



**RAJASTHAN MEDICAL SERVICES CORPORATION LTD.**

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No. F-8(156)RMSC/EPM/M-3/16-17/NIB-191/

4778

Date: 3-11-2016

**CLARIFICATION/CORRIGENDUM/ADDENDUM**

**Subject: -Revised Technical Specifications and other terms and conditions of Bid document CTMT Machine under NIT F-8(156) RMSC/EPM/M-3/16-17/NIB-191/4529 dated: 28.10.2016.**

In Reference to subject cited above and NIB-191, the various representations received from the firms and issues raised by the Bidders are examined by the competent Authorities and technical committee. The following Corrigendum/Addendum is issued for inclusion in bid document & Technical Specification of items (Section-V, Schedule of Supply, Point no. 3) as below:-

**REVISED TECHNICAL SPECIFICATION OF CTMT MACHINE**

1. The system should acquire 12 Lead ECG simultaneously & display 3x4, 4x6, 6x12, 12 lead data indicate significant changes.
2. Test Protocols: Bruce, Bruce Modified, Ellestad, Naughton and user defined program.
3. The system should have customizable summary report to determine the contents of report with data storage facility.
4. The system should be able to record resting ECG & Exercise ECG.
5. Should have alarm on HR, BP & ST level.
6. System should display at least these parameters :
  - a. 12 Lead raw ECG
  - b. 12 lead ST level & Slops
  - c. Enlarged QRS complex with maximum ST level
  - d. BP & HR
7. The system should have full facility to mark the ECG strip to enter comments at any stage.
8. The system should have facility to get system generated auto report.
9. The system should have facility to comparison between stages.
10. The system should have Grid at the background of training to measure the ST level manually.
11. The system should have following hardware & software details:
  - a. Data Acquisition : 12 Lead simultaneously
  - b. A/D : 12Bit or more
  - c. Sampling Rate : 300/Sec/channel or more
  - d. Input impedance : Should be more than 90M Ohms
  - e. CMRR : Should be more than 100 dB
  - f. Frequency response : 0.05Hz to 100Hz
  - g. Patient leakage : Should be less then 100µA
  - h. The system should have baseline correction.
  - i. Digital filters : 50Hz, 20Hz, 35Hz
  - j. Trade mill speed : 0.5 to 14km/Hr or higher range
  - k. Trade mill Motor : A.C./ D.C. Motor
  - l. Elevation : 0-21 or more

*(Signature)*

- m. Communication : RS232/USB
- n. Four tier heavy duty noise less trade mill with coasters having locking arrangement
- o. Minimum Patient load 150 kg or more.
- p. Emergency stop should be available on treadmill.
- q. Walking area should be  $\geq 1300 \times 400$  mm

12. The computer should have following configuration:

- a. Processor : i5 or higher
- b. Ram : 2GB or Higher
- c. HDD : 500GB or Higher
- d. DVD : Combo
- e. Monitor : 17" or Higher
- f. Keyboard : Multimedia
- g. Printer : Laser printer of reputed brand

13. The system should be supplied with following items:

- a. Good quality trolley system to mount computer & printer
  - b. Servo stabilizer of suitable rating & UPS for recording console
14. Manufacturer should have ISO 13485. Related documents should be submitted in technical bid.
15. The equipment should have CE certified. Related documents should be submitted in technical bid.
16. Equipment should conform to standards for electrical safety IEC-60601-1 General requirements and IEC-60601-2-25 Safety of Electrocardiograms. Related documents should be submitted in technical bid.
17. The firm should have service engineers based at Rajasthan.
18. Guarantee on accessories i.e. Lead set, (02 nos.) should be minimum for 6 months.
19. Consumable: lead set (2 nos.) & electrodes (100 nos.) & other standard accessories: 10 rim reporting paper. System should be supplied with User/Operational Manual & service manual & other required literature in 2 copies at least for each.
20. Guarantee on complete system should be for three years.
21. CMC shall be awarded @5% of basic cost equipment + service tax (as applicable) with yearly escalation of 5% on last year's CMC price.

The last date for sale of bid, receipt of bid & date of opening of technical bid is hereby extended as below:-

Extended Dates		
Last Date for Sale of Bid Form	Last Date of Receipt of Bid Form	Date of opening of Technical bid
1.	2.	3.
<u>24.11.2016</u> <u>11:00 AM</u>	<u>24.11.2016</u> <u>01:00 PM</u>	<u>24.11.2016</u> <u>03:00 PM</u>

Please note that all above clarification/amendment/corrigendum in technical specifications/bid conditions is the integral part of the bid document. This corrigendum/ addendum should be signed and annexed with bid document.

All other terms & conditions remains the same.

This bears the approval of M.D., RMSCL, Jaipur.

  
**Executive Director (EPM)**  
**RMSCL, Jaipur**