NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
1	**Emergency Mobile Stretcher**			7	Unit	
		PATIENT CONTROL				
		Functions				
		Back Raising	Using Gas Spring			
		Hi-Low	Manual			
		CAREGIVER CONTROLS	Manual			
		MAXIMUM ANGLE				
		Backrest	adjustable 0° approx. 70°			
		CONSTRUCTION MATERIAL				
		Frame	Steel / partially alumunium			
		Mattress Base	Polypropylene			
		Transfer Board	Polypropylene			
		IV POLE				
		Storage	on Bed			
		Mounts	4 Hole			
		DRAIN PAN				
		Removable	N/A			
		LEG SUPPORTS	N/A			
		REMOVABLE HEADBOARD	N/A			
		REMOVABLE FOOT SECTION	N/A			
		CRANK STORAGE	N/A			
		OVERALL DIMENSIONS				
		L x W, cm	L 193cm x W 66.3cm			
		Height, cm	51-85cm			
		Weight kg	71kg			
		CASTERS	4			
		Diameter, cm	15cm dia casters (with central locking system)			
		Brakes				
		Type	Central Locking			
		Number	4 pedal			
		MAX PATIENT WEIGHT, kg	135kg			
		BUMPERS	4 horizontal roller			
		OTHER SPECIFICATIONS				
		Siderail fixable at horizontal level (as arm rest)	Siderail can be fixed at horizontal level to enable nurses to treat patient's arm and for infusion			
		Double locking system	Double locking system enhances the patient safety during transporting to avoid forgetting locking, once side rail is raised, 1st lock is activated automatically. To enchance safety, activate 2nd lock (yellow) manually			
		Oxygen cylinder holder	A 500-liter (dia 105-115mm) can be mounted either vertically or horizontally at head side			
		Antistatic caster (on four caster)	The yellow ringed caster is an anti-electrostatic one reduce the electrostatic charge			
2	**Partus Bed**			2	Units	
		PATIENT CONTROLS				
		Type	PD-200			
		Functions				
		Auto Countour	Motorized			
		Back Raising	Motorized			
		Knee Raising	Motorized			
		CAREGIVER CONTROLS	Remote			
		MAXIMUM ANGLE				
		Backrest	0° to approx. 65° (approx. 28sec)			
		Bed Inclination	0° to approx. 12° (approx. 5sec)			
		Hi-Low	0mm to approx. 33cm (approx. 23sec)			
		CPR	Manual			
		CONSTRUCTION MATERIAL				
		Frame	Made of steel, powder coating (part is of steel, part is resin)			
		Mattress Base				
		Head Board	PE Resin Mold Item			
		V POLE				
		Storage	On Bed			
		Mounts	2 Hole			
		DRAIN PAN				
		Removable	N/A			
		LEG SUPPORTS				
		REMOVABLE HEADBOARD	Removable			
		REMOVABLE FOOT SECTION	Removable			
		CRANK STORAGE	N/A			
		OVERALL DIMENSIONS				
		L x W, cm	L 207.2cm x W 105.6cm (when bedside rail is raised) x 114cm (when bedside rail is lowered)			
		Height, cm	68.3cm-121.3cm			
		WEIGHT, kg	113kg			
		CASTORS				
		Diameter, cm	12.5cm dia. Single-Wheel Castors			
		BRAKES				
		Type	Total Locking Castor			
		Number	2 Pedals			
		MAX PATIENT WEIGHT, kg	180 kg			
		BUMPERS	Roller Corner Bumper			
		ELECTRICAL				
		Power required, VAC	AC200-240V±10%/V50/60Hz			
		Current required in Ampere	16 Amps			
		Number of motors	3			
3	**Electrocardiograph 12 Channel**			3	Units	
		Electrocardiograph	Examination: Standard 12 lead (rest/post exercise), Arrhythmia (3 lead), Rhythm RR (1 lead), Stress test (optional)			
			Sensitivity: 1/4, 1/2, 1, 2 cm/mV			
			Polarization voltage: ±550mV			
			Frequency response: 0.05 to 150Hz (within -3dB)			
			CMR: 103dB or more			
			Internal noise: 30μV (p-p) or lower			
			Sampling rate: 8000 samples/sec			
			AC filter: -20dB or less @ 50/60Hz			
			Muscle filter: -3dB (-6dB/oct) @ 25/35Hz			
			Drift filter: -3dB or less @ 0.25/0.5Hz			
			A/D converter: 18 bits			
		Recorder	Recording system: Thermal array			
			Width of paper: 210 mm			
			Recording speed: 5, 10, 12.5, 25 and 50 mm/s			
			Recording channels: Auto: 3chx4, 3chx4+R, 3chx4+2R, 6chx2, 6chx2+R			
			Manual: 3ch, 6ch, 12ch			
			Recording paper: Roll: OP-69TE (210mm x 30m)			
		External Connectors	Serial ports	2	pcs	

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
			LAN (10base-TX)	1	pcs	
			USB (USB2.0)	2	pcs	
			VGA output (FX-8322R only)			
		Display	Type: 6.5" colour LCD with backlighting			
			Resolution: 640 x 480 dots			
			Displayed channels: 3, 6, 12			
			Patient information: ID, age, sex, height, weight, etc.			
		Operation	Membrane buttons, keyboard			
			Touch screen			
		Software (optional)				
		Measurement Operation	Basic measurement: Heart rate, RR time, PR time, QRS time, QT time, Qtc, electrical axis,SV1 and RV5(6)			
			Heart rate range: 20 to 300 bpm			
			Accuracy: ±2 bpm			
			Internal memory: Approximately 500 examinations of 10 seconds (12 lead)			
		Analysis Operation	Interpretation and Code: Approximately 120 types			
		Analysis Operation (cont.)	Grade judgement: 4 levels			
			Exercise test judgement: 3 levels (at rest only)			
		Entire Equipment				
		General	Safety: Class I and internally power supply equipment, Type CF			
			Power supply (AC): 100 – 240V, 50/60Hz			
			Power consumption: 100VA			
			Power supply (DC) : Lithium Ion battery			
			Battery operation time: 90 min			
			Battery charging time: 180 min			
			Dimensions: approx. 370(W) x 320(D) x 89(H) mm			
			Weight: approx. 5.2 kg (w/o battery)			
		Operating Environment	Temperature: -10 – 40ºC			
			Humidity: 25 – 95%			
		Transport/Storage Env	Temperature: 10 – 50ºC			
			Humidity: 10 – 95%			
4	**Defibrillator**			1	Unit	
		Defibrillator				
		Waveform	Rectilinear Biphasic			
		Energy Selection	1, 2, 3, 4, 5, 6, 7 8, 9, 10, 15, 20, 30, 50, 70/75, 85,100, 120, 150, 200 joules			
		Charge Time	Less than 7 seconds			
		Synchronized Mode	Synchronizes defibrillator discharge to the patient's R wave. SYNC is indicated on the display with R wave markers above the ECG waveform on the screen and stripchart. When ECG is monitored by the device, meets the DF-80:2003 requirement of 60ms maximum time delay between the peak of the R wave and the delivery of energy			
		ECG Monitoring				
		Patient Connection	3-lead ECG cable or handsfree therapy electrode			
		Input Protection	Fully defibrillator-proof. Special circuitry prevents distortion of ECG during pacer pulse			
		ECG Size	0.5, 1, 1.5, 2, or 3 cm/mV			
		Heart Rate Range	0 to 300 beats per minute			
		CPR Monitoring				
		Real CPR Help and CPR Dashboard	Feedback on depth and rate of CPR (real time rate, depth and release display of chest compression) to assist rescuer achieve high quality CPR according to the AHA (American Heart Association) guideline.			
		See-thru CPR	Enables the rescuer to see patients underlying ECG rhytm while performing manual CPR by filtering CPR artifact from patient ECG waveform, therefore minimizing compression interruption.			
		External Pacemaker				
		Pacing Mode	Demand and fixed rate			
		Pacing Rate, ppm	30 - 180 ppm			
		Output Current, mA	0 - 140 mA			
		Output Protection	Fully defibrillator-protected and isolated			
		SpO2 Monitoring				
		Sensor Compatibility	Masimo sensor compatibility			
		Saturation Range	1 % - 100 %			
		Pulse Rate Range	25 - 240 beats per minute			
		Display				
		Screen Type	High resolution, liquid crystal display			
		Screen Size	6.5 inches diagonally			
		Sweep Speed	25 mm/sec			
		ECG Recorder				
		Auto or Manual Print	Both, user configurable			
		Printing Method	High resolution, thermal array print head			
		Paper Speed	25 mm/sec			
		Battery				
		Type	rechargeable lithium ion battery			
		Capacity	100 discharges at max energy			
			4 hours of continous ECG monitoring			
			or 3.5 hours of continous ECG monitoring and pacing at 60 mA, 80 pulse per minute.			
		Environment Condition				
		Operating temperature	0ºC to 40ºC			
		Relative Humidity	5 to 95 % relative humidity, non condensing			
		Vibration	IEC 68-2-6 and IEC 68-2-34			
		Shock	IEC 68-2-27, 50 g 6ms half sine			
		H x W x L, cm	20.8cm • 26.7cm • 31.7cm with handle			
		Weight, kg	6.17kg with OneStep cable and battery pack			
		Scope of Delivery				
			1 ZOLL R Series with pacing and SpO2			
			3-lead ECG cable			
			Surepower lithium ion battery	1	pc	
			External paddle apex/sternum with built in pediatric electrode	1	pc	
			CPR connector	1	pc	
			CPR Durapadz reusable adult defibrillation pads	1	pc	

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
			Box Durapadz gel	1	pc	
			CPR-stat padz multifunction electrode	2	pcs	
			SpO2 sensor adult + ext cable	1	pc	
			ECG electrode	1	box	
5	**Stethoscope Adult**			**10**	**Units**	
		Applications	Physical Assessment and Diagnosis			
		Chestpiece Finish	Black, Machined Stainless Steel			
		Chestpiece Size	14.4cm			
		Chestpiece Technology	Double Sided			
		Chestpiece Weight (metric)	65g			
		Diaphragm Material	Epoxy/Fiberglass			
		Eartip Type	Soft Sealing			
		Headset Material	Wide diameter aerospace alloy / Anodized aluminum			
		Length	28 Inch			
		Length (Metric)	71cm			
		Net Weight (Metric)	135g			
6	**Stethoscope Paediatric**			**8**	**Units**	
		Dual-sided chestpiece with small 3.3cm diaphragm is ideal for pediatric patients.				
		Versatile chestpiece design provides high acoustic sensitivity with both a floating diaphragm and open bell.				
		Non-chill rim and diaphragm provide patient comfort.				
		Soft-sealing eartips provide an excellent acoustic seal and comfortable fit.				
		Headset is easily adjusted for individual fit and comfort. Angled eartubes align with ear canals.				
		Length : 28 Inch (71cm)				
7	**Stethoscope Neonatal**			**5**	**Units**	
		Uniquely designed miniature chestpiece for neonatal/infant patients.				
		Double-sided chestpiece gives you the option of a 2.7cm standard diaphragm on the front or a 1.9cm traditional open bell on the reverse.				
		Rubber non-chill rim and diaphragm for patient comfort.				
		Anatomically designed headset comfortably positioned for optimal sound transmission.				
		Comfortable Snap-Tight soft seal eartips create an excellent acoustic seal to reduce ambient noise.				
		Durable latex free tubing and a robust headset that can be reliably flexed one million times.				
		Complement your personal style with Littmann's wide range of bright tubing colours and finishes.				
		Used as a diagnostic aid as part of the physical assessment of an infant patient.				
		3 year warranty includes free repair on any manufacturing or material defects.				
		Littmann performance rating of 7 out of 10.				
		Tubing: Black (71cm/28")				
		Stainless Steel Finishing				
		Physical Assessment, Diagnosis				
		Users can use : General Practitioners, Child Specialists				
8	**Pulse Oximetry Portable Neonatal + SET**			**1**	**Unit**	
		Oxygen Saturation (%SpO2)1				
		Measurement Range	0 – 100%			
		Saturation Range	70 – 100%			
		Accuracy (Adults/Infants/Paediatrics)	2%			
		Accuracy (Neonates)	3%			
		Motion				
		Accuracy (Adults/ Infants/ Paediatrics/ Neonates)	3%			
		Low Per Fusion				
		Accuracy (Adults/ Infants/ Paediatrics/ Neonates)	3%			
		Saturation Range	60 – 80%			
		Accuracy (Adults/ Infants/ Paediatrics)	3%			
		Pulse Rate1				
		Measurement Range	25 – 240 bpm			
		No Motion				
		Accuracy (Adults/ Infants/ Paediatrics/ Neonates)	+ 3 bpm			
		Motion				
		Accuracy (Adults/ Infants/ Paediatrics/ Neonates)	+ 5 bpm			
		Low Per Fusion				
		Accuracy (Adults/ Infants/ Paediatrics/ Neonates)	+ 3 bpm			
		Respiratory Rate (RRa, RRp breaths per minute)				
		Measurement Range	4 – 70 breaths per minute			
		Accuracy (Adults/ Paediatrics)	4 – 70 + 1 breath per minute			
		Total Haemoglobin (SpHb g/dl)				
		Measurement Range	0 – 25 g/dL			
		Accuracy (Adults/ Infants/ Paediatrics)	8 – 17 g/dL + 1 g/dL			
		METHAEMOglOBIn (%SpMet)				
		Measurement Range	0 – 99.9%			
		Accuracy (Adults/ Infants/ Paediatrics/ Neonates)	1 – 15% + 1%			
		CARBOXYHAEMOGLOBIN (%SpCO)				
		Measurement Range	0 – 99%			
		Accuracy (Adults/ Infants/ Paediatrics)	1 – 40% + 3%			
		PIETH VARIABIIITY INDEX (PVI), PERFUSION INDEX (PI), OXYGEN CONTENT (SpOC)				
		Measurement Range (PVI)	0 – 100%			
		Measurement Range (PI)	0.02 – 20%			
		Measurement Range (SpOC)	0 – 35ml of O2/dL of blood			
		RESOLUTION				
		Oxygen Saturation (%SpO2)	1%			
		Pulse Rate (bpm)	1 bpm			
		Respiration Rate (RRa, RRp)	1 breath per minute			
		Total Haemoglobin (SpHb g/dL)	0.1 g/dL			
		Methaemoglobin Saturation (%SpMet)	0,10%			
		Carboxyhaemoglobin Saturation (%SpCO)	1%			
		Batteries Handled				
		Type	Lithium Polymer			
		Capacity (battery life)	4 hours			
		Charging Time	3 hours			
		Standalone (with RdS-1B)				

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Type	NiMH			
		Capacity (battery life)	10 hours			
		Charging Time	6 hours			
		Environmental				
		Operating Temperature	(5°C to 40°C)			
		Storage Temperature	(-40°C to +70°C)			
		Operating Humidity	5% to 95%, noncondensing			
		Operating Altitude	500 mbar to 1060 mbar pressure			
		Physical Characters	-1000 ft to 18,000 ft (-304 m to 5,495 m)			
		Dimensions	(22.6 cm x 8.9 cm x 5.3 cm)			
		Standalone	(8.9 cm x 26.7 cm x 19.6cm)			
		Weight				
		Handheld	(0.54 kg)			
		Docking Station (models RDS-1, 2, and 3)	(0.54 kg)			
		Docking Station (models RDS-1, 2, and 3)	(1.14 kg)			
		Standalone (models RDS-1, 2, and 3)	(1.73 kg)			
		Trending				
		Provides 96 hours of trending at 2-second resolution of SpO2, Pulse Rate, RRa, RRp, SpHb, SpMet, SpCO, Per fusion Index, and SpOC with output to serial printer or other serial devices.				
		Sp O2 Modes				
		Averaging Mode	2, 4, 8, 10, 12, 14, or 16 seconds			
		Sensitivity	Normal, APOD®, and Maximum			
		RRa Modes				
		RRa Averaging Mode	0, 10, 20, 30, 60 seconds			
		Alarms				
		Audible and visual alarms for high low saturation and pulse rate (SpO2 range				
		1-99%, pulse rate range 30-235 BPM, RRa and RRp range 4-69 breaths per minute, SpHb range 1-24.5 g/dL, SpMet range 1-99.5%, PVI range 1-99%, SpCO range 1-98%, PI range 0.03-19%).				
		Display Indicators				
		Data display: SpO2, pulse rate, Respiratory Rate (RRa), Respiratory Rate (RRp), SpHb, SpMet, PVI, SpCO, per fusion index, SpOC, pleth waveform, RRa waveform, alarm status, trends, status messages, Signal IQ, MAX, Norm and APOD sensitivities, and FastSat®.				
		Type	Backlit Active Matrix TFT LCD, Colour Touchscreen			
		Pixels	480 x 272 dots			
		Dot Pitch	0.25 mm			
		Output Interface	SatShare (RDS-1); Serial RS-232 (RDS-1, RDS-3); Nurse Call/Analogue Output			
		(RDS-1, RDS-3); Philips Vuelink, Spacelabs Universal Flexport, (RDS-1, RDS-3)				
9	**Pulse Oximetry Portable Neonatal**	**Safety**	Meet the requirements of IEC60601 series,	4	**Units**	
			CE marking according to MDD93/42/EEC			
		Type of Protection	Class II with internal electric power supply			
		Degree of Protection	BF (defibrillation proof)			
		Protection Against Ingress of Liquid:	IPX2			
		Dimension and Weight				
		Dimension	55(W)X120(H)X30(D)mm			
		Weight	Maximum weight 300g (with battery)			
		Operation Environment				
		Temperature	0-40℃			
		Humidity	15-95% (non-condensing)			
		Storage Environment				
		Temperature	-20℃~ +60℃			
		Humidity	10% ～ 95% (non condensing)			
		Performance Specifications				
		Display	2.4" color TFT			
		Resolution	320×240			
		Multi displays selectable	Standard screen display			
			Waveform display			
		Trace	1 plethysmogram waveform			
		Indicator	Alarm indicator light			
			Power indicator light			
			Pulse tone			
			Alarm sound			
			Button tones			
		Interface	One dual-purpose socket for connecting SpO2 sensor and communication cable			
		IR interface	Infrared link allows downloading realtime patient data to computer			
		DC Power interface	Charger stand for Li-ion battery			
		DC Power Requirements	Input voltage 5V DC Power 1.2A			
		Battery	Li-ion battery			
			2 hours for charging; 24 hours for continuous working			
			AA batteries (for 3 pieces); 36 hours for continuous working			
		Trend memory	Monitoring mode			
			Resolution: 2s			
			Maximum time: 96h			
			Spot-Check mode			
			Review of up to 4,000 data; measure up to 99 patients			
		Alarm	User-adjustable high and low limits 3-level audible and visual alarm			
		SpO2				
		Measurement Range	0~100%			
		Resolution	0.01			
		Accuracy	±2% (70～100%,Adult/Pediatric)			
			±3% (70～100%,Neonate)			
			0~69% unspecified			
		Alarm Range	50～100%			
		Refreshing Rate	1 s			
		Averaging Time	7 s（Sensitivity set HIGH）			
			9 s（Sensitivity set MED）			
			11 s（Sensitivity set LOW）			
		Pulse Rate				
		Range	18～300bpm			
		Resolution	1bpm			
		Accuracy	±3bpm (non-motion)			
			±5bpm (motion)			
		Alarm Range	18～300bpm			
		Refreshing Rate	1 s			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Averaging Time	9 s（Sensitivity set MED） 7 s（Sensitivity set HIGH）			
10	**Film Viewer**	Construction	Stainless Steel Plate & Acrylic Transparent	**2**	**Units**	
		Lamp	4 x 20 watt			
		Power supply	220 v			
		Capacity	Two films			
		Dimension	820 x 100 x 490 cm			
		Construction	Stainless Steel Plate & Acrylic Transparent			
11	**Aneroid Sphygmomanometer Mobile**	Combining all the features of the Aneroid Sphygmomanometer table and walls in 1 pole		**12**	**Units**	
		Large-scale cross section				
		Black color				
		Highlighted with a frame				
		Easy to read from all directions				
		Protected from the impact of a manometer				
		Made of nylon polymer, MDF Velcro Cuff abrasion resistant chemicals				
		In accordance with the recommendations of the American Heart Association Standard				
		Tube 2.4m				
		Inflation bag from PVC				
		In accordance with the recommendations of the American Heart Association Standard				
		Blade Tube Universal				
		Valve made of chrome plated iron				
		Inflation blub from PVC				
		Free latex and hypoallergenic				
		Accessories Cuff Set Basket, ID Tag, pole with wheels				
12	**Digital Sphygmomanometer Mobile**	Measurement Technology	Pulse rate accuracy	**15**	**Units**	
		Measurement Method	Oscillometric (full automatic) & Auscultation method (semi automatic by stateschoge)			
		Measurement Process	Dynamic Linear Deflation Method			
		Pressure Display Range	0 to 300 mmHG			
		Pressure Display Accuracy	within ± 3mmHg or 2 %			
		NIBP Measurement Range	SYS 60 to 250 mmHg, DIA 40 to 200 mmHg PULSE 40 to 200/min			
		NIBP Accuracy	Maximum mean error within ± 5mmHg; Maximum standard deviation within 8 mmHg			
		Pulse Rate Accuracy	within ± 5 % of reading			
		Dry Cell Battery	Input Voltage : AC 100 V to 240 V			
		Weight	Main unit : approx. 510g (not including accessories and optional part)			
		Safety Standards	IEC60601-1:1988+A1:1991+A2:1995 Medical electrical equipment-part1 : General requirements for safety			
		Dimension	Main unit : 5.12 x 6.89 x 4.72 (inch) 130 x 176 x 120 (mm) (W x H x D)AC Adapter : 2.17 x 0.98 x 2.76 (inch) 56 x 26 x 70 (mm) (W x H x D)			
		Environment Conditions	Temperature range : 6 to 40° C (41 to 104°F) humidity range : 15 to 85% RH (not condensed)			
		Storage and transportation	Temperature range : -20 to 60 C, (-4 to 140°F) humidity : 10 to 95 % RH (not condensed)			
		Display	7 segment LCD			
		Reference Standard	ANSI/AAMI SP-10:2002+A1:2003+A2:2006/(R) 2008 ISO81060-2:2009			
		AC Adapter	Input voltage range : AC 100 V to 240 V Rated current : 0.5 A Frequency : 50/60 Hz Output voltage range : DC 6 V ±5%			
		Degree of Protection	Type BF			
		Package Storage / Paket Pembelian	Main unit HBP-1100, Manset ukuran M, AC adaptor, instruction manual, warranty card			
13	**Suction Wall**	Provide an adjustable, continuous vacuum level up to 760mmHg		**15**	**Units**	
		REG/OFF switch allows the quick restoration of a pre-adjusted vacuum level				
		Continuous suction controller guaranteeing reliability and fine adjustment				
		Plastic hosing and cover preventing from risk of corrosion				
		REG/OFF indicator on the side allows the caregiver to operate the vacuum regulator easily				
		Non-interchangeable screw threads (NIST) guarantee easy and safe operation				
		Precise vacuum control with non-slip hand wheel				
		Colour coded body for additional safety				
		User-friendly gauge marked for high, medium and low pressure				
		Multiple connections and mounting options				
		Available with overflow safety trap				
14	**Blood Warmer**	Set temperature	+37°C up to +39°C	**1**	**Unit**	
		Length warming device	1.5 m			
		For I.V set diameter	4.0 - 5.0 mm			
		Features	Warms infusion solutions, FFP and blood up to the patient			
			Designed for any standard I.V set			
			One-touch control			
			No additional disposables required			
			Displays actual temperature of the warming sleeve			
			Visual and acoustic alarm in case of error			
			Can be applied for the return of dialyses fluids			
		Safety	Integrated temperature sensors			
			Overtemperature alarm			
			Smooth surface, therefore simple to wash and disinfect			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
			Operational safety thanks to preset target temperature value			
15	**Instrument Trolley**	Construction	Made of stainless steel (thickness 1mm) and assembled with TIG welding process	6	**Units**	
		Upper Shelf	Made of stainless steel (thickness 1mm) with list on each side and equipped a drawer (dimension : (L)375 x (W)290 x (H)65mm) underneath the shelf			
		Lower Shelf	Made of stainless steel (thickness 1mm) with list on each side			
		Handle	Made of stainless steel pipe (Ø 16mm)			
		Castor	Four 2" castor with the bumper overhead each castor (made of plastic by injection molding process)			
		Max. Load	25 kg (each shelf)			
		Net Weight (approx.)	15 kg			
		Dimension (approx.)	(L)630 x (W)470 x (H)835mm			
16	**Mayo Table**	Construction	The leg is made of stainless steel sheet (thickness 2 mm)	4	**Units**	
			The table is made of stainless steel sheet (thickness 1 mm)			
			With rim on each side. Assembled with TIG (Tungsten Inert Gas) welding process			
		Height	The pole is made of stainless pipe (Ø31.8mm & Ø12.7mm) and adjustable with pin lock			
		Castor	Four 2" swivel castors			
		Max. Load	15kg			
		Dimension (approx.)	(L)570 x (W)430 x (H)870 - 1095mm			
17	**Mattress Anti Decubitus**	A General use mattress designed for patients at low risk of developing pressure ulcers		2	**Units**	
		Its core is made from a high density polyurethene foam	Its core is made from a high density polyurethene foam			
		Cover is made from a flexible and steam permeable fabric, sewn	Cover is made from a flexible and steam permeable fabric, sewn.			
			Dimension : 200 x 86 x 14cm			
18	**Infusion Stand**	Dimension approx.	Height from 1300 to 2100 mm	40	**Units**	
		Structure	Made of stainless steel tube			
			There are two hooks			
			Claw wheels made of good quality plastic			
		Load capacity	20 Kg			
19	**Transport Incubator**	**CONFIGURATION**		2	**Units**	
		Incubator or incubator/warmer (combination unit)	Incubator			
		Type	Transport			
		TEMPERATURE CONTROL				
		AIR				
		Measuring range	20ºC-41ºC, +/- 0.1ºC			
		Set value range	22ºC-38ºC increment (0.1ºC) & regulation <1.0ºC by Servo Control			
		SKIN				
		Measuring range				
		Set value range	No			
		TEMPERATURE DISPLAY				
		Air, display type	Digital			
		Range, °C	20ºC-41ºC			
		Skin, display type	Digital			
		Range, °C	20ºC-41ºC			
			Display main skin baby temperature on air temperature setting			
		ALARMS				
		High air temp	yes			
		Low air temp	no			
		High skin temp	yes			
		Low skin temp	no			
		Fan failure	yes			
		Sensor failure	yes			
		Power failure	yes			
		BACKUP THERMOSTAT	no			
		HEATER POWER INDICATOR	yes			
		HAND PORTS	3	pcs		
		TUBING PORTS	6	pcs		
		O2 SOURCE				
		Inlet Ports	Mobile small tubes installed at the front and back of the incubator	2	pcs	
		Controllers	Flow meter			
		Measuring principle	Adjustable from a range of 21% to at least 58% with oxygen flow rate ≥ 6LPM			
		Set value range	By flow meter			
		SUPPLEMENTAL HUMIDITY	yes			
		Measuring principle	Integral humidity pad provides 50 to 70% relative humidity in the hood for up to 12 hrs			
		Measuring range	50 to 70% RH			
		Set value range	no			
		PHOTOTHERAPY	no			
		SCALE	no			
		Measuring Scale				
		Resolution				
		INTERNAL NOISE	<60 dB			
		POWER, VAC	230V/240V, 50/60 Hz			
		BATTERY , TYPE	no			
		DOUBLE WALL	yes			
		VERTICAL HOOD-TO-MATTRESS DISTANCE, cm (in)	21 cm or 25 cm			
		Incubator with stand, H x W x L, cm	(81.3 to 111.8) cm x 56.5 cm x 102 cm			
		Mattress, W x D, cm				
		Hood access door, H x W, cm (in)	H , 28 cm			
		Castors, cm (in)	10 cm, with all friction break			
		WEIGHT, kg	72kg			
		OTHER SPECIFICATIONS				
		Electrical power supply	230V/240V AC, 50/60/400 Hz			
		Heater power	Air heater 270 W maximum			
		Warm-up time	30 minutes			
		CO2 flush, conforming to IEC/EN 60601-2-19, max available CO2 concentration in the incubator	<0.5 Vol%			
		Air filter	Removes > 99% of airborne particle greater than 0.5 micron diameter			
		Bed tilting	no			
		Switch from AC to DC/ DC to AC	yes, automatic			
		Internal battery type	12V rechargeable	2	pcs	
		Long life internal battery	180 minutes for 2 battery at full heater power			
		Charge time	10 hours per battery from full discharge			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		DC power cod adapter	DC power cod female connector on 1 side bare wire on other to be connected to specific ambulance or aircraft plug			
		Emergency accessable :	yes			
		Access door	2 doors: provide access in emergency to the infant through the head end of incubator, and front access panel with quiet touch access port			
		Slide out bed	yes. There is a door on the side of the head to to emergency action while the body remains in the incubator to keep warm			
		Examinitation lamp	376.7 lux at 10 cm above center of the mattress			
		Trolley	The trolley can be folded 3 times for easy entry into an ambulance			
		Integrated cylinder mounting	yes			
		Integrated shelf for patient monitor	yes, low hood shelf			
			Air curtain technology, to keep warm inside while open incubator			
			No condensation with passive humidity up to 70%			
20	**Suction Mobile Portable**	Adjustable vacuum range	0.02 – 0.08 MPa (150-600 mmHg)	8	**Units**	
		Flow rate	≥ 22 l/min			
		Noise	≤ 60 dB			
		Storage bottle	1000 ml			
		Power supply	~220 V, 50 Hz			
		Input power	110 VA			
		Nett weight	4.5kg			
21	**Vein Detector for Adult**	Maximum reach	(135cm)	1	**Unit**	
		Brightness	6-10 lumens			
		Weight	24kg			
		Height (assembled device)	(177cm)			
		Base	(53.3cm) on the diagonal			
		Power source	FastSwap Lithium Ion Battery or AC (outlet)			
		Imaging/focal distance	(30 cm), meets with AST recommendations for safe distance from the sterile field.			
		Unit operates via AC power or Lithium Ion Battery so there is never fear of a "down" device. Unit can be used while it is charging. Each Battery has a continuous run time of about two hours. Unit comes with (1) one Battery.				
		Unit uses no consumables, requires no patient contact and has no heat, laser eye-safety or radiation issues.				
22	**Vein Detector for Neonatal**	The LED light source is an orange and red light		1	**Unit**	
		The light cable is fiber optic				
		Dimmer (Light Settings)				
		Angled optic	yes			
		Luminous power	++++ (red or yellow)			
		Dimmability	yes			
		Dimension	Small			
		L x W x H (cm)	6.8 x 1.6 x 1.0			
		Disinfection	+++			
		Energy sources	Battery rechargeable			
23	**Emergency Trolley**	Range of pre-configured emergency carts		2	**Units**	
		Incorporates Microban offering antimicrobial protection				
		Lightweight polymer construction with smooth rounded corners to assist cleaning				
		Single seal mechanism secures the top compartment, drawers and tilt out side bins (security seal compatible)				
		Top storage compartment with clear removable cover provides instant access to first line equipment				
		Strapless defibrillator platform on swing arm adjusts to accommodate various models				
		Full extension lightweight polymer drawers, depths 76, 152, 229 & 305mm, (max load 24kg)				
		Ergonomic handle with fifth wheel steering provides maximum control when attending an emergency situation				
		Two tone colour kewway				
		125mm castors, 2 off braking				
		STANDARD COLOURS				
24	**Wheelchair**	Construction	Made of stainless steel pipe (Ø25.4mm), assembled with TIG welding process	25	**Units**	
		Back Support & Seat	Made of foam and covered by imitation leather			
		Armrest & footrest	Made of nylon plastic (injection molding process)			
		Wheel	The front wheel two 8" castors, and the main wheel two 24" rubber wheel with non air tube tire and plastic rim			
		Equipped with	Lock position, and Wheelchair can be folded easily			
		Max. Load	120kg			
		Net Weight (approx.)	17kg			
		Dimension (approx.)	(L)1050 x (W)620 x (H)890mm			
25	**Nebulizer**	Nebulizer Rate	Approx 0.4 ml/min (by weight loss)	4	**Units**	
		Aerosol Ouput	0.57 ml (2 ml, 1%NaF)			
		Aerosol Output rate	0.09 ml/min (2 ml, 1% NaF)			
		Particle size	MMAD approx. 3 µm,			
			MMAD = Mass Median Aerodynamic Diameter			
		Appropriate Medication Quantities	2ml minimum – 7ml maximum			
		Medication Capacity (Max)	7ml maximum			
		Power Consumption	220 VA			
		Operating Temperature / Humidity	+10°C to +40°C / 30% to 85% RH			
		Storage and Transport Temperature/Humidity/Air Pressure	-20°C to +60°C / 10% to 95% RH/ 700-1060hPa			
		Airflow/Compressor Output	7L/min @100kPa			
		Dimensions approx.	175 (W) x 110 (H) x 215 (D)mm (compressor only)			
		Weight (kg)	Approx. 2.2kg (compressor only)			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Contents	Compressor, Nebulizer Kit, Air Tube (PVC,200cm), Mouthpiece, Adult Mask (PVC),Child Mask (PVC), 5 pcs Spare Part Air Filters, Instruction Manual, Warranty Card			
26	**Long Spine Board**	Dimensions	Length 1830mm (±40mm), Width 406mm (±13mm), Thickness 58mm (±13mm) (16 ±0.5" x 72 ±1.5" x 2.5")	6	**Units**	
		Weight	6.02kg (13.5 lbs.) (single board)			
		Thickness	2.3 inches			
		Handholds		14	pcs	
		Handhold width of 2 inches				
		Handhold length of 5.25 inches				
		Minimum storage space for 2 boards of approximately 4.00 inches				
		Pins		12	pcs	
		Carbon fiber rods				
		CE marked				
		Operating temperature	-34°C to 52°C			
		Storage temperature	-34°C to 52°C			
		5 year limited warranty				
		Latex free				
		Seamless rotation mold				
27	**Scoop Stretcher**	Weight (kg)	8kg	6	**Units**	
		Load Limits	227kg			
		Width	43cm			
		Height	7cm			
		Length	210cm			
		Features				
		Made from lightweight, high-impact composite materials				
		Twin Safety Lock® hinge for smooth and nonbinding locking and unlocking				
		Includes three burgundy restraints				
		Two hinged, interlocking pieces allow operators to gently scoop up a patient without having to roll them; decreasing movement to the cervical spine				
28	**Kendrick Extrication Device**	Weight (kg)	3kg	6	**Units**	
		Load Limits	227kg			
		Width	4cm			
		Height	80cm			
		Length	83cm			
		Features				
		Wraparound design provides horizontal flexibility for easy application and vertical rigidity for maximum support of the spine, neck, and head during extrication.				
		Built-in handles enable rescuers to get a firm grip on the patient and K.E.D.® as one unit.				
		Adapts to a hip and pelvic splint by simple inversion.				
		Adjustable, fold-back sides permit easy access to patient's chest.				
		Can be used for multiple patient sizes, including children and pregnant women.				
		Color-coded				
		Sewn-in securing straps and snaplock buckles for quick				
		Easy application				
29	**Patient Transfer**	Load Capacity (supplier stated) 400kg		4	**Units**	
		Size	H10mm x L1525mm x W635mm			
30	**Spirometry**	**Specifications**		2	**Units**	
		Display	touch screen			
		Dimensions of display (mm)	122 x 89			
		Screen resolution (dots)	640 x 480 RGB (colour)			
		Keyboard	combined – functional + touch screen buttons			
		Interface	RS232, USB			
		Dimensions (mm)	330 x 270 x 74			
		Weight (kg)	ca. 3.2			
		Upgrade digital	Cardiopoint software			
		Operating conditions				
		Ambient temperature	+ 10°C to + 40°C			
		Recommended ambient temperature	+ 17°C to + 28°C (to avoid any provocative bronchial reaction)			
		Relative humidity	25 % to 95 %			
		Barometric pressure	700 hPa to 1100 hPa			
		Technical specifications				
		Flow range (litres/s)	16 L/s (inspire / expire)			
		Accuracy (50 ml/s to 16 l/s)	± 3 % or 50 ml/s (whichever is greater)			
		Volume range (litres)	0.025 to 8 litres			
		Accuracy (0.025 to 8 l)	± 3 % or 50 ml (whichever is greater)			
		Flow resistance	< 79 Pa /L/s			
31	**Screening kit**	**Qualification Level**		1	**Set**	
		Age Range	1 to 42 months			
		Completion Time	15 to 25 minutes			
		Norms: Norm-referenced	Norm-referenced			
		Scores/Interpretation	: Cut scores by age for Cognitive, Language, and Motor Scales			
		Features				
		Cognitive, language, and motor domains tested				
		Fast administration — 15 to 25 minutes				
		Easy administration — selected items from the full Bayley-III battery				
		Child-friendly, playful activities				
		Cut scores according to age				
32	**Stadiometer**	Measuring Range	20-205cm	1	**Unit**	
		Graduation	1mm			
		Dimension	337 x 2,130 x 590mm			
		Weight	2.4kg			
		Certifications	CE 0123			
33	**Sitting Height Table**	Accurate & direct readings		1	**Unit**	
		Range from 320mm to 109000				
		Adjustable foot rest				
		Constructed mainly of light alloy				
		Tubular steel legs				
		Adjustable feet				
		Weight: 24kg				
		Crated size: approx 132cm x 70cm x 23cm				
		Crated weight: approx 35kg				
34	**Innerscan Body Composition Monitor**	Full Features of Body Composition Monitor		1	**Unit**	
		Weight	Max. 150kg			
		Personal Data Memories Feature				
		Battery Power	AA x 4 (included)			
		Dimension	31 x 30 x 3cm			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
35	**Digital Baby Weighing Scale**	**FEATURES**		4	Units	
		Mobile Digital Baby Scale				
		Handy and light for mobile medical use				
		Comfortable cradle				
		Large, easy to read LD display				
		Reliable result due to automatic damping system				
		TECHNICAL DATA				
		Capacity	: 20kg			
		Graduation	: 5g < 10kg > 10g			
		Power Supply	: batteries, power adapter			
		Dimensions (WxHxD)	: 638 x 105 x 300mm			
		Dimensions/weighing platform (WxHxD)	: 595 x 50 x 255mm			
		Weight	: 2.8kg			
		Function	: TARE, BMIF, auto-hold, automatic switc-off, kg/lbs switch-over			
		ACCESSORIES INCLUDED				
		Measuring rod		1	pcs	
		Batteries and power adapter		1	pcs	
36	**Medical Electric Plaster Saw Cast Cutter**	Voltage	220 V ± 10%	1	Unit	
		Current	0.6 A			
		Frequency	50 Hz± 2 %			
		Noise	< 90 dB			
		Number of Strokes	> 8500 rpm			
37	**Holter Monitor**	Display	LCD	1	Unit	
		Max. weight incl. batteries	139g			
		Dimensions (l x w x h) in mm/inches	102 x 62 x 24mm			
		Software	Cardiopoint			
		ECG recording				
		Channels	3 or 6 or 12 channel			
		Cables	5 dan 10			
		Frequency sampling	: 2000 Hz			
		Battery:				
		Type	: Alkaline or Lithium or NiMH			
		Size	: 2x AA			
38	**Pletismography**	Display Colour	LCD Display	1	Unit	
			640x480 dots			
		Recorder	Recording Method Thermal Print head 8 dots/mm			
		Paper Speed	5,10,12.5, 25, 50 mm/s ±3%			
		Leads	BP/Pulse wave test : Lead I			
			ECG Test : Standard 12-lead ECG (option)			
		Standard Sensivity	10 mm/mV			
		Sensivity Changes	1/4, 1/2, 1.2 of standard, auto			
		Diferential and common-mode offset voltage (electrode-skin voltage)				
		Sine wave characteristics	0.05 ~ 150Hz within -3dB			
		Low frequency characteristics (time constant)	3.2s or more			
		CMRR	103dB or more			
		Input Impedance	50M Ω or more			
		Internal Noise	RTI, 30 μ Vp- p max			
		Filters	AC : 50/60 Hz 9-20 dB max)			
			Frequency : 25/35 Hz - 3 dB 9-6 dB/oct)			
			Drift : 0.25 Hz/) 0.5 Hz within -3dB			
			High frequency characteristics : 75/100/150 Hz			
		PCG	Frequency responses : L filter : 50 Hz (-6 dB/oct)			
			PW V filter : 165 ~ 280 Hz within -3dB			
		Spymigraph	Frequency responses : 0.08 ~ 20 Hz within -3dB			
		NIBP				
		Measuring Range	0 - 300 mmHg			
		Scale Interval	1 mmHg			
		Pressure Accuracy	± 3mmHg			
		Pressure Detection	Semiconductor pressure sensor			
		Zero Balancing	Automatic balancing			
		Measuring Method	Oscillmetric			
		NIBP Measuring Range	20 ~280 mmHg			
		Inflation Methode	Automatic inflation by pump			
		Deflating Methode	Automatic by electromagnetic valve			
		Safety Device	over 330mmHg			
			110 mmHg for longer than 120 sec			
		CF Card Slot	compact flash card Type I/II			
		Serial Connector	RS-232C compatible			
		LAN Connector	IEEEE 802. 2, 10BASE-T			
		Printer Connector	USB (fukuda optional printer)			
		Safety Standard	IEC 60601-1 : 1988			
		Electrical Shock Protection (Type CF)	Class I			
			NIBP, ECG Input, Sphygmograph input			
		Operating Environments	Temperature 10 ~ 40 °C			
			Humidity 25 ~ 95 % (no condensation)			
			Power Supply 100 ~ 240 V AC 50 / 60 Hz, 120 VA			
		Dimensions approx.	LCD Closed : 340 W x 342 (D) x 109 (H) mm			
			LCD Open : 340 (W) x 342 (D) x 314 (H) mm			
		Weight	Approx. 8.0kg			
39	**Ventilator Advanced**	Invasive Ventilation Modes	All Ventilation Modes	1	Unit	
		Non-Invasive Ventilation Modes	All Ventilation Modes			
		Enhancement	AutoFlow (AutoAdaptation of Inspiratory Flow in Volume Modes) Capnograph with Mainstream etCO2 Graphical Loops Overlaid with Reference for Comparison			
		Parameters Setting :				
		Ventilation Frequency (RR)	2/minute to 80/minute			
		• Inspiration Time (TI)	0.2 second to 10 second			
		• Tidal Volume	20 ml to 2000 ml			
		• Flow Acceleration	5 to 200 cmH2O/second			
		• Inspiratory Pressure	1 cmH2O to 99 cmH2O, absolute (include PEEP, not above PEEP)			
		• PEEP (Intermittent PEEP)	0 to 50 cmH2O			
		• Pressure Support	0 to 50 cmH2O (above PEEP)			
		• O2 Concentration	21% to 100%			
		• Inspiratory Trigger Sensitivity	1 L/minute to 15 L/minute			
		• Termination Criteria (Expiratory Trigger)	5% to 75% of Peak Inspiratory Flow			
		Performance Data				
		Maximum (continuous) Inspiratory Flow	250 L/min			
		Control Principle	Time cycled, volume controlled, pressure limited			
		Safety Valve Opening on OverPressure	120 cmH2O			
		Safety Valve	Open if medical oxygen and air supply is not sufficient, enables spontaneous breathing with ambient air.			
		Medicament Nebulisation	Synchronized with Inspiration			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Bronchial Suction Manuever	yes			
		O2 Sensor/Measurement	**Up to 2 years lifetime**			
		CO2 Measurement	Mainstream, displayed as Numerical Data and Graphic			
		Operating Data				
		Main Power Connection	100 to 240 Volt, 50/60 Hz			
		Current Consumption	1.3 Ampere max. at 240 Volt			
		Battery Backup	Up to 5 hours (also for Internal Compressor), integrated on trolley.			
		Medical Air Compressor	Internal (Power from Ventilator), Turbin Technology, Lifetime up to 8 years			
		Gas supply : • Oxygen Pressure	3 to 6 Bar			
		Physical Specifications				
		Dimensions ventilator (W x H x D) approx.	460mm x 383mm x 364mm (with trolley)			
		Diagonal screen size	12" TFT Color Touch Screen			
		Weight Basic Unit	approx. 26kg			
40	**Patient Monitor**	Size	10.4 Inch	**2**	**Units**	
		Type	Active matrix color TFT LCD			
		Resolution	SVGA (800 x 600)			
		Number of Traces	Up to 6			
		Number of Digit Fields	Up to 4			
		Display Layout and Colors	User-configurable			
		Weight approx.	6 Kg			
		Extension Module	Mini - C (optional)			
		I/O Connections	RS-232 computer serial output, Defibrillation synch, ECG and IBP analog outputs, nurse call			
		Network	Compatible with S/5 Network and iCentral for centralized viewing and remote alarm management			
		Trends				
		Graphical	All parameters, selectable times from 20 minutes to 72 hours			
		Numerical	All parameters, sampled every 5 min after NIBP measurement and with marker generated by user			
		Trend cursor	In both graphical and numerical trends			
		Minitrends	5 or 30 minute minitrends can be displayed for a continuous historical view			
		Alarms				
		Classification	Alarm system classified into three categories according to priority in critical care; color and audio tone coded			
		Adjustment	Central alarm display and adjustment page			
		Trending	10 min graphical minitrends referenced to set alarm limits			
		Power				
		Power Requirement	100 to 240V ±10%, 50/60 Hz			
		Protection Class	Class I			
		Battery				
		Type	Exchangeable lithium-Ion, 2 pcs (max.)			
		Operation Time	Up to 4.5 hours			
		Charging Time	Charging time			
		Environmental Specifications				
		Temperature				
		Normal	5°C to 40°C			
		Charging Batteries	5°C to 35°C			
		Relative Humidity	20% to 90% non-condensing			
		Certifications				
		IEC 60601 - 1 passed				
		CE marking according to Directive 93/42/EEC				
		Technical Data (Module)				
		ECG				
		Lead Type	3-lead (I, II, III)			
			5-lead (I, II, III, aVL, aVF, aVR, V) - Optional Cable Needed			
		Sweep Speed	12.5, 25 or 50 mm/s			
		Gain Range	0.2 to 5.0 cm/mV			
		Heart Rate Range	30 to 300 bpm			
		Filter	Monitor : 0.5 to 30/40 Hz ST			
			0.05 to 30/40 Hz Diagnostic			
			0.05 to 150 Hz (50/60 Hz			
			power supply, 3 dB)			
		Defibrillation	5000 V, 360 J			
		Pacemaker				
		Range	2 to 700 mV			
		Pulse Width	0.5 to 2 ms			
		Arrhythmia Analysis	Ek-Pro arrhythmia analysis			
		ST Segment Analysis				
		Display Resolution	-9 to +9 mm (-0.9 to +0.9 mV)			
		ST Segment Range	0.1 mm (0.01 mV)			
		ST Trends	Up to 72 hours			
		Respiration				
		Method	Transthoracic impedance			
		Respiration Range	4 to 120 resp/min			
		Accuracy	±5% or ±5 breath/min whichever is greater			
		Sweep Speed	Slow 0.62 mm/s, fast 6.25 mm/s			
		Gain Range	0.1 to 5 cm/ohm			
		NIBP				
		Display Parameters	Systolic, diastolic and mean arterial pressure			
		Operation Mode				
		Measurement Principle	Manual, Auto, STAT			
		Measurement Range	SuperSTAT, Oscillometric with step deflation			
			Systolic			
			Adult/Pediatric: 30 to 290 mmHg			
			Neonate: 30 to 140 mmHg			
			MAP			
			Adult/Pediatric: 20 to 260 mmHg			
			Neonate: 20 to 125 mmHg			
			Diastolic			
			Adult/Pediatric: 10 to 220 mmHg			
			Neonate: 10 to 110 mmHg			
		Default Initial Inflation Pressure	Adult/Pediatric: 135 ± 15 mmHg			
			Neonate: 100 ± 15 mmHg			
		Maximum Determination Time	Adult/Pediatric: 2 minutes			
			Neonate: 85 seconds			
		Over Pressure Monitor	Adult/Pediatric: 300 to 330 mmHg			
			Neonate: 150 to 165 mmHg			
		Accuracy	Meets AAMI SP10			
		SpO2				
		Technology	GE Datex-Ohmeda			
		Measurement Accuracy	0 to 100%			
		Display Range	100 to 70% ±2 digits			
			±3 digits during clinical patient motion;			
			69 to 0%, unspecified			
		Display Resolution	1 digit (1% of SpO2)			
		Pulse Rate				
		Display Range	30 to 250 bpm			
		Display Resolution	1 digit (1 bpm)			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Accuracy	±5% or ±5 bpm			
41	**Anaesthesia Machine**	Main Unit	to including: 10.4 inch touch color screen,	1	Unit	
		PCV	Pressure controlled ventilation mode (PCV)			
		O2 Sensor	O2 monitor and accessory kit, including: -O2 sensor, Medicel MOX-2 -O2 sensor cable			
		Independent ACGO	Independent ACGO for EX-20\30\35 with pressure monitoring			
		Software Language	English version			
		Power Cord	Power cord as per hospital system			
		Machine ID	European (ID) style			
		Pipeline (Hose) Inlet	NIST-2 (European)			
		Gas Supply	O2 & N2O & Air (glass flowmeter for 20/30/35)			
		Gas Hose	O2 & N2O & Air hoses			
		Driven Gas	O2 drive			
		Vap Position	2 vaporizer position(Selectatec)			
		Breathing Circuit	PSU Breathing Circuit (w/arm, w/heating system, w/o CO2 bypass)			
		AGSS	Active AGSS system or Passive AGSS system			
		SIMV	SIMV mode (SIMV-VC and SIMV-PC)			
		PSV	Pressure supported ventilation mode (PS, w/ apnea backup)			
		One Vap	Sevoflurane vaporizer (Quick-fill)			
		Additional Vap	Isoflurane vaporizer (Pour-fill)			
		Auxiliary O2 Outlet	Auxiliary O2 flowmeter			
		Power Outlet	Auxiliary sockets			
		Accessory	Reusable accessory kit (Adult)			
			Reusable accessory kit (Child)			
			Demo lung (Test lung) for adult			
			breathing bag silicon 0.5L			
			breath bag silicon 2L			
			T-Piece System type (Children open circuit)			
			Bacteria Filter			
42	**Patient Warming Machine**	Dimension	: 60cm x 43cm x 30cm	1	Unit	
		Weight	: 5.2kg			
		Power Requirements	: 100 - 240 Volt, max. current at 240V 5A			
		Power Cord Length	: 4.3m			
		Average Time for Temperature of Air Exiting the Hose to Rise from 23ºC ± 2˚C to 37˚C	: < 1 minute			
		Automatic Temperature Stepdown	: After 45-minutes of continuous use, blower will step down from the boost to high setting			
		Accuracy of Displayed Temperature	: ± 1ºC (air entering hose)			
		Thermal Protection Threshold	: Thermostat (internal): 49ºC to 55ºC			
		Blower Operating Temperature Range	: 18ºC - 28ºC			
		Over Temperature Alarm Level	: 63 dB at 3 meters			
		Protection Against Ingress of Fluids	: Ordinary			
		Air Flow Rate	: 49.9 CFM - 23.5 L/s			
		HEPA Filter	: Pore size 0.3µ, 99.97% efficient			
		Filter Life	: up to 2000 hours of use or 365 days of operation which on come first			
		Temperature Selection	: Ambient, 34ºC, 40ºC, 45ºC, 47ºC			
		Blanket Construction	2-ply material consisting of polyethylene film inner layer and non-woven outer layers			
		Blanket Material Characteristics	: Tear, puncture and fluid resistant; comfortable to the touch. X-Ray transparent: will not interfere with, or affect X-Rays			
		Blanket Air Flow	Quilted design allows uniform airflow distribution			
		Latex Allergen	: None			
		Include				
		Warmtouch	1 unit			
		Blanket	1 set			
		Cart	1 Unit			
43	**Nerve Stimulator**	**Type**		1	Unit	
		Instrument Type	BF			
		Battery	9V (alkaline)			
		Power Consumption	6 mA (8 mA max)			
		Stimulation Current	I = 5 mA (max.) (0-12 kΩ)			
		Stimulation Voltage	U = 95 V (max.)			
		Stimulation Frequency	1 Hz / 2Hz ±1% / SENSe (3 Hz)			
		Stimulus Duration	0.05 ms - 0.10 ms - 0.30 ms - 0.50 ms - 1.00 ms ± 1%			
			SENSe (0.10 ms - 0.10 ms - 0.15 ms to 1.0 ms)			
		Allowable Load Impedance	0 kΩ - 12 kΩ			
		Current Measuring Accuracy	± 0.02 mA			
		Impedance Measuring Range	1 kΩ - 90 kΩ for target stimulation current > 0.5 mA			
		Impedance Measuring Accuracy	±10% / ± 20% for target stimulation current >1mA / <= 1mA			
		Sound Pressure Level	51 dB / 54 dB / 63 dB for stimulation / warning/ error			
		Weight	250g			
		Operational Environment	0-50°C, max 90% relative humidity, no condensation			
44	**Ambulatory Infusion Pump**	Reorder Numbers	21-6300 or similar	3	Units	
		Delivery Modes	Continuous, Demand Dose, Clinician Bolus Mode Settings Independent of Each Other			
		Delivery Routes	Intravenous, Intra-arterial, Subcutaneous, Intraperitoneal, Epidural, Intrathecal			
		Programming				
		Programming Units	ml, mg, mcg			
		Reservoir Volume	1 ml–9.999 ml or not in use			
		Drug Concentration	0.1-100 mg/ml, 1-500 mcg/ml			
		Continuous Rate	0-50 ml/hr, 0-5,000 mg/hr,			
		Intermittent Rate	0-25,000 mcg/hr†			
		KVO Rate	Demand Dose			
		Dose Volume	0-9.9 ml, 0-990 mg, 0-4,950 mcg†			
		Dose Duration	Clinician Bolus			
		Dose Cycle	0-20 ml, 0-2,000 mg, 0-10,000 mcg†			
		Dose Starts In	5 min-24 hr			
		Demand Dose Lockout				
		Demand Doses per Hour	0-9.999 ml (ml only)			
		Reporting				
		Reservoir Volume				
		Given (Volume Delivered)	0-99,999.95 ml			
		Dose Remaining	0-999 ml			
		Doses Given	0-999 ml			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Doses Attempted	0-999 ml			
		Accessories for CADD-Legacy® PCA Pumps Only	Reorder No. 21-6220 or similar			
		Remote Dose Cord	Reorder No. 21-6210 or similar			
		Polemount Bracket Adapter	Reorder No. 21-6212 or similar			
		Security Shell Adapter				
45	Incubator Standard			1	Unit	
		Incubator or incubator/warmer (combination unit)	Mobile			
		TEMPERATURE CONTROL				
		Air	13ºC-42ºC, +/- 0.8ºC			
		Measuring Range	20ºC-39ºC increment & regulation (0.1ºC) by Servo Control			
		Set Value Range	<28ºC and >37ºC (extendable with confirmation)			
		SKIN	13°C-43°C, +/- 0.9ºC			
		Measuring Range	34ºC-38ºC increment & regulation (0.1ºC) by Servo Control			
		Set Value Range	>37ºC (extendable with confirmation)			
		TEMPERATURE DISPLAY				
		Air, Display Type	Digital			
		Range, °C (°F)	13ºC-42ºC			
		Skin, Display Type	Digital			
		Range, °C (°F)	13ºC-43ºC			
			Display 2 baby skin on-air temperature settings: Main Skin, Peripheral skin			
		ALARMS				
		High Air Temp	yes			
		Low Air Temp	yes			
		High Skin Temp	yes			
		Low Skin Temp	yes			
		Fan Failure	yes			
		Sensor Failure	yes			
		Power Failure	yes			
		Backup Thermostat	yes			
		Heater Power Indicator				
		Hand Ports		6	pcs	
		Tubing Ports		11	pcs	
		O2 SOURCE				
		Inlet Ports	wall/tabung			
		Controllers	servo control			
		Measuring Principle	Electrochemical sensor (capillary)			
		Set Value Range	21 - 75% in 1% increments			
		Supplemental Humidity	>40% (extendable with confirmation)			
		Adjustable	yes,30-99% RH (increment & regulation 1%) with servo control			
		Measuring Principle	Capacitive			
		Measuring Range	10% RH - 99% RH			
		Set Value Range	30% RH - 99% RH in increment of 1%			
		Phototherapy	no			
		Scale	yes, digital numeric, store data & trend 7 days			
		Measuring Scale	0kg - 10kg			
		Resolution	1g			
		Internal Noise, dB	49 +/- 2 dBA			
		Line Power V AC	230V/240V			
		Battery	none			
		Double Wall	yes			
		Vertical Hood to Matress distance in cm	38cm			
		Size	(122-152) cm with Variable Height Adjusment (VHA) x 109 cm x 68 cm			
		Incubator with stand, H x W x D, cm (in)	64.5cm x 50cm			
		Mattress, W x D, cm (in)	22cm x 64cm			
		Hood access door, H x W , cm (in)	10cm with all friction break and 2 steering			
		Heater power:				
		Air heater	500 W			
		Water heater	140 W			
		Warm-up time	20 minutes from 20ºC to 31ºC (at 20ºC ambient temperature)			
		CO2 flush,	conforming ti IEC/EN 60601-2-19			
		Max. available CO2 Concentration in the Incubator	<0.5 Vol%			
		Micro Air Intake Filter	Removes > 99.9% of airborne particle greater than 0.3 micron diameter			
		Bed Tilting	Infinitely variable up tp 15º tilt angle on both sides (electric)			
			Autoclean mode for cleaning and sterilisation of the incubator			
			Kangaroo Mode			
			Double air curtain technology			
			Twin baby incubator with jumbo port			
			Setting air temperature with automatic humidity			
			Setting skin temperature with automatic humidity			
			Integrated X-Ray tray			
			All around access to patient in emergency			
			Open up canopy			
			No condensation with humidity setting up to 99%			
			Digital bed tilting			
			Variable Height Adjusment (VHA)			
			Simultaneous digital display all parameter monitoring with trend & store data up to 7 days:			
			* Air temprature			
			* Main skin baby			
			* Peripheral skin baby			
			* Percentage of oxygen in the incubator space			
			* Baby weight			
		Include Accessories	Free of charge accessories only			
46	Phototherapy	Air Temp. Display 0° C - 51° C	Touch screen LCD display enables monitoring of baby's skin temperature continously	1	Unit	
		Skin Temp. Display 0° C - 51° C	User friendly & easy operation single touch its easy to select control parameters			
		Noise Level	< 55 dBA			
		Screen	5.1 inches touch screen			
		Lamp Life Time	2,000 hours for Bilisphere 360			
		Lamp Type	Blue Light Fluorescent Tubes Bilisphere 360	16	pcs	
		Intensity	>60 uw/cm²/nm			
		Spectral Irradiance	420-480nm			
		IV Pole Weight Limit	2kg			
		Monitor Shelf Weight Limit	6kg			
		Supply Voltage	220 V			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		High Skin Temp. Alarm	+1°C			
		Low Skin Temp. Alarm +	+1°C			
		High Ambient Air Temperature	> 37°C			
		Low Ambient Air Temperature	< 28°C			
		Operating Temperature Range	+23°C to +28°C			
		Storage Temperature Range	-20°C to +50°C			
		Operating Humidity Range	5% to 99 RH, non-condensing			
		Storage Humidity Range	0% to 99 RH, non-condensing			
		Dimensions	63cm x 78cm x 140-159cm			
		Weight	approx. 71kg (Billisphere 360)			
		Hammock Mattress	58cm x 38cm			
47	**Nasal Bubble CPAP**	Input Flow Range	4 to 15 L/min	2	**Sets**	
		Recommended Input Flow	6 to 8 L/min			
		Set CPAP Pressure Range	3 to 10 cmH2O			
		Intended Patient Population	Premature neonates and infants up to 10kg			
		Operating Temperature Range	18 to 26°C			
		Storage Temperature Range	-10 to 50°C			
		Usage Period	Single patient use, for a maximum of 7 days			
		Maximum Pressure Limit	17 cmH2O @ 8 L/min			
		Oxygen Analyzer Port	22mm male or 15mm female			
		Pressure Monitoring Port	Female luer			
		Respiratory Humidifier	F&P MR850 or MR730 only (Invasive Mode)			
		Circuit Length BC 161	Inspiratory Tube (1.1m) Expiratory Tube (1.2m)			
		Circuit Length BC 151	Inspiratory Tube (1.4m) includes 300mm extension to connect to Hudson Prongs			
48	**Infant Warmer + Neo Puff (T-Piece Resuscitator)**	Baby Control CosyCot Infant Warmer :		2	**Units**	
		Provides optimal thermal care				
		Servo controlled temperature				
		Even heat distribution and not into the surrounding environment				
		Able to measure baby's temperature 10 times a second with the use of a dual sensor probe				
		Simple and easy-to-use with one-touch controls				
		Lightweight and mobile				
		Apgar Timer provides easy timing of Apgar scores or procedures				
		Procedure Timers to count down timing of clinical procedures				
		Integrated bassinet offers convenient when caring for the newborn				
		Bassinet can be tilted				
		Transport handle for easy maneuvring during transport				
		CosyGrip tube holder and CornerGrip tube holder to support breathing circuit and prevent occlusion				
		Sideguard can be fold down for full access to baby				
		Sensor Cover is with reflective and insulative properties to protect the skin				
		Sensor from the external sources of heat				
		Duosense skin sensor utilises 2 independent thermistors that are continuosly compared to ensure accuracy and safety in temperature control				
		Alarm set for high/low skin temperature, check baby, sensor disconnect, see manual, power fail, sensor failure				
		Electrical	Supply Voltage 230 ± 20 VAC			
		Supply Frequency	50/60 Hz			
		Irradiance	32m W/cm2 at 100% power at 68 cm (26.8)			
		Heater Grill to Mattress	68 cm			
		Temperature Range	Set temperature from 34.5°C to 37.5°C in 0.1°C steps			
			Display temperature from 4.0°C to 50.0°C.			
		Temperature Alarm	± 1°C from Set Temperature			
		Heater Rotation	-130° to +130° from center position			
		Baby Control Alarms	- Check Baby			
			- High/Low Temperature			
			- Sensor Disconnect			
			- See Manual			
			- Power Fail			
			- Sensor Failure			
		Height	Preset High Module 172			
		Width	77cm excluding shelves and accessories			
		Depth	Preset Height Module 103 or 108cm			
		Weight	Depends on bassinet size			
		Bassinet Size	Preset Weight Module 55kg excluding accessories			
		Bassinet Position	Standard : 65 x 65cm			
		Castors	-10° to +10° continuous tilt			
		Neopuff Module:	4 x Dual Wheel Locking Castors 10cm			
		Manometer Range	-10 to 80cm H2O (-2.0 to 7.8 kPa)			
		Maximum Pressure Relief	@ 8 LPM 5 to 70 cm H2O			
		Peak Inspiratory Pressure (PIP)	@ 8 LPM 4 to 73 cm H2O			
		Positive-end Expiratory	@ 8 LPM 1 to 9 cm H2O			
		Gas Inlet Flow Range	5 LPM (min) to 15 LPM (max)			
			if the gas inlet flow rate increase from			
			5 to 15 LPM, the peak inspiratory pressure			
			typically increases appx. 8cmH2O (0.8 kPa)			
		Delivered Oxygen Concentration	Up to 100% depending on gas supply			
		Operating Time (400 L cylinder)	@ 8 LPM 50 minutes			
		Storage Temperature Range	-10ºC to 50ºC, Up to 95% relative humidity			
		Operating Temperature Range	-18ºC to 50ºC, Up to 95% relative humidity			
		Standard Scope of Delivery:				
		Examination Light				
		Apgar Timer				
		DuoSense Skin Sensor				
		DaisyDot Sensor Cover (1 pack of 10)				
		Mattress				
		Bassinet				
			Side Shelf and Mounting Block			
			Storage Drawer System			
			Neopuff Infant Resuscitator Module			
			Test Lung			
			Single Use Resuscitation Kit (10 Set)			
			Neonatal Resuscitation Mask (5 sizes)			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
49	**Electric Breastpump**	Cycle Range	Stimulation 72 - 120 cycle/minutes	1	Unit	
			Express 30 - 60 cycle/minutes			
		Vacuum Range (mbar)	Stimulation 60 - 150 mbar			
			Express 30 - 3300 mbar			
		Connection	230V, 50/60 Hz			
		Dimensions	180mm x 302mm x 240mm			
		Weight	3kg			
		Guarantee	2 years in accordance with the general guarantee conditions			
		Additional (Optional)	Mobile Stand for Carum Electric Breast Pump			
		Consisting Of	Carum Breastpump			
			Main Cable			
			Container			
			Bottle Holder			
			Easy Freeze Holder			
			Instruction For Use			
		Optional	Trolley			
		Feature				
		Hospital Use				
		Fully Automatic Expressing				
		Vacuum and cycles are individually adjustable at any time, both in stimulation and expressing-mode				
		Total safety and hygiene thanks to "vacuum seal" technology				
		"Sensitive programme" in case of painful, inflamed nipples				
		Especially gentle and comfortable transition between modes				
		Double piston creates equal suction in both channels				
		No additional consumables need replacing in or on the pump				
		Ergonomic design makes the pump easy to clean				
		Generous colour display with intuitive menu-driven management				
50	**Infant Flow CPAP**	Simple Touch Screen Operation Facilitating easy Operation		1	Unit	
		Display of Pressure/Time Graphics and Alarm Setting				
		Clear Presentation of Data Patient				
		Improved Patient Triggering				
		Integrated Power Supply				
		Up to 2 hours Backup Battery Power				
		MODES				
		1. NCPAP, NCPAP Apnoe				
		2. Biphasic ,Biphasic Apnoe				
		3. Biphasic tr				
		CONTROLS	0 - 15 L/min			
		1. NCPAP / Press Low Flow meter	0 – 5 L/min			
		2. Press High Flow Meter	21 – 100%			
		3. %O2	0.1 – 3.0 sec			
		4. Inspiratory Time	1 – 120 bpm			
		5. Backup Rate	1 - 120 bpm			
		6. Rate	10 – 30 sec (in 5 second intervals)			
		7. Apnea Interval (T-apnea)				
		8. Manual Breath				
		MONITORED PARAMETERS	0 - 11 cmH2O			
		1. NCPAP	0 – 15 cmH2O**			
		2. MAP	0 – 15 cmH2O**			
		3. PIP	0 – 15 cmH2O**			
		4. PEEP				
		** Biphasic tr mode, otherwise 0 to 11 cm H2O	21 – 100%			
		5. %O2				
		Power supply				
		110 - 230 VAC : consumption 50 VA maximum				
		12 VDC (sealed lead acid Battery)				
		2 hours life with full charge				
		Dimension (driver only) approx.	26cm x 38cm x 23.5cm			
		Weight approx.	8.8kg			
51	**Oxygen Tube 15 Lt + Regulator**	Flow Meter Cap	0-15 LPM	8	Units	
		Gas Volume	1000L			
		Cylinder Material	34CrMo4			
		Cylinder Test Pressure	250 Kgf/cm3			
		Filling Pressure	150 Kgf/cm3			
		Weight of Cylinder	11kg			
		Trolley	Steel with castor			
		Also equipped with an oxygen hose, humidifier bottle and lid				
52	**Medical Weighing Scale**	Weighing Scale	Range : 0 - 150kg	4	Units	
			Resolution : 20 gr			
		Height Measuring	Range 85 - 210cm			
			Graduation : 1 mm			
		Dimension approx.	Approx. 48 W x 27 D x 105 H cm			
		Weight approx.	11kg			
53	**Cardiotocography**			1	Unit	
		Type	Twin + Maternal NIBP + Maternal SpO2			
		Physical Specifications				
		Display	Color TFT LCD			
		Display type	7" (15.41 cm x 8.86 cm)			
		Size	480 (H) x 234 (V) Pixels			
		Recorder, Type	150mm internal thermal array recorder			
		Print Speed	1 cm/min, 2cm/min, 3cm/min			
		Print Paper Standard	Z-fold: 5 stacks per box,150 perforated sheets per stack 150 mm x 100 mm x 150 pages			
		AC Power Parameter Specification	C 100 V - 240 V, 50Hz/60Hz			
		Mains Power Input	100VA			
		Power Input	T1.6AH 250V			
		Fuse				
		Physical	With battery and recorder 5.0kg			
		Net weight	7.2kg			
		Gross weight	without transducer holder 280 mm (w) x 340 mm (d) x 120 mm (h)			
		Dimensions Unit	Unit with transducer holder 300 mm (w) x 340 mm (d) x 120 mm (h)			
		Environment				
		Temperature - Operating	10ºC - 40ºC (50ºF - 104ºF)			
		Temperature - Storage and Transportation	-20ºC - 55ºC (-4ºF - 131ºF)			
		Relative Humidity - Operating	≤80% (non-condensing)			
		Relative Humidity - Storage and Transportation	≤95% (non-condensing)			
		Barometric Pressure - Operating	70 kPa - 106 kPa			
		Barometric pressure - storage and transportation	50 kPa - 106 kPa			
		Battery Power Parameter Specification	Lithium ion, 11.1 V/7200 mAh			
		Capacity	Approximately 8 hours			
		Charging time	At least 4 hours with continuous FHR and TOCO monitoring.			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Max. operating time	Automatic (with charge protection feature) when the monitor is powered by an AC power source			
		Charge mode	On battery power, the monitor powers off when the battery is depleted.			
		Discharge Protection	50 bpm - 240 bpm			
		Fetal Heart Rate	50 bpm - 210 bpm ±2 bpm			
		FHR Measurement and Alarm Range	211 bpm - 240 bpm ±4 bpm			
		FHR Accuracy	1 cm/min, 2 cm/min, 3 cm/min			
		Display Sweep Speed	1 MHz			
		Ultrasonic Frequency	< 1			
		Mechanical Index (MI)	< 1			
		Thermal Index (TI)	Prr < 1 MPa			
		Ultrasonic strength	<b* < 20 mW/cm2			
		Transducer Protective Grade	<spta8 < 100 mW/cm2			
		TOCO	IPX8, watertight to a depth of 1.0m for at least five hours			
		Range	0 - 100			
		Nonlinear Precision	±10%			
		Resolution	1			
		Transducer Protective Grade	Manual			
		NIBP				
		Measuring Parameter	SYS, DIA, MAP			
		Unit	mmHg or kPa			
		Work Mode	Manual, Auto, Stat			
		Cycle Period	1-10, 15, 30, 60, 90, 120, 240, 480 minutes			
		SYS Range	30 mmHg - 254 mmHg (4.0 kPa - 33.9 kPa)			
		DIA Range	10 mmHg - 220 mmHg (1.3 kPa - 29.3 kPa)			
		NIBP Accuracy	Max. Std. Deviation: 8 mmHg (1.1 kPa)			
		Cuff Pressure	Max. Mean Error : ±5 mmHg (±.7 kPa)			
		Initial Inflation Pressure	170 mmHg (22.6 kPa)			
		Subsequent Inflation				
		Measuring Time	Manual or Auto : 25 seconds			
		SpO2	Stat			
		SpO2 Measurement Range	0% - 100%			
		SpO2 Pulse Rate Range	30 bpm - 300 bpm			
		SpO2 PR Accuracy	±1 bpm or ±2%, whichever is greater			
		Wavelength Range	500 - 1000nm for all specified sensors			
		Max. Optical Output Power	15 mW for all specified sensors			
		Updating Time	Typically 1 second			
		PR Sound	PR tone			
		PR Display	Numeric			
		Display Sweep Speeds	12.5mm/s, 25mm/s, 50mm/s			
		Accessories				
		TOCO Transducer		1	pc	
		US Transducer		2	pcs	
		Thermal Paper		1	pc	
		Manual Event Marker		1	pc	
		Adult SpO2 Probe		1	pc	
		Adult NIBP Cuff/hose		1	pc	
54	USG 4D	**Physical Appearance**		1	Unit	
		Screen Display	23" LCD			
		Weight	147kg			
		USB Port	6			
		DVI D Out	yes			
		Probe Port	4			
		Keyboard	yes			
		Basic Software	yes			
		Raw Data	yes			
		M-Mode	yes			
		2D Mode	yes			
		Power Doppler	ATO/ASO			
		PW Doppler	yes			
		Optimization Tools	yes			
		Advance Software	yes			
		Volume Calculation II Vocal	yes			
		Advanced VCI-Volume	yes			
		Contrast Imaging	yes			
		STIC	yes			
		Sono AVC - Sono Automated	yes			
		Volume Count	yes			
		Elastography	yes			
		Anatomical M-Mode	yes			
		SonoVCAD Labor	yes			
		SW DVR	yes			
		HDlive	yes			
		Probes Included	yes			
		4D Trans Abdomen	yes			
		2D Trans Abdomen	optional			
		4D Transvaginal	yes			
		2D Linear	JPEG, BMP, TIFF			
		Connectivity	AVI, MP4			
		Image Format	yes			
		Video Format	yes			
		DICOM Format	optimal			
		LAN Ports				
		Workstation	yes, included			
		Peripherals	yes, included			
		B/W Printer Digital	yes, included			
		Color Printer	optimal			
		CD/DVD Writer	yes, included			
		Footswitch	yes			
		UPS 2KVA Online	yes			
55	Fetal Doppler	•Superior audio (stereo when used with a vascular probe)		1	Unit	
		•3 year warranty (3 years on main unit, 1 year probe & cable)				
		•High sensitivity 2 & 3 MHz obstetric probe options for optimum performance from early gestation through to labour and delivery				
		•Advanced auto-correlation fetal heart rate processing				
		•Advanced bi-directional unit with printout capability				
		•Utilises the full range of high sensitivity vascular probes				
		•Serial port for connection to the Dopplex Printa or Dopplex Reporter software package				
		•Ideal for measurement of ABPI and venous assessment in a clinic environment				
56	Vital Signs Monitor	Base with	NIBP, Recorder, SpO2	1	Unit	
		Built in Printer	yes			
		Built in Battery	yes			
		Roll Stand	optional			
		NIBP:				
		Cuff Pressure Range	0 to 290 mmHg (adult/pediatric)			
			0 to 145 mmHg (neonate)			
			120 s (adult/ped)			
		Max Determination	85 s (neonate)			
			30 to 290 mmHg (adult/ped)			
		Systolic	30 to 140 mmHg (neonate)			
			20 to 260 mmHg (adult/ped)			
		MAP	20 to 125 mmHg (neonate)			
			10 to 220 mmHg (adult/ped)			
		Diastolic	10 to 110 mmHg (neonate)			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		GE Trusignal SpO2				
		SpO2	1 to 100%			
		Pulse Rate	30 - 250 bpm			
		Accuracy	Adult :70 to 100% ±2 digits			
		Saturation	Neonate: 70 to 100% ±3 digits			
			(without motion)			
			Adult/Nenonate: 70 to 100% ±3 digits			
			(during clinical motion)			
			Adult/nenonate: 30 to 250 bpm: ±2 digits or ±2%,			
			whichever is greater, (without motion)			
		Pulse rate	Adult/ Nenonate: 30 to 250 bpm: ±5 digits			
			(during motion)			
		Battery	6 Volt, 3.3 amp-hours			
		Capacity	5 hours with NIBP every minutes, active SpO2 and temperature			
		Battery Life	11.5 hours with NIBP every 15 minutes, active temperature but non SpO2			
		Printer				
		Printer Type	Thermal dot array			
		Resolution	384 dots/inch horisontal			
		Mechanical Data	7.7 in (19.5 cm)			
		Dimension	8.6 in (21.9 cm) without temperature			
		Height	10.0 in (25.4 cm) with temperature			
		Width	5.3 in (13.5 cm)			
		Weight including battery	5.4 lb (2.4 kg) including battery			
		Composition :				
		Main Unit/Basic Unit with SpO2	1 unit			
		Airhose NIBP	1 pc			
		Cuff	1 pc			
		Printer Paper	1 roll			
		SpO2 Interface Cable	1 pc			
		Finger Sensor	1 pc			
57	**Infusion Pump**			3	Unit	
		W×H×D:	245 x 87 x174 (mm)			
		Net weight:	<2.5kg, Stackable			
		Classification:	Type CF, Defibrillation-proof, Class I			
		Display				
		Screen:	3.5" TFT color LCD, 16:9 format			
		Brightness:	1-8 levels adjustable, default is level 4			
			Delivery rate, current infusion, VTBI, total volume, IV set brand, pressure limit, battery capacity, drugs, remaining time, alarms			
		CPU Type	Dual-CPU			
		Infusion Sets	Automatic recognition of infusion set brands after calibration			
			Diameter Φ 3.5-4.5mm, Thickness 0.8-1.2mm			
			6 modes: Rate mode, Time mode, Body weight mode, Ramp up/down mode, Sequential mode, Micro-infusion mode			
		Basic Parameters	0.1-2000ml/h			
		Mode	0.01ml (0.1-99.99ml/h); 0.1ml (100-999.9ml/h); 1ml (1000-2000ml/h)			
		Flow rate	0.10-9999.99ml (increment 0.01ml)			
		Increment	00:00:01-99:59:59 (h:m:s) adjustable			
		Preset volume (VTBI)	0-9999.99 ml			
		Preset time	0.1-5.0ml/h adjustable, step 0.1ml/h, default is 1.0ml/h			
		Accumulated volume	0.10-2000ml/h			
		Accuracy	±5%			
		Bolus				
		Bolus rate:	Automatic/Manual Bolus: 0.1-2000ml/h, default is 800ml/h;			
		Preset bolus volume:	Preset automatic Bolus volume: 0.10-9999.99ml			
		Function spectrum	Automatic calculation of the delivery rate based on different modes			
			Infusion pause/standby: preset parameters remain stored			
			Drug library up to 2000 drugs, "ON" and "OFF" selectable; user-defined drug list available			
			History records up to 2000, data could be transmitted to PC and saved as EXCEL format to print out.			
			Titration function: change flow rate during infusion with increment 0.01ml/h			
			4 pressure unit: mmHg/kPa/bar/psi selectable, auto conver ted in different units, default is mmHg.			
		Safety system	12 levels selectable, 75-975 mmHg, default is 450 mmHg.			
		Occlusion pressure	"ON" and "OFF".			
			ON: 1-5min. selectable, step 1 min, default is "OFF"			
		Auto data lock	5 levels selectable: 50ul, 100ul, 250ul, 500ul, 800ul, default is 100ul;			
		Air detector	Single bubble or accumulated bubble volume in 15 min.			
		Anti-bolus	Automatic reduction of the bolus volume following pressure alarm			
		Alarm	Visual and acoustic alarms			
		Alarm type	High: occlusion, battery empty, VTBI done, syringe empty, syringe disengaged, KVO finish, system malfunction			
			Middle: Standby time expired, system abnormal			
			Low: Syringe near empty, Reminder, no battery, battery low, VTBI near done, AC Power Disconnection			
		Alarm volume	1-8 levels selectable, default is level 4			
		Pre-alarms	1-30min. before syringe is empty; 3 min. before battery is completed; 30 min. as low battery.			
		Reminder	"ON" and "OFF"			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
			ON: 1-5min. Selectable, steps 1 min.			
		Battery	Operating time > 9 hours @ 5ml/h			
			Recharging time ≤ 6 hours for 100% of the capacity			
		Interface	RS 232			
		Nurse call connector				
		DC adapter connector				
		Power supply	100-240V ~ , 50/60Hz, 0.53-0.28A ; DC Voltage:10V-16V, 2.25A-1.5A			
		Environmental requirement				
		Temperature	5～40ºC for operating, -20～60ºC for storage			
		Humidity:	15～95% for operating, 10～95% for storage			
		Air pressure:	57～106kPa for operating, 50～106kPa for storage			
		Water proof	IP22			
		Modes specifications	Rate: 0.1-2000ml/h			
		Flow rate mode	VTBI: 0.10-9999.99ml;			
			VTBI: 0.10-9999.99ml;			
		Time mode	Time: 00:00:01-99:59:59 (h:m:s)			
		Body weight mode	Weight: 0.1-300.0kg or 0.1-660.8lb, kg/lb selectable;			
			Drug-Amount: 0.1-999.9, g/mg/ug/ng/IU selectable, default is mg;			
			Weight: 0.1-300.0kg or 0.1-660.8lb, kg/lb selectable.			
			Volume: 0.10-9999.99ml;			
			Dose unit: mg,ug,ng,IU/kg/h; mg,ug,ng,IU/kg/min selectable, default is mg/kg/h;			
			VTBI: 0.10-9999.99ml;			
			Time: 00:00:01-99:59:59(h:m:s) (Auto. calculated)			
		Ramp up/down mode	VTBI: 0.10-9999.99ml; Time: 00:00:01-99:59:59 (h:m:s)			
		Sequential mode	VTBI: 0.10-9999.99ml; Time: 00:00:01-99:59:59(h:m:s)			
		Micro-infusion mode	VTBI: 0.10-1000.00ml; Rate: 0.1-100ml/h; Time: 00:00:01-99:59:59; Bolus rate: 0.1-100ml/h			
58	Syringe Pump					
		W×H×D:	295 x 87x 174 (mm)	3	Unit	
		Net weight:	<2.5kg, Stackable			
		Classification:	Type CF, Defibrillation-proof, Class I			
		Screen:	3.5" TFT color LCD, 16: 9 format			
		Brightness:	1-8 levels adjustable, default is level 4			
		Information:	Delivery rate, current infusion, VTBI, total volume, syringe size, syringe brand, pressure limit, battery capacity,drugs, remaining time, alarms			
		CPU type	Dual CPU			
		Syringe selection	5,10,20,30,50/60ml			
			Pre-configured 3 syringe brands, including BD, B.Braun, Terumo			
			User-defined syringe brands and size after calibration			
			Automatic recognition of syringe size			
		Basic parameters	6 modes: Rate mode, Time mode, Body weight mode, Ramp up/down mode, Sequential mode, Micro-infusion mode			
		Mode	5ml: 0.1-100ml/h, 10ml: 0.1-200ml/h, 20ml: 0.1-400ml/h, 30ml: 0.1-600ml/h, 50/60ml: 0.1-1500ml/h			
		Flow rate	0.01ml (0.1-99.99ml/h), 0.1ml (100-999.9ml/h), 1ml (1000-1500ml/h)			
		Increment	0.10-9999.99ml (increment 0.01ml)			
		Preset volume(VTBI)	00:00:01-99:59:59(h:m:s) adjustable			
		Preset time	0.01-9999.99ml (increment 0.01ml)			
		Accumulated volume	0.1-5.0ml/h adjustable, step 0.1ml/h, default is 1.0 ml/h			
		KVO	0.10-1500ml/h (depending on syringe size)			
		Purge	yes			
		Accuracy	±2%			
		Bolus	Automatic/Manual Bolus: 0.10-1500ml/h (depending on syringe size)			
		Bolus rate	Default Bouls rate: 5ml: 100 ml/h, 10ml: 200 ml/h, 20ml:400 ml/h, 30ml: 600 ml/h, 50/60ml: 800ml/h			
		Preset bolus volume	Preset automatic Bolus volume: 0.10-9999.99ml			
		Function spectrum	Automatic calculation of the delivery rate based on different modes			
			Infusion pause/standby: preset parameters remain stored			
			Drug library up to 2000 drugs," ON "and "OFF" selectable; user-defined drug list available			
			History records up to 2000, data could be transmitted to PC and saved as EXCEL format to print out.			
			Titration function: change flow rate during infusion with increment 0.01ml/h			
		Safety system	4 Pressure unit: mmHg/kPa/bar/psi selectable, auto convertion in different units, default is mmHg			
		Occlusion pressure:	11 levels occlusion pressure, 150-975 mmHg selectable, ±15% as accuracy, default is 450mmHg			
			"ON" and "OFF"			
		Auto data lock	ON: 1-5min. selectable, step 1 min, default is "OFF"			
			Automatic reduction of the bolus volume following pressure alarm			
		Anti-bolus	yes			
		Alarm	Visual and acoustic alarms			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Alarm type	High: occlusion, battery empty, VTBI done, syringe empty, syringe disengaged, KVO finish, system malfunction			
			Middle: Standby time expired, system abnormal			
			Low: syringe near empty, Reminder, no battery, battery low, VTBI near done, AC Power Disconnection			
			1-8 levels selectable, default is level 4			
		Alarm volume	1-30min. before syringe is empty; 3 min. before battery is completed; 30 min. as low battery.			
		Pre-alarms	ON and OFF.			
		Reminder	ON : 1-5min. Selectable, step 1 min.			
		Battery	Operating time > 10 hours @ 5ml/h			
			Recharging time ≤ 6 hours for 100% of the capacity			
		Interface	RS 232			
			Nurse call connector			
			DC adapter connector			
		Power supply	100-240V ~ , 50/60Hz, 0.53-0.28A ; DC Voltage:10V-16V, 2.25A-1.5A			
		Environmental requirement	Temperature 5～40ºC for operating, -20～60ºC for storage			
			Humidity 15～95% for operating, 10～95% for storage			
			Air Pressure 57～106kPa for operating, 50～106kPa for storage			
			IP23			
			VTBI: 0.10-9999.99ml; Rate: 5ml: 0.1-100ml/h; 10ml: 0.1-200ml/h; 20ml:0.1-400ml/h;			
		Flow rate mode	30ml: 0.1-600ml/h; 50/60ml: 0.1-1500ml/h			
		Time mode	VTBI: 0.10-9999.99ml; Time: 00:00:01-99:59:59 (h:m:s)			
		Body weight mode	Weight: 0.1-300.0kg or 0.1-660.8lb, kg/lb selectable, Drug-Amount: 0.1-999.9, g/mg/ug/ng/IU selectable, default is mg;			
			Volume: 0.10-9999.99ml;			
			Dose: 0.01-999.99; Dose unit: mg, ug, ng, IU/kg/h; mg, ug, ng, IU/kg/min selectable, default is mg/kg/h;			
			VTBI: 0.10-9999.99ml; Time: 00:00:01-99:59:59(h:m:s) (Auto. calculated)			
			VTBI: 0.10-9999.99ml; Time: 00:00:01-99:59:59 (h:m:s)			
		Ramp up/down mode	VTBI: 0.10-9999.99ml; Time: 00:00:01-99:59:59(h:m:s)			
		Sequential mode	VTBI: 0.10-1000.00ml; Rate: 0.1-100ml/h; Time: 00:00:01-99:59:59; Bolus rate: 0.1-100ml/h			
		Micro-infusion mode	yes			
59	**Binocular Light Microscope**	Observation	Bioncular head	1	Unit	
		Wide Field	WF10X - 18 mm			
		Nosepiece	Quadruple Nosepiece			
		DIN	4X / 0.10			
		Achromatic	10X / 0.25			
		Objectives	40XR 0.65			
			100XR (oil) / 1.25			
		Stage	Build-in mechanical stage			
			Size 132 mm x 145 mm			
		Condenser	N.A 1.25 abbe condenser with iris diaphragm & filter holder			
		Illumination	Halogen bulb 20 W / 6V			
			Adjustable intensity			
		Focusing Systems	University Power 85V-265V			
			Coaxical focusing system			
60	**Centrifuge Eppendorf**	* Max rcf	3,000 x g	1	Unit	
		* Max rpm	100-4,400			
		* Max capacity	4 x 85 ml or 30 x 15 ml			
		* Acceleration time to max. Rpm	< 25 s			
		* Braking time from max. Rpm	< 25 s			
		* SOFT brake function	Yes			
		* Timer	0-99 min. with hold mode			
		* Noise level with rotor	< 51 dB (A)			
		* Power supply	230/ 50-60 Hz			
		* Power requirement	max. 200 W			
		* Dimension (W x D x H)	32 X 40 X 24 cm			
		* Weight	20 kg			
		* CE & IVD Conform	Yes			
		* Warranty	2 Years			
		Include				
		* Rotor Swing	4 x 85 ml, Swing-bucket rotor A-4-38, incl. 4 x 85 ml round buckets			
		--> Max rcf	2,850 x g			
		--> Max rpm	4,400			
		* Adapter	2.6-7 ml (Vacum Tube), Adapter for 85 ml round bucket for use with standard, Vacu- tainer & Falcon tubes 2.6-7ml 2 pcs.			
		* Holes	16			
61	**Rotator Widal**	Overall Dimension (LxDxH)	: 29 x 32 X 19.5 cm	1	Unit	
		Platform	: 20x29 cm			
		Power Supply	: 220 VCD, 50/60 Hz			
		Variable Speed	: from 70-230 RPM			
		Orbital Motion	: 8/16"horizontal"			
		Built-in Timers	: up to 15 minutes			
62	**Serological Centrifuge**	Power Supply/Frequency	220-240/50-60Hz	1	Unit	
		Consumption	185 VA			
		Radio Interference	EN 61326 class B			
		Max.Speed, RPM Unit	6000 Min -1			
		Max.Speed, RCF Unit	4146			
		Running Time	1 Sec-99 min :59 sec			
		Dimension approx.	326x389x 242			
		Weight approx.	11 Kg			
		Swing out rotor 12 Place with 70°	1 Unit			
		angle : (RPM 50.000 min. RCF 2.879				
		Cap. 12x75 mm				
		1. Imbalance switch-off				
		2. emergency release-lock				
		3. Program memory (4 Memory)				
63	**ID-INCUBATOR 37 S II**	(w/ h/ d) : 36 cm / 21 cm / 42 cm Weight: 9 kg Power requirements: 110-240 V / 50-60 Hz		1	Unit	
		for the incubation of ID-Cards at 37°C				

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		capacity: 1 ID-Centrifuge head (6 or 12 or 24 ID-Cards) or 3 ID-Card racks (36 ID-Cards)				
		monitored by microprocessor				
		standard programme: 15 minutes at 37°C (± 2°C)				
		Individual timers for 3 separate batches				
		incubation time programmable (1-99 minutes)				
		time and temperature are displayed (LCD)				
		EC conformity:				
		EWG 89/336 (EMC)/EWG 73/23 (Low tension)				
		EN 61010-1 (general electrical appliances)/IEC 1010-2-010 (Heating of lab. material)				
		Exterior dimensions (W x D x H)	800 x 832 x 1810 (mm) / 31.5 x 32.8 x 71.3 (inch)			
64	**Blood Bank Refrigerator**	Interior dimensions (W x D x H)	640 x 550 x 1240 (mm) / 25.2 x 21.7 x 48.8 (inch)	1	Unit	
		Net weight	185kg			
		Effective capacity	425 liters [15.0 cu.ft.]			
		Storage capacity	120 bags (450mℓ), with MBR-56B			
		Exterior cabinet	Galvanised steel with baked-on finish			
		Interior cabinet	Stainless steel			
		Cabinet insulation	Foamed-in-place rigid polyurethane			
		Outer door	Triple layer glass windows			
		Door lock	1			
		Inner door (acrylic)	5			
		Shelves	5 coated hard steel wire shelves			
		Casters	4			
		Compressor	160W hermetically sealed			
		Refrigerant	HFC			
		Temperature	4˚C ±1˚C (Ambient temperature 35˚C)			
		Air circulation	Forced air circulation			
		Defrost	Fully automatic			
		Temperature control	Microprocessor			
		Temperature alarm	High (6˚C), Low (2˚C), Audible and visual alarm			
		Power failure alarm	Audible and visual alarm (9 hours), Automatic rechargable battely (Ni-Cd)			
		Door alarm	Visual alarm			
		Remote alarm contact	DC24V 1A			
			Temperature alarm or power failure alarm			
		Lighting	15W fluorescent lamp			
		Access port	1			
		Accessories	30-day recorder, Door lock key 1 set			
		Options	Recording paper (RP-06-PW)			
			Basket (MBR-55B-PW) Max.20pcs/unit			
			220ml bags x 10pcs/basket			
			Basket (MBR-56B-PW) Max.20pcs/unit			
			450ml bags x 6pcs/basket			
		Alarm and Safety Functions	Audible and flashing LED visual alarms with remote alarm contacts, in case of power failure, high or low temperature condition, or any thermal sensor abnormality			
			Door alarm and key lock are standard features			
			Re-activating buzzer, lamp and remote alarm contact. (30 min. after buzzer stops)			
			Built-in temperature recorder			
			Panasonic refrigerators feature commercially-available HCFC-free, HFC refrigerants and HCFC-free insulation			
		Environmentally Friendly				
65	**Sealing Machine, Electric**	Type	Sealing Machine	1	Unit	
		Packaging type	Case			
		Driven type	Electric			
		Dimension (L*W*H): approx.	340*180*170 mm			
		Diameter of tube	Dia.3-6mm			
		External size (W*D*H) mm: approx.	340*180*170mm			
		Voltage	AC110V/220V+-10%, 50/60 Hz			
		Weight approx.	9 kg			
		sealing time	0.5-2S			
		Power supply	AC110V/220V+-10%, 50/6			
		Automatic grade	Automatic			
		Power source	100-240V-250W			
		Net/gross weight: approx.	9kg/10kg			
66	**Micropipette 25µl**	Volume, µl	25 µl	1	Unit	
		Test Volume	± 0.5 %			
		Inaccuracy	± 0.3 %			
		Dimension (HxWxD) cm: approx.	± 28 cm x 8 cm x 4 cm			
		WEIGHT, kg approx.	50 g			
67	**Micropipette 50µl**	Volume, µl	50 µl	1	Unit	
		Test Volume	± 0.5 %			
		Inaccuracy	± 0.3 %			
		Dimension (HxWxD) cm: approx.	± 28 cm x 8 cm x 4 cm			
		WEIGHT, kg approx.	50 g			
68	**Micropipette 100µl**	Volume, µl	100 µl	1	Unit	
		Test Volume	± 0.5 %			
		Inaccuracy	± 0.3 %			
		Dimension (HxWxD) cm: approx.	± 28 cm x 8 cm x 4 cm			
		WEIGHT, kg approx.	50 gram			
69	**Micropipette 5µl**	Volume, µl	5 µl	1	Unit	
		Test Volume	± 1.3 %			
		Inaccuracy	± 1.5 %			
		Dimension (HxWxD) cm: approx.	± 28 cm x 8 cm x 4 cm			
		WEIGHT, kg approx.	50 gram			
70	**Micropipette 500µl**	Volume, µl	500 µl	1	Unit	
		Test Volume	± 0.3 %			
		Inaccuracy	± 0.2 %			
		Dimension (HxWxD) cm: approx.	± 28 cm x 8 cm x 4 cm			
		WEIGHT, kg approx.	50 gram			
71	**Serological Rotator**	Platform dimension	280x280mm	1	Unit	
		Speed	20-240rpm			
		Time mode	Continuous mode / Timed mode (99 hours 59 minutes digital timer)			
		Display	Digital display for present speed value and the remaining time			
		Orbital diameter	20mm			
		Load capacity	2.0kg at the speed of 20-150rpm;			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
			1.0kg at speed of 151-240rpm			
		Accessory	1 pc of spring			
		Weight approx	4.2 / 5.0kg			
		Overall diameter	W280xD295xH140mm			
		Power supply	AC 220V 50/60Hz			
72	**Reagent Refrigerator (Glass Door)**	220V, 50Hz/60Hz		1	Unit	
		Effective capacity	340 liters			
		Net weight	100 kg (220 lbs.)			
		External cabinet	Galvanised steel with baked-on finish			
		Internal cabinet	Stainless steel			
		Insulation	Polyurethane foam			
		Doors	Sliding glass doors, double-glazing glass with heat-reflective film			
		Shelves	Hard steel wire			
		Access port	30mm ø on back wall			
		Lighting / Casters	LED/2 casters			
		Compressor	Hermetic type,160 W			
		Refrigerant	HFC			
		Evaporator	Fin & Tube, Forced-air circulation			
		Condenser	Wire & Tube			
		Defrosting	Cyclical defrosting & evaporator temp. detection system			
		Defrosting heaters	101 W			
		Temperature control	2˚C to 14˚C			
		Temperature display	Digital (1˚C increments)			
		High/Low temperature alarm system	±2˚C to ±14˚C from temperature setting value			
		Door ajar alarm	Buzzer / door ajar lamp			
		Options	Temperature recorder: fixed			
			Battery mounting box			
			Interface board			
			DAQ system			
73	**Autoclave**			1	Unit	
		Type	Vertical			
		Dimensions approx.	600 mm x 1090 mm x 450 mm			
		Net weight	72 kg			
		Electrical	2900 watt, 13 A, 230 V			
		Chamber size	300 mm x 710 mm			
		Chamber capacity	50 liter			
		Water consumption / cycle	1000 - 1200 cc			
		Fill water system	Manual			
		Heater	2300 watt			
		Dry heater	600 watt			
		Control system	Mechanical Engineering			
		Sterilization temperature	118 - 134 °C			
		Sterilization time	0 - 60 minutes			
		Dry time	0 - 60 minutes			
		Display	Pressure and Temperature Gauge			
		Indicator	Progress, Power, Temperature, Pressure			
		Protection	Overheat, Pressure Overload, Emergency Button			
74	**Anaerobic Chamber/Biosafety Cabinet Anaerob**			1	Unit	
		Nominal Size	1.8 meters			
		External Dimensions (W x D x H) approx.	2275 x 850 x 2250 mm			
		Internal Work Area, Dimensions (W x D x H) approx.	1950 x 560 x 650 mm			
		Internal Work Area, Space	1.09 m2			
		Number of Gloves Ports	4 ports			
		Initial Airflow Volume	902 m3/h			
		Pre-Filter	Disposable and non-washable polyester fibers with 85% arrestance / EU3 rated			
		ULPA Filter Typical Efficiency (Downflow, 1st Exhaust, 2nd Exhaust)	Typical: 99.999% at 0.1 to 0.3 µm and MPPS			
		Sound NSF 49	<56 dBA			
		(Typical)* EN 12469	<53 dBA			
		Fluorescent Light Intensity At Zero Ambient	>2000 Lux (>186 foot candles)			
		Cabinet Construction				
		Main Body	1.5 mm 16 gauge electro-galvanized steel with white oven-baked epoxy-polyester Isocide antimicrobial powder coated finish			
		Work Zone	1.2 mm 18 gauge stainless steel, type 304, with 4B finish			
		Electrical	220-240V, AC, 50Hz, 1Ph			
		Cabinet Full Load Amps (FLA)	3A			
		Optional Outlets FLA	5A			
		Cabinet Nominal Power	455 W			
		Cabinet BTU	1553			
		Electrical				
		220-240V, AC, 60Hz, 1Ph				
		Cabinet Full Load Amps (FLA)	11.5 A			
		Optional Outlets FLA	5A			
		Cabinet Nominal Power	620.5 W			
		Cabinet BTU	2117			
		Net Weight	676 kg (1487 lbs)			
		Shipping Weight	720 kg / 1587 lbs			
		Shipping Dimensions, Maximum (W x D x H) approx.	2600 x 2150 x 1320 mm			
		Shipping Volume, Maximum	7.39 m³			
75	**IHC Staining Automatic Machine**			1	Unit	
		- Processing module dimensions (h × w × d):	703 mm × 760 mm × 775 mm;			
		- Weight (dry):	120 kg			
		- Processing temperature:	Ambient to 100 °C			
		- Slide capacity:	3 independent trays of 10 slides, 30 slide total capacity			
		- Reagent container capacity:	7 mL or 30 mL			
		- Number of reagent containers:	36 (4 trays of 9)			
		- Dispense volumes:	100 µL or 150 µL			
		- Modularity:	up to five processing modules per host computer			
		- waste disposal:	separation of hazardous and non-hazardous waste			
		- System mounting:	bench mounted or free standing			
		- Database:	full tracking and reporting of all slides			
		- Other specifications: 2	CE-IVD marked, UL Listed, IEC 61010-1 classifications: Protectiveclass 1, Pollution			
		Features :				
		- Standardized Fully-automated (plug, play, walk away), include: auto deparafinization, antigen retrieval (65°C), staining, and on-board mixing.				
		- IHC and ISH run simultaneously				
		- Open/close system (could be modified for time incubation, parallel and independent tray (different program each slide-1 tray, 10 slides, different program)				
		- Variable time capability				

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		- Choice of solutions				
		- Open antibodies				
		- Slide and reagent Barcoded System by Character Recognition				
		- Robot for bulk fluid dispensing (XY then Z) provide stained slides to pathologists more quickly (up to 50% FASTER).				
		- Adjustable dispensing reagents, 100 or 150µl for antibodies				
		- Three independent trays of 10 slides each allow continuous parallel processing.				
		- Independent slide temperature control (ambient to 100°C for recovery: immuno at 37°C)				
		- Space for 36 reagents on four trays (4X9) provides the flexibility to perform IHC and ISH with multiple detection systems at the same time.				
		- Heating and cooling capability				
		- Designed to optimize Lean Histology workflows, Bond-Max increases uptime and reduces waste, while also providing LIS connectivity, eliminating the need for data entry.				
		- High-capacity containers require less reagent and waste management, and can be filled without removal from the instrument.				
		- Waste separation (2L for hazardous, 5L for non-hazardous)				
		- Real-time fluid status allows more efficient reagent management.				
		- Science is preoptimized for Bond to ensure consistently High-quality staining.				
		- Standardized reagents for IHC and/or ISH-- IHC (CE-IVD label, RTU reagent).				
		Included :				
		- Handheld ID scanner				
		The handheld ID scanner is attached to the computer, and is used to register reagents. The handheld ID scanner should be installed and operational when your Bond system is installed.				
		The handheld ID scanner may be connected to either a serial or USB port on the host computer				
		- Slide Labelier				
		The Bond system provides a unique slide identifier for every slide.				
		The slide labeller is used to print these unique identifiers onto slide labels, which are then put onto the slides. When the slides are loaded into the processing module the Bond software captures an image of the slide labels to identify the position of each slide.				
		The slide labeller is connected to the computer via a parallel port, and will have been installed and tested when your Bond system was installed.				
		- Personal Computer				
76	Fume Hood			1	Unit	
		Electricity				
		Power	220-240V			
		Frequency	50-60 Hz			
		Power Consumption	approx. 122W			
		Lighting	2 x 18 Watt			
		Dimensions				
		Useful dimensions	approx. 823D x 600W x 660H (mm)			
		Overall dimensions	approx. 750D x 885W x 1118H (mm)			
		Exhaust duct (ø)	approx. 200 mm			
		Working aperture	approx. 200 mm			
		Max front aperture	approx. 455 mm			
		Weight (approx)	approx. 85 kg			
		Construction				
		Head section	Epoxy coated Zinc Plated Steel			
		Base section	Anodized alumunium			
		Spill tray	PVC acid and solvent resistant			
		FAN MOTOR	Centrifugal IP54			
		Filter				
		Type	A/C Filter (2 ea), Primary use for organic odors,			
			hydrocarbons, aromatic solvents, animal odors			
			excrements, urines, acid odors, cadaverine, and putrescine			
		Pre-filter (particulate)	1 ea			
		Filter Weight	approx. 18 - 28.8 kg			
		Airflow				
		Volume/air treated	400 m3/hr			
		Average face speed	>0.6 m/sec			
		Visual and auditory alarms	For max/min velocity, pre-filter clogging, filter			
			saturation, anemometer failure, gas detector failure,			
			motor fan failure			
		Features	Power on/off, light on/off, Microprocessor			
			monitoring system checking airflow, pre-filter and			
			filter efficiency, Variable speed air regulation			
		Complete with	Supporting table			
77	Freezer -20°C			2	Units	
		Dimensions (mm) P X L X T:	2250 X 820 X 880 mm			
		Volume (l):	1050 Liter			
		Watt:	480 W			
		Voltage:	220V / 1P			
		Frozen Capacity Kg / 24 Hours :	67 Kg / Hour			
		Safety Capacity / Kg:	520 Kg			
		Weight / Kg:	115 Kg			
		Features :				
		Interior Lights Led				
		Digital Thermometer				
		Key + Wheel				
		Easy Open Doors (Anti Vacuum)				
		Basket				
		Fan Compressor				
		Drainage Hole				
78	Freezer -80°C	Temperature Range	-50°C to -86°C	1	Unit	
		Exterior Dimensions HxWxD cm	197.9 x 91.2 x 83.6			
		Interior Dimensions HxWxD cm	130.8 x 58.7 x 49.3			
		Capacity	368.1 liters			
		Refrigeration	Two 1 HP (2545 BTUH each)			

NO.	Item	Specification		QTY		Statement of Compliance (Bidder's Offered Item & Specification)
		Insulation	Non CFC, foamed-in-place urethane: 12.7cm cabinet: (11.4 cm) door			
		Electrical - nominal voltage ±10%	230VAC, 50 Hz, 12.0 FLA Operating Range: 208VAC-240VAC			
		Breaker Requirements	15 Amp, Dedicated Circuit, 15 Amp Time Delay Breaker			
		Shipping Weight	323kg			
		Features:				
		State-of-the-art refrigeration system with rugged construction				
		Eye-level, easy-to-use microprocessor control panel				
		Five interior compartment doors to reduce cold air loss and improve temperature recovery after door closings				
		Vacuum relief port permits easy access after door openings				