

Technical Specifications

Note: Bidders must state in the Statement of Compliance either “*Comply*” or “*Not Comply*” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Unless otherwise categorically stated hereunder, evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent.

A. General Specifications

No.	General Specifications	Statement of Compliance
1	Supply, Delivery, Testing and Commissioning of Brand New 15 Units of Multi-Parameter Patient Monitor	

Detailed Technical Specifications

ITEM NO.	ITEM	SPECIFICATIONS	STATEMENT OF COMPLIANCE
1	Supply, Delivery, Testing and Commissioning of Brand New 15 Units of Multi-Parameter Patient Monitor	Technical Specifications	
		A. Display Monitor	
		a) At least 12 inches size	
		b) Color TFT touch screen	
		c) Capable of displaying 4 to 6 waveforms	
		B. ECG/Cardiac Monitoring	
		a) ECG waveform display (at least 3 waveforms; Lead I, lead II, Lead III) and with corresponding beep sound on each QRS waveform.	
		b) Heart rate display	
		c) With Arrhythmia Analysis, ST Calculation and Pace Analysis	
		d) Lead selection switch	
		e) Sensitivity switch: 2.5 to 2.0 mm/mv	
		f) Filter switch for interference from:	
		Mains power frequency	
		Low and high pass signal	
		g) Common Mode Rejection (CMR): more than +100dB	
		h) ECG signal measurement range: -2mV to +2mV	
		i) Frequency range: At least 0.67 to 150Hz or wider range	
		j) Input impedance: 2.5 MΩ at 10Hz	

		k) Frequency response: -3db at 0.5Hz to 100Hz	
		l) Automatic internal data storing for at least 40 ECG records	
		m) ECG leads connector for at least 3-lead patient cable (protection from interference)	
		n) Patient cable with at least 3 leads and with electrical screening	
		o) ECG recorder/printer capable of printing at least 4 waveforms simultaneously, Arrhythmia Analysis, ST Calculation and Pace Analysis and heart rate, etc.	
		C. Pulse Oximeter	
		a) Hinge finger probe or rubber finger probe and ear sensors for adult, pediatric and infant use. The connection of the probes to the main unit must have locking mechanism.	
		b) Oxygen saturation (SpO ₂): 70 up to 99% with minimum graduation of 1%.	
		c) Pulse rate in beats per minute (bpm). Pulse rate range at least 30 to 240 bpm, with minimum graduation of 1 bpm.	
		d) Pulse waveform or indicator that illustrates the strength of pulse being detected.	
		e) SpO ₂ limit alarm activation settings	
		f) Pulse rate limit alarm activation settings	
		g) Alarm sound level adjustment and alarm override and temporary silence control.	
		a. Accuracy of SpO ₂ measurement: ±3%	
		h) Accuracy of pulse rate measurement: ±5 bpm	
		D. Temperature Measurement	
		a) Digital Thermometer	
		b) Body temperature measured at degrees Celsius with measurement range of 32-43°C	
		c) Measurement accuracy: +/- 0.1°C between 35°C to 41°C	

		E. Non-Invasive Blood Measure Monitor (oscilolometric method)	
		a) Inflatable rubber cuff surrounded by durable and flexible cover with Velcro strips	
		b) Rubber tubes eith atleast 30cm in length	
		c) Systolic and diastolic blood pressure measurement with a maximum pressure reading of 300mmHg	
		d) Reading accuracy: ± 5 mmHg or better	
		e) Measures blood pressure atleast every 10 minutes	
		F. Respiratory Monitoring	
		a) Thoracic impedance measurements via ECG leads	
		b) Breaths per minute with measurement range of 0-120 BPM	
		c) Respiratory waveform display	
		d) Measurement accuracy: ± 3 BPM or better	
		G. Safety Features	
		a) Protection against defibrillation and electrosurgical equipment	
		b) Equipment compatible with patients with pacemakers	
		c) Degree of protection against electrical shock: Type CF	
		d) Alarms (the equipment must have an alarm setting switch and sound adjustment switch)	
		i. Arrhythmia	
		ii. Ventricular fibrillation	
		iii. Tachycardia	

		iv. Bradycardia	
		v. Electrode and/or sensor disconnection	
		vi. High and low SpO ₂	
		vii. High and low pulse rate	
		viii. Sensor failure	
		ix. Apnea Alarm	
		x. Low battery	
		H. Power Supply	
		a) Autovolt at 100-240V AC, 60Hz or 220V, 60Hz with an external Automatic Voltage Regulator (AVR) atleast 1 KVA capacity	
		b) With internal re-chargeable backup battery that can allow the equipment to operate up to 3 hours	
		I. Mobility	
		Mounted on a pole stand aor cabinet cart with 4 anti-static and rust-free swivel wheels with two locking brakes cart with brakes.	
		J. Accessories	
		a) Protective case	
		b) Two (2) sets of ECG electrodes	
		K. Non-removable embossed DOH - EAMC letters on the visible part of the equipment	
		L. IF CENTRAL MONITORING IS REQUIRED BY THE PROCURING ENTITY	
		a) The Patient Monitor must have a provision for telemetry data transmission for central monitoring	
		b) Central Station Monitoring System	

		i. Display Monitor: Color LED touch screen with resolution of atleast 1920 x 1080 pixels and at least 32 inch size	
		ii. Data reception must be through telemetry	
		iii. With licensed Operating System software	
		iv. Capable of receiving and displaying data simultaneously from at least 16 patient monitors	
		v. Capable of trend review per patient	
		vi. Capable of alarm history review	
		vii. Capable of freezing data for further review and analysis	
		viii. Capable of graphic and tabular data trend presentation	
		ix. CPU: at least 2 processors with minimum of 4 cores and 4 threads, minimum of 2.6 GHz	
		x. RAM: atleast 16GB	
		xi. Video Card: atleast 4GB video RAM	
		xii. Hard drive/storage: atleast 2TB	
		xiii. USB ports	
		xiv. Licensed Operating System (OS)	
		xv. 220V, 60Hz	
		xvi. Accessories: Keyboard, mouse, external speaker, Automatic Voltage Regulator, laser printer	
		Documentary Requirements	
		1. Certificate of availability of stocks and can deliver within the prescribed delivery schedule.	
		2. Product brochure or technical data sheet(s) of the equipment showing the technical specifications in English language.	

		3. Valid and current Certificate of Compliance of manufacturer of the equipment with the latest version of ISO 13485: Quality Management System - Requirements for regulatory purposes in the name of the manufacturer. The certificates must be issued by an independent Certifying Body/Agency.	
		4. Valid and current Certificate of Compliance and/or Test Report on the latest version of IEC 60601-2-27 Particular requirements for the basic safety and essential performance of electrocardiographic Monitoring equipment. The Certificate and/or Test Report must be issued by an independent Certifying Body/Agency.	
		5. Valid Marketing Authorization, Registration Approval or Free Sale Certificate for each equipment issued by the Health Authority in the country of origin.	
		6. Valid Certificate of Distributorship (as first Tier Distributor) issued by the Manufacturer of each equipment authorizing the bidder to sell/distribute the offered equipment.	
		7. List and address of the equipment Manufacturer's branch office, sales office and/or distributor's office in Western Europe, USA (or Canada) of Japan.	
		8. Proof (Such as sales invoice) that the Brand of the equipment has been sold to other health facilities in the Philippines.	
		9. Notarized Certificate from the bidder:	
		a) That the brand of the equipment has been in the local and/or international market for at least ten (10) years.	
		b) That the equipment and its accessories are brand new, unused, not discontinued models and were not subjected to any product recall.	
		10. Bidder's valid and current License to Operate (LTO) as a medical device distributor issued by the Philippine Food and Drug Administration. In case of expired LTO, the following must be submitted: i) Copy of expired LTO, ii) Application for renewal, iii) Official Receipt as proof of payment for the renewal of LTO.	
		Requirements if awarded the Contract	
		1. Delivery and Completion Schedule: Ten (10) working days with no extension upon receipt of approved NOA and NTP. Failure to comply with the delivery schedule shall mean forfeiture of the contract.	
		2. Testing: Prior to acceptance, the COVID Task Force, End user, HBAC shall conduct a physical inspection and functionality test. The equipment	

		must be functioning and must have no physical damage and defect.	
		3. Training: The supplier shall provide a training on the proper use and maintenance of the equipment to the end-users and to the hospital maintenance staff.	
		4. Warranty: Warranty certificate for One (1) year on parts and on services. The supplier shall either repair or replace any item or part in the equipment that is found to be defective in material or in workmanship under normal use. The warranty period shall commence from the date of acceptance by the end-user after testing and commissioning.	
		5. Notarized undertaking that the supplier shall conduct the necessary corrective maintenance within five (5) calendar days upon notification of equipment breakdown from the end-user. The undertaking shall include a statement that the number of days where the equipment is unusable due to defective material or workmanship, shall be added to warranty period.	
		6. Manuals: The supplier must provide Manual in English Language (2 hard copies and 1 soft copy of Operator's/User's Manual and 2 hard copies and 1 soft copy of Service/Technical and Maintenance Manual) upon delivery	

<i>Conforme:</i>
<i>Company/Bidder's Name:</i>
<i>Name and Signature of Authorized Representative:</i>
<i>Date:</i>