



## Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited  
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Procurement of equipment for the CHCs (BPHCs / RHs) of the State of West Bengal under 15th Finance Commission.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-412/2023	Dated –20.07.2023
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The following amendment have been made in the tender document,

### Amendment –I (Revision of Technical Specification)

The revised technical specifications for the item is given below,

<u>Technical Specification of ECG Machine -12 Channel</u>		
1. Technical Characteristics		
1.1	Technical characteristics (specific to this type of device)	A. Simultaneous 12 Channel ECG recording with 12 lead simultaneous acquisition B. Should have a digital display of 12 channel ECG and should have three modes (Automatic, Manual and rhythm). C. Heart rate measurement range to be at least 30 to 250 bpm, with accuracy better than $\pm 5$ bpm. D. Heart rate display E. Heart rate measurement range to be at least 30 to 250 bpm, with accuracy better than $\pm 5$ bpm.
1.2	User's interface	Manual, Print out of the tracing facility should be there.
1.3	Settings	Sensor/wire disconnected and low battery alarm.
1.4	Software and/ or standard of communication(where ever required)	In built feature for storing and sharing the report (Compatible with PC connectivity) HL7 compliant data transfer through TCP/IP protocol for sharing (Authority to get the data) Patient demographic data along with ECG result interpretation
1.5	Memory	Internal memory supporting ECG data and waveforms store and recall
1.6	Printer	High resolution thermal array printer
1.7	Recording Paper	A4 Size (Z- Fold Paper / Foldable A4)

1.8	Data format	DICOM, XML & PDF (Mandatory) JPG (optional)
<b>2. PHYSICAL CHARACTERISTICS</b>		
2.1	Weight (lbs, kg)	less than 5 kgs
2.2	Configuration	Case is to be hard and splash proof.
2.3	Noise (in dBA)	< 50 dB
2.4	Heat dissipation	Heat dissipation: Should maintain nominal Temp and the heat should be dissipated
2.5	Mobility, portability	Supplied in protective case for clean storage and safe transport.
<b>3. ENERGY SOURCE (electricity)</b>		
3.1	Power requirements	220 to 240V, 50 Hz
3.2	Battery operated	Battery powered, silence able alarm for power failure.
3.3	Other energy supplies	Mains cable to be at least 3m length
<b>4. ACCESSORIES, SPARE PARTS, CONSUMABLES</b>		
4.1	Accessories, (mandatory, standard)	10 lead ECG cable for 12 lead ECG
4.2	Spare parts(main ones)	Two sets of spare fuses (if non-resettable fuses used)
4.3	Consumables/reagents (open, closed)	5 tubes electrode gel
<b>5. Standard Requirement</b>		
5.1	Sampling Frequency per channel	$\geq 1500$ Hz.
5.2	Frequency Response	25-250 Hz.
5.3	Alpha-numeric Keyboard	Mandatory
5.4	Display Size	$\geq 7$ inches
5.5	USB storage facility	Yes
5.6	Anatomical Hook up advisor	Preferable
5.7	Battery Back up	$\geq 2$ Hours
<b>BIDDING/PROCUREMENT TERMS/DONATION REQUIREMENTS</b>		
<b>6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS</b>		
6.1	Atmosphere/Ambience	Operating Condition: Capable of operating continuously in ambient temperature of 5 to 50 deg C and
6.2	User's care, Cleaning & Disinfection	Disinfection: Parts of the Device that are designed to come into contact with the patient or the patient surroundings
<b>7. STANDARDS AND SAFETY</b>		
7.1	Certificates (pre-market, sanitary)	Should be US FDA/ European CE (4digit notified body) / BIS approved product.
<b>8. TRAINING AND INSTALLATION</b>		
8.1	Pre- installation requirements	Availability of 5 Amp/15 Amp. Electrical Socket.
8.2	Requirements for sign-off	Supplier to perform installation, safety and operation checks before handover.
8.3	Training of staff (medical, paramedical)	Training of users in operation and basic maintenance shall be provided.
<b>9. WARRANTY AND MAINTENANCE</b>		
9.1	Warranty	3 years, including all spares and calibration.
<b>10. DOCUMENTATION</b>		
10.1	Operating manuals, set manuals, other	Should provide 2 sets (hard copy and soft copy)
10.2	Other accompanying	List of essential spares and accessories, with their part number

	documents	and cost
<b>11. Notes</b>		
<b>11.1</b>	Service Support Contact details	Contact details of manufacturer, supplier and local service agent to be provided
<b>11.2</b>	Recommendations or warnings	Any warning sign would be adequately displayed.