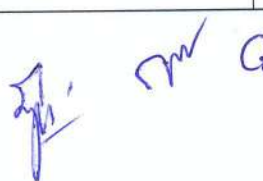


FINAL SPECIFICATIONS AFTER PRE-BID MEETING

Sr./No.	Item Name & Specifications	Payment mode	Estimated Unit Price	Total Quantity
01	<p>ECG Machine</p> <p>Twelve Channel ECG on at least 5 inches LCD display Automatic Operation Variable gain: 1/2, 1, 2 cm/mV Thermal recorder for printing out Twelve channels simultaneously. Interpretation software. Recording Trace speed: 10, 25 and 50 mm/sec, Muscle artifact and AC (50Hz) interference filters Defibrillator protection Built-in AC operation & battery backup minimum 30mins Paper size: A4/210mm Built-in AC interference, noise filter and baseline drift control. Capability to interface with LAN/WLAN for data transfer Paper Roll 50.</p> <p>Accessories: Complete with standard accessories, including separate patient cables for Adult, Pediatric with re-usable electrodes, Comprehensive Service Manual Country of Manufacturer: USA / Europe / Japan</p>	CIF	0.2 M	23
02	<p>Defibrillator</p> <p>Biphasic transthoracic (external) defibrillator with LCD colour display Synchronized output with ECG. Energy selection & delivery on control panel and paddles for external defibrillation. Energy selection and delivery on control panel for internal defibrillation. Charging Indicator The energy range should be adjustable for peads and adults up to 200Joules. Charging Time for full energy should be less than 07 sec Screen Size of approx. 5 inch colored. Display of HR, ECG through paddles and Lead I.II & III patient cable. Built in recorder for printing</p>	CIF	0.8 M	20


✓


	<p>of full summary on standard 50mm paper. Alarms for High and low Heart rate, low battery warning. Built-in Rechargeable battery with charger for minimum 50 shocks at max energy. Auto tester/self check. External Paddles (Adult, Paed, Neonate) AED facility with cable Pacing facility AC 220V / 50Hz operated</p> <p>Accessories: Complete with standard accessories, including reusable type Adult, Paediatric & Neonatal sensors, Comprehensive Service Manual Country of Manufacturer: USA / Europe / Japan</p> <p>Optional: Internal Paddles for Adult & Paeds Defibrillator Analyzer</p>			
3	<p>Electrosurgical Unit: Microprocessor based electrosurgical unit for normal and under water cutting usages Automatic self-test function Operation in radio frequency range Controls for cutting, coagulation, spray and blends Monopolar cutting power of 300 watts Bipolar cutting power of 80 watts Mono polar coagulation power of 100 Watts Bipolar coagulation power of 50 Watts Spray coagulation mode Different gradations of blending of cutting and coagulation power Digital display of all controls and set values of cutting and coagulation power Audio and visual alarms 220V, 50 Hz</p> <p>Accessories:</p> <ul style="list-style-type: none"> • Monopolar handle with cord. • Bipolar forceps with cord • Attachment for monopolar coagulation. • Bipolar coagulation forceps. • Double paddle foot switch, explosion proof • Comprehensive Service Manual <p>Country of Manufacturer: USA / Europe / Japan</p>	CIF	0.7 M	5
4	<p>Ultrasonic Nebulizer</p> <ul style="list-style-type: none"> ▪ For nebulization of respiratory tracts. ▪ Hospital grade for continuous operation. 	CIF	0.3 M	20

F. M. G. ✓

	<ul style="list-style-type: none"> ▪ Ultrasonically generated uniform and highly dense particles of 0.5-5 microns size. ▪ Approximately 65-70% of particles of less than 4 micron size. ▪ Autoclaveable delivery pipes. ▪ Air flow of 10 L/min. ▪ Aerosol heating facility ▪ Quiet operation with noise level of less than 40dB. ▪ Nebulizing time setting from 0-30 min. ▪ Medication cup capacity: 150 ml. ▪ Power of 220 Volts / 50 Hz. ▪ One extra Flexible arm/ delivery pipe/masks (all sizes). ▪ Complete with bacterial filter ▪ Comprehensive Service Manual <p>Country of Manufacturer: USA / Europe / Japan</p>			
--	--	--	--	--


 SM G ✓

5	<p>Ventilator</p> <p>VENTILATION:</p> <ul style="list-style-type: none"> ▪ Microprocessor controlled powerful ventilation system mounted on trolley. ▪ LCD/TFT color touch screen 15" Minimum. ▪ Patient Range: Pediatrics and Adult ▪ Breathing classification: Pressure control, Volume control Pressure control with set Volume Breath. ▪ Autoclaveable reusable patient tubing circuit for paed and adult (01 each) <p>MODES OF VENTILATION:</p> <ul style="list-style-type: none"> ▪ Volume control ▪ Assisted CMV ▪ Pressure control PC ▪ Assist Pressure Control ▪ CPAP ▪ SIMV+ Pressure support ▪ Noninvasive ventilation ▪ Bi-level /APRV/BI-PAP Ventilation <p>CONTROL: Set & measured parameters simultaneously.</p> <p>MEASUREMENT RANGE/ SPECIFICATION:</p> <ul style="list-style-type: none"> ▪ Inspiratory tidal volume: 5ml to 2000ml Neonatal Mode. ▪ Respiratory frequency: 5 to 120bpm ▪ SIMV breath frequency: 1 to 50 bmp ▪ Inspiratory pressure: 10 to 80 cmH2O ▪ Inspiratory flow: 80 L/Min or cmH2O. ▪ I : E ratio : 1:4 / 4:1 ▪ PEEP: 3 to 30cm H2O ▪ FiO2/ O2 delivery: 21 to 100% (Through paramagnetic Sensor non-consumable) <p>Monitoring parameters for set and measured value simultaneously:</p> <ul style="list-style-type: none"> ▪ Total breath rate. ▪ Oxygen concentration FIO2 ▪ Expired minute volume ▪ Peak expiratory flow ▪ I : E ratio ▪ Peak Pressure ▪ Mean pressure ▪ Lung Mechanics with pressure and volume loops. ▪ Others control and functions: ▪ Back up ventilation ▪ Pause time INSP 	CIF	3.5 M	10
---	---	-----	-------	----


G
✓

	<ul style="list-style-type: none"> ▪ Microprocessor gas delivery system ▪ Breath circuit Compliance Compensation ▪ Expiratory hold/ Inspiratory hold ▪ Pressure / Volume and flow trigger sensitivity ▪ Trigger sensitivity indication ▪ Trend Data ▪ The waveform should be displayed on ventilator's screen. <p>ALARMS:</p> <ul style="list-style-type: none"> ▪ Apnea ▪ AC power failure ▪ High and low Expired minute volume ▪ High and low peak air way pressure ▪ High and low breath rate ▪ FiO2 variation ▪ Low and high base line pressure ▪ Gas supply source failure ▪ Low battery <p>NEBULIZER:</p> <ul style="list-style-type: none"> ▪ Built in nebulizer of the patient during ventilation ▪ Supply requirements: Electric 220 V 50 Hz <p>BATTERY BACKUP:</p> <ul style="list-style-type: none"> ▪ With internal battery backup of one hour. <p>COMPRESSED AIR SUPPLY:</p> <ul style="list-style-type: none"> ▪ The ventilator should be driven on external compressor for powerful ventilation and should have the capability to connect with central medical pipeline system of the hospital. <p>HUMIDIFIER:</p> <ul style="list-style-type: none"> ▪ Automatic compensation (Servo) controlled heated humidifier with temperature monitoring at air way and Humidification chamber with alarm for low/ high limits with water trap in the patient circuit. <p>Note: The warranty of equipment will be including batteries, oxygen sensor, all kind of sensors and flow sensor. Country of Manufacturer: USA / Europe / Japan Comprehensive Service Manual</p>			
	<p>Optional:</p> <ul style="list-style-type: none"> ▪ Air Compressor ▪ Capnography module to monitor carbon dioxide of the patient. 	CIF		
6	<p>Mobile X-Ray Mobile Microprocessor based X-Ray Unit</p>	CIF	8.0 M	01

Handwritten signature and initials: "F. Sw G" with a checkmark.

	<p>High frequency, 30KW X-Ray Generator 300 mA at 100 kV Digital display of all set parameters Rotating anode x-ray tube, with dual focus / Single Focus Anode heat storage capacity of at least 107 KHU or more Electronic timer with exposure time of 1-3 msec Automatic over-load protection device and automatic line compensation The unit should be battery supported for exposure and movement (Motorized). 220 V, 50 Hz. FDA510k & CE/MHLW certified. Comprehensive Service Manual Country of Manufacturer & origin: USA / Europe / Japan</p>			
7	<p>Blood Storage Cabinet <u>Detailed Requirement:</u> Stainless Steel Interior Automatic closing of the door Controlled fan cooling Key operated power switch Safety door lock Interior lighting Integrated RS485/USB interface LAN Converter 220V 50 Hz, AC <u>User Adjustable Settings:</u> Gross volume: 400L Net capacity : minimum 240 blood bags of 450ml Non modifiable temperature set point of +4°C 200-250 min hold over time at +25C ambient temperature Safety thermostat <u>Displayed Parameters:</u> Digital temperature display Temperature recording and online monitoring Acoustical and visual alarm for temperature and power failure Alarm system with battery backup low and high alarm Door opening alarm <u>Accessories:</u> Complete with standard and operation accessories</p>	CIF	2.0 M	02


FOW G ✓


	<ul style="list-style-type: none"> • Seven day chart recorder • Servo Controlled Voltage Stabilizer with surge protection facility • Operating Manual with a Soft Copy • Service Manual with a Soft Copy <p>Country of Manufacturer: USA / Europe / Japan</p>			
8	<p>Motorized Bed</p> <p>Bed Length: 7 ft approx.</p> <p>Bed Width: 3 ft approx.</p> <p>Bed width side rails: 3.5 ft approx. metal/ABS side rails</p> <p>Height Electrically: 1.5 – 2.5 ft approx.</p> <p>Maximum load capacity: 200 kg or more</p> <p>Castor: 12.5 cm or more</p> <p>Five positions: High, Low, Trendelenburg, Anti-Trendelenburg, Cardiac Chair</p> <p>Trendelenburg: 12 - 16 deg and CPR position (Auto Button & Manual Control)</p> <p>Anti-Trendelenburg: 12 - 16 deg</p> <p>Four section bed: 4-section</p> <p>X-ray cassette Holder: As per same manufacture specification</p> <p>IV Hanger Rod: As per same manufacture specification</p> <p>Conductive Mattress: As per same manufacture specification</p> <p>Central Locking System: As per same manufacture specification</p> <p>Country of Manufacturer & origin: USA / Europe / Japan</p> <p>Optional:</p> <ol style="list-style-type: none"> 1. Over bed table: As per same manufacture specification 2. Bed side locker: As per same manufacture specification 3. Oxygen Cylinder Holder: As per same manufacturer specification 	CIF	0.45	160


Handwritten signature and initials

9	<p>Syringe Pump Syringe pump for fluid administration.</p> <ul style="list-style-type: none"> ▪ Flow Rates: 0.1 - 400 ml/hr. (Approx.) ▪ Digital display of set parameters. ▪ Universal Syringe acceptance capability for disposable, Plastic, Size, 10, 20, 50, 60 ml. ▪ Drive Accuracy. $\pm 3\%$ ▪ Display of drug name, Infusion rate, infused volume and volume to be infused. ▪ Automatic adaptation of controls according to syringe /infusion set. ▪ Quick freed/rapid infusion facility. ▪ Rechargeable battery and mains operated 220V, 50Hz. ▪ Safety alarm audible and acoustic for occlusion end of infusion, low battery. ▪ Battery back up 3 to 4Hours. ▪ Should be compatible with docking station. <p>Country of Manufacturer: USA / Europe / Japan</p>	CIF	0.18 M	150
	<p>Optional: i)- Docking station of four ii)- Docking station of six ii)- Docking station of eight</p>			


Electronic Equipment Care Taker
Faisalabad Institute of Cardiology
Faisalabad.



DMS (Purchase)
Faisalabad Institute of Cardiology
Faisalabad.


Director Finance
Faisalabad Institute of Cardiology
Faisalabad.


AMS (Purchase & Store)
Faisalabad Institute of Cardiology
Faisalabad.

AMS (P&D)
Faisalabad Institute of Cardiology
Faisalabad.

HOD Cardiology
Faisalabad Institute of Cardiology
Faisalabad.


Medical Superintendent
Faisalabad Institute of Cardiology
Faisalabad.

Executive Director
Faisalabad Institute of Cardiology
Faisalabad.