# ALL INDIA INSTITUTE OF MEDICAL SCIENCES ANSARI NAGAR, NEW DELHI-29. STORES SECTION (DO)

Ref. No. 21/Stores(DO)/Pead.Surg./PAC/2019-20/FSC Dated-28/10/2019

Sub:- Purchase of "Patient Monitoring System with safety net for HDU 20 Bed." for the Department of Pediatric Surgery at AIIMS, New Delhi-110029, on proprietary basis Inviting comments thereon.

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The Institute is in the process to purchase "Patient Monitoring System with safety net for HDU 20 Bed. at AIIMS, New Delhi from M/s. Masimo, USA through M/s. Gaur Surgical, New Delhi. The PAC Certifications by M/s. Masimo, USA as well as the user department are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within 15 day from the date of issue/uploading of the notification giving reference No. 21/Stores(DO)/Pead.Surg./PAC/2019-20/FSC. The comments should be received in office of Stores Officer (FSC), Store Section (DO), Animal House Building, Near Biotechnology Building at AlIMS on or before 14/11/2019 upto 12.30 p.m. 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,

R STORES OFFICER

Encl: Related documents enclosed.



## ALL INDIA INSTITUTE OF MEDICAL SCIENCES ANSARI NAGAR, NEW DELHI - 110 029

### Proprietary Article Certificate (PAC) (Machinery & Equipment)

 The indented goods are Manufactured by M/s Masimo, USA

2. Item Name

Patient Monitoring System with Safety Net

for HDU 20 Bed

3. Model No.

Patient Safety Remote Monitoring and

**Notification System** 

4. Vital Technical Performance Parameters Required which makes the requirement Proprietary##

Rainbow Technology allows non invasive continuous measurement of SpHb, SpCO,

SpNet&PVI through one device

5. No other make or model is acceptable for The following reasons

Only Single Manufacturer

It is certified that market survey has been done and found that no other manufacturer is manufacturing similar/equipment specifications which can fulfill the vital requirements of end user.

डॉ. देवेन्च कुमार यादव/Dr. Devendra K. Yadav राहायक आचार्य/Assistant Professor शिशु शल्य विभाग/Department of Pediatric Surgery अ.भा.आ.सं., नई दिल्ली/A.I].M.S., New Delhi-110029 डॉ. एम. बाजपेई / Dr. M. BAJPAI आचार्य एवं विभागाध्यक्ष / Professor & Head शिशु शल्य विभाग / Deptt. of Pediatric Surgery अ.भा.आ.सं. नई दिल्ली / A.I.I.M.S. Pedia-110029 Signature of 150

with Name, Designation, Department and Hospital/Institute/DGHS

##Note 1: TSEC should elearly mentioned in serial no.1.

डॉ. प्रबुद्ध गोयल/Dr. Prabudh Goel सहायक आचार्य/Assistant Professor शिशु शल्य विभाग/Department of Pediatric Surgery अ.गा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-110029

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डॉ. संदिप अग्रवाला/Dr. Sandeep Agarwala आचार्य/Professor

डॉ. विशेष जैन/Dr. Vishesh Jain

सहायक आचार्य/Assistant Professor

शिशु शल्य विभाग/Department of Pediatric Surgery अ.भा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-110029 क्रां, अंजन कुमार धुआ/Dr. Anjan Kumar Dhua अंजन कुमार धुआ/Dr. Anjan Kumar Dhua सहायक आधारी/Assistant Professor सहायक आधारी/Assistant Professor सहायक आधारी/Assistant Professor सहायक आधारी/Assistant Professor शिषु शत्य विभाग/Department of Pediatric Surgery अ.भा.आ.चं., नई दिल्ली/A.I.I.M.S., New Delhi-1:3023



#### Technical Specifications for Patient monitoring System with Safety Net for HDU 20 Bed

- 1. The system should provide Remote monitoring of patients in High dependency unit/wards and provide notification in case of any change in condition of patient.
- 2. The system should monitor the patients by the bedside and relay the data to a central monitoring station from where the patients can be monitored.
- 3. The notification system should be capable of sending alarm notifications to care givers and should have auto escalation features for providing fool proof redundancies.
- 4. Auto escalation should be programmable as per the care area need
- 5. It should be suitable for all types of patients:, Pediatric, Infant, and /or Neonate
- 6. Patient monitor should provide continuous, simultaneous measurements and displays of the following parameter:

1)SpO2

2)Pulse rate

3)Perfusion Index

4) Pleth variability Index

- 7. Should have the facility to measure these parameters for spot check and at fixed time intervals
- 8. Should be able to measure SpO2, Pulse Rate, Perfusion Index, Continuous Noninvasive Hemoglobin ,Pleth viability through same single finger probe
- 9.Beside monitor Should have selectable SpO2 averaging Modes- 2, 4, 8, 10, 12, 14 or 16 seconds & Sensitivity - APOD, Normal and Max
- 10. Central Monitoring Station should be color touch screen at least 21" size
- 11. Central station should have choice for Selecting multiple domains and monitor up to 40 patients at a glance in one single screen
- 12. Central monitoring display should have Choice of icon and/or Numeric views তি quickly investigate ant Protection patient alarms

डॉ. अंजन कुमार धुआ/Dr. Anjan Kumar Dhua शिशु शत्य विभाग/Department of Pedia Surgery अ.भा.आ.सं., नई दिल्ली/A.I.I.M.S., New

13. Should have facility of comprehensive Review of trend data with Window selection of 10 minutes to

96 hours display On the central monitoring station

🚱 डॉ. विशेष जैन/Dr. Vishesh Jain

14. Should have Alarm notification system with multiple options including proprietary paging system Professor and enterprise paging system

अ.भा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-29

15. System should be complete with paging transmitter and pagers (at least 10 nos ) with provisions for auto escalation and augery)

ुडा. संदिप अग्रवाला Ør. Sandeep Agarwell. एम. बाजपेई / Dr. M. BAJPAI 16 System Should allow afoe 3rd party messagine with says क्षेत्रक रूपान एक विभागाच्यक्ष / Professor & Head क्षेत्रक क्

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Deptt. of Pediatric Surgery

L.H.M.C. & K.S.C. How अधिनेत कुमार यादव/Dr. Devendra K. Yadav

शिशु शत्य विभाग/Departit and of Pediatric क्रिंग

अ.भा.आ.सं., नई दिल्ली/A.I.J.M.S., New Delhi-

- 17. Individual Patient monitor should have rotational color touch screen with automatic, change to horizontal or vertical view
- 18. Patient monitor should have facility to customize display to see parameter, waveforms or trend patient monitor should have function with facility to select one or two parameters and move ,expand or collapse parameter trend for real time analysis
- 19. Individual monitor should have inbuilt battery backup of at least four hours
- 20. Display &measurement range, resolution and accuracy of beside monitor should be as follows
  - Display and Measurement Range (Adult/infant/paed)
    - a) Plath Variability Index -0-100%
    - b) Oxygen Saturation (SpO2)-0-100%
    - Pulse Rate (PR)-25-240bpm
    - d) Perfusion Index (PI) -0.02.20%
  - Resolution (Adult /infant /paed) II.
    - a) Oxygen Saturation (SpO2)-0-100%
    - b) Pulse Rate (PR) 1 bpm
  - Measurement range and Accuracy ( Adult /infant /paed) 111.
    - a) Saturation Range: 70% to 100% -Accuracy in no Motion -2% Accuracy in Motion-3% Accuracy in Low Perfusion-.2%
    - b) Pulse Rate Range: 25 240 bpm

e Rate Range :25 -240 bpm
Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in no motion -3 bpm accuracy in motion -5 bpm —Accuracy in in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 bpm —Accuracy in motion -3 bpm accuracy in motion -5 b

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- 21. The system should be US FDA and CE approved product
- 22. The manufacture should have ISO certification for quality st क्या प्राचार /Assistant Professor

ज्ञेत्ता∕Dr. Vishesh Jain शिश शत्य विभाग/Deptt. of Pediatric Surgery अ.भा.आ.सं., नई दिल्ली/A.I.I.M S., New Delhi-29

> Dept. of Obstetrics & Gynascology अ. भा.आ. सं. /A

23. Should comply with following standards हों। सभीर काला आसाम् I Dr. Gernir Kant Achterys डां. वाभीर काना आसार्थ ( Po. Semir (Post Surgery) एनसोएए (कार पुरुष (विकास) (Surgery) Safety Standards : ANSI/AAMI हिन्दु विभाग (CAM) (SSA CZZ No 60 पुनसोएए (कार पुरुष विभाग (CAM) (SSA CZZ No 60 विशेष विशेष अस्त पुरुष विभाग (Deptt. of Pediatric Surgery अभाआसं, नई विस्त्रा / ALLMS No 60 डॉ. एम. बाजपेई / Dr. M. BAJPA 60601 -1 IEC/EN BENT EN मन शाम विकिस विभाग Least Persunda Suna अ.भा.आ.सं., नई दिल्ली / A.I.I.M.S., New Delhi-110029 म्पारी एवं समयवर्णन अवसान, नहीं दिन 60601 Dr. AMITA GEN Parameter, the word unio & Sarsarium Hospital, New Delli डॉ. संदिप अग्रवाला Dr. Sandeep A HOU, PEDU आचार्य/Professor TENGLESSON OF HOSPICAL HOSPING F. S.C. HOSPING शिधु शल्य विभाग/Department of Pediatric श्रेमित्र क्रान्तिस्ति . डाविताव प्राचार्य /Professor प्रामृत एवं स्त्री रोग विज्ञान विभाग The state of the s

- Pulse Oximeter Standards : ISO 80601-2-61
- Alarm Standards : IEC 60601 -1-8 Class B
- EMC Standards: EN60601 -1-1-2, Class B
- Degree of Protection : Type BF, DefibProof
- 24. The system should have the capability of connectivity/ Integration with hospital hl7 Admit, discharge and transfer (ADT) system for patient data management. Should also have provision for bedside patient association via ADT.
- 25. Should have option for integration into electronic medical record system using HL7 for automated documentation of patient data.
- 26. The system should support both wired and wireless installation.
- 27. The vendor should quote price for sensors valid for at least three years.
- 28. The system should be supplied complete with
  - a) Central monitoring station minimum 21' touch screen and required hardware, server etc.
  - b) Bedside patient monitors with facility to measure and display- SpO2, pulse rate, perfusion index continuous noninvasive hemoglobin, pleth variability index – 20 Nos.
  - c) Patient finger sensor 20 Nos.
  - d) Patient Cable -20Nos.
  - e) NIBP Cuff 20 Nos.
  - 29. The System should have 5 year Comprehensive warranty and should quote price for CMC for 5 years after completion of warranty period.
  - 30. Should have installation of quoted System in any reputed Govt. Hospital or Institution. डॉ. विशेष जैन/Dr. Vishesh Jahn.

डॉ. अंजन कुमार पुआ/Dr. Anjan Kumar Dhua सहाराक आसार्ग /Accietan Drof-शिशु शत्य विभाग/Department of Pediatric Surgery अ.भा.आ.सं., नहं दिल्ली/A.I.I.M.S., New Delhi-110029

सहायक आचार्य/Assistant Professor शिशु शत्य विभाग/Deptt. of Pediatric Surgery अ.भा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi-29

डॉ॰ सभीर कान्त आचार्या / Dr. Samir Kent Achanya एम.सी.एम (बारा पाट्स विजित्स)/Mch (Paod. Surgery) वरिक्ट विदेशका बाल पोग शह्य विकिट्स) Sr. Specialist Paediatric Surgery & Frod मान प्रस्य विकित्स विभाग/Last Psecionic Surgery व्यवस्था एवं सम्बर्गण अस्पत्त गई दिल्ल-४ IMC & Selfanjung mospital, New Delia-20

अ.भा.आ.सं., नई दिली/हर् Director Professor Deptt. of Pediatric Surgery

L.H.M.C. & K.S.C. Hospital New Delhi-1-0001

्रेडॉ. तेवेन्द्र कुगार यादव/Dr. Devendra K. Yadav सतायक आचार्य/Assistant Professor शिशु शल्य विभाग/Department of Padia no Surgery hi-110023

डॉ. प्रबुद्ध गोय<u>त</u>

Dr. MATTA STON

सहायक भाषात/Assistant Professor शिशु शत्य विभाग/Department of Pediatric Aurgan अ.सा.आ.सं., नई दिल्ली/A.I.I.M.S., New Delhi

सिंदिर्प क्ष्म्यवाला / Dr. Sandeep Agarv ज. वी. श्रेमकी V.B. Sharma शिषु राला विभाग /।) श्रीचार्य/Professor

अन्यसम्बद्धाः ज्यान्यसम्बद्धाः वर्गाः स्थानसम्बद्धाः वर्गाः स्थानसम्बद्धाः वर्गाः स्थानसम्बद्धाः वर्गाः स्थानस त्र श्रवाचन विभागस्त्रसम् ए सम्बद्धाः स्थानस्य स् ાન્યલ લાજનાય આયુવામાં વ્યવસાય મામાં જાત્યલ લાજનાય આયુવામાં વ્યવસાય મામાં જાતારી ત્રાર માં વિલ્લીમિયાગમાં ધ્રગુગ, મે. D. 410829

आचार्य (Aprofessor

प्रसृति एवं स्त्री रीग विज्ञान विमाग Dept. of Obstetrics & Gynaecology

#### TO WHOM IT MAY CONCERN

February 28, 2019

This is to certify that the following technologies, and parameters are unique to pulse-oximeters, Cooximeters and Masimo's Patient SafetyNet™ system manufactured by Masimo Corporation, are 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 (SpHb)
  - ii. Carboxyhemoglobin (SpCO)
  - iii. Methemoglobin (SpMet)
  - iv. Pleth Variability Index (PVI)

The combination of these measurements in one device is unique to Masimo, and is available as required in Masimo's devices such as Rad-97, Radical-7, and Root.

Further, Masimo's Patient SafetyNet™ system is uniquely positioned to provide supplemental remote monitoring of data from all the above bedside devices to display near real time information at a central monitoring station, automate data transfer to EMR and additionally send alarms and alerts to clinicians. The Patient SafetyNet includes the following proprietary features which include:

- Halo Index- A Cumulative Trending Assessment of Global Patient Status
- Replica A mobile application for supplemental remote monitoring and clinician notification on a smart phone

We hereby confirm that to the best of our knowledge no other manufacturer can offer the combination of above technologies for supplemental remote monitoring!

Masimo's Patient SafetyNet is Covered by one or more of the following U.S. Patents: 7844314,7844315, 8274360, 8310336, 8892180, 9142117, 9211095, 9218454, international equivalents, or one  $o_{\mathbf{r}}$  more of the patents referenced at <a href="www.masimo.com/patents">www.masimo.com/patents</a>. Other patents pending.

31.31.31. स. नई विकर्त A Little

देवेन्द्र कुमार यादव/Dr. Devendra K. Yadav सहायक रिनिय SASSILLER WHY ressor

शिशु शत्य विभागिकाक्षात्रात्रात्राक्षिकिविविधिकि शिशि Masimo Medical Technologies India Pvt. Ltd,

**अ.भा.आ.सं., नई दिल्ली/A.**I3.M.S., New Delbi-1100

📆 डॉ. विशेष जेन/Dr. Vishesh Jain सहायक आचार्य/Assistant Professor शिश शल्य विभाग/Deptt. of Pediatris

**Bhart D Monteiro** Country Head-India & The Sub-Continent (§

Sandeep Agarwala आचार्य Professor

शिशु शत्य विभाग/Department of Pediatric Surgery अ.भा.व्य.सं., नई दिल्ली/A.I.M.S. New Delhi-110029 र प्राथमिक स्टार्ट स्टार्ट अस्पर्य (Const. Surgery)

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**अ.भा.आ.सं.,** नई दिल्ली/A.H.IA.S., New Oeth-110029

चा. अनुष्य पान्ता । सहायक आचार्य/Assistant Prodessor RAJIV CHADHA राह्य विभाग/Department of Pediatric Bingetor Professor

सहायक अवादों है, है द शिशु शल्य विभाग/०३३ ॥

चित्र शस्य समाग/Department of remain Depth of Pediatric Surgery अ.मा.आ.स., नई दिल्ली/A.L.S.L.S., Ne.D. .... L.H.M.C. & K.S.C. Hospital

डा. जे. बी. शर्मा/Dr. J.B. Sharma आचार्य /Professor प्रस्ति एवं स्त्री रोग विज्ञान विभाग Dept. of Obstetrics & Gynaecology

New Calhi-110001

खाँ. एम. बाजपेई ∕ Dr. M. BAJPAI

आचार्य एवं विभागाध्यक्ष / Professor & Head

शिशु शल्य विभाग/Deptt. of Pediatric Surcery

अ.भा.आ.सं., नई दिल्ली / A.I.I.M.S., New Delhi-11 2020

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Date -03-09-2019

#### SECTION - XII MANUFACTURER"S AUTHORISATION FORM

The Director All India Institute of Medical Sciences Ansari Nagar, New Delhi-110029, India.

Dear Sir.

Ref: Your TE document No- Patient SafetyNet™Remote Monitoring and Notification System for HDU on 20 Beds for Pediatric Surgery Department.

We, Masimo who are proven and reputable manufacturers Of Patient SafetyNet™ Remote Monitoring and Notification System for HDU on 20 Beds having factories at USA, hereby authorize GAUR SURGICALS having Reg. Office at 187, W. No. 3, Meherauli , New Delhi - 110030 to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also state that we are not participating directly in this bid for the following reason(s): Company has decided to quote the Tender through their Authorized dealer.

We further confirm that no supplier or firm or individual other than Messrs. GAUR SURGICALS having address at -W.No. 3, Meherauli, New Delhi - 110030 is authorized to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us. We also hereby extend our full warranty, CAMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorized agent and the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly"

Yours faithfully,

For Masimo Medical Technologies India Pvt Ltd.,

डॉ. एम./बाजपेई / Dr. M. BAJPAI आचार्य एवं विभागाध्यक्ष / Professor & Head शिशु शल्य विभाग / Deptt. of Pediatric Surgery अ.भा.आ.सं., नई दिल्ली / A.I.I.M.S., New Delhi-110029

प्रबुद्ध गोयल/Dr. Prabudh Goel सहायक आचार्य/Assistant Professor शिशु शल्य विभाग/Depar Bhatt D. Monteiro

अ.भा.आ.सं., नई दिल्ली/A.Country Helad-India & The Sub-Continent

डॉ. संदिप अग्रवासा/Dr. Sandooplygalwalpowale आचार्य/Professor

शिशु शल्य विभाग/Department of Pediatric Surgery अ.भा.आ.सं., नई विल्ली/A.I.I.M.S., New Delhi-110029

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२९ देवन्द्र कुषार गादव/Dr. Devendra K. Yadav राह्यसक आचार्य/Assistant Professor शिशु शाल्य विभाग/Department of Pediatric Surgery अ.मा.आ.सं., नई विल्ली/A.IJ.M.S., New Delhi-119029 . <sup>Anjan</sup> Kumar Dhua आबार्य/Assistant Professor