



# All India Institute of Medical Sciences Jodhpur

Admn/Prop/18/2019-AIIMS.JDH

Dated: 01<sup>st</sup> June 2019

**Subject:** Purchase of Non Invasive Hemoglobin Monitor for the Department of Trauma & Emergency at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Non Invasive Hemoglobin Monitor for the Department of Trauma & Emergency at AIIMS, Jodhpur from M/s Masimo Medical Technologies India Pvt. Ltd, 70/2, Miller's Road, Miller's Boulevard, 2<sup>nd</sup> Floor, Bangalore on proprietary basis. The proposal submitted by M/s Masimo Medical Technologies India Pvt. Ltd, Bangalore and PAC certification by user are attached.

The above document are being uploaded for open information to submit objection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21days of issue giving reference Admn/Prop/18/2019-AIIMS.JDH. The comments should be received by office of Administrative Officer, Medical College at AIIMS, Jodhpur on or before 28<sup>th</sup> June 2019 upto 03:00 PM failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

**Yours faithfully,**

**Administrative Officer**

**Enclosed: Related documents enclosed.**



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Masimo Medical Technologies India Pvt. Ltd.  
2012 Miners Road, Millers Boulevard, 2nd Floor  
Bangalore 560052, Karnataka State

August 13, 2018

## TO WHOM IT MAY CONCERN

This is to certify that the following technologies, and parameters are unique to pulse-oximeter and Co-oximeter **Model Radical 7** manufactured by **Masimo Corporation**, is protected by patents, trademarks and or trade secrets as appropriate, and are proprietary to Masimo Corporation:

1. **Signal Extraction Technology™ (SET™)**: Proprietary technology protected by patents, trademark, and trade secrets, that allow the measurement of oxygen saturation in the blood, even when there is motion (Otherwise known as 'read through motion') and low perfusion up to 0.02 Perfusion Index (PI)
2. **Rainbow SET™ or Rainbow Technology**: Proprietary technology protected by patents, trademark, and trade secrets, that allow the non-invasive and continuous measurement of the following parameters:
  - i. Hemoglobin and Total Oxygen content (SpHb)
  - ii. Pleth Variability Index (PVI)

**The combination of these measurements in one Patient Monitor Model Radical 7 is unique and Proprietary to Masimo.**

Further, we confirm that no other company manufacturers or can offer the above combined technologies and features in one monitor.

We also hereby confirm that Hanuman Healthcare, C-2/2536 Vasant Kunj, New Delhi- 110070, India is authorized to supply and service the above combination of products, technologies and solutions in AIIMS, Delhi.

Yours faithfully,

For Masimo Medical Technologies India Pvt Ltd.,



**Bharat D. Monteiro**  
Country Manager - India & The Sub-continent



**Patient Monitor for Continuous Non Invasive Haemoglobin Monitoring**

1. Patient Monitor suitable for Non-invasive Monitoring of Continuous Haemoglobin, Fluid Responsiveness, Perfusion Index, Pulse Oximetry and Pulse rate in patients
2. Should provide continuous Non Invasive Haemoglobin measurement and display to enable clinician manage blood transfusions during and after surgeries
3. Should be able to measure Continuous Non-invasive Haemoglobin, SpO<sub>2</sub>, Pulse rate, Perfusion Index and Fluid responsiveness (Pleth variability) through same single finger sensor
4. Bedside monitor Should have selectable SpO<sub>2</sub> averaging Modes-2, 4, 8, 10, 12, 14 or 16 seconds & Sensitivity - APOD, Normal and Max
5. Monitor should have Multi touch Backlit TFT LCD Colour Display with Adjustable Brightness.
6. Should have inbuilt battery backup for atleast four hours
7. Patient monitor should have rotational colour touch screen with automatic change to horizontal or vertical view
8. Patient monitor should have facility to customize display to see parameter, waveforms or trends.
9. Patient monitor should have trend function with facility to select one or two parameters and move, expand or collapse parameter trend for real time analysis
10. Should have facility to store patient parametric data and display trend upto 96 hours at 2 seconds sampling rate
11. Should have user configurable display settings and alarms for patient parameters
12. Should have Audible and visual alarms for High/Low Hemoglobin (SpHb), High/Low SpO<sub>2</sub>, High/Low Pulse Rate, High/Low PVI, Probe off, cable disconnect and low battery.
13. **Display and Measurement Range**
  - Total Hemoglobin (SpHb) - 0-25 g/Dl
  - Oxygen Saturation (SpO<sub>2</sub>) - 0 - 100%
  - Pulse Rate (PR) - 25-240bpm
  - Perfusion Index (PI) - 0.02-20%
  - Pleth Variability Index - 0 - 100%
14. **Accuracy**
  - Total Hemoglobin : 8-17 g/Dl
  - Accuracy:  $\pm 1$  g/Dl
  - Saturation Range : 70% to 100%
  - Accuracy :  $\pm 2\%$
  - Pulse Rate : 25-240 bpm
  - Accuracy :  $\pm 3$  bpm
15. **Resolution**
  - a. Total Hemoglobin (SpHb) - 0.1 g/Dl
  - b. Oxygen Saturation (SpO<sub>2</sub>) - 1 %
  - c. Pulse Rate (PR) - 1 bpm
  - d. Perfusion Index (PI) - 0.01 %
16. Monitor should meet international quality and safety standards and should be USFDA and European CE approved product
17. The vendor should quote price for sensors valid for atleast three years
  - a. The Patient Monitor should be supplied complete with Sensor for Continuous Haemoglobin, PVI, SpO<sub>2</sub>, PI - 10 nos.