

NOTICE - Pre-Tender Meeting

APMSIDC invites all prospective bidders for a Pre-Tender Meeting for the procurement of the following equipment:

Item Name: Multipara Monitor 5 Para with Central Monitoring System (CMS) Software capable of connecting 16 Beds

Pre-Tender Meeting Details:-

Date : 01.06.2026 (Monday)

Time : 11:00 A.M.

Venue : APMSIDC Conference Hall, Mangalagiri, Guntur District, Andhra Pradesh

Objective of the Meeting:

- To clarify technical specifications, commercial terms & conditions.
- To address queries of prospective bidders.
- To ensure better understanding of the tender requirements.

Specifications

1. Multi Para Monitor 5 para with CMS software

1. Should be USFDA/Notified CE/BIS and CDSCO for the product & ISO13485 certified Manufacturer.

2. All accessories should be from the same Original Equipment Manufacturer for the main unit

3. The equipment must have the manufacturer's brand name and model number permanently embossed or etched on the housing, in a tamper-proof manner, and clearly visible without dismantling the device.

4. Operational temperature ranges from 0-40 degree Celsius

5. Should measure adult, paediatric and neonatal parameters

6. Masimo/Nellcor Technology for Measurement of SPO2. Relevant document to be provided.

7. Apnea Monitoring limit range: 10s, 15s, 20s, 25s, 30s, 35s, 40s

8. Battery: Rechargeable lithium ion battery

9. Should be able to last **for minimum of 4–6 hours** of continuous monitoring

10. Chargeable with 220V AC 50Hz with Indian Standards Plug Point Optional is DC 12 V

11. At least **96 hours minimum** of trend memory with live transmission facility

12. Alarms:

Audio as well as visual

Adjustable and default

Should be for low and high heart and respiratory rates

For low saturation (Dynamic sound variation)

Low and high blood pressures

Low battery alarms

Arrhythmia alarms

13. Display:

Multicolour display

Display minimum 12.1 inch and above

HD resolution (1280x800 or higher) ensures clearer waveform visualization.

Touch screen or Knob

Wide viewing angle

Data: LAN/Wireless (not infrared) port for networking

Should be able to connect with LAN/Telemec HL7 standard for data transfer

14. ECG: 5 lead ECG cable, For ICU use, requiring at least 5-lead capability would allow better arrhythmia detection and ST segment analysis.

Heart rate ranges 30-300 bpm. This is the minimum range, a range wider than this is also acceptable

Variation in accuracy within +/- 1% ST segment elevation detection is desirable

Arrhythmia detection is mandatory Respiration

Range 0-120 rpm. This is the minimum range, a range wider than this is also acceptable

Resolution +/- 1rpm

15. NIBP:

Oscillometer method

Manual automatic and stat modes should be available
Range 10-260 mm Hg; Measurement should be mmHg
16. Temperature: °C & F selectable 25 to 45-degree C
17. SpO2:
Range 0-100%
Masimo/Nellcor Technology for Measurement of SPO2. Relevant document to be provided.
SPO2 with PI & PR
18. Accessories to be supplied along with the Monitor:
ECG cable, SPO2 adult, paediatric & infant
NIBP cuffs – adult, paediatric, Infant & Wall mount stand
Warranty 3 years warranty from date of installation
Central Station for Monitoring with multipara monitors in ICU (CMS software)
1. Should be a comprehensive system inclusive of necessary software and hardware for real-time wired monitoring of patient data acquired from monitor.
2. The transmission of data between the bedside monitor and the central station should be completely wired, compliant with applicable technology standards and should be bi-directional.
3. The central monitoring system setup should include a 21 inch or more flat panel high-definition LED/LCD/TFT display, a high-performance PC hardware, the dedicated application software, genuine windows operating system, B/W laser printer, antivirus protection and ups back-up. Network wiring from Bedside to Central Monitor along with necessary hub and networking requirements will be under the scope of the bidder.
4. The system should be able to simultaneously receive and display data from 16 beds minimum.
5. The high priority alarms should be distinct with both visual and sound indications
6. Apart from real-time display of monitored parameters, the system should have in-built loop memory of at least 72 hours
7. Apart from providing a comprehensive simultaneous snapshot of all monitored patients, the display should allow the user to zoom in and examine the data of specific patients in detail, while keeping a track of other patients
8. The central system should have both waveforms and numerical displays. Waveforms should include ECG, pulse plethysmograph and respiration. Numerical displays should include heart rate, respiratory rate, systolic / diastolic / mean pressures, NIBP saturation and temperature
9. Multi-Bed Mode:
10. Maximum 16 beds
11. ECG trace of maximum 16 beds minimum , (Duration 4 sec)
12. User can view maximum 4 real time waveform (one ECG waveform & other user selectable) along with 8 digital values, bed number, patient ID and control button
13. Multi-Parameter Mode:
14. View of any one bed with complete information along with ECG and 5 waveforms (4 sec each) along with corresponding digital values or 14 numeric parameters
15. Display of patient name, alarm status and bed number for selected beds along with numerical parameters

16. ECG trace along with two more user selectable waveforms and 6 digital values can be viewed
17. Facility to freeze multi-parameter waveforms
18. It should have 72 hours of graphical and tabular trend for each bed. Heart rate with eight parameters for graphical trend view. All parameters display for tabular trend and graphical trend view.
19. Alarms Type: Patient related alarms in RED color
20. Indication: Audio & Visual (continuous alarm or no alarm)
21. Visual alarm flashes till user acknowledges or patient condition becomes
22. Normal. Last 72 hours Alarms recall facility for each bed.
Warranty 3 years warranty from date of installation