21	I/V Cannula No. 22 with stopper	2000 Nos.		
22	I/V Cannula No. 24 with stopper	1200 Nos.		
23	N/G No. 16 & 18	800 Nos.		
24	P.O.P 4"	1400 Nos.		
25	P.O.P 6"	2000 Nos.		
26	Proline 0	05 Dozen		
27	Proline 1	10 Dozen		
28	Proline 2/0 RoundBody Needle	04 Dozen		
29	Proline 2/0 Straight Needle	08 Dozen		
30	Proline 5/0	02 Dozen		
31	Proline 6/0	02 Dozen		
32	Pyodine Scrub 450ml	80 Bottles		
33	Rectal Catheter No. 20 & 22	700 Nos.		
34	Silk 2/0	12 Dozen		

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35	Silk 4/0	08 Dozen		
36	Silk No. 0	15 Dozen		
37	Silk No. 1	15 Dozen		
38	Silk No. 2/0	07 Dozen		
39	Spinal Needle No. 25	50 Nos.		
40	Sponge Stone	50 Pkts.		
41	Sticking Plaster Roll 4"	80 Pkts.		
42	Suction Catheter No. 12 & 16	1200 Nos.		
43	Surgical Blade No. 24	800 Nos.		
44	Surgical Gloves No. 6.5	1000 Pairs		
45	Surgical Gloves No. 7	1500 Pairs		
46	Surgical Gloves No. 7.5	1500 Pairs		
47	Surgical Gloves No. 7.5 & 7	1600 Nos.		
48	Urine Bag	2000 Nos.		
49	Vicryl No. 0	07 Dozen		
50	Vicryl No. 1	15 Dozen		
51	Vicryl No. 2/0	30 Dozen		
52	Vicryl No. 3/0	10 Dozen		
53	Vicryl No. 4/0	10 Dozen		
54	Xylocain Gel	400 Nos.		
55	Air Way Adult	200 Nos.		
56	Air Way Small	100 Nos.		
57	Disposable Ventilator Circuit Double Tubing	1000 Nos.		
58	HME Fitter for Ventilator	1000 Nos.		
59	CVP Lines Adult Size	1000 Nos.		
60	Disposable Kit for invasive Cardiac Output Monitor	500 Nos.		
61	Disposable Kit for Non Cardiac Output Monitor	500 Nos.		
62	Compressor Kit for Ventilator	10 Nos.		
63	Disposable Tubes Plastic with Purple Cork (500 / Pack)	600		
64	Laryngeal Mask, size 3	5 Ns.		
65	Laryngeal Mask, size 4	5 Nos.		
66	Laryngeal Mask, size 5	5 Nos.		
67	Inj. Heamacel	1500 Nos.		
68	Inj. Abocain Spinal	50 Amp		
69	Inj. Tracarium 50mg.	1000 Amp		
70	Inj. Adrenaline.	200 Amp		
71	Inj. Atropine.	1500 Amp		
72	Inj. Ceftriaxone 1g	800 Vials		
73	Inj. Ciprofloxacin	2000 Vials		
74	Inj. Dexamethasone	9000 Amp		
75	Inj. Dobutrex	200 Amp		
76	Inj. Dopamine	480 Amp		

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77	Inj. Diclofenac sodium	10000 Amp		
78	Inj. Hypozyme	500 Amp		
79	Inj. Nalbuphin 10mg	1500 Amp		
80	Inj. Levofloxacin	400 Vials		
81	Inj. Nospa	4000 Amp		
82	Inj. Propofol	500 Amp		
83	Inj. S. Choline	500 Amp		
84	Inj. Hydrocortisone 250mg	1600 Amp		
85	Inj. Tetavax	4000 Amp		
86	Inj. Toradol	2000 Amp		
87	Inj. Tramal	800 Amp		
88	Inj. Xylocain 2% plain	2000 Vials		
89	Inj. Ketamine 50mg/ 10ml	50 Vials		
90	Inj. Neo. Pyrolate	500 Amp		
91	Manitol	1200 Bottles		
92	Normal Saline 1000ml	3000 Bottles		
93	Ringer Lactate 1000ml	3000 Bottles		
94	25% D/Water	2000 Nos.		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

S. Samra

SCHEDULE OF REQUIREMENT (FINANCIAL BID)
SR. NO. 3 PURCHASE OF SURGICAL INSTRUMENTS
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/3

Item #	Description	Req. Qty.	Rate	Amount
1	Percutaneous Tracheotomy Kit (Sample Required)	500 Nos.		
2	Mini Tracheotomy Kit (Sample Required)	100 Nos.		
3	Pneumate Leg Compressor Kit for Prevention of DVT (Sample Required)	100 Nos.		
4	Oxygen Sensor (Sample Required)	20 Nos.		
5	Air Mixture (Sample Required)	10 Nos.		
6	Surgical Set (Sample Required)	06 Sets		
7	O.T Drums (for surgical sterilization) large size (Sample Required)	5 Nos.		
8	Oxygen Flowmeter (Sample Required)	32 Nos.		
9	Oxygen Regulator (Sample Required)	20 Nos.		
10	Paeds Laryngoscope with complete set of Blades (USA / EU / Japan) (Sample Required)	2 Nos.		
11	Adult Laryngoscope with complete set of Blades (USA / EU / Japan) (Sample Required)	1 No.		
12	Ambu Bag (Infant) (Sample Required)	5 Nos.		
13	Ambu Bag (Adult) (Sample Required)	10 Nos.		
14	Ambu Bag (Small) (Sample Required)	5 Nos.		
15	Mercural Sphygmomanometer (mobile) with stand and wheels (Sample Required)	10 Nos.		
16	Tinicum Forceps (Sample Required)	8 Nos.		
17	Gut Forceps 7.5" (Sample Required)	12 Nos.		
18	Lainigus Forceps (Sample Required)	8 Nos.		
19	Disyoording Forceps (Sample Required)	8 Nos.		
20	D&C sets complete (Sample Required)	10 Nos.		
21	Artery Forceps Large, 8" (Sample Required)	24 Nos.		
22	Artery Forceps Curved 6" (Sample Required)	24 Nos.		
23	Artery Forceps Straight 8" (Sample Required)	24 Nos.		
24	Artery Forceps Curved (Mosquito) (Sample Required)	48 Nos.		
25	Allis Tissue Forceps 8" (Sample Required)	60 Nos.		
26	B.P. Handle 3 (Sample Required)	20 Nos.		
27	B.P Handle 4 (Sample Required)	20 Nos.		
28	B.P. Handle 7 (Sample Required)	20 Nos.		
29	Chital Forceps (Sample Required)	24 Nos.		
30	Crushing Clamps (Pairs) (Sample Required)	6 Nos.		

S. Salma

31	Coscos Vaginal (Sample Required)	20 Nos.		
32	Episiotomy scissors curved " (Sample Required)	18 Nos.		
33	Forceps Clamp 6" (Sample Required)	20 Nos.		
34	Forceps Plain 10" (Sample Required)	10 Nos.		
35	Forceps 6" (Tooth) (Sample Required)	20 Nos.		
36	Forceps 7" (Babcock) (Sample Required)	20 Nos.		
37	Fine Curette with Handle (Sample Required)	10 Nos.		
38	Green Armatage 8" (Sample Required)	24 Nos.		
39	Kidney Tray small (Sample Required)	24 Nos.		
40	Kidney Tray medium (Sample Required)	24 Nos.		
41	Kidney Tray Large (Sample Required)	18 Nos.		
42	Kocher Forceps straight 10" (Sample Required)	60 Nos.		
43	Kocher Forceps curved 10" (Sample Required)	18 Nos.		
44	Kocher Forceps straight 8" (Sample Required)	24 Nos.		
45	Oxygen stand trolley (Sample Required)	5 Nos.		
46	Ovum Forceps 8" (Sample Required)	12 Nos.		
47	Shermen Curette (Sample Required)	12 Nos.		
48	Steel Basin, large size (Sample Required)	12 Nos.		
49	Steel Buckets with cover (Sample Required)	12 Nos.		
50	Sponge Holding Forceps 10" (Sample Required)	48 Nos.		
51	Scissors Plain Straight 7" S/S (Sample Required)	24 Nos.		
52	Scissors Curved 7" Mayo (Sample Required)	24 Nos.		
53	Scissors Curved 8" Mayo (Sample Required)	24 Nos.		
54	Scissors Curved 10" Mayo (Sample Required)	12 Nos.		
55	Scissors, straight, small, fine 5.5" (Sample Required)	12 Nos.		
56	Legging Back Retractor complete set (Sample Required)	4 Nos.		
57	Myoma Screw (Sample Required)	4 Nos.		
58	Deevers sets (Sample Required)	2 Nos.		
59	Doin Retractor (Sample Required)	12 Nos.		
60	Vacuum Rubber, silicon (Sample Required)	30 Nos.		
61	3 Mirror Contact Lens (Sample Required)	01 No.		
62	Double Aspheric Lens 90 D-Volk (Sample Required)	01 No.		
63	Paeds Laryngo Scope with complete Sets of Blades (Sample Required)	02 Nos.		

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64	Vacuum Cup Silastic for Viginal Delivery (Small & Medium) (Sample Required)	03 Nos.		
65	MVA Kit (Sample Required)	03 Nos.		
66	Sonicad Digital (Sample Required)	03 Nos.		
67	Nebulizer (Sample Required)	06 Nos.		
68	Gluko Meter (Sample Required)	04 Nos.		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

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SCHEDULE OF REQUIREMENT (FINANCIAL BID)
SR. NO. 2 PURCHASE OF MACHINERY
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/2

Item #	Description	Req. Qty.	Rate	Amount
1	Multimedia System with complete Accessories	03 No.		
2	Sound System with complete Accessories	01 No.		
3	Ultra Low Freezer	01 No.		
4	Electric Generator (10 KVA) with Gas Kit	01 No.		
5	Diesel Generator 50 KVA	02 Nos.		
6	Diesel/ Gas Generator 150 KV	01 No.		
7	Computer System (Dual Core) Branded	23 Sets		
8	25 KV Generator	01 No.		
9	Split Air Conditioners 1.5 Tons	24 Nos.		
10	UPS for computers	23 Nos.		
11	Printer for Computers	23 Nos.		
12	LCD 42"	04 Nos.		
13	Refrigerator 16 cft (No Frost)	09 Nos.		
14	Electric Water Cooler	8 Nos.		
15	Electric Ceiling Fans	50 Nos.		
16	Deep Freezer	01 No.		
17	Micro Wave Oven	01 No.		
18	Audio Visual Aids	02 Nos.		
19	Overhead Projector	02 Nos.		
20	Weighing Machine for infant	06 Nos.		
21	Thump Impression Attendance Machine (Attached with Computer)	01 No.		
22	Photocopier DI	01 No.		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

S. Salma

SCHEDULE OF REQUIREMENT (FINANCIAL BID)
SR. NO. 4 PURCHASE OF FURNITURE & FIXTURE
Tender Enquiry No. Sr.Dir(M&HS)/Tender/Proc/2014/4

Item #	Description	Req. Qty.	Rate	Amount
1	Auditorium Chairs with folding writing desk support. (Sample Required)	250 Nos.		
2	Air Mattress for ICU Beds (Sample Required)	40 Nos.		
3	Over Bed Table (Sample Required)	50 Nos.		
4	Baby Cots (Iron, good quality) (Sample Required)	50 Nos.		
5	Office Table wooden 5' x 3' (Sample Required)	3 Nos.		
6	Revolving Chairs (Sample Required)	10 Nos.		
7	Office Chairs with Arms (Sample Required)	30 Nos.		
8	Chairs without Arms (Sample Required)	20 Nos.		
9	Computer Table (Sample Required)	10 Nos.		
10	Computer Chairs (Sample Required)	10 Nos.		
11	Counter Chairs (Sample Required)	10 Nos.		
12	Examination Couches (Sample Required)	5 Nos.		
13	Dining Table with Chairs (Sample Required)	2 sets		

Full Name, address & Stamp of Firm _____

CNIC No. of authorized Person _____

Signature of authorized Person _____

S. Samra



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OFFICE OF THE SENIOR DIRECTOR
MEDICAL SERVICES DEPARTMENT
KARACHI METROPOLITAN CORPORATION

**TERMS AND CONDITIONS FOR THE PURCHASE OF ELECTRO MEDICAL EQUIPMENTS /
INSTRUMENTS & MACHINERY & ETC. FOR HEALTH INSTITUTIONS/KM&DC/ KIHD OF
K.M.C FOR THE YEAR 2013-14**

- 1 Cost of tender is Rs: _____/=() non Refundable.
- 2 Tender selling date from **07-04-2014**.
- 3 Tender submission date **22-04-2014** at 1.00 PM in the office of Director Medical Services, KMC Jigar Muradabadi Road, Opp. Islamia College, Gurumandir, Karachi.

Tenderers are required to comply with all the clauses mentioned in the terms and conditions of the tender alongwith submission of all the relevant documents required .In case of any deviation / incomplete documents the tenderer may be prohibited for competing in the tender/render their offer invalid.

1. In this tender method of procurement, as per SPP Rule 46(2) of Sindh Public Procurement Rules 2010 will be ONE STAGE- TWO ENVELOPE PROCEDURE.
2. Tender, which does not fulfill the prescribed condition, is liable to be rejected.
3. **All the quoted Items of a group should be quoted in a single technical bid (sealed in a technical envelope).**
4. **In financial offer the rate of each items of a group should be quoted separately and financial offer for each item of a group be sealed separately. All the Financial Offers for one group should be sealed in one envelope on individual basis.**
5. Both the Technical and Financial offers of a group be enclosed in a single envelope marked "Technical and Financial offers" and sealed. The Name of the group and Firm be Boldly written on this envelope.
6. Proof of payment of cost of tender shall be required at the time of opening of tender.
7. In financial bids, the vendor should mention financial offer alongwith 2% earnest money for each item of a group quoted as pay order/demand draft in favour of K.M.C.
8. Not tender will be entertained without call deposit/bid security. Conditional tender shall not be accepted.
9. The equipment offered must be latest version/generation and an old model should not be quoted. The old model will not be considered, even if it fulfills tender specifications.
10. The original Bank Draft of the earnest money should be attached with the financial proposal and a Photo state copy of deposit at call should be attached with technical offer but its value must not be disclosed and this can be achieved by placing a piece of paper on the place where amount is mentioned.

11. **The vendor / Tenderer have to provide at least two years warranty with parts. In case of X-ray / Imaging Systems five years warranty of tubes and Imaging systems including spares. Without warranty no tender will be accepted.**
12. The warranty period will commence from the date of commission of the unit as per report of end user and technical person.
13. Firms must provide complete details of their financial standing, listing of similar equipment supplied in Pakistan if any, bio-data if engineer with training certificates/test equipment details of local stock of spare parts for similar equipment and details of office with number of personals.
14. The equipment to be supplied should be accompanied with three original copies of the operation, service/maintenance and schematic diagram and spare part list manual in the English Language.
15. The bids will be valid for 90 days from the date of the opening of the tenders. However under exceptional circumstances and for reason to be recorded in writing, if any extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period equal to the period of the original bid validity.
16. All equipments may be preferably FDA or CE approved.
17. The disclosure of rates at the time of opening of technical proposal will result in to rejection of the bid.
18. The scrutiny of technical bids will be performed by the technical committee and financial bids of those firms will be opened, which qualify technically. On opening of financial bids of technically qualified bidders only the lowest in rates will be entertained. The Financial Offers of Technically un- qualified bidders shall be returned un-opened.
19. Contractor/supplier will be responsible for pre-installation, work if required free of cost and also responsible for pre-installation work if required after inspection.
20. Equipment/Instrument will be handed over to storekeeper through Director Medical Services/Medical Superintendent with a copy of Delivery Challan to the Sr. Director Medical Services K.M.C.
21. The contractor must be authorized sole agent of the manufacturer no sub-sole distributor is allowed to participate in tender.
22. Manufacturer name and country of origin should written against each item. Without manufacturers name and country of origin tender will not be accepted. Tenderer have to provide warranty of Equipment/complete system (if applicable) including spare parts of the same equipment.
23. Details of qualified and trained technical personal and facilities shall be provided. The vendor must have proper workshop and factory trained engineers for major equipment at respective station.

24. Procurement authority reserves the right to verify or ask for authentication of the certificate from the sole agent from the concerned authorities i.e. embassy/counselors office attestation.
25. The successful bidder shall be required to submit within two days pay order / demand draft in favour of Sr. Director Medical & Health Services K.M.C @ 10% of the total value of work orders amount received as security deposit for warranty period of one year.
26. The Central Purchase Committee has the right to increase/decrease the quantity of an item or delete the item as per requirement.
27. Price escalation will not be allowed.
28. If supplier/firm doesn't supply the items in accordance with the supply order or fails to supply according to terms and conditions or incase of any other default, it will be black listed and the earnest money will be forfeited.
29. **The bidders are advised to read the Sindh PPRA Act 2009 and SPP Rules 2010 carefully before submission of bids".**
30. **The decision once taken will be final. However, any complaint/grievances and disputes shall be settled as per Rule 31 of SPP Rules 2010 'REDRESSAL OF GRIEVANCES AND SETTLEMENT OF DISPUTES'.**

'REDRESSAL OF GRIEVANCES AND SETTLEMENT OF DISPUTES'

(Rule 31 of SPP Rules 2010)

48. Redressal of grievances by the procuring agency. ---

- (1) The procuring agency shall constitute a committee comprising of odd number of persons, with proper powers and authorizations, to address the complaints of bidders that may occur during the procurement proceedings.
- (2) Any bidder feeling aggrieved by any act of the procuring agency after the submission of his bid may lodge a written complaint after the decision causing the grievance has been announced;
- (3) The Committee shall announce its decision within seven days. The decision shall be intimated to the bidder and the Authority within three working days by procuring agency.
- (4) Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.
- (5) A bidder not satisfied with the decision of the procuring agency's complaints' redressal committee may lodge an appeal to the Chief Secretary through the Authority, who shall refer the matter to a review panel as per Rule 32;

49. Arbitration—

After coming into force of the procurement contract, disputes between the parties to the contract shall be settled by arbitration.

Note:-

K.M.C shall nominate an Arbitrator as provided in the relevant rules. The decision of the arbitrator will be final and will not be challengeable in the court of law.

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31. Income tax "and other taxes" will be deducted according to government rules.
 32. The Procuring agency may reject all or any bids subject to the relevant provisions of SPP Rules 2010.
 33. Conditional tenders will not be accepted.
 34. Overwriting, erasing and cuttings are not acceptable unless they are signed, stamped and authenticated by the authorized person of the firm.
 35. No over writings or cuttings, insertions or deletions will be allowed after the bids have been dropped in the tender box.
 36. The bidders may be required to submit List of litigation/court cases between the firm and the clients on an affidavit that the firm has not been black listed by any Government/Autonomous Organization.
 37. If the supplier fails to give supply and install within the stipulated period penalty will be imposed @ 0.1% of the total value of equipment per day subject to a maximum of 10%.
 38. The payment will be made after satisfactory report of the user department and Electro Medical Department countersigned by authorized person.
 39. Technical training to electro medical engineer (s)/end user (s) from factory trained engineers for equipment procured will be provided by the firm.
 40. The rates should be quoted on Free Delivery at consignees end FOR Basis and C&F Basis (as per tender enquiry).
 41. For C&F Consignment, provision of Airway bill or bill of lading and OEM Certificate are mandatory to produce in respect of Country of origin/Manufacturer.
 42. The Equipment to be supplied on C&F basis shall be full consignment including all accessories no partial shipment/Airway allowed.
 43. The system will have the minimum uptime 95% in case of down time beyond this period the following penalty will be applied.
 - 95% to 100% No Penalty
 - 90% to 95% the warranty period will be extended by the number of days system in 'down.
 - 85% to 90% warranty period will extended 1.5 time the down time period.
 - 80% to 85% warranty period will be extended two time for the down time period and supplier is supposed to give justification of delay.
 - **Down time is defined as failure in the equipment operation that prevents the systems / equipments from working and displaying patients' data/image.**
 - **Down time starts when the buyer notifies the designated service faculty and ends when repairs have been done and system is available for use.**
 - If uptime is less then 80% hospital will complaint to the principal/manufacturer to take action against the supplier and warranty will be the three time for the down time period. Downtime is defined as failure in the equipment operation that prevents the system from displaying patient image data.

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Downtime will start when the buyer notifies the designated service faculty and ends when repairs have been done and the system is again available for use.
Late shipment penalty will be imposed on supplier as per Sr. Director Medical Services K.M.C discretion.

44. Reference list where the offered systems are presently installed and performance report from them.
45. Arrangement of spare parts & services of equipment will be the responsibility of supplier and all spare parts shall be made available after installation of the system to ensure minimum disturbance in working.
46. Post warranty period service contract with and without parts will be the responsibility of the supplier.
47. Physically availability of service engineer when called at the site will be the site will be the responsibility of the supplier (it should be included in undertaking) all the times.

The following documents are to be submitted alongwith tender in the same sequence as under:-

1. Original Tender purchased receipt.
2. 2% earnest money for each item as pay order/demand draft deposit in favour of the Sr. Director Medical & Hcalth Services K.M.C. as per terms & condition
3. Quotation of Equipment / Instrument ,(Tender Enquiry/Proforma)
4. Original terms and conditions duly signed and stamped. Each page should be signed and stamped by competent authority.
5. Valid Income Tax Certificate of Income Tax Exemption Certificate.
6. A copy of valid agency certificate/agreement (if any)
7. Certificate that the prices quoted are not higher or more than market price.
8. A certificate that the firm will abide all terms and conditions of the tender infringement for consequences for recommended by the competent authority.
9. Valid Sales Tax Certificate.

Certified that all terms and conditions mentioned in the tender are acceptable and we will abide by them strictly.

Signature_____

Address & Stamp_____

Fax No._____

Amount of 2% earnest money for each item _____

Name of Bank with full address_____

Pay Order No._____

Full Name & address of Firm_____

CNIC No. of authorized person_____

Signature of authorized person_____

SUPPLIER QUESTIONNAIRE PROFORMA
(To be filled in by the vender)

Equipment _____ Model _____

Manufacturer _____ Supplier _____

1 Year in Introduction of the Offered Model: _____
Version(if same model revised) _____

2 Number of equipment installed (Please provide names of institution for
Pakistan / Karachi) _____
World wise _____
In Pakistan _____
In Karachi _____

3 Manuals to be Provided

	Yes	No.
Services	_____	_____
Parts List	_____	_____
Electrical Drawing/ Schematics	_____	_____
Operational/ Application	_____	_____

4 Spare Parts availability guarantee (No of Years) _____

5 Source of spares availability

	Lead Time
Local	_____
Overseas	_____

6 Equipment life period (Number of years) _____

7 Do you hold specialized tools/test equipment required for:

Maintenance	Yes	No	N/A
Calibration	_____	_____	_____

Please provide list of tools/test equipment including their calibration status on a separate sheet.

8 Annual Maintenance contract price:

Parts and Labor	_____
Labor without parts	_____

9 On call service Charges

Minimum	_____
Per day:	_____

10 In Case of in house maintenance by KMC engineers, are you willing to provide following during post warranty period.
Back up engineer support whenever requested: Yes No
Prompt supply of spares/ consumables: _____

11 Are you authorized representative of manufacturer: _____

No. of factory trained engineer (s) available locally for the offered equipment
(Provide training certificate & years of experience)

13 Total numbers of years in business: _____

14 Warranty period (Please provide following details):
Uptime Guarantee: _____ %
Response time to Maintenance requested: _____ Hrs
No of PPM/Year _____
Any other: _____

15 Do you have any objection/concerns to use similar Specification spares of alternate/ other manufacturer During warranty of maintenance contract(if available)
Yes No

16 Comprehensive KMC Engineer Training
If yes state what included: Yes No

Training fees _____
Airfare _____
Boarding/Lodging _____
Free of Charge _____
None of the above _____

17 Up- Gradation Possibility:
Hardware _____
Software _____

If above has any cost please provide the details of up-gradation with estimated price:

Please state standard conformance (e.g. IEC 601, FDA, AAMI etc)

18 Pre-Installation services requirement :
Power _____ KW
Volts: _____ Single/Three Phase
Gas: _____ Cuft /Hr
Water _____ Gallons/Liter Hour
_____ PSI (Pascal)
(if pre-treated water required, please provide details)

_____ PSI Vacuum _____ mmgh

Other _____
(e.g. Drain, Exhaust, Physical Facility change etc)

Installation time: _____
Installation / Commission by whom: _____

19. Environmental Parameters Limits:

Temperature _____ to _____ Centigrade/ Fahrenheit

Humidity _____ to _____ & RH.

IEC 601 International Electro Technical commission (Code 601)

AAMI American Association for medical instrumentation.

FDA Food & Drug administration.

20. Any other specific requirement (e.g. UPS, Voltage Stabilizer etc. Provide Details):

21. Briefly state facilities and benefits provided during warranty period:

22. Please quoted the rates for consumable / disposable items or parts required for proper functioning of the machine/ equipment with life period of each days/ month etc)

Supplier's Name _____

Authorized Signature _____ Designation _____



KARACHI METROPOLITAN CORPORATION
METROPOLITAN COMMISSIONER SECRETARIAT

NOTIFICATION

A Technical Scrutiny Committee, Medical & Health Services Department, KMC, comprising of the following is hereby constituted to scrutinize the technical officer in tenders for Procurement of General Medicines, Surgical Disposable & Dressing Materials, Laboratory Kits & Chemicals, X-Ray Films & Chemicals, Dental Materials, Electro Medical Equipments, Instruments, Machinery, Furniture, etc. for Hospitals / Health Institutions of Karachi Metropolitan Corporation for transparent Procurement / Purchase of these items during the current financial year 2013 - 14:

1.	Prof. Dr. Syed Waqar Hussain Kazmi HOD Nephrourology ASH & Principal KMDC	Chairman
2.	Director (Medical Services) , Medical & Health Services, KMC	Member
3.	Director (Procurement) , Medical & Health Services, KMC	Member
4.	Medical Superintendent , Abbasi Shaheed Hospital, KMC	Member
5.	Dr. Siraj-ul Haque , Deputy Executive Director KIHD, KMC	Member
6.	Prof. Zubair Abbasi , Vice Principal, KDMC	Member
7.	Prof. Dr. S. M. Abbas , HOD Surgery ASH, KMC	Member as Technical Expert of Surgery
8.	Prof. Najeeb-ur Rab Ahsan , Professor of Plastic Surgery	Member as Technical Expert Of Plastic Surgery
9.	Prof. Dr. Tahir Hussain , HOD Medicine ASH, KMC	Member as Technical Medical Expert
10.	Prof. Saleemullah , HOD Medicine ASH, KMC	Member as Technical Medical Expert
11.	Prof. Dr. Masrooruddin , I/C SICU ASH, KMC	Member as Technical Expert of Anesthesia
12.	Prof. Dr. Rubina Tahir , Department of Gynecology ASH, KMC	Member as Technical Expert of Gynecology
13.	Dr. Shabeen Naz , Medical Superintendent, SMH, KMC	Member as Technical Expert of Gynecology
14.	Prof. Dr. Shabnam Shamim , Sobhraj Maternity Hospital, KMC	Member as Technical Expert of Gynecology
15.	Prof. Dr. Arshad Shaikh , HOD Ophthalmology ASH, KMC	Member as Technical Expert of Ophthalmology
16.	Prof. Dr. Asadullah Hussani , Cardiac Surgeon KIHD, KMC	Member as Technical Expert of Cardiology
17.	A/Prof. Dr. Abdul Rasheed , HOD Cardiology ASH, KMC	Member as Technical Expert of Cardiology
18.	Prof. Dr. Tamim Akhter , Department of Radiology, ASH	Member as Technical Expert of Radiology
19.	Prof. Dr. Gulnaz Khalid , I/c Pathology Department, ASH	Member as Technical Expert of Pathology
20.	Dr. Zahid Hussain , Deputy Director (Procurement), M&H, KMC	Member
21.	Dr. Asifuddin Abbasi , Medical Superintendent, LMC, KMC	Member

[Samiuddin Siddiqui]

Metropolitan Commissioner,
KARACHI Metropolitan Corporation

February 10, 2014

No. PS/MC/KMC/64/2014

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