

ANNEXURE-A

TECHNICAL SPECIFICATIONS OF AI-ENABLED PORTABLE ECG MACHINE FOR THE DEPARTMENT OF CARDIOTHORACIC SURGERY, AIIMS, BILASPUR, H.P.

Quantity: 02

A) General Features

1. Device Description & Intended Use

- AI-powered handheld 12-lead resting ECG system
- Records, stores, transmits ECG
- Prescription-use; adjunct to clinical ECG

2. System Components

- ECG hardware module
- Single-cable design with five electrodes
- Should pair with the Mobile Application (available for Android and iOS) and connect via Bluetooth.
- Should provides access to the Web Portal for clinical review and data management.
- Should provide ECG measurements and provisional automated analysis (rhythm and morphological interpretation) using the acquired leads through the integrated software.

3. Connectivity & Data

- Bluetooth 5.1 wireless transmission (≥ 10 m)
- Real-time display on tablet/smartphone
- Optional cloud reporting

4. Power Requirements

- 2 × AAA batteries
- ~8,500 ECG recordings per set
- 5-year shelf life

6. Operating Conditions


- Temp: -10°C to $+40^{\circ}\text{C}$ (transient -18°C to $+50^{\circ}\text{C}$)
- Humidity: 0–95% non-condensing
- IP54 dust/splash protected

7. Physical Specs

- Approx. 102 mm x 43 mm x 23.85 mm ($\pm 10\%$)
- Weight Approx. 135–136 g ($\pm 10\%$)
- Cable length ~2.5–3.0 m

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8. Software Requirements

- ECG visualization, storage, transfer

9. Safety & Compliance

- Type CF defibrillation-protected applied parts
- Surface disinfect able (no immersion)
- Standard-compliant ECG safety labelling
- CDSCO/ISO/USFDA/European CE certification

10. Warranty & Service Support

- Minimum 5-year service life
- On-site training & local support needed
- 2 years warranty

B) Accessories

- 1) Laser printer (wifi enabled with auto-duplex printing) – 01 Nos.
- 2) Duracell Rechargeable AAA batteries, 900mAh- 12 Nos.
- 3) Duracell battery charger- 04 Nos.

C) General Clause

1. Warranty: 2 years
2. All software updates till the period of 5 years to be provided free of cost.
3. Physical demonstration of the system for compliance of specifications and operational capabilities must be done at AIIMS, Bilaspur, H.P., if required. If the company/bidder fails to provide physical demonstration of the product on request by the buyer, the product would be liable for rejection.
4. Prices of all consumables should be quoted separately and price frozen for next 5 years
5. All software's and antiviruses should be upgraded from time to time during next 5 years.
6. Price list of all modules and accessories to be quoted separately and price frozen for 5 years.
7. Demonstration of equipment and training to all users must be provided after completing supplies before acceptance.
8. The principal manufacturer must have direct presence or an approved service centre in India with 24x7 availability for service requests
9. Integration with HIS, LIS, Integrated Automated Charting System and/or any other system should be done on free of cost basis. Sharing of integration protocol and co-ordination with the owners of the existing such system would be the sole responsibility of the bidder.

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