

सहद प्रेम ढकाल स्मृति आधारभूत अस्पतालई आवश्यक medical and surgical सामग्रीहरु			
क्र.स.	नाम	परिमाण	कैफियत
1	Adult height board		
2	child height board		
3	pan scale		
4	Adult weight machine		
5	bed sheet		
6	bed mattress		
7	pillow with cover		
8	wrapper		
9	eye towel		
10	dopler machine		
11	Niddle cutter		
12	vein finder		
13	oxygen meter		
14	oxygen cylinder H		
15	oxygen cylinder E		
16	Rubber tourniquate		
17	Lead Apron 0.5mm		
18	yankar suction		
19	suction tube 6,8,10,12,14		
20	PMO line		
21	3 way Canulla		
22	Ventury mask		
23	Reservior mask		
24	Surgical apron		
25	Steel Tray medium size		
26	Plaster cutter machine		
27	thermometer (microlife)		
28	plastic tray for medication in ward		
29	IV stand		
30	Patient blanket		
31	infusion pump		
32	syringe pump		
33	Fluid warmer		
34	Medicine Trolley		
35	Stretcher		
36	Information board/notice board		
37	Supplies Rack		
38	crush cart		
39	ECG machine (12 Leads)		
40	Foot / Electric Suction Machine		
41	Different size mask		
42	Spinal backboard		
43	hospital attendant chair bed		
44	Refrigerator		
45	Vaginal speculum (Sims)		
46	Receptacle for soiled linens		
47	Dressing trolley		

प्रमुख प्रशासकीय अधिकारी

48	Laryngoscope with blade and batteries		
49	Self-inflating bag air mask adult, child, neonate size		
50	Steel drum medium and large		
51	Cheatle Forceps with jar		
52	ear irrigation syringe (metal) Set		
53	Patient tool		
54	Foot Steps		
55	Curtain separator		
56	Sphygmomanometer pediatric		
57	Jerk hammer		
58	X-Ray View Box		
59	Measuring tape		
60	Tuning fork		
61	pulse oximeter		
62	otoscope set		
63	corcodile forceps		
64	blunt hook or Rt ankle proke for foreign body remove		
65	Portable lamp with stand		
66	usg machine		
67	Bed side locker for ward		
68	Defibrillator		
69	Monitor		
70	Daraz for store		
71	Foller Bed		
72	CLIA Machine(Immunoassay analyzer		
73	incubater		
74	HBAIC MACHINE		

प्रमुख प्रशासकीय अधिकृत

S.N.	Purchaser's Specifications		Bidder Compliance Sheet		
	Fluorescence Immunoassay Analyzer (FIA)		Yes/ No	Page no in Catalogue	Remarks
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
1.1	Fluorescence immunoassay (FIA) is a point-of-care or laboratory diagnostic instrument that detects and quantitatively measures specific analytes such as proteins, hormones, cardiac markers, infectious disease antigens/antibodies, or drugs) in biological samples typically whole blood, serum, plasma, using fluorescence-labeled immunoassay technology.				
2	Operational Requirements				
2.1	The analyzer shall be used for in-vitro diagnostic quantitative and semi-quantitative measurement of clinical biomarkers suitable for Emergency Departments, Hospital laboratory, Intensive care units, Point-of-care settings.				
3	System Configuration				
3.1	FIA Unit with Accessories.				
4	Technical Specifications				
4.1	Test Principle : FIA				
4.2	Display : Minimum 5" touch Screen				
4.3	Sample Type :Whole Blood, Plasma, Serum, or Nasopharyngeal swab				
4.4	User friendly				
4.5	The system shall be a single-channel fluorescence immunoassay analyzer capable of performing efficient single tests at a time effectively				
4.6	Printer: In built Thermal printer				
4.7	Test Parameter : Tumor Marker : AFP, CEA, PSA, CA 125 Thyroid : T3, T4, fT4, TSH and TSH plus Infection: PCT, PCT plus, HBsAg, Anti-HBs, Anti-HCV, ROTA, NORO, Rota/Adeno, Dengue NS1 Ag, Dengue IgG/IgM, CRP Covid 19 : COVID-19 Ag, COVID-19/Flu Ag Combo, COVID-19 Ab, Cardiac Marker : CK-MB, D-Dimer, NT-proBNP, Myoglobin, TN-I Plus, D-Dimer, Hormones: AMH, β -hCG, LH/plus, FSH/plus, Progesterone, Testosterone, Cortisol Diabetes: HbA1c, Microalbumin, AutoImmune: Free Anti-Infliximab, Anti-CCP Others : Ferritin, Vitamin D, Anti-CCP plus, etc				
4.8	It should have RFID /ID Chip reading system in machine and Bar code in Test strip.				

4.9	Built-in thermal printer for immediate result printing.			
5	Accessories, spares and consumables			
5.1	Accessories:			
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.			
6	Operating Environment			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 100 - 240V AC, 50-60Hz fitted with appropriate plug.			
7	Standards and Safety Requirements			
7.1	Must submit ISO 13485 Quality Standards for Medical Devices Documents .			
7.2	Must submit CE and USFDA (510K) compliance certificate.			
8	Installation and Commissioning & User Training			
8.1	Supplier must accomplish proper installation and commissioning of the equipment onsite.			
8.2	Must provide user training (including how to use and maintain the equipment)			
9	Warranty & Maintenance Service During Warranty Period			
9.1	Comprehensive warranty for 2 year after acceptance.			
9.2	During warranty period supplier must ensure preventive maintenance and corrective/breakdown maintenance whenever required			
10	Documentation			
10.1	User (Operating) manual in English			

Technical specification of Ice lined refrigerator

S.N.	Purchaser's Specifications	Bidder's offer
	Ice lined refrigerator	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	Description of Function	
1.1	Ice lined refrigerator for vaccine storage for storing vaccine for efficient use	
2	System Configuration	
2.1	Complete set of Ice lined refrigerator for vaccine storage or any other applications	
3	Technical Specifications	
3.1	Storage capacity of at least 150 liters	
3.2	Number of baskets of at least 6 baskets	
3.3	Maintains precise cooling at +2to +8 degree centigrade for vaccine storage	
3.4	Maintains temperature for more than 24 hours even without power	
3.5	WHO PQS pre qualified standard	
3.6	Thick insulation minimizes thermal shock and allows faster recoup during usage	
3.7	Fitted with door locks	
4	Accessories, Spare Parts and Consumables	
4.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, are to be included in the offer.	
5	Operating Environment	
5.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, humidity, etc.	
6	Easy to use	
7	Safety and Standards	
7.1	Must be ISO certified	
7.2	Must be CE or USFDA certified	
8	Warranty	
8.1	Should provide comprehensive warranty of 2 years	
9	Maintenance Service During Warranty Period	
9.1	During warranty period supplier must ensure preventive maintenance & corrective/ breakdown whenever required	
10	Installation & Commissioning	
10.1	Ready to use	

11	Documentation	
11.1	User (Operating) manual in English	

Infusion Pump				
S.N.	Hospital's purpose specification	Bidder's Compliance Sheet		
Infusion Pump		Yes/No	Pg No	Remarks
Name of Bidder:				
Manufacturer:				
Brand:				
Type / Model:				
Country of Origin				
1	Description of function			
1.1	The infusion pump provides accurate and continuous flow rate for precise delivery of i.V. Medication in critical medical care.			
2	Operational requirements			
2.1	The infusion pump must be user friendly, safe to use and must have battery backup and comprehensive alarm system.			
3	System configuration			
3.1	Microprocessor based infusion pump with battery backup, alarm system and with complete accessories.			
4	Technical specifications			
4.1	The unit should be operated on drip rate linear peristaltic pump method.			
4.2	The unit should be compatible for most of the iv sets locally available.			
4.3	The unit should have led/lcd display.			
4.4	The unit should have infusion mode including: rate mode, drip mode, time mode, weight mode etc or more.			
4.5	The unit adjustment parameters should as fellows:			
4.5.1	Infusion volume range: 0.1 – 9999 Ml or more			
4.5.2	Infusion rate: min 1200 ml/hr or more			
4.5.3	Infusion accuracy: $\pm 5\%$ or better			
4.5.4	Kvo rate: 1 –10 ml/hr or more			
4.5.5	Volume to be infused (vtbi) setting from 0.1- 9990ml.			
4.5.6	Drug library needed			
4.5.7	Easy to operate			
4.6	The unit should have rechargeable battery type and battery life: min. 5 Hrs at normal delivery rate.			
4.7	User friendly			

4.8	The unit should have anti-bolus system to reduce pressure on sudden release of occlusion.			
4.9	The unit should have facility of audible and visual alarm for use battery, ac fail, door open, occlusion, almost done, near empty, drip abnormal, no operation, infusion completion, air bubble, low battery.			
4.10	The unit should nurse call function			
4.11	The unit should display drug volume to be infused, drug infused and drug amount remaining to be infused.			
5	Accessories, spares and consumables			
5.1	The unit should with all standard accessories, consumables and parts required to operate the equipment, including all standard tools included in the offer.			
6	Operating environment			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include power supply, climate, temperature, humidity, etc.			
6.2	Power supply: 220 – 240 vac, 50hz fitted with appropriate plug. The power cable must be at least 3 metre in length.			
7	Standards and safety requirements			
7.1	The unit must be have ISO:13485 for medical devices and must be CE or USFDA approved			
8	User training			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			
9.1	Comprehensive warranty for 1 years after installation.			

Syringe Pump				
S.N.	Hospital's purpose specification	Bidder's Compliance Sheet		
		Yes/No	Pg No	Remarks
Syringe Pump				
Name of Bidder:				
Manufacturer:				
Brand:				
Type / Model:				
Country of Origin:				
1	Description of function			
1.1	The syringe infusion pump provides uniform flow of fluid by precisely driving the plunger of a syringe down its barrel. It provides accurate and continuous flow rate for precise delivery of i.V. Medication in critical medical care.			
2	Operational requirements			
2.1	The syringe pump must be programmable, open system, user friendly, safe to use and must have battery backup and comprehensive alarm system			
3	System configuration			
3.1	Syringe infusion pump with battery backup alarm and with complete standard accessories.			
4	Technical specifications			
4.1	Shall have at least Led/lcd display with backlight.			
4.2	Should be standard vertical pole mounting type			
4.3	The unit should have syringe mode including: rate mode, time mode, weight mode etc or more			
4.4	The unit adjustment parameters should as follows:			
4.4.1	Flow rate: 0.1-1500 ml/h or better			
4.4.2	Bolus rate: 1-1500 ml/h or better			
4.4.3	Kvo rate: off function and 0.1- 10.0 ml/hr or better			
4.4.4	Volume to be infused (vtbi): 0.1-9990 ml or better.			
4.4.5	Infusion accuracy: ±2			
4.4.6	Syringe size: 10, 20, 30, 50/60 ml.			
4.4.7	Drug library needed			
4.4.8	Easy to operate			
4.6	The unit should have rechargeable battery type and battery life: minimum 5 hour during normal using.			

4.7	The unit should be compatible with locally available syringes.			
4.8	The unit should have facility of audible and visual alarm for syringe disengaged, occlusion, infusion near empty, infusion completion, no operation, ac fail, low battery etc.			
5	Accessories, spares and consumables			
5.1	The unit should with all standard accessories, consumables and parts required to operate the equipment, including all standard tools included in the offer.			
6	Operating environment			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include power supply, climate, temperature, humidity, etc.			
6.2	Power supply: 220 – 240 vac, 50hz fitted with appropriate plug. The power cable must be at least 3 metre in length.			
7	Standards and safety requirements			
7.1	The unit should have ISO:13485 for medical devices.			
7.2	The unit should be CE or USFDA approved			
8	User training			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			
9.1	Comprehensive warranty for 1 years after installation.			

Technical Specification for Patient Monitor (5 parameter)

S.N.	Purchaser's Specification	Bidder's Compliance Sheet		
		Compliance Yes/No	Deviation (if any)	Corresponding page no. of data sheet/catalogue in the support of specification
	Patient Monitor (5 parameter)			
	Name of Bidder:			
	Manufacturer:			
	Brand:			
	Type / Model:			
1.	Description of Function			
1.1	Advance high end monitoring vital signs of all patient categories, at bedside, transportation applicable for Adult, Pediatric and Neonatal application.			
2.	Operational Requirements			
2.1	It shall operate on AC power supply as well as built-in battery.			
3.	System Configuration			
3.1	Should have ECG, SpO2, NIBP, Respiration and Temperature measurement function.			
4	Technical Specifications			
4.1	Advanced High-end ICU Monitor for Adult, Pediatric and neonatal application			
4.2	At least 12" high resolutions LCD/LED Touch display with navigation wheel.			
4.3	Should have facility to display ECG, SpO2, NIBP, Respiration and temperature simultaneously.			
4.4	Monitor must have Lithium-ion Battery and must have more than 3-hour battery backup.			
5	Measurements			
5.1	ECG			
5.2	NIBP			
5.3	SPO2			
5.4	RESP			
5.5	TEMP			
5.6	Automatic switch to batteries in case of power failure.			
6	Accessories, spares and consumables			

6.1	Accessories: All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.			
7.0	Operating Environment			
7.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country specific place. The conditions include Power Supply, Climate, Temperature, Humidity, Altitude etc.			
7.2	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug.			
8	Standards and Safety Requirements			
8.1	Must submit ISO 13485:2003/AC:2007 for medical devices AND			
8.2	CE (93/42 EEC Directives) and USFDA approved product certificate.			
8.3	Must Submit IEC 60601-1 Medical electrical equipment part 1-6 general requirements for safety test report.			
9.0	User Training			
9.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly .			
10.0	Warranty			
10.1	Comprehensive warranty for 1 years after acceptance.			
11.0	Maintenance Service During Warranty Period			
11.1	During the warranty period supplier must ensure corrective/ breakdown maintenance whenever required.			
12.0	Installation and Commissioning			
12.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the			
	purchaser in advance, in detail.			
13	Documentation			
13.1	Operator's manual in english			

Technical Specification of Defibrillator				
S.N.	Purchaser's Specification	Compliance (Yes/No)	Deviation (if any)	Page no. of Ref Document
	Defibrillator (with Monitor)			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country Of Origin:			
1	Description of Function			
1.1	Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.			
2	Operational Requirements			
2.1	Used in emergency & critical care departments to meets various resuscitation and monitoring needs.			
3	System Configuration			
3.1	Defibrillator must be Biphasic, light weight and latest model with complete standard accessories.			
4	Technical Specifications			
4.1	Shall have both AED (automated external defibrillator) and Manual capabilities.			
4.3	The defibrillation shock is delivered using biphasic waveform which delivers a lower range of energy shocks ranging from 2 to 260 joules. For internal defibrillation, the energy is limited to 50 joules.			
4.4	Shock delivery can be via hands-free multifunction defibrillator electrode pads or paddles.			
4.5	Able to perform synchronized cardioversion and non-invasive pacing therapy.			
4.6	The AED must be able to start analysis automatically or prompt the operator to press "start analysis			
4.7	When not in the analyze mode, the AED must provide both audible and visual indication of the presence of, or a change to a potentially shockable rhythm.			
4.8	Can be used for paediatric and adult defibrillation.			
4.9	Easy to use			
4.1	Shall have an electrode contact-quality indicator to minimize the risk of ineffective defibrillation.			

4.11	Shall have 3-lead ECG monitoring capability.			
4.1 2	User Friendly			
4.1 3	Shall have capability to download ECG data to a PC-based data management program.			
4.1 6	Shall have rechargeable battery back-up facility.			
4.1 7	Shall have integral thermal printer			
4.1 9	Control Panel			
	a. Control panel shall have a high-resolution LCD with bright back-light display.			
	b. Audio and visual alarms shall be provided.			
	c. Audible indication shall be available during AED mode.			
	d. Must be able to display ECG, HR indicator, battery status, shock indicator.			
	e. HR limit and shockable rhythms alarms shall be provided.			
4.2	Energy dischargeable buttons shall be provided on the unit.			
4.2 1	Must have an electrode contact-quality indicator to minimize the risk of ineffective defibrillation.			
5	Accessories, spares and consumables			
5.1	Disposable self-adhesive defibrillator pads for adults, paediatric with cable and connector - 5 sets each.			
5.2	3 wire ECG cable (lead II) - 1 set for ECG monitoring.			
5.3	Disposable ECG electrodes - 5 pcs.			
5.4	Thermal paper - 5 rolls/sets.			

5.5	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
6	Operating Environment			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Must work on 220-240V/ 50 Hz AC Single phases fitted with appropriate plugs and sockets. The mains cable minimum 3 meter long.			
7	Standards and Safety Requirements			
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND			
7.2	Must submit EU-CE certificate including other related documents from notified body with notifying body number OR must submit USFDA 510(k) approved product certificate.			
8	User Training			
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.			
9	Warranty			
9.1	Comprehensive warranty for 2 years after acceptance.			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) along with corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	Documentation			
12.1	User manual			

Fully Automatic Immunoassay Analyzer (CLIA)

S.N.	Purchaser's Specifications	Bidder's Remarks
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	Fully Automated Random access immunoassay analyzer to perform analysis of immune assays (Thyroid Profile, Fertility Hormone, Tumor marker, Cardiac marker, Anemia Panel, Infectious Disease, Bone Metabolism, and Drug monitoring) from whole blood, serum and plasma.	
2	Operational Requirements	
2.1	Chemiluminescence Fully Automated Analyzer.	
2.2	Desktop design; a dedicated workbench.	
2.3	Must be capable of performing immunoassay tests from serum, plasma and whole blood.	
3	System Configuration	
3.1	Fully Automatic Chemiluminescence Immunoassay analyzer with complete set of accessories and reagent panel.	
4	Technical Specifications	
4.1	Should be fully automated immunodiagnostics based on Acridinium Ester "Chemiluminescence" technology	
4.2	Should Have Throughput of At least 200 tests/hour.	
4.3	20 reagent positions, 24-hour refrigeration, reagent tray temperature maintained at 2°C-10°C. Magnetic beads Should automatically mixed in a non-contact manner to avoid precipitation.	
4.4	Reagent Should be automatically loaded via barcode scanning or manually and also should monitor reagent levels, and provide an alarm for low levels.	
4.5	Should have at least 50 sample position with at least 10 emergency position.	
4.6	Sample Tube: Original blood collection tubes,cups	
4.7	Sampling System: TEFLON coated steel needles, Sample integrity control , Liquid level detection and clotting, Air suction detection, Vertical anti-collision design	
4.8	Precision of sample loading: $CV \leq 2\%$.	
4.9	Sample volume: 5-150 μ l	
4.10	Should have minimum 70 Different test parameters available.	

4.11	Sample Tube: Original blood collection tubes,cups	
	Precision of sample loading: $CV \leq 2\%$.	
	Sample volume: 5-150 μ l or better	
	Sample Tube: Original blood collection tubes,cups	

5	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).	
6	Operating Environment	
6.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220 - 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meter in length.	
7	Standards and Safety Requirements	
7.1	This unit shall be certified to ISO 13485:2003/AC: 2007. AND	
7.2	CE-IVDR certificate or USFDA	
8	User Training	
8.1	Must provide user training (including how to use and maintain the equipment).	
9	Warranty	
9.1	Comprehensive warranty for 1 years from acceptance.	
10	Maintenance Service During Warranty Period	
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.	
12	Documentation	
12.1	User (Operating) manual in English	
12.2	Service (Technical / Maintenance) manual in English	
12.3	List of important spare parts and accessories with their part number and costing.	
12.4	Certificate of calibration and inspection from factory.	

Technical Specification Color Doppler Ultrasound Machine

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
		Yes/No	Deviation (if any)	Corresponding page no. of datasheet/ catalog in the support of specification
	Name of Bidder:			
	Manufacturer:			
	Brand:			
	Type/Model:			
	Country of Origin:			
1	Description of Functions			
1.1	A fully digital Color Doppler ultrasound DICOM compatible imaging system for Radiology, OB/Gyn, vascular, Cardiac, small parts applications.			
2	Operational Requirements			
2.1	It shall operate on mains AC power supply.			
3	System Configurations			
3.1	Digital color Doppler ultrasound machine, 1 unit			
3.2	System shall have a Broadband convex probe of at least 1.0-6.0MHz or better			
3.3	System shall have a Broadband Linear probe of at least 3.0-13.5MHz or better			
3.4	System shall have a Broadband Phased Array probe 1.0-5.0 MHz or better			
3.5	B/W Video Thermal printer of latest model, 1 unit.			
4	Technical Specifications			
4.1	System shall have a at least 23"-inch-high resolution color monitor			
4.2	System shall have a at least 12-inch touch screen control panel for ease of use during examinations.			
4.3	System should have a minimum of 4 active probe/transducer connectors which can be all activated with electronic switching and fully inter-changeable.			
4.4	The system should have inbuilt SSD of at least 500 SSD,			
4.5	System must be a window 10 based operating system or better.			
4.6	System shall support customizable function shortcut keys of at least ≥ 10 keys, programmable for specific functions such as measurement settings, examination modes, features, reports, storage, printer, etc.			
4.7	System should support 3D/4D volume imaging, capable of capturing volumetric data quickly.			
4.8	System shall support voice annotation; support a voice note of up to 60 seconds that can be added to a frozen image.			

4.9	System should be capable of scanning up to 38cm or more.			
4.10	System should have an acquisition frame rate in 2D of at least 2000 frames/second and 100 frames/sec or more in color mode.			
4.11	System processing channels must be 10,00,000 or more.			
4.12	System should have a high dynamic range of at least 280dB.			
4.13	Modes of Operation: B, 2B, 4B, M, B/M, CFM, B/C, PWD, CPA, DPA, B+CFM, B+CPA, B+DPA, B+PW, B+CFM+PW, B+CPA+PW			
4.14	System's TGC shall support both 8-segment physical TGC and 8-segment digital LGC.			
4.15	System shall support One-key B-mode activation; in freeze status, pressing the B-mode key directly returns to scanning mode, improving operational efficiency.			
4.16	It should be suitable for whole body scanning including abdomen, obs/gyn, cardiac, small parts and vascular applications in adults and pediatric patients.			
4.17	Minimum grey scale resolution to be 256.			
4.18	System should have advance function with a single key which can be able to adjust 2D resolution and auto Doppler adjustment without manipulating baseline, scale etc.			
4.19	System should allow user to insert annotation with user definable initial position and with anatomical markers.			
4.20	System should have min. 4 no. of focus and 5 steps of frequency that can be selectable for different application preset.			
4.21	Auto trace and automatic Doppler calculations should be available in live and frozen images.			
4.22	It should have High resolution blood flow imaging which provides high spatial resolution and temporal resolution and color blood flow image, minute vessels visualization and slow flow detection.			
4.23	System should have advance Needle visualization technique.			
4.24	System should have Anatomical M-mode features of at least 51 lines.			
4.25	The system should be able to support broadband convex, linear, transvaginal/ Endo cavity probe, phased array cardiac probes, micro convex probes and 4D probes.			
4.26	PRF should be at least 18KHz.			
4.27	Special Imaging Features: Tissue Harmonic Imaging, Trapezoid Imaging on linear Probe Advanced cardiac package with Continuous wave Doppler, Steering up to 20 degrees independent of B Mode/PW on linear probe.			

4.28	System must have Full screen zoom and adaptive color doppler.			
4.29	System must have DICOM facility.			
5	Accessories, Spare Parts and Consumables			
5.1	Accessories: B/W Thermal USG Printer- 1Pcs			
5.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
6	Operating Environment			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 – 240 VACS, 50Hz fitted with appropriate plug.			
6.4	The offered model must be manufactured in the year 2026. Bidder must mention the year of manufacture.			
7	Standards & Safety Requirements			
7.1	Must Submit ISO 13485:2003/AC: 2007 AND			
7.2	Must Submit CE (93/42 EEC Directives) and USFDA (510k) approved product certificate.			
7.3	Must Submit Electrical Safety IEC 60601-1 part 1 for general requirements for basic safety and essential performance.			
7.4	Must Submit Electrical Safety IEC 60601-1-2 part 1-2 for general requirements for basic safety and essential performance.			
8	User Training			
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use of all operational functions of the equipment, as well as routine checks and maintenance expected by users.			
9	Warranty			
9.1	Comprehensive warranty for 2 years after acceptance.			
9.2	Manufacturer shall commit the availability of spare parts and consumables and accessories for at least 10 years.			
10	Maintenance Service During Warranty Period			
10.1	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			

11.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	Documentation			
12.1	Must submit original catalogue and product data Sheet confirming the specification along with the tender.			
12.2	User (Operating) manual in English.			

Technical Specification of Emergency crash cart

S.N.	Purchaser's Specifications		Bidder's Compliance Sheet		
			Yes /No	Ref Dos Page No.	Remarks
	Emergency crash cart				
	Manufacturer				
	Brand				
	Type / Model				
	Country of Origin				
1	Description of Function				
1.1	Emergency trolley or (Emergency Crash Cart) is a set of trays/drawers/shelves on wheels used in hospitals for transportation and dispensing of emergency medication/equipment at site of medical/surgical emergency for life support protocols potentially to save a patient's life.				
2	Operational Requirements				
2.1	Stainless steel trolley on stainless steel tubular frame.				
3	System Configuration				
3.1	Emergency trolley (Emergency Crash Cart) with removable coloured bins, storage units, fitted with oxygen cylinder holder and electric lamp holder and four swivels castors.				
4	Technical Specifications				
4.1	Dimensions: approx. 960mm L x 500mm W x 1545mm H.				
4.2	Stainless steel top and shelf & equipped with 4 - 6 removable colored bins made of molded plastic or stainless steel.				
4.3	Lockable storage units at least 2 drawers (stainless steel or molded plastic). Wood or wood laminate construction drawers are NOT acceptable.				
4.4	To be fitted with stainless steel, height adjustable, twin hook/loop, IV pole assembly.				
4.5	Fully, 360 deg. swivel castors/wheels, size 125mm dia with at least one castor/wheel to have locking/brake mechanism.				
4.6	Top shelf to have stainless steel guard rail approx.35mm above surface.				
4.7	Fitted with epoxy powder coated oxygen cylinder holder.				
4.8	Must be capable of carrying ECG Monitor/defibrillator and a suction apparatus.				
5.0	Accessories, spares and consumables				
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).				
6.0	Operating Environment				
6.1	The product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's				

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	country. The conditions include Climate, Temperature, Humidity, etc.			
7.0	Standards and Safety Requirements			
7.1	Must submit ISO, CE or USFDA approved product certificate.			
8.0	User Training			
8.1	Not applicable			
9.0	Warranty			
9.1	Comprehensive warranty for 2 years.			
10.0	Maintenance Service During Warranty Period			
10.1	Standard warranty conditions are applicable.			
11.0	Installation and Commissioning			
11.1	Must supply preassembled unit, ready to use.			

Technical Specification of ECG Machine, Portable (12 Channel)

S.N.	Purchaser's Specification	Bidder's Compliance Sheet		
		Yes/No	Ref Doc Page No	Remarks
	ECG Machine, 12 Channel			
	Manufacturer:			
	Brand:			
	Type of Model:			
	Country of Origin:			
1	Description of Function			
1.1	Microprocessor-based 12-channel digital electrocardiograph capable of simultaneous acquisition, interpretation, storage and printing of 12-lead ECG signals with advanced ECG analysis software.			
2	Operational Requirements			
2.1	Portable digital ECG machine must be able to acquire all 12 Leads simultaneously (12 channel System).			
3	System Configurations			
3.1	Portable digital ECG Machine with complete accessories.			
4	Technical Specifications			
4.1	System must acquire simultaneous 12-lead ECG signals (I, II, III, aVR, aVL, aVF, V1-V6).			
4.2	System must support Cabrera lead format, Nehb lead and Vectorcardiography (VCG) display mode.			
4.3	Lead-off detection with visual and audible alarm.			
4.4	System must have Integrated 8-inch TFT color touch screen display			
4.5	Self-test is performed each time the device is switched on.			
4.6	System should have inbuilt physical alphanumeric QWERTY keyboard.			
4.7				
4.8	The system must continuously check on the quality of electrodes connection, audio visual alert on loss of signal.			
4.9	The ECG system must be protected for operation during defibrillation.			
4.10	The ECG machine shall be equipped with built-in high-resolution thermal printer.			
4.11	The printer shall use thermal paper for standard ECG printouts.			
4.12	The system shall support selectable recording speeds of 5, 6.25, 10, 12.5, 25, and 50 mm/s.			
4.13	The printer shall provide multiple print formats, including 3×4, 3×4+1R, 6×2, and 12×1 ECG report formats.			
4.14	Machine Should have print preview option before taking print out.			
4.15	The system shall provide arrhythmia detection and heart rate variability (HRV) analysis.			
4.16	ECG measurement parameters shall include PR interval, QRS duration, QT/QTc interval, and P-QRS-T axis.			
4.17	System should have facility to detect pacemaker.			
4.18	Inbuilt rechargeable battery with battery backup of more than 3 hours of continuous working.			
5	Accessories, Spares and Consumables			
5.1	Accessories:			

	• Patient cable – 1 no. • Reusable chest electrodes, suction ball-type-6nos • Extremity clamp electrodes, re-usable-4nos. • Box of Z-fold having dimension 210mm x 140mm x 140p- 1 Pkt • Bottles of electrode gel, approximately 350ml-1 nos. • Rechargeable battery pack-1no. • Earthing Cable			
5.2	Power Supply: 220-240V AC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.			
6	Standard and safety Requirements			
6.1	Must submit EN ISO 13485 for Medical Devices.			
6.2	Must submit European CE from notified body and USFDA (510K) approved product certificate.			
6.3	Must submit IEC 60601-1: Part 1 for general requirements for basic safety and essential performance.			
6.4	Must submit IEC 60601-1-2: Part 2 for general requirements for basic safety and essential performance.			
7	User Training			
7.1	Must provide user training (including how to use and maintain the equipment).			
8	Warranty			
8.1	Comprehensive warranty for 1 years after acceptance and must provide replacement guarantee letter for one years.			
9	Maintenance Service During Warranty Period			
9.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
10	Installation and Commissioning			
10.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel, any prerequisites for installation to be communicated to the purchaser in advance, in details			
11	Documentation			
11.1	Must submit user (Operating/Maintenance) Manual in English.			

Technical Specification of Electric O. T. Table

S.N.	Purchaser's Specifications	Bidder's Offer		
		Yes /No	Page no in Catalogue	Remarks
	O.T. Table			
	Manufacturer:			
	Brand:			
	Type / Model:			
	Country of Origin:			
1	Description of Function			
1.1	Electric O.T. Table is suitable for conducting surgical discipline			
2	Operational Requirements			
2.1	For Conducting surgical discipline examination.			
3	System Configuration			
3.1	Electric O.T. Table with complete accessories.			
4	Technical Specifications			
4.1	The main construction of the base & the column cover of the Operating Table consists of the stainless steel.			
4.2	Patient weight capacity: >250kg on the table centre,			
4.3	Table Length 2100±100mm (Approx.)			
4.4	Table Width 580±20mm (Approx.)			
4.5	Table Height Adjustment mm: (620-1100) mm approx..			
4.6	Motorized Trendelenburg tilt and motorized lateral tilt shall be +/- 15 degree			
4.7	Motorized longitudinal travel available (250-350 mm)			
4.8	Motorized lateral travel shall be 100 – 160 mm			
4.10	Movement of the table shall be controlled by the actuators to achieve smooth and without any jerks			
4.11	The electric system of the table shall be maintenance free virtually silence, waterproof, shockproof, demands no force to operate and operate with greater strength and smoother operation			
4.12	Table shall be mounted on castors wheels with break			
4.13	Table shall come with 5—7 cm mattress			
5	Accessories, spares and consumables			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity			

	of every item included in their offer (including items not specified above).			
6	Operating Environment			
6.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 110 – 240 VAC, 50/60Hz fitted with appropriate plug. The power cable must be at least 3 metre in length			
7	Standards and Safety Requirements			
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND			
7.2	CE or USFDA approved product certificate.			
8	User Training			
8.1	Must provide user training (including how to use and maintain the equipment).			
9	Warranty			
9.1	Comprehensive warranty for 2 years from acceptance.			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	Documentation			
12.1	User (Operating) manual in English			

Incubator

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	Incubator	Yes/No	Ref Doc Page No	Remarks
	Manufacturer			
	Brand:			
	Type/Model			
	Country of Origin			
1	Description of Function			
1.1	Incubator is a closed chamber which heats a sample at a pre-set temperature for long term for applications like culture growth etc.			
2	Operational Requirements			
2.1	Electrically operated temperature controlled incubator.			
3	System Configuration			
3.1	Microprocessor based digital incubator, complete unit with all standard accessories.			
4	Technical Specifications			
4.1	Easy to clean, interior made of stainless steel, with supports on the three sides for two adjustable perforated stainless steel shelves.			
4.2	Fitted with load indicator and mains indicator.			
4.3	Temperature Variation +/- 1 °C.			
4.4	Temperature Range- ambient to 70 °C.			
5	Accessories, spares and consumables			
5.1	All standard accessories/consumables/parts required for the proper operation of the above item shall be included in the offer. Bidders shall specify, in a separate Excel worksheet, the quantity and details of any items included in this offer which have not been specified in this Technical Specifications Form.			
6	Operating Environment			
6.1	The system offered must be designed to store and be operated normally under the condition of the purchaser's Country. The conditions include Power supply, Climate, temperature and relative humidity.			
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plugs. The power cable must be at least 3 metres long.			
7	Standards and Safety Requirements			
7.1	Must submit ISO 9001 or ISO 13485:2003/AC: 2007 AND			
7.2	CE or USFDA approved product certificate.			
8	User Training			
8.1	User training must be provided onsite			
9	Warranty			
9.1	Comprehensive warranty for 1 year after acceptance.			
10	Maintenance Service During Warranty Period			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
11.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for			

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	installation to be communicated to the purchaser in advance, in detail.			
12	Documentation			
12.1	User (Operating) manual in English.			