



अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छत्तीसगढ़)  
All India Institute of Medical Sciences, Raipur (Chhattisgarh)  
Tatibandh, GE Road, Raipur-492 099 (CG)  
[www.aiimsraipur.edu.in](http://www.aiimsraipur.edu.in)

क्रमांक: AIIMS/R/CS/CTVS/18/136/LPC

दिनांक: 08-06-2018

## कोटेशन सूचना QUOTATION NOTICE

Inviting quotations for purchase of “**12 Channel ECG Machine with 7 Inch Colour TFT-LCD display, full qwerty keypad, recording paper 210mm width battery backup.**” for Department of Cardiovascular & Thoracic Surgery (CTVS) at AIIMS Raipur.

Sealed quotations are invited from intending registered Stockiest / Distributors having GST and relevant documents for above said. The quotation should be submitted to, Medical College Building, 2<sup>nd</sup> Floor, gate no.-5, AIIMS, Raipur office of the Stores Officer up to **15-06-2018** before **3:00 pm**. The quotations will be opened on the same day at **3.30 pm**. Details of item are given as under:

क्र. स. S. No	सामग्री का विवरण Description of item(s)	मात्रा Qty.	HSN Code	ब्रांड Make/ Brand/ Model	ईकाई दर Unit Price in ₹.	कर GST	कुल ईकाई रकम (कर सहित) Total Unit Price with Tax in ₹.	कुल रकम Total Amount in ₹.
1.	<b>12 Channel ECG Machine with 7 Inch Colour TFT-LCD display, full qwerty keypad, recording paper 210mm width battery backup.:</b> <u>(Detail Specification as per Annexure-I):</u>	01 Set.						

### नियम एवं शर्तें :

#### Terms & Condition:

- Rate should be mentioned in words & figure both.
- Taxes/GST, if any (Kindly mention in above table)
- Delivery schedule: within 15 days from the date of issue of P.O.
- No any additional documents related to this NIQ will be entertained after opening of NIQ.
- Price should be FOR Destination basis (i.e. Department of Cardiovascular & Thoracic Surgery (CTVS), AIIMS Raipur).
- LD @ 0.5% of delayed supply per week or part of week for delay of supply of material subject to maximum up to 10% should be deducted. After expiry of delivery period material cannot be accepted without extension of delivery period.
- Quotation No/Name and due date of opening must be written on top of envelop.
- Brand, Make & Warranty should be clearly mentioned in offer as well as tender quotation specific authorization may be submitted with the offer/bid.**
- GST rates applicable on your quoted item may please be confirmed. **HSN code for each item should be clearly mentioned.**



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10. Please confirm if there any change (Upward/Reduction) in your Basic Price structure. And you are also requested to pass the Input Credit as per the following **Anti Profiteering Clause of GST**.  
**“Upon Implementation of GST, any reduction in the rate of tax on supply of goods or service or the benefit of input tax credit shall be passed on to AIIMS Raipur by way of commensurate reduction in the prices”.**
11. In the event of increase in price, detailed justification and supporting evidence may be submitted.
12. The GST registration details may please be furnished.
13. RTGS details required for payment purpose.
14. 100% payment against receipt and acceptance of material.
15. No part supply or part payment will be entertained.
16. Validity of offer should not be less than 90 days.
17. Supply, installation and commissioning will be done by firm (if applicable).
18. The quantity in above column is totally tentative. It can be increase or decrease at the time of placement of order.
19. AIIMS, Raipur reserve the right to place the order for full or part quantity to one or more firms.
20. AIIMS, Raipur reserve the right to ask the sample for evaluation before placement of order.

(सुशील सोनबेर)  
भंडार अधिकारी  
अखिल भारतीय आयुर्विज्ञान संस्थान,  
रायपूर (छ.ग.)



### ANNEXURE-I

#### **Specifications for 12 Channel ECG Machine with 7 Inch Colour TFT- LCD display, full qwerty keypad, recording paper 210mm width battery backup:**

ECG Machine is primary equipment to record ECG Signal in various configurations. 12 Channel with interpretation is required for recording and analyzing the waveforms with special software.

##### **1. Operational Requirements**

- The ECG Machine should be able to acquire all 12 Leads simultaneously and interpret them.
- Should be easily portable & should be provided with Handle.

##### **2. Technical Specification**

- Should acquire simultaneous 12 lead ECG for both adult and pediatric patients.
- Should be upgradeable to 18 lead ECG.
- Should have Real time Color LCD display of ECG waveforms
- Sensitivity:** 10 mm/mV  $\pm 2\%$ ,
- Common mode rejection ratio:**  $\geq 100$  dB,
- Frequency response:** 0.05 Hz to 150 Hz ,
- Electrode check:** Every electrode except N(RF),
- Waveform status detection:** Electrode detachment
  - Should have Artifact, Hum, Drift & EMG suppression Filters.
  - Should have an inbuilt storage memory of at least 400 ECGs with easy transfer by optional data card.
  - Should display all 12 lead waveforms on the screen for quality assessment checks prior to print.
  - Should have interpretation facility of the amplitudes, durations and morphologies of ECG waveforms and associated rhythm for adult and pediatric patients. (Approx, 200 Clinical Findings and 5 Judgemental categories)
- Analysis sampling rate:** 500 samples/s ,
- Acquisition sampling rate:** 8000 samples/s
  - Should have facility of 1 minute cascaded ECG recording & rhythm recording for 1 or 3 ch
  - Should have auto extended recording when arrhythmia is detected
  - Should have alphanumeric Keyboard for patient ID Entry (virtual or hard keys)
  - Should have High resolution 210 mm size printer using thermal sensitive paper.
  - Should have battery capacity of at least 30 minutes of continuous rhythm recording on single charge.
- Recording data:** Program type, version, date and time, paper speed, sensitivity, lead name, filter, hospital name, patient information (ID number, name, sex, age), timing mark, event mark, electrode detachment, Noise.
  - Display: Color LCD/TFT adjustable Screen of 7" size.
  - Weight – approx 2.5Kg
  - Easy data transfer by wired & Wireless LAN( option)
  - Wired/Wireless connectivity to Network printer
  - ECG Viewer Software- Option
  - Bar code reader – Option
  - DICOM Compatibility- Option
  - Upgradeability- To 18 Lead ECG

##### **3. System Configuration Accessories, spares and consumables**

- ECG Machine with Interpretation facility-01
  - 12 Lead Patient Cable-01
  - Chest Electrodes Adult-(set of six) -01 sets.
  - Chest Electrodes Pediatric-(set of six) -01 sets
  - Thermal Paper 210 mm Size 5 rolls
4. **Environmental factors :** Shall meet IEC-60601-2-51-“Essential performance of recording and analyzing single channel and multichannel electrocardiographs”
5. **Protection against electric shock, Defibrillator & Harmful ingress of water.**
6. **Power supply**
- Power input to be 220-240VAC, 50Nz fitted with Indian pit
  - Should be BIS/ISO/FDA/CE approved product
  - Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements and IEC-60601-2-25 Safety of Electrocardiograms.
7. **Documentation:** User manual in English
8. **Warranty:** 01 Year.

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