

AMDA-Nepal
AMDA Mechi Hospital
Mechinagar 10, Jhapa

Technical Specification of 12 Channel ECG Machine with Trolley

S.N.	Purchaser's Specifications	Bidder's Compliance (Yes/No)	Reference Page No.	Remarks
	ECG Machine (12 Channel) With Trolley			
	Manufacturer:			
	Brand:			
	Type / Model:			
	Country of Origin:			
1	Description of function			
1.1	An Electro cardio machine is a medical device that records the electrical activity of the heart over a period of time using electrodes placed on the skin. It is a fast, painless, and non-invasive tool used to diagnose heart conditions like arrhythmias, myocardial infarctions (heart attacks), and other cardiovascular diseases.			
2	Operating Requirements			
2.1	Microprocessor controlled digital 12 channel ECG machine suitable for Neonatal, pediatric and adult.			
3	Technical specification			
3.1	12 channel ECG machine with simultaneous acquisition of 12 standard leads I, II, III, aVR, aVL, aVF, and (V1-V6).			
3.2	Internal memory for storage of up to 400 ECG or more.			
3.3	Continuous check on the quality of electrodes connection audio visual alert on loss signal.			
3.4	Filter setting for line –frequency (50-60Hz).			
3.5	Appropriately protected for operational during defibrillator.			
3.6	System must have integrated min 9 inch TFT color touch screen display adjustable tilt display. which shows ECG –curve , heart rates, patient name ID , time, age, sex, speed, filter setting, battery status, and warning message.			
3.7	ECG machine shall have 3 modes of operation –Automatic, manual and Rhythm.			
3.8	System should have inbuilt physical alphanumeric QWERTY keyboard.			
3.9	Shall have maintenance free digital thermal printer.			
3.10	Measurements QRS rate, PR interval, QRS duration, QT/QTc, P/QRT/taxes.			
3.11	Paper speed, user adjustable :5,12.5,25 and			

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3.11	Paper speed, user adjustable :5,12.5,25 and 50mm/sec.			
3.12	Sensitivity automatic or user selectable 5, 10 and 20mm/mV.			
3.13	Rechargeable lithium ion battery or better and charger integrated in the device.			
3.14	Battery backup at least 3 hours of continuous operation or more.			
3.15	The unit shall be compact, light in weight easy to carry (weight not more than 4kg including battery).			
4	Accessories, spares and consumables			
4.1	Reusable patients cable with reusable electrodes for adult and pediatric-1 set.			
4.2	Reusable patient cable with reusable electrodes for neonate and infant.-1set.			
4.3	Bottles of electrode gel, approximately 350ml-2 nos.			
4.4	Recording paper rolls.-5 rolls			
5	Standards and safety requirement			
5.1	The unit should be ISO1385:2003/AC: 2007 for medical device and CE / EU Quality marked to European medical devices directive certificate.			
5.2	The supplier should fill the technical tender form and clearly mention the manufacturer, model no. and country of origin/Made in, else technically will be disqualified.			
5.3	The bidder must submit a valid authorization letter from the manufacturer.			
5.4	Comprehensive warranty (Software, hardware/ parts maintenance labor cost etc.) for 1 years warranty after installation.			
5.5	Onsite repair & maintenance training and operational training to the hospital's Biomedical Engineer, Biomedical technicians and users.			
5.6	The machine supplied shall be brand new with the date of manufacture mentioned and the country of origin should be clearly mentioned.			
5.7	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			
5.7	One (hard and softcopy) of service & Operating manual in English should be provided at the time of installation			