


Technical Specification

Specification of Patient Monitor

S.N.	Purchaser's Specification (Tamakoshi Hospital)	Bidders' Compliance Sheet		
		Yes/No	Pg. No. Catalogue	Remarks
	Brand			
	Type/Mode			
	Country of Origin			
1	Features			
1.1	Touch-screen			
1.2	12.1 inch high resolution color TFT display			
1.3	USB interface support easy software upgrade and data transfer			
1.4	Compatible with Central Monitoring System			
1.5	Three Working Modes: Monitoring, Surgery, and Diagnosis			
1.6	Multi-display modes suitable for different applications, standard interface, large font, ECG standard full display, OXY, trend table, BP trend			
1.7	Built-in high capacity battery up to 3 hours of continuous work			
1.8	VGA output for external display			
2	Standard Parameters			
2.1	ECG			
2.1.1	Lead Mode: 5 Leads (I, II, III, AVR, AVL, AVF, V)			
2.1.2	Gain: 2.5 mm/mV, 5.0 mm/mV, 10mm/mV, 20mm/mV			
2.1.3	Heart Rate: 15-300 BPM (Adult), 15-350 BPM (Neonatal) Resolution: 1 BPM Accuracy: $\pm 1\%$ Sensitivity $>200 \mu V$ (Peak to peak)			
2.1.4	ST measurement range: $-2.0 \sim +2.0$ mV Accuracy: -0.8 mV $\sim +0.8$ mV; ± 0.02 mV or $\pm 10\%$,			
2.1.5	Sweep speed: 12.5 mm/s, 25 mm/s, 50 mm/s			
2.1.6	Bandwidth Diagnostic: 0.05 - 130 Hz Monitor: 0.5 - 40 Hz Surgery: 1 -20 Hz			
2.2	SPO2			
2.2.1	Measuring Range: 0-100%			
2.2.2	Resolution: 1%			
2.2.3	Accuracy: 70% - 100 % ($\pm 2\%$)			
2.2.4	Pulse Range: 20-250 BPM			
2.2.5	Resolution: 1 BPM			
2.2.6	Accuracy: ± 3 BPM			
2.3	NIBP			
2.3.1	Method: Oscillometry			


 Prof. Dr. Suman Karmacharya
 MBBS MHCM
 NMC No. 3574



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2.3.2	Measure mode: Manual, Auto, STAT			
2.3.3	Unit: mmHG, kPa			
2.3.4	Measure and alarm range			
2.3.5	Adult Mode, Pediatric Mode, Neonatal Mode			
2.3.6	Resolution: 1mmHg			
2.3.7	Accuracy: ± 5mmHg			
2.4	TEMP			
2.4.1	Measure and alarm range: 0-50 C			
2.4.2	Resolution: 0.1 C			
2.4.3	Accuracy: ± 0.1 C			
2.5	RESP			
2.5.1	Method: Impedance between RA-LL or RALA			
2.5.2	Resolution: 1 BrPM			
2.5.3	Accuracy: ±2 BrPM			
3	User Training			
3.1	Must provide user training (including how to use and maintain the equipment).			
4	Warranty			
4.1	Comprehensive warranty for 2 year.			
5	Maintenance Service During Warranty Period			
5.1	During the warranty period, supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.			
6	Installation and Commissioning			
6.1	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.			
7	Documentation			
7.1	User (operating) manual in English			
7.2	Service (Technical/Maintenance) manual in English			
7.3	List of important spare parts and accessories with their part number and costing			
7.4	Certificate of calibration and inspection from factory			
8	Standard and Safety Requirements			
8.1	This unit shall be certified to meet ISO13485			
8.2	Shall meet IEC 61010-2 for electrical safety requirements.			
8.3	USFDA and CE approved certificates			
<p>The bidder must completely fill out the Technical Specification Form (TSF). Only Yes/No/All complies should not be written. The page number in the catalog of all the required parameters must be mentioned and highlighted. Failure to do so may lead to the rejection of the bid from the technical committee.</p>				

Prof. Dr. Suman Karmacharya
MBBS MHCM
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