



**All India Institute of Medical Sciences, Bilaspur
Himachal Pradesh- 174037**

Ref No of GeM Bid No. GEM/2023/B/3203109

Issue Date: 01-03-2023

Name of the Bid: Integrated Automated Charting System with Advanced Monitors

Pre-bid Meeting held on 7th Mar, 2023

The clarifications and amendments are as follows:

S. No.	Tender Technical Specification	To be amended/modified	Justification	Amendment
WIPRO GE HEALTHCARE P. LTD./ Symbiosis				
S.No.1.F	Should be able to measure Hemoglobin non-invasively	We request you kindly delete this point	It is a vendor specific point, we request to delete for wider participation	No Change
S.No.1. H.	Monitor must have inbuilt rechargeable battery with minimum backup of 120 minutes or more	It is a stationery monitors and hence, you can opt for UPS in place of inbuilt battery	For wider participation	Accepted. Modification: Monitor must have inbuilt rechargeable battery with minimum backup of 120 minutes or UPS
S.No.1.I	Should have a transport monitor module with screen size of at least 4 inches	We request you to change it to- Transport monitors/module with screen size of min 7 inches,	For wider participation	No Change
S.No.1.	ECG PARAMETERS:-a) Should have capability for 5 lead placement and 12-lead ECG data can be measured by standard lead placement, should have pacer detector sync with the pacing signal	We request you to change to 5/6/10 Lead placement and 12-lead ECG data can be measured by standard lead placement, should have pacer detector sync with the pacing signal	For wider participation	No Change
S.No.1.	PULSE OXIMETRY:-e) Should have perfusion Index Display	We request to delete this point	For wider participation	No Change

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S.No.1.	ETCO2 MONITORING a) mainstream or micro stream EtCO2 sensor, which can be used on both intubated and/or non-intubated patients	We request you to change to mainstream/micro stream/ Side stream EtCO2 sensor, which can be used on both intubated and/or non-intubated patients	For wider participation	Accepted. Change: EtCO2 MONITORING a) mainstream or micro stream or side stream EtCO2 sensor, which can be used on both intubated and/or non-intubated patients
S.No.1.	OTHERS a) Should be upgradeable to EEG, AEEG, BIS, Neuromuscular Transmission (NMT), Spirometry, ScV02, Transcutaneous P02 and PC02 and Anesthetic Gas Module (AGM)	We request you to delete AEEG, ScV02.	For wider participation	No Change
S.No.1. O	Monitor should provide remote viewing data of each monitor on Mobile / Laptop/ Desktop without	We request you to remove this point	For wider participation	No Change
S.No.2	ECG PARAMETERS:-a) Should have capability for 5 lead placement and 12-lead ECG data can be measured by standard lead placement, should have pacer detector sync with the pacing signal	We request you to change to 5/6/10 Lead placement and 12-lead ECG data can be measured by standard lead placement, should have pacer detector sync with the pacing signal	For wider participation	No Change
S.No.2	ETCO2 MONITORING:-a) mainstream or micro stream EtCO2 sensor, which can be used on both intubated and/or non-intubated patients	We request you to change to mainstream/micro stream/ Sidestream EtCO2 sensor, which can be used on both intubated and/or non-intubated patients	For wider participation	Accepted. Change: EtCO2 MONITORING a) mainstream or micro stream or side stream EtCO2 sensor, which can be used on both intubated and/or non-intubated patients

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S.No.2	INVASIVE PRESSURE MONITORING:-a) Provision of simultaneous measurement of 3 invasive pressures	We request you to change to a) Provision of simultaneous measurement of 2 invasive pressures with a provision to upgrade to 3 rd Invasive Pressure	For wider participation	No Change
S.No.2	OTHERS a) Should be upgradeable to EEG, AEEG, BIS, Neuromuscular Transmission (NMT), Spirometry, ScV02, Transcutaneous P02 and PC02 and Anesthetic Gas Module (AGM)	We request you to delete EEG, AEEG, ScV02, Transcutaneous P02 and PC02, Non-invasive hemoglobin. We request you to add it should be upgradable to "BIS/Entropy"	For wider participation	Addition of BIS/Entropy is accepted. Rest no change. Modification: OTHERS a) Should be upgradeable to EEG, AEEG, BIS, Neuromuscular Transmission (NMT), Spirometry, ScV02, Transcutaneous P02 and PC02 and Anesthetic Gas Module (AGM) and BIS/Entropy
S.No.2	b) Should preferably have facility to measure 03 regional oximetry and oxygen reserve index	We request to delete this point	It is a vendor specific point, we request to delete for wider participation	No change
S.No.2	Patient monitoring network shall use standard TCP/IP protocol and be capable of residing on hospital's network infra-structure,	We request to delete this point	It is a vendor specific point, we request to delete for wider participation	No change
S.No.2.N	Monitor should provide remote viewing data of each monitor on Mobile /Laptop/ Desktop without using any special server.	We request you to remove this point	For wider participation	No change

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S.No. 3.i)	Monitor should provide remote viewing data of each monitor on Mobile /Laptop/ Desktop without using any special server.	We request you to remove this point	For wider participation	No change
S.No.3.b)	Central Nursing Monitoring Station:-b) Should have minimum 32 devices on single network.	We request you to kindly change it to "Should have minimum 16 devices on single network."	For wider participation	No change
S.No.4	Accessories: Consultant Room — Minimum 32 inches Smart LED —02 nos. With access for monitor remote viewing and charting solution	We request you to change this point to-Consultant Room — PC with Minimum 32 inches Smart LED-02 nos. With access for monitor remote viewing and charting solution	For wider participation	No change
NIHON KOHDEN INDIA PRIVATE LIMITED				
S.No. 1.C	The monitor should be capable of >6 digital and waveform/traces display at a given time.	The monitor should be capable of >14 digital and waveform/traces display at a given time.	More number of waveform and numeric data can be displayed on single screen. So, request to change the specifications for wider participation and better patient care.	No Change
S.No. 1.F	Should be able to measure Hemoglobin non-invasively	Request to remove 'Should be able to measure Hemoglobin non-invasively'	Non-Invasive Hemoglobin, being a non-invasive parameter is less reliable for Critical patient care. There are some clinical studies which shows the inaccuracy and no-reliability of this parameter for the patient diagnosis. Please find link below.	No Change

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S.No. 1.H	Monitor must have inbuilt rechargeable battery with minimum backup of 120 minutes or more	Monitor must have inbuilt rechargeable battery/UPS with minimum backup of 120 minutes or more	Request to change the specifications for wider participation.	Accepted. Modification: Monitor must have inbuilt rechargeable battery with minimum backup of 120 minutes or UPS
S.No. 1.O	Monitor should provide remote viewing data of each monitor on Mobile/Laptop/Desktop without using any special server.	Monitor should provide remote viewing data of each monitor on Mobile/ Laptop/ Desktop.	The asked facility is available with few manufactures only. So, request to change the specifications for wider participation.	No Change
S.No. 1.P	Monitor should have facility to download trend data on USB and SD card	Monitor should have facility to download trend data on USB or SD card	Request to change the specifications for wider participation.	Accepted. Modification: Monitor should have facility to download trend data on USB and/or SD card
S.No. 1	ECG Parameter: (a) Should have capability for 5 lead placement and 12-lead ECG data can be measured by standard lead placement, should have pacer detector sync with the pacing signal.	Should have capability for 5 lead placement and 12-lead ECG data can be measured by 10 lead ECG placement, should have pacer detector sync with the pacing signal.	Request to change the specifications for wider participation.	No Change
S.No. 1	Pulse Oximetry: (a) Masimo Technology	Masimo/equivalent Technology	Nihon Kohden is the inventor of the pulse oximetry technology. It works well in low perfusion and motion artifacts. Hence, we request you to amend the specifications for better patient care and wider participation.	Accepted. Modification: Pulse Oximetry: (a) Masimo/equivalent technology

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S.No. 1	Pulse Oximetry: (f) Should provide pleth variability index.	Request to remove 'Should provide pleth variability index.'	PVI is a dynamic preload parameter which is measured from Pulse oximetry waveform which is prone to artefacts hence reliability of the parameter is a question mark. Our monitor measures PPV and SPV which are more reliable than PVI. We request to not ask PVI for better patient monitoring. Please find the link below.	Accepted. Modification: Line removed
	Request to be added: Request you to please add "Monitor should display Pulse Pressure Variation (PPV) and Systolic Pressure variation (SPV) from IBP" for better patient care. Link: https://academic.oup.com/bja/article/110/2/207/227343 https://onlinelibrary.wiley.com/doi/10.1111/pan.13991 https://pubmed.ncbi.nlm.nih.gov/21918163/ https://www.sciencedirect.com/science/article/pii/S0022480421002468			
S.No. 2.B	Monitor should have 15 inch color capacitive TFT display with full touchscreen user interface. Navigation through touchscreen and knob both should be present.	Monitor should have 15-inch color capacitive TFT display with full touchscreen user interface.	Full touchscreen makes the accessibility flawless for the user. So, request to change the specifications for wider participation and better patient care.	No Change
S.No. 2.C	The monitor should be capable of >6 digital and waveform/traces display at a given time.	The monitor should be capable of >14 digital and waveform/traces display at a given time.	More number of waveform and numeric data can be displayed on single screen. So, request to change the specifications for wider participation and better patient care.	No Change

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(Dr. Vikram)

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S.No. 2.G	Monitor must have inbuilt rechargeable battery with minimum backup of 120 minutes or more	Monitor must have inbuilt rechargeable battery with minimum backup of atleast 60 minutes.	Request to change the specifications for wider participation.	No Change
S.No. 2.N	Monitor should provide remote viewing data of each monitor on Mobile/Laptop/Desktop without using any special server.	Monitor should provide remote viewing data of each monitor on Mobile/ Laptop/Desktop.	The asked facility is available with few manufactures only. So, request to change the specifications for wider participation.	No Change
S.No. 2.O	Monitor should have facility to download trend data on USB and SD card	Monitor should have facility to download trend data on USB or SD card	Request to change the specifications for wider participation.	Accepted. Modification: Monitor should have facility to download trend data on USB and/or SD card
S.No. 2	ECG Parameter: (a) Should have capability for 5 lead placement and 12-lead ECG data can be measured by standard lead placement, should have pacer detector sync with the pacing signal.	Should have capability for 5 lead placement and 12-lead ECG data can be measured by 10 lead ECG placement, should have pacer detector sync with the pacing signal.	Request to change the specifications for wider participation.	No Change
S.No. 2	Pulse Oximetry: (a) Masimo Technology	Masimo/equivalent Technology	Nihon Kohden is the inventor of the pulse oximetry technology. It works well in low perfusion and motion artifacts. Hence, we request you to amend the specifications for better patient care and wider participation.	Accepted. Modification: Pulse Oximetry: (a) Masimo Technology/equivalent technology

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S.No. 2	Pulse Oximetry: (g) Should provide pleth variability index.	Request to remove 'Should provide pleth variability index.'	PVI is a dynamic preload parameter which is measured from Pulse oximetry waveform which is prone to artefacts hence reliability of the parameter is a question mark. Our monitor measures PPV and SPV which are more reliable than PVI. We request to not ask PVI for better patient monitoring. Please find the link below.	Accepted. Modification: Line removed
	<p>To be added: Request you to please add "Monitor should display Pulse Pressure Variation (PPV) and Systolic Pressure variation (SPV) from IBP" for better patient care. Link: https://academic.oup.com/bja/article/110/2/207/227343 https://onlinelibrary.wiley.com/doi/10.1111/pan.13991</p>			
PHILIPS INDIA LIMITED				
S.No. 4 (accessories)	Rack-based syringe pumps — total 50 Nos. with 18 Nos. rack	Rack-based syringe pumps — total 50 Nos. with 18 Nos 5 slot rack	5 slots rack will have the capability to connect 5 syringes at one time.	Accepted. Modification: Rack-based syringe pumps — total 50 Nos. with 15 Nos. 5 slot rack
S.No. 4 (accessories)	To be added	1. Ventilator Make, & to model quantity to be mentioned for integration 2. ABG machine Make model & quantity to be mentioned	This will help in in quoting exact no of drivers and third party equipments.	Accepted. Modification: Ventilator Make - Vyair Medical Private Limited Model- Bellavista 1000 ABG Make- Siemens Model- RP 500e

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Payment Terms	As per gem	Request to make payments terms as letter of credit	This will help OEM to quote tenders in USD and will reduce cost of Tender. principal company will participate directly as payment terms will be secured	
DocBox/ Surgical Systems				
Integrated Automated Charting System- Sr.27	Provision of hardware, servers, switching networking including 27. fiber-optic cabling and switching where necessary), input devices (including all PC, Bedside interface should be MS Windows-based device, with mounting at each bedside to be provided)	Provision of hardware, servers, switching networking including fiber-optic cabling and switching where necessary), input devices (including all PC, Bedside interface should be MS Windows-based device / LINUX with mounting at each bedside to be provided)	Linux operating system is more secured and safer against cyber attacks and one can host any third-party applications on linux based.	No Change

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(Dr. Vikram)
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