FINAL SPECIFICATIONS AFTER PRE-BID MEETING

Item Name & Specifications	Payment	Estimated	Total
	mode	Unit Price	Quantity
ECG Machine	CIF	0.2 M	23
Six channel ECG on at least 3-5 inches LCD display.			
Display of six channel ECG simultaneously.			
Automatic Operation			
Variable gain: 1/2, 1, 2 cm/mV			
Thermal recorder for printing out of Six 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 Supply and battery operation with backup 30 minutes			
Paper size: 100-110mm			
Built-in AC interference, Noise filter and Baseline correction.			
Accessories:			
Complete with standard accessories			
Comprehensive Service Manual			
Country of Manufacturer: USA / Europe / Japan			
Equipment should have at least two certification from FDA 510K, CE, JIS/MHLW	4		•
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Defibrillator	CIF	0.8 M	20
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 of full summery 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/selfcheck.			
External Paddles (Adult, Paed, Neonate)			
AED facility with cable			
Pacing facility			
AC 220V / 50Hz operated			
Accessories:			
Complete with standard accessories, including reusable type Adult, Paediatric& Neonatal			
sensors, Comprehensive Service Manual			
Country of Manufacturer: USA / Europe / Japan			9
Dual Certification:			e
Equipment should have at least two certification from FDA 510K, CE, JIS/MHLW			
Optional:			
Internal Paddles for Adult & Paeds			
Defibrillator Analyzer	LC	1 1 1	-
Electrosurgical Unit:	5	0.7 M	ŋ
Microprocessor based electrosurgical unit for normal and under water cutung usages		_	
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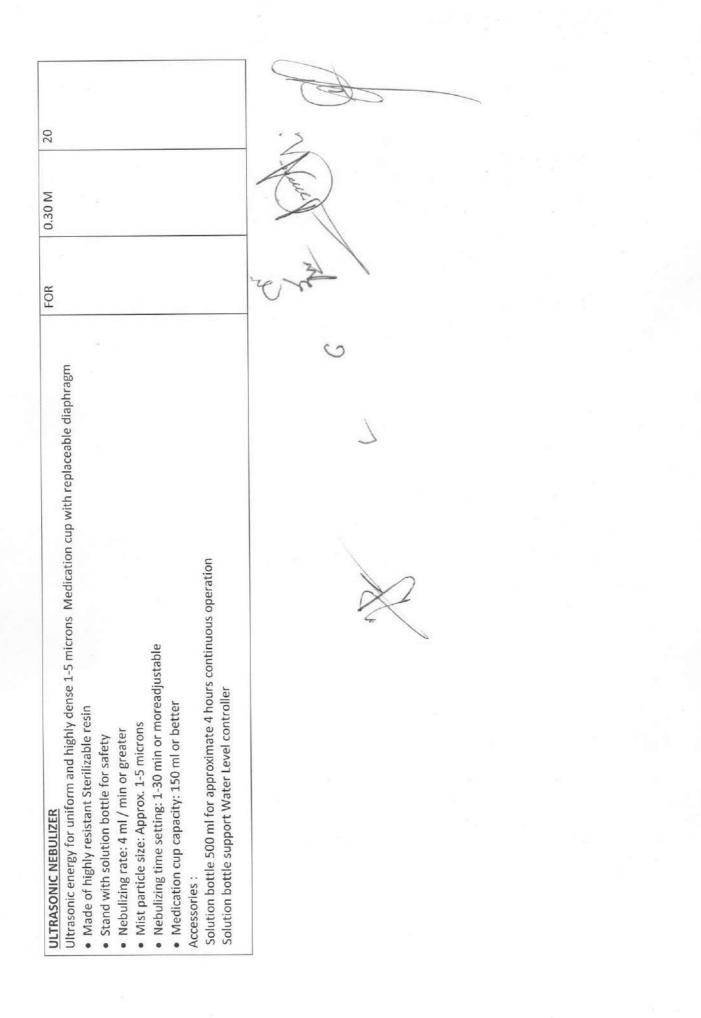
Automatic self-test function Operation in radio frequency range Controls for cutting, coagulation, spray and blends Monopolar cutting power of 300 watts Bipolar cutting power of 80 watts Mono polar coagulation power of 100 Watts Bipolar coagulation power of 50 Watts Spray coagulation mode Different gradations of blending of cutting and coa Different gradations of blending of cutting and coa Different gradations of blending of cutting and coa Different gradations of blending of cutting and coa Digital display of all controls and set values of cutt Audio and visual alarms 220V, 50 Hz Accessories:	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 300 watts Mono polar coagulation power of 80 watts Bipolar coagulation power of 50 Watts Spray coagulation power of 50 Watts 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 Accessories:			
 Monopolar handle withcord. Bipolar forceps withcord Attachment for monopolarco Bipolar coagulationforceps. Double paddle foot switch, e Comprehensive Service M Country of Manufacturer: USA / EU 	 Monopolar handle withcord. Bipolar forceps withcord Attachment for monopolarcoagulation. Bipolar coagulationforceps. Double paddle foot switch, explosionproof Comprehensive Service Manual Country of Manufacturer: USA / Europe / Japan 			¥
CENTRAL STERILE SUPPLY DEPARTMENT HEAVY DUTY STEAM STERILIZER (Qty 02) High pressure Steam Sterilizer each with e generator as backup. Fully automatic, programmable, micropi printer. Automatic motorized/pneumatic 32 psi. Safety interlock. pressureindicator.Cycleindicatortodeterm Completewithstandardaccessoriesandrem	EPARTMENT LIZER (Qty O2) zer each with external steam supply as primary source with integrated steam mable, microprocessor type. Touch screen colored display and integrated ed/pneumatic two doors pass through system. Time cycled, working pressure interlock. Temperature & Pressure recorder. Chamber catortodeterminethephaseofsterilizationcycle. Program/Cycle selection. essoriesandremovableshelves, capableoftakingbothpacketsand	Ч	45.00 M	As mentioned in specifications
	A C	ry,	Re la	A

	 For CSSD installation; copper/SSpipeswillbeused as perstandards. The complete flooring of CSSD with For CSSD installation; copper/SSpipeswillbeused as perstandards. The complete flooring of CSSD with
	 and is self-grinding, Size700-1000mm. TRANSPORT AND DISTRIBUTION TROLLEY (Qty 02) Distribution trolley, 03 shelves made of stainless steel, size 700x500x800mm3. (WxDxH), erms & Conditions for CSSD Equipment: ForCSSDinstallation;copper/SSpipeswillbeusedasperstandards.Thecomplete flooring of CSSD with
	pprox.10m/min. CUTTING DEVICE (Qty 01) Forstorageandpreparationofpaper/Plasticbagsinrolls.Thecuttingknifeismadeof tempered stainless steel and is self-arinding. Size700-1000mm.
	locallyassembled. PAPER SEALING MACHINE (Qty 01) Microprocessor controlled automatic heat sealer for sterilization bags and pouches. Stainless steelbodywithprintingmechanism.Adjustabletemperatureupto200degreeCentigrade, Speed
	andcontrollingofparametersduringpowersheddingprovided/installedbythemanufacturer. REVERSE OSMOSIS SYSTEM (qty 01) ROsystemshouldbecompatiblewiththeCSSDequipmentrequirementandinaccordancewith thequalityofthelocalwaterwhereitisbeinginstalled.Itshouldhaveimportedpartsthatmay be
	Completewithstandardaccessoriesandremovableshelves,capableoftakingbothpacketsand containersofallstandardsizes.Chambercapacity06STU,rectangularshape.Chamber,jacket and doors made of AISI 316 L/Ti. The system complete with built-in water saving system, automatic heat exchanger and Air detector. Two loading / unloading trolleys and one loading carts compatible withsystem. UPS of suitable capacity with minimum 15 minutes for Controller cum display for monitoring
	Fully automatic, programmable, microprocessor type. Touch screen colored display and integrated printer. Automatic motorized/pneumatic single door system. Time cycled, working pressure 32 psi. Safety interlock. Temperature & Pressure recorder. Chamber pressureindicator.Cycleindicator.todeterminethephaseofsterilizationcycle.Program/Cycle selection.
	High pressure Steam Sterilizer each with external steam supply as primary source with integrated steam generator as backup.
2	Air detector. Two loading / unloading trolleys and two loading carts compatible withsystem. UPS of suitable capacity with minimum 15 minutes for Controller cum display for monitoring andcontrollingofparametersduringpowersheddingprovided/installedbythemanufacturer. MEDIUM STEAM STERILIZER (Qty 01)

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 PU anti-bacterial sheet, ceramic tiles on walls, dumpa false ceilingwillbeinstalled. The partitioningwillbe made with 2mm Aluminum sheet where required. Renovation of the CSSD department will be the responsibility of the successful bidder. Country of manufacturer& origin for all Sterilizers & Washer disinfector will be USA/Europe/Japan, however for remaining equipment / furniture etc. will be imported / local. The bidder will provide a comprehensive warranty of five years from the manufacturer exclusively for Faisalabad Institute of Cardiology, Faisalabad. The bidder will provide a declaration from the manufacturer exclusively for Faisalabad Institute of Cardiology, Faisalabad. 	Optional: WASHING /DISINFECTION / DRYING UNIT Microprocessor controlled automatic powered vertical down sliding two glass doors type. Washing chamber, washing arms, preheating tanks and water filters made of high quality stainless steel AISI 316 L., Light inside of chamber, Frame made of stainless steel AISI 304	Touch screen/panel display on loading and display on unloading side with integrated printer. External steam heated for Automatic rinsing, washing, disinfecting and drying including integratedelectricelementasbackupheating.Capableofwashinginternalandexternalsurface of items such as instruments, glassware, tubing, syringes, hollow wares etc. Stainless Steel construction.Floormodelchambersize15-18DINbasketCapacity.2dosingpumpsofchemical products complete with flow meters and sensor. 8-10 standard pre-set cycle programs, 5 serviceprogramsandFast/shortcycledisinfectionprogram(around30min).	The unit should be complete with baskets, trays, and stands for washing /disinfection of the itemsmentionedabove.Theunitshouldhavecompleteexhaustaircondenserforoutgoingair with condensate drain. Operation 380-400V. ACCESSORIES	 A.N Wash Cart includingtubes-7sets MIS/Lap instrumentscart Instrument trays for OPCart Rack for 25shoes Wash cart for Instrumentcontainers 	S

 Transfer trolleys forcart. 		
Intra Aortic Balloon Pump Self contained Fiber optic based intra aortic balloon pump having mobile console with ECG, Amplifier with possible selection 5 leads arterial blood pressure amplifier, Discriminative Triggering circuit to command balloon actions on patient's ECG arterial blood pressure amplifier, Discriminative Triggering circuit to command balloon actions on patient's ECG arterial blood pressure even or internal simulator 80 BPM. Color graphic displays at least of 10° for display of arterial and pressure heart rate balloon volume used and alarm conditions with trouble shooting procedures. Wave form displays for ECG, arterial pressure and balloon pressure on three channel memory type oscilloscope. Fall safe system. V Pacing switch. Progressive wiewing sequence. Integrated battery power supply to take patient to catheterization labs, operating theatre or other hospital: 60 minute autonomy. CO2 / helium tank wrench. 5 lead ECG cable, male connector pressure, transducer, adopter, chart recorder. System should be complete to display all the parameters. Accessories: Complete with standard accessories, One spare set of patient cable, Reusable sensors qty 05 Optional: Automatic in vivo calibration, Automatic helium refiling, Control of deflation point in automatic mode The bidder will provide a comprehensive warranty of three years from the manufacturer exclusively for Faisalabad Institute of Cardiology, Faisalabad.	CIF 20.00 M 0	02
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	CIF	3.5 M	10
Ventilator	5		
VENTILATION:			
 Microprocessor controlled powerful ventilation system mounted ontrolley. 			a
 LCD/TFT color touch screen 12" Minimum. 			
 Patient Range: Pediatrics and Adult 			
 Breathing classification: Pressure control, Volume control Pressure control with set 			
VolumeBreath.			
 Autoclaveable reusable patient tubing circuit for paeds and adult (01each) 			
MODES OF VENTILATION:			
 Volumecontrol 			
 AssistedCMV 			
 Pressure controlPC 			
 Assist PressureControl 			
 CPAP 			
 SIMV+ Pressuresupport 			
 Noninvasiveventilation 			
 Bi-level /APRV/BI-PAPVentilation 			
CONTROL:			
Set & measured parameters simultaneously.			
MEASUREMENT RANGE/ SPECIFICATION:			
 Inspiratory tidal volume: 5ml to 2000ml Neonatal Mode. 			
 Respiratory frequency: 5 to120bpm 			
 SIMV breath frequency: 1 to 50bmp 		2	
 Inspiratory pressure: 10 to 80cmH20 			,
 Inspiratory flow: 80 L/Min orcmH2O. 			
I: E ratio: 1:4 /4:1			
PEEP: 3 to 30cmH20			
 FiO2/ O2 delivery: 21 to100% (Through paramagnetic Sensor non-consumable) 		2	
Monitoring parameters for set and measured value simultaneously:			
 Total breathrate. 			(
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	Owgan concentrationFIO2			
•	Expired minutevolume			
•	Peak expiratoryflow	2		
•	I : Eratio			
•	PeakPressure			
	Mean pressure			
•	Lung Mechanics with pressure and volumeloops.			
•	Others control and functions:			
•	Back upventilation			
•	Pause timeINSP			
•	Microprocessor gas deliverysystem			
•	Breath circuit ComplianceCompensation			
•	Expiratory hold/ Inspiratoryhold			
•	Pressure / Volume and flow triggersensitivity			
	Trigger sensitivityindication			
•	TrendData			
	The waveform should be displayed on ventilator'sscreen.			
ALARMS:	S:			
	Apnea			
-	AC powerfailure			
	High and low Expired minutevolume			
•	High and low peak air waypressure			
•	High and low breathrate			
•	FiO2variation			(¥)) j
	Low and high base linepressure			
	Gas supply sourcefailure			
	Lowbattery			
NEBU	NEBULIZER:			
	Built in nebulizer of the patient duringventilation			
	Supply requirements: Electric220 V 50Hz			0
	C A C	and we	j,	S
	N /			t

 With internal battery backup of onehour. With internal battery backup of onehour. The ventilator should be driven on external compressor for powerful ventilation and should have the capability to connect with central medical pipeline system of thehospital. HUMIDIFIER: Automatic compensation (Servo) controlled heated humidifier with temperature monitoring at air way and Humidification camber with alarm for low/ high limits with water tarp in the patientcircuit. Note: The warranty of equipment will be including batteries, oxygen sensor, all kind of sensors and flow sensor. Equipment should have at least two certification from FDA 510K, CE, JIS/MHLW Comprehensive Service Manual 	S S S S S S S S S S S S S S S S S S S	

Optional:	CIF		
 AirCompressor 			
 Capnography module to monitor carbon dioxide of thepatient. 			
Mobile X-Ray	CIF	8.0 M	01
Mobile Microprocessor based X-Ray Unit			
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 m sec			
Automatic over-load protection device and automatic line compensation			
The unit should be battery supported for exposure and movement (Motorized).			
220 V, 50 Hz.			
Equipment should have at least two certification from FDA 510K, CE, JIS/MHLW			
Comprehensive Service Manual			
Country of Manufacturer & origin: USA / Europe / Japan			
Blood Storage Cabinet	FOR	2.0 M	02
Detailed Requirement:			
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			
User Adjustable Settings:			
Gross volume:400L			C
	Cr.	Che	
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Safety thermostat Safety thermostat Displayed Parameters: Digital temperature recording and online monitoring Temperature recording and online monitoring Alarm system with battery backup Alarm system with battery backup (now and high alarm Door opening alarm Acoustical and visual alarm for temperature and power failure Alarm system with battery backup (now and high alarm Door opening alarm Accoustical and visual alarm for temperature and power failure Alarm system with battery backup (now and high alarm Door opening alarm Accoustical and visual alarm for temperature and power failure Alarm system with a standard and operation accessories Complete with standard and operation accessories Complete with standard and operation accessories Complete with a softcopy County of Manufacture (SA) Europe / Japan The Hyper hypothermia unit a softcopy County of Manufacture: USA, Europe / Japan More hypothermia unit designed to supply temperature controlled water to owgenator heat the Hyper hypothermia unit designed to supply temperature controlled water to owgenator heat the Hyper hypothermia unit for with floon the Hyper hypothermia unit for the range 5-40 % C One/ Twoo external circuits can be connected each with its own flow control the temperature selected on a temperature controller in the range 5-40 % C One/ Twoo external circuits can be connected each with its own flow control the temperature selected on a temperature controller in the range 5-40 % C One/ Twoo external circuits can be connected each with its automatically switched, as and when required. Hermaticall the temperature secured; +10, Circulating system: Pump, Flow capacity (Total) 10- fitters/min. Unit should be FIA approved	ters: the display criting and online monitoring avail altime for temperature and power failure th battery backup in Door opening alarm andard and operation accessories r chartrecorder r	200-250 min hold over time at +25C ambient temperature		
V CIF 12.00 M of online monitoring of online monitoring of online monitoring of or temperature and power failure backup backup backup and operation backup backup of operation accessories order conder conder order order conder conder conder Vith a SoftCopy ha SoftCopy ha SoftCopy conder conder with a SoftCopy us SoftCopy conder conder corder conder with a SoftCopy us SoftCopy conder conder <td>V of online monitoring backup thor temperature and power failure backup tening alarm and operation accessories and operation accessories order order order order order tha SoftCopy h a SoftCopy h a</td> <td>ity thermostat</td> <td></td> <td></td>	V of online monitoring backup thor temperature and power failure backup tening alarm and operation accessories and operation accessories order order order order order tha SoftCopy h a	ity thermostat		
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Anti-Trendel tarburg: 12 - 16 deg Four section bed: 4-section Tray cassette Holder: As per same manufacture specification IV Hanger Rod: As per same manufacture specification Conductive Mattress: As per same manufacture specification Conductive Mattress: As per same manufacture specification Conductive Mattress: As per same manufacture specification Contry of Manufacturer & origin: USA / Europe / Japan Country of Manufacturer & origin: USA / Europe / Japan			
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X-ray cassette Holder: As per same manufacture specification IV Hanger Rod: As per same manufacture specification Conductive Mattress: As per same manufacture specification Central Locking System: As per same manufacture specification Country of Manufacturer & origin: USA / Europe / Japan Country of Manufacturer & O O O O O O O O O O O O O O O O O O			
IV Hanger Rod: As per same manufacture specification Conductive Mattress: As per same manufacture specification Central Locking System: As per same manufacture specification Country of Manufacturer & origin: USA / Europe / Japan			
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Central Locking System: As per same manufacture specification Country of Manufacturer & origin: USA / Europe / Japan			
Country of Manufacturer & origin: USA / Europe / Japan			2
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1. Over bed table: As per same manufacture specification			
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2. Bed side locker: As per same manufacture specification			
3. Oxygen Cylinder Holder: As per same manufacturer specification			
4. Hand Remote Control (not mandatory to quote)			
Syringe Pump	CIF	0.18 M	150
Syringe pump for fluid administration.			
 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. ±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. 			
Country of Manufacturer: USA / Europe / Japan			
Optional:			
i)- Docking station of four			-
ii)- Docking station of six			
ii)- Docking station of eight			

Director Finance HOD Cardiac Surgery FIC, Balsalabad Executive Director FIC, Faisalahad DMS (Purchase) FIC, Faisalabad Cord Cord Addl: Medical Superintendent (Purchase) FIC, Faisalabad Electronic Equipment Care Taker FIC, Faisalabad Medical Superintended FIC, Faisalabad Addl: Medical Superintendent (Admin) FIC, Faisalabad Perfusionist EVC, Faisalabad