



Notice Inviting e-Tender

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Supply and Commissioning of different types of Medical Equipment for the Dept. of Cardiology and Chest Medicine at Calcutta National Medical College and Hospital

(Submission of Bid through *online*)

(2nd call of Bid Reference No.: WBMSCL/NIT-752/2024; Dated-20.12.2024)

Bid Reference No.: WBMSCL/NIT-111/2025

Dated-07.02.2025

AMENDMENT-I

Technical Specification

Schedule-I

Holter Machine

1. Overall

- CPU: 16 bit single chip
- SRAM: 512 K Bytes
- LCD Resolution: 112 dot x 72 dot (graphics)
- Recording time: Continuous 72 hours to 7 days or more
- Alarm in the form of sound in case of any disconnection during the recording process.
- Internal Clock: RTC
- Backup battery: Lithium / Alkaline (external or Inbuilt) battery

Service life 10 (ten) years or more

- Patient EVENT recording: EVENT switch

Records up to twelve (12) times 1 min

- Recording media: Multimedia card (MMC-64)

2. ECG signal recording unit

- Number of recording channels: hi-polar 2/3 channels, unipolar 2/3 channel
- ECG lead should be 5 or more and 12 lead derived must be possible.
- 5 lead ECG should be supplied additionally
- 100 pieces chest electrodes to be supplied with the machine, 2 bottles ECG jelly to be supplied
- Input impedance: 10 MO or more
- CMRR: 60 dB or more
- Gain ratio: 300x (AID input) : 300x (Monitor output)
- Frequency response : 0.05/0.67----40ijz
- Monitor output : 300mV/lmV
- Quantifying bit number : 10 bits
- Sampling frequency: 125 Hz
- Dynamic range: $\pm 5.00\text{mV}$
- Minimum resolution: $\pm 9.76\text{J1V}$
- 3 ECG signal recording unit to be supplied with each halter machine

3. Pacemaker pulse detection

- Detection channel: given 1 channel
- Acceleration sensor: 3 axial directions (static position information detection)
- Switches: 2 units (EVENT, [ON@ENTER](#))
- Power supply: AAA/AA (external or Inbuilt) battery

4. Multimedia Card

- Memory capacity: 1 GB or more
- Interface: MMC System Standard
- Dimensions (W X D X H mm): 24X 1.4X32
- Weight (g): 1.5g

- Backup battery: Not required
- Card type: MMC System Standard
- Service life (Electrical): Rewritable 100,000 times (Approx. 247 years / Everyday use)
 - (Mechanical): Endures Load/Eject 10,000 times (Approx. 7 years/ 4 Load/Eject a day) -
 - Error Rate: 52.8FIT
 - Mean Time Between Failures (MTBF): 18,914,171 hours
 - Vibration-resistance (Operating): 15 Gpp (MAX)
 - (Non-operating): 15 Gpp (MAX)
 - Shock resistance (Operating): 500G (MAX)
 - (Non operating): 500G (MAX)
 - Compatible internal / external micro SD card, total 2 numbers of SD card should be supplied with the machine
 - The bidder should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.