



सत्यमेव जयते

अखिल भारतीय आयुर्विज्ञान संस्थान , बिलासपुर  
हिमाचल प्रदेश -१७४००१  
All India Institute of Medical Sciences, Bilaspur  
Himachal Pradesh-174001  
<https://aiimsbilaspur.edu.in>



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- Draft -

Document No. AIIMS-BLS/G/2023/57-PART-A

Date: 16/01/26

**Call for Objection Notice**  
**(Under Rule-166 of GFR 2017)**

**Subject:** - "Call for objection against procurement of "High End Multipara Monitors, Model IACS C500, IACS C700)" for Deptt. of CTVS, AIIMS Bilaspur under Proprietary (PAC). Where OEM is M/s Draeger India Pvt. Ltd. having registered office at 10<sup>th</sup> Floor Commerz II, International Business Park Oberoi Graden city, Off Western Express Highway Goregaon (East) Mumbai-400063.

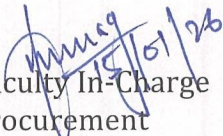
**Reference:** -File no. AIIMS-BLS/(G)/2023-157, Procurement of High-End Multipara Monitors, Model IACS C500, IACS C700) for Deptt. of CTVS, AIIMS Bilaspur under proprietary article.

The Department of CTVS, AIIMS Bilaspur intends to procure High-End Multipara Monitors, Model IACS C500 and IACS C700, on a proprietary article basis in terms of Rule 166 of GFR-2017, as the said models are compatible with the existing Infinity Central Monitoring Station. Accordingly, the procurement is proposed to be made directly from M/s Carewell Medical Systems having registered office at F-469, Phase 8-B Industrial Area SAS Nagar Mohali 160055 Punjab India an authorised dealer/distributor/agent of M/s Draeger India Pvt. Ltd. having registered office at 10<sup>th</sup> Floor Commerz II, International Business Park Oberoi Graden city, Off Western Express Highway Goregaon (East) Mumbai-400063. for High End Multipara Monitors, Model IACS C500, IACS C700) which satisfies all requirement of being a proprietary item.

Relevant documents are published on institute website for inviting objection(s)/claim(s)/comment(s), if any, form eligible manufacturer/supplier, before accepting the claim of earlier said manufacturer and accordingly making procurement under proprietary article.

Objection(s)/Claim(s)/Comment(s), should be sent to the office of Faculty In-charge, Procurement, AIIMS Bilaspur (H.P.) in a sealed envelope with above mentioned subject & reference number or by e-mail at [storeofficer@aiimsbilaspur.edu.in](mailto:storeofficer@aiimsbilaspur.edu.in) within 21 days from the date of publication of this notice i.e. on or before 06/02/2026 upto 05:00PM.

Failing which it will be presumed that no manufacturer/supplier has any objection/ claim against above said consumable/equipment/article & same will be consider as proprietary article and case will be decided on merits.

  
Faculty In-Charge  
Procurement  
AIIMS, Bilaspur (H.P)

Enclosure: -

- PAC by Manufacturer/OEM
- Authorization certificate by Manufacturer/OEM
- PAC by indenting department
- List of items along with specification and other details

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES

BILASPUR, H.P

PAC Committee

File No: AIIMS-BLS/GI/2023-157 Part A

Date: 18/12/2025

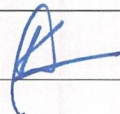
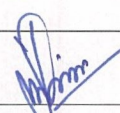
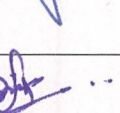
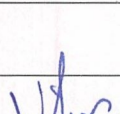
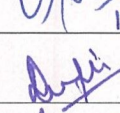
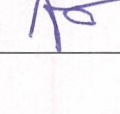
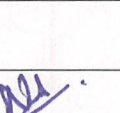
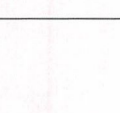

Time: 10:15 AM

Venue: MS Office

Recommendations:

Based on screening by the PAC committee of the documents provided by the dept. of CTVS, the committee certifies that the item 'High End Multipara Monitors' can be considered to be proprietary in nature. The validity of PAC items is up to 17/12/2028.

Recommended by:

Sr. No.	Name	Designation	Role	Signatures
1.	Dr. Dinesh Kumar Verma	Professor-cum-Officiating MS	Chairperson	
2.	Dr. Poojan Dogra Marwaha	Professor	Vice Chairperson	
3.	Dr. Yatiraj Singi	Professor	Member	
4.	Dr. Ajay Jaryal	Additional Professor	Member	
5.	Dr. Puneet Kumar Gupta	Additional Professor	Member	
6.	Dr. Manu Priya	Additional Professor	Member	
7.	Dr. Vikas Kumar	Associate Professor	Member	
8.	Dr. Deepti Malik	Associate Professor	Member Secretary	
9.	Dr. Arjun Dhar	Associate Professor	Member	
10.	Dr. Preyander Singh Thakur	Associate Professor	Member	
11.	Dr. Amit Kumar Salaria	Assistant Professor	Member	
12.	Dr. Nikita Sharma	Assistant Professor	Member	

Date: 28.11.2025

To,  
The Executive Director,  
All India Institute of Medical Sciences,  
Bilaspur Himachal Pradesh—174001

Sub: PAC certificate

Dear Sir,

We, Draeger India Private Limited a wholly owned subsidiary of Draegerwerk AG and Co KGaA, Germany having registered office at 10th Floor, Commerz II, International Business Park, Oberoi Garden City, Off Western Express Highway, Goregaon (East) Mumbai-400063, certify that our Infinity Central Monitor Station is compatible with our patient monitor Model: IACS C500, IACS C700 only. It is not compatible with any other make patient monitors.

This is for your information and records

Yours faithfully,

For and on behalf of

M/s Draeger India Pvt. Ltd.

  
Authorized Signatory

REGISTERED OFFICE  
Draeger India Private Limited  
CIN: U51607MH2004FTC143991  
10th Floor, Commerz II,  
International Business Park, Oberoi Garden City,  
Off Western Express Highway,  
Goregaon East, Mumbai, MH - 400 063  
www.draeger.com  
Tel: +91 22 6133 5600  
Email: [customer@india.draeger.com](mailto:customer@india.draeger.com)  
www.draeger.com

WAREHOUSE  
Draeger India Private Limited  
Shed No. 6, Survey No. 42,  
Village Deodai, Taluka: Vasai,  
District: Palghar,  
Maharashtra - 401205

BRANCH OFFICE  
Ahmedabad | Bengaluru | Chennai |  
Kochi | Kolkata | Lucknow | New Delhi | Pune

Date: 09.12.2025

To  
The Executive Director  
All India Institute of Medical Sciences (aiims)  
Bilaspur-174001  
Himachal Pradesh

**Sub: Authorization Certificate**

Dear Sir/Madam,

We, **Draeger India Private Limited**, a wholly owned subsidiary of **Draegerwerk AG and Co KGaA, Germany**, having registered office at **10th Floor, Commerz II, International Business Park, Oberoi Garden City, Off Western Express Highway, Goregaon (East) Mumbai- 400063**, certify that we are fully authorized to conduct business in India for **High End Multipara Monitors (Model: IACS C500, IACS C700)** manufactured by **Draegerwerk AG and Co KGaA** and **Integrated Automated Charting System, D'Assist Software (Model: D'Assist RTOW Charting Solution)** developed by us.

We hereby authorize **M/s Carewell Medical Systems**, having registered office at **# F-469, Phase 8-B, Industrial Area, SAS Nagar, Mohali 160 055 (Punjab), India** to participate in the above-mentioned bid on **GeM (Govt e-Marketplace)** in its own name and on its own account for **High End Multipara Monitors (Model: IACS C500, IACS C700)** manufactured by **Draegerwerk AG and Co KGaA** and **Integrated Automated Charting System, D'Assist Software (Model: D'Assist RTOW Charting Solution)**.

Yours faithfully,

For and on behalf of

**M/s Draeger India Pvt. Ltd.**

  
Authorized Signatory

REGISTERED OFFICE

Draeger India Private Limited  
CIN: U51507MH2004FTC143991  
10th Floor, Commerz II,  
International Business Park, Oberoi Garden City,  
Off Western Express Highway,  
Goregaon East, Mumbai, MH - 400 063  
www.draeger.com  
Tel: +91 22 6135 5600  
Email: [customerserviceindia@draeger.com](mailto:customerserviceindia@draeger.com)  
www.draeger.com

WAREHOUSE

Draeger India Private Limited  
Shed No. 6, Survey No. 42,  
Village Deodal, Taluka. Vasai,  
District: Palghar,  
Maharashtra - 401 208

BRANCH OFFICE

Ahmedabad | Bengaluru | Chennai |  
Kochi | Kolkata | Lucknow | New Delhi | Pune

Date: 28.11.2025

To,  
The Executive Director,  
All India Institute of Medical Sciences,  
Bilaspur Himachal Pradesh—174001

**Sub: Rate Reasonability**


Dear Sir,

We, **Draeger India Private Limited** a wholly owned subsidiary of **Draegerwerk Ag and Co KGaA, Germany** having registered office at **10th Floor, Commerz II, International Business Park, Oberoi Garden City, Off Western Express Highway, Goregaon (East) Mumbai-400063**, are submitting an undertaking that if it supplies or quotes a lower rate to other governments, public sector or private organizations it would reimburse the excess.

Yours faithfully,

For and on behalf of

**M/s Draeger India Pvt. Ltd.**

  
Authorized Signatory

REGISTERED OFFICE  
Draeger India Private Limited  
CIN: U51607MH2004FTC143991  
10th Floor, Commerz II,  
International Business Park, Oberoi Garden City,  
Off Western Express Highway,  
Goregaon East, Mumbai, MH - 400 063  
www.draeger.com  
Tel: +91 22 6133 5600  
Email: [customerscareindia@draeger.com](mailto:customerscareindia@draeger.com)  
www.draeger.com

WAREHOUSE  
Draeger India Private Limited  
Shed No. 6, Survey No. 42,  
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District: Palghar,  
Maharashtra - 401 208

BRANCH OFFICE  
Ahmedabad | Bengaluru | Chennai |  
Kochi | Kolkata | Lucknow | New Delhi | Pune

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**Institute Level Technical Specifications Review Committee (TSRC)  
All India Institute of Medical Sciences, Bilaspur  
Himachal Pradesh- 174001  
Email:-[tsrcaimsbls@gmail.com](mailto:tsrcaimsbls@gmail.com)**

No: AIIMS/BLS/TSRC/2025/46

Dated: 24-07-2025

**Minutes of Meeting**

The meeting for the vetting of specifications for equipment/ instruments to be purchased for various Departments at AIIMS Bilaspur was held in the Medical Superintendent Office at 02:30 PM on 23<sup>rd</sup> July, 2025. The following members were present in the meeting:-

Name	Designation	Role	Signatures
Dr. Dinesh Kumar Verma	Medical Superintendent	Chairman	
Dr. Chanderdeep Sharma	Associate Professor, Department of Obs & Gynae	Vice Chairperson	
Dr. Naveen Kumar	Associate Professor, Department of Pediatrics	Member Secretary	
Dr. Varun Bansal	Assistant Professor, Department of Radiodiagnosis	Member Secretary	- Attended on leave
Dr. Sumita Sharma	Additional Professor, Department of Biochemistry	Member	
Dr. Tarun Sharma	Associate Professor, Department of Medicine	Member	
Dr. Mohim Thakur	Associate Professor, Department of Surgery	Member	
Dr. Priti Agarwal	Professor, Department of Microbiology	Special invitee	
Dr. Vijayalakshmi Sivapurapu	Additional Professor, Department of Anesthesiology	Special invitee	
Dr. Nalini	Associate Professor, Department of Neonatology	Special invitee	
Dr. Ranjeet Choudhary	Associate Professor, Department of Orthopedics	Special invitee	
Dr. Vikas Kumar	Associate Professor, Department of CTVS	Special invitee	
Dr. Rakesh Kumar	Associate Professor, Department of Transfusion Medicine & Blood Centre	Special invitee	
Dr. Neelam Verma	Associate Professor, Department of Ophthalmology	Special invitee	
Dr. Anurag Sankhyan	Associate Professor, Department of Biochemistry	Special invitee	
Dr. Sandeep Singh Sen	Assistant Professor, Department of Pediatric Surgery	Special invitee	
Dr. Navdeep Singh Sidhu	Assistant Professor, Department of Cardiology	Special invitee	
Dr. Uma Kant Dutt	Assistant Professor, Department of Urology	Special invitee	

After thorough deliberation

Sr. No.	Name of Department	Equipment
I.	Clarifications and amendments on the representations received after pre-bid of various equipments were reviewed in TSRC and vetting was done after concurrence on amendments from the external experts for following files.	
1.	ANESTHESIOLOGY	VIDEO LARYNGOSCOPE WITH FLEXIBLE INTUBATION VIDEOSCOPE
2.	CTVS	INTEGRATED CHARTING SYSTEM- 06 No.
3.		HIGH-END MULTIPARA MONITOR -08 No.
II.	TSRC vetted the specification amendments of Pre-bid (Minor changes) for following files.	
4.	ORTHOPEDICS	ENDOSCOPIC SPINE SYSTEM
III.	External Experts & TSRC vetted the specifications for following files.	
5.	TRANSFUSION MEDICINE	AUTOMATED BLOOD COMPONENT EXTRACTOR -01No.

6.	GENERAL SURGERY	BARIATRIC OT TABLE -01No.
7.	NEONATOLOGY	INCUBATOR- 03No.
8.	CTVS	PORTABLE USG FOR CTVS-03No.
IV.	<b>TSRC vetted the specifications of following Non-DPR items costing more than (and equal to) 30 lacs and process of vetting from external experts was initiated.</b>	
9.	BIOCHEMISTRY	AUTOMATED NEW BORN SCREENING SET UP
10.	NEONATOLOGY	SYRINGE INFUSION PUMP- 20 No.
11.	CARDIOLOGY	INTRAVASCULAR USG SYSTEM
12.		ECHO CARDIOGRAPHY MACHINE
13.	PEDIATRIC SURGERY + OBG + UROLOGY + ENT	ADVANCE BIPOLAR & ULTRASONIC ENERGY GENERATOR
V.	<b>TSRC vetted the specifications of following Non-DPR items costing less than 30 lacs.</b>	
14.	BIOCHEMISTRY	BIOSAFETY CABINET CLASS II
15.	MICROBIOLOGY	REAL TIME PCR MACHINE
16.	UROLOGY	SEMI RIGID URETEROSCOPE -02No.
VI.	<b>Following files are returned back to the Department for various reasons.</b>	
17.	UROLOGY	RADIOFREQUENCY GENERATOR WITH VESSEL SEALING DEVICE
18.		EXTRA CORPOREAL SHOCK WAVE THERAPY
19.	IT CELL	SMART TVs - 40No.
VII.	<b>Process of Re-vetting/Corrigendum vetting after pre bid or external expert comments was initiated for following files.</b>	
20.	UROLOGY	LAP Set 2D/3D, HD
21.	TRANSFUSION MEDICINE & BLOOD CENTRE	BLOOD COMPONENT CENTRIFUGE -02No.
22.	OPHTHALMOLOGY	EYESI SURGERY SIMULATOR

Following the meeting regarding the vetting of equipment specifications, the following key points were also agreed upon by:

- 1a. Incomplete files without Annexure I and II will be returned to the user department by the Member Secretary TSRC.  
In cases where multiple external experts are involved in vetting, verification on separate sheets is acceptable. However, it will be the responsibility of the user department to review the technical specifications line by line and ensure that the specifications on these separate sheets are the same.
2. Issue of re-vetting of specifications by external experts after pre-bid meet was discussed and will be circulated among all faculties.

Dr. Dinesh Kumar Verma  
Chairperson

Dr. Chandrdeep Sharma  
Vice Chairperson

Dr. Naveen Kumar  
Member Secretary

Dr. Sumita Sharma  
Member

Dr. Varun Bansal  
Member Secretary

Dr. Tarun Sharma  
Member

Dr. Mohan Thakur  
Member

Dr. Priti Agarwal  
Special Invitee

Dr. Vijayalakshmi Sivapurapu  
Special Invitee

Dr. Nalini  
Special Invitee

Vikas Kumar  
Special Invitee

Neelam Verma  
Special Invitee

Dr. Anurag Sankhyan  
Special Invitee

Dr. Rakesh Kumar  
Special invitee

Dr. Ranjeet Choudhary  
Special invitee

Dr. Sandeep Singh Sen  
Special invitee

Dr. Navdeep Singh Sidhu  
Special Invitee

Dr. Uma Kant Dutt  
Special Invitee

Copy to :-

1. The Executive Director, AIIMS Bilaspur for kind information please.
2. The DDA, AIIMS Bilaspur for kind information please.
3. All the members concerned for information and compliance please.



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TECHNICAL SPECIFICATIONS FOR HIGH-END ADVANCED MULTIPARA MONITORS FOR THE DEPARTMENT OF CARDIOTHORACIC SURGERY, AIIMS, BILASPUR, H.P.

I) High-end Advanced Multipara Monitors (with continuous cardiac output monitoring)

Quantity: 06 Nos.

A) GENERAL FEATURES

- 1) High end modular monitor with ability to perform cardiorespiratory monitoring of adults, pediatric and neonates.
- 2) Monitor should have minimum 19-inch colour capacitive TFT display with full touch screen user interface. Navigation through touch screen and/or knob should be present.
- 3) The monitor should be capable of >6 digital and waveforms/ traces display at a given time.
- 4) The monitor should be wall mountable.
- 5) Facility to monitor and display following parameters – ECG, NIBP, SpO2, Respiration, EtCO2, IBP and Temperatures.
- 6) Data storage capability upto 48 hours minimum.
- 7) Monitor must have inbuilt rechargeable battery with minimum backup of 120 minutes or should have UPS
- 8) Should have a transport monitor module with screen size of atleast 4 inches
- 9) Monitor shall provide the capability to interact with alarms at remote bedside monitor.
- 10) Monitor shall provide the capability to receive and display real-time waveforms, alarm status from other bedside on the patient monitoring network.
- 11) Monitor shall provide the capability to enter patient information at the bedside or central monitor.
- 12) Alarm limit status (ON/OFF) must be indicated on-screen for each parameter and actual parameter alarm settings must be displayed on-screen when alarms are on.
- 13) Machine must have facility for alarm escalation in case nursing staff miss the alarm
- 14) Monitor should provide remote viewing data of each monitor on Mobile / Laptop/ Desktop without using any special server.
- 15) Monitor should have facility to download trend data on USB and/or SD card.

B) ECG PARAMETERS

- 1) Should have capability for 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
- 2) Should have built in ST segment analysis and advance arrhythmia monitoring on all leads
- 3) HR monitoring range 20 - 300 BPM
- 4) Heart rate /Pulse rate: Source selection facility from Automatic, Spo2.
- 5) Automatic arrhythmia detection & alarm for standard & lethal arrhythmia
- 6) Should have a filter function to filter out the electrical disturbances

C) PULSE OXIMETRY

- 1) Masimo or equivalent technology.
- 2) SpO2 Range – 0 to 100%
- 3) Should be sensitive and function accurately in low perfusion states
- 4) Should display plethysmography waveform
- 5) The probe should preferably be of Rubber type to fit snugly onto the finger.

D) RESPIRATION PARAMETERS

- 1) Should display waveform of respiration

*Verified*  
*[Signature]*  
 23/6/25

*[Signature]*  
 [Faint text]

Professor & Head  
 Department of Cardiovascular & Thoracic Surgery  
 PGIMER, Chandigarh  
 Page 1 of 6

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- 2) Respiration rate measurement range 0-150 breaths per minute or more
- 3) Minimum gradation of respiratory measurement 1 breaths per minute or better
- 4) User selectable apnea alarm time

E) EtCO<sub>2</sub> MONITORING

- 1) Mainstream/microstream/sidestream EtCO<sub>2</sub> sensor, which can be used on both intubated and/or non-intubated patients.
- 2) CO<sub>2</sub> Measuring range 0 to 99 mm Hg or better

F) NIBP PARAMETERS

- 1) Measurement and display of systolic/ diastolic and mean pressure values of NIBP measurement for adult, pediatric & neonate.
- 2) Mode: Manual (1-120 mins intervals), STAT (continuous 5 minutes operation) and automatic.
- 3) Cuff pressure range 20-250 mmHg.
- 4) BP cuffs should be latex free, washable with artery indicator for proper placement

G) INVASIVE PRESSURE MONITORING

- 1) Provision of simultaneous measurement of minimum 3 invasive pressures
- 2) Measuring range 0- 300 mm Hg
- 3) Accuracy upto ± 1 mm Hg at pressures < 100 mm Hg and ± 2 mm Hg at pressures > 100 mm Hg
- 4) Display: Waveform and numeric

H) CARDIAC OUTPUT MONITORING

- 1) Continuous Cardiac output measurement module should be present

I) TEMPERATURE PARAMETERS

- 1) Should be able to record two temperatures
- 2) Temperature probes should be reusable
- 3) Temperature probe range should be atleast 30-40 degree
- 4) Minimum gradation of temp probe should be 0.1 degree C or better with accuracy of ±1% or better
- 5) Continuous and simultaneous digital display of two site temperatures should be available

J) NETWORKING PARAMETERS

- 1) Should be hardwired and have ethernet port
- 2) Should have connectivity with the network printer
- 3) Networking to the Central Monitoring Station must be there. It must be compatible with the existing Central Monitoring Station monitor of the make of Drager Pvt. Ltd.

K) POWER SUPPLY

- 1) Power input to be 220 - 240 VAC, 50Hz fitted with plug compatible with Indian electric sockets.
- 2) Should have voltage corrector/ stabilizer of appropriate ratings meeting ISI Specifications (input 160 - 260 V and output 220 - 240V and 50 Hz)
- 3) Mains cable should be minimum 3m long with Indian plug

L) OTHERS

Verified 23/6/25

Dr. Vikas K. Mittal  
 Professor & Head  
 Dept. of Cardiovascular & Thoracic Surgery  
 PGIMER, Chandigarh

Dr. Vikas K. Mittal  
 Professor & Head  
 Dept. of Cardiovascular & Thoracic Surgery  
 PGIMER, Chandigarh

Dr. Vikas K. Mittal  
 Professor & Head  
 Dept. of Cardiovascular & Thoracic Surgery  
 PGIMER, Chandigarh

Dr. Vikas K. Mittal  
 Professor & Head  
 Dept. of Cardiovascular & Thoracic Surgery  
 PGIMER, Chandigarh

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- 1) Should be upgradeable to BIS/Entropy, EEG, AEEG, BIS, Neuromuscular Transmission (NMT), Spirometry, ScVO<sub>2</sub>, Transcutaneous PO<sub>2</sub> and PCO<sub>2</sub>, and Anesthetic Gas Module (AGM)
- 2) Patient monitoring network shall use standard TCP/IP protocol and be capable of residing on hospital's network infra-structure.
- 3) Should be compatible with Integrated Automated Charting System and the company must share there integration/communication protocol at the time of installation of the equipment.
- 4) Should have latest US FDA/European CE certification/ISO/CDSCO certification
- 5) Warranty: Minimum 2 years

M) ACCESSORIES with each monitor:


- 1) 5 lead ECG/Respiration cable: 2 Nos.
- 2) NIBP Cuff Adult, Paediatric & Neonate: 3 Nos. each
- 3) SpO<sub>2</sub> Sensor Adult with intermittent cable: 2 Nos.
- 4) SpO<sub>2</sub> sensor Paediatric with intermittent cable: 2 Nos.
- 5) SpO<sub>2</sub> sensor Infants/Neonates with intermittent cable: 2 Nos.
- 6) Mainstream EtCO<sub>2</sub> cable, if applicable: 2 Nos.
- 7) EtCO<sub>2</sub> sampling lines, if applicable: 10 Nos.
- 8) Invasive & non-invasive adaptor for EtCO<sub>2</sub>: 5 Nos. each
- 9) IBP Cable: 3 Nos.
- 10) IBP transducers: 30 Nos.
- 11) Skin and Rectal Temp Probe: 2 Nos. each


II) High-end Advanced Multipara Monitor (without continuous cardiac output monitoring)

Quantity: 02

A) GENERAL FEATURES

- 1) High end modular monitor with ability to perform cardiorespiratory monitoring of adults, pediatric and neonates.
- 2) Monitor should have minimum 15 inch colour capacitive TFT display with full touch screen user interface. Navigation through touch screen and/or knob should be present.
- 3) The monitor should be capable of >6 digital and waveforms/ traces display at a given time.
- 4) The monitor should be wall mountable.
- 5) Facility to monitor and display following parameters – ECG, NIBP, SpO<sub>2</sub>, Respiration, EtCO<sub>2</sub>, IBP and Temperatures.
- 6) Data storage capability upto 48 hours minimum.
- 7) Monitor must have inbuilt rechargeable battery with minimum backup of 120 minutes or more
- 8) Should have a transport monitor module with screen size of atleast 4 inches
- 9) Monitor shall provide the capability to interact with alarms at remote bedside monitor.
- 10) Monitor shall provide the capability to receive and display real-time waveforms, alarm status from other bedside on the patient monitoring network.
- 11) Monitor shall provide the capability to enter patient information at the bedside or central monitor.
- 12) Alarm limit status (ON/OFF) must be indicated on-screen for each parameter and parameter alarm settings must be displayed on-screen when alarms are on.
- 13) Machine must have facility for alarm escalation in case nursing staff miss the alarm
- 14) Monitor should provide remote viewing data of each monitor on Mobile / Laptop/ Desktop without using any special server.

Vetted  
  
 23/6/25  
 प्राचार्य एवं निभागाध्यक्ष  
 Professor & Head  
 Department of Cardiovascular & Thoracic Surgery  
 PGIMER, Chandigarh

  
 Dr. Lakhvir Singh  
 Associate Professor  
 Dept. of Cardiovascular Surgery  
 PGIMER, Chandigarh

Dr. Lakhvir Singh  
 Associate Professor  
 Dept. of Cardiovascular & Thoracic Surgery  
 PGIMER, Chandigarh  
 Page 3 of 6

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15) Monitor should have facility to download trend data on USB and/or SD card.

B) ECG PARAMETERS

- 1) Should have capability for 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
- 2) Should have built in ST segment analysis and advance arrhythmia monitoring on all leads
- 3) HR monitoring range 20 - 300 BPM
- 4) Heart rate /Pulse rate: Source selection facility from Automatic, Spo2.
- 5) Automatic arrhythmia detection & alarm for standard & lethal arrhythmia
- 6) Should have a filter function to filter out the electrical disturbances

C) PULSE OXIMETRY

- 1) Masimo/equivalent technology.
- 2) SpO2 Range - 0 to 100%
- 3) Should be sensitive and function accurately in low perfusion states
- 4) Should display plethysmography waveform
- 5) The probe should preferably be of Rubber type to fit snugly onto the finger

D) RESPIRATION PARAMETERS

- 1) Should display waveform of respiration
- 2) Respiration rate measurement range 0-150 breaths per minute or more
- 3) Minimum gradation of respiratory measurement 1 breaths per minute or better
- 4) User selectable apnea alarm time

E) EtCO<sub>2</sub> MONITORING

- 1) Mainstream/microstream/sidestream EtCO<sub>2</sub> sensor, which can be used on both intubated and/or non-intubated patients.
- 2) CO<sub>2</sub> Measuring range 0 to 99 mm Hg or better

F) NIBP PARAMETERS

- 1) Measurement and display of systolic/ diastolic and mean pressure values of NIBP measurement for adult, pediatric & neonate.
- 2) Mode: Manual (1-120 mins intervals), STAT (continuous 5 minutes operation) and automatic.
- 3) Cuff pressure range 20-250 mmHg.
- 4) BP cuffs should be latex free, washable with artery indicator for proper placement

G) INVASIVE PRESSURE MONITORING

- 1) Provision of simultaneous measurement of minimum 3 invasive pressures
- 2) Measuring range 0- 300 mm Hg
- 3) Accuracy upto  $\pm 1$  mm Hg at pressures < 100 mm Hg and  $\pm 2$  mm Hg at pressures > 100 mm Hg
- 4) Display: Waveform and numeric

H) CONTINUOUS CARDIAC OUTPUT MONITORING

- 1) Not required

I) TEMPERATURE PARAMETERS

- 1) Should be able to record two temperatures
- 2) Temperature probes should be reusable
- 3) Temperature probe range should be atleast 30-40 degree

Verified

Signature and stamp of a medical professional.

Signature and stamp of a medical professional.

Dr. Lakshmi Kumari Sandhyar  
 Professor & Head  
 Department of Cardiovascular & Thoracic Surgery  
 PGIMER, Chandigarh

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- 4) Minimum gradation of temp probe should be 0.1 degree C or better with accuracy of  $\pm 1\%$  or better
- 5) Continuous and simultaneous digital display of two site temperatures should be available

J) NETWORKING PARAMETERS

- 1) Should be hardwired and have ethernet port
- 2) Should have connectivity with the network printer
- 3) Networking to the Central Monitoring Station must be there. It must be compatible with the existing Central Monitoring Station of the make of Drager Pvt. Ltd.

K) POWER SUPPLY

- 1) Power input to be 220 - 240 VAC, 50Hz fitted with plug compatible with Indian electric sockets.
- 2) Should have voltage corrector/ stabilizer of appropriate ratings meeting ISI Specifications (Input 160 - 260 V and output 220 - 240V and 50 Hz)
- 3) Mains cable should be minimum 3m long with indian plug

L) OTHERS

- 1) Should be upgradeable to BIS/Entropy, EEG, AEEG, BIS, Neuromuscular Transmission (NMT), Spirometry, ScVO<sub>2</sub>, Transcutaneous PO<sub>2</sub> and PCO<sub>2</sub>, and Anesthetic Gas Module (AGM)
- 2) Patient monitoring network shall use standard TCP/IP protocol and be capable of residing on hospital's network infra-structure.
- 6) Should be compatible with integrated Automated Charting System and the company must share there integration/communication protocol at the time of installation of the equipment.
- 3) Should have latest US FDA/European CE certification/ISO/CDSCO certification
- 4) Warranty: Minimum 2 years

M) ACCESSORIES with each monitor:

- 1) 5 lead ECG/Respiration cable: 2 Nos.
- 2) NIBP Cuff Adult, Pediatric & Neonate: 3 Nos. each
- 3) SpO<sub>2</sub> Sensor Adult with intermittent cable: 2 Nos.
- 4) SpO<sub>2</sub> sensor Pediatric with intermittent cable: 2 Nos.
- 5) SpO<sub>2</sub> sensor infants/neonates with intermittent cable: 2 Nos.
- 6) Mainstream EtCO<sub>2</sub> cable, if applicable: 2 Nos.
- 7) EtCO<sub>2</sub> sampling lines, if applicable: 20 Nos.
- 8) Invasive & non-invasive Adaptor for EtCO<sub>2</sub>: 5 Nos. each
- 9) IBP Cable: 2 Nos.
- 10) IBP transducers: 30 Nos.
- 11) Skin and Rectal Temp Probe: 2 Nos. each

III) OTHER ACCESSORIES

- 1. Laptops at bedside (to be fixed) with Microsoft office 2021 or latest - 08 Nos.; Minimum 15-inch, i5 or latest processor, atleast 500 GB HDD and 8 GB RAM
- 2. Resident Room laptop (same configuration as in clause (1) above) with lockable wheeis mobile cart - 01 Nos.
- 3. Laser printer (all-in-one printer, scanner, and copier; wifi enabled with auto-duplex printing features) - 01 Nos.

*(Handwritten Signature)*  
**Professor & Head**  
 Deptt. of Cardiovascular & Thoracic Surgery  
 पी.जी.आई.एच.एच.ए.ए. चण्डीगढ़  
**PGIMER, Chandigarh**

*(Handwritten Signature)*  
**Dr. Lakshmi Kumari Sandhu**  
 Assistant Professor  
 Deptt. of Cardiothoracic Surgery  
 PGIMER, Chandigarh  
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IV) GENERAL CLAUSE FOR ALL THE EQUIPMENT

- 1) **Warranty:** 2 years with software upgrades to be provided within the next ten years for the same platform within the originally installed hardware.
- 2) All software updates till the period of 5 years to be provided free of cost
- 3) **CMC:** All inclusive, unconditional Comprehensive maintenance contract (CMC) as per terms and conditions of AIIMS, Bilaspur, H.P. should be quoted separately for 3-10 years.
- 4) Warranty and CMC should include all accessories (except as mentioned in Clause 5 below), batteries and 3rd party items also.
- 5) Company service engineer should pay 6 monthly preventive maintenance visit.
- 6) The firm will be responsible for installing the system as desired by the user department.
- 7) All technical specifications accepted in compliance statement must be supported by the printed literature from the manufacturer.
- 8) Physical demonstration of the system for compliance of specifications and operational capabilities must be done at AIIMS, Bilaspur, H.P., if required. If the company/bidder fails to provide physical demonstration of the product on request by the buyer, the product would be liable for rejection.
- 9) Prices of consumables should be quoted separately and frozen for next 10 years
- 10) All software and antiviruses should be upgraded from time to time during next 10 years.
- 11) Price list of all modules and accessories to be quoted separately and price frozen for 10 years.
- 12) Demonstration of equipment and training to all users must be provided after completing supplies before acceptance.
- 13) The principal manufacturer must have direct presence or an approved service centre in India.
- 14) The company should have 24/7 tollfree customer care number for support
- 15) The entire system should have latest US FDA/European CE/CDSCO/ISO certification

Specifications prepared by  
P/C/CTUS and forwarded  
by Administrative HO

Medical Superintendent  
AIIMS, Bilaspur (H.P.)

Dr. Lalit Mohan Kumar  
Assistant Professor  
Dept. of Cardiology  
AIIMS, Bilaspur  
Page No. 6/6

Vetted

03/06/20

Professor & Head  
Dept. of Cardiovascular & Thoracic Surgery  
पी.जी.आई.एम.ई.आई., चण्डीगढ़  
PGIMER, Chandigarh



Date: 17.01.2025

To,  
The Executive Director,  
All India Institute of Medical Sciences,  
Bilaspur Himachal Pradesh-174001

**Sub: Authorization Letter of our authorized Channel Partner**

Dear Sir

We, **Draeger India Private Limited**, a wholly owned subsidiary of Draegerwerk AG and Co KGaA, Germany, having registered office at 10th Floor, Commerz II, International Business Park, Oberoi Garden City, Off Western Express Highway, Goregaon (East) Mumbai- 400063, certify that we are fully authorized to conduct business in India for Patient Monitor (Model: IACS C500) and IACS C700 and other products manufactured by Draegerwerk AG and Co KGaA.

We hereby authorize our Channel Partner **M/s. Carewell Medical Systems**, having office at # F-469, Phase 8-B, Industrial Area, SAS Nagar, Mohali 160 055 (Punjab) India to has our explicit permission to bid, negotiate, and conclude.

Yours faithfully,

For and on behalf of  
M/s. Draeger India Private Limited

**Mandeep**

**Dhiman**

Authorized Signatory

Digitally signed  
by Mandeep  
Dhiman

Date: 2025.01.17  
10:59:13 +05'30'

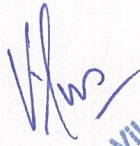
REGISTERED OFFICE  
Draeger India Private Limited  
CIN: U51507MH2004FTC143991  
10<sup>th</sup> Floor, Commerz 2, International Business Park,  
Oberoi Garden City, Off Western Express Highway,  
Goregaon East, Mumbai, MH - 400 063  
www.draeger.com  
Tel: +91 22 0133 5600  
Email: customercareindia@draeger.com


WAREHOUSE  
Draeger India Private Limited  
Shed No. R, Survey No. 42,  
Village Deodai, Taluka: Vasai,  
District: Palghar, Vasai East,  
Maharashtra - 401 208

BRANCH OFFICES  
Ahmedabad | Bengaluru | Chennai  
Kochi | Kolkata | Lucknow | New Delhi

### JUSTIFICATION OF CURRENT PROPOSAL

High-end advanced multipara monitors is required in CTVS ICU for continuous 24\*7 monitoring of the patients vital parameters in pre- and post-operative period. These monitors are indispensable items in the ICU to enhance patient care, improve clinical outcomes, and optimize resource utilization. These monitors provide real-time, comprehensive data on vital parameters such as heart rate, blood pressure, oxygen saturation, cardiac output, and advanced hemodynamic metrics, allowing early detection of complications and rapid intervention. In a cardiac surgical ICU, patients are at high risk for hemodynamic instability and arrhythmias. Advanced monitors equipped with alarm systems, trend analysis, and data integration capabilities ensure precise, continuous monitoring, reducing the risk of adverse events.

  
**Dr. Vikas Kumar**  
Associate Professor  
Deptt. of Cardiothoracic Surgery  
AIMS Himachal (H.P.)  
Regd. No. HPMC 501118

  
**Dr. Lakshmi Kumari Sankhyan**  
Assistant Professor  
Deptt. of Cardiothoracic Surgery  
AIMS, Bilaspur (H.P.)  
Regd. No. HPMC 501118

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Annexure-6

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BILASPUR (H.P.)**

**Proprietary Article Certificate**

(Accessories / Consumables/Equipment/Spares/ Servicing & Maintenance)

(Tick appropriate)

Valid for the Current Financial Year

(Refer Para 4.6.1)

File Number and Date Reference		
1	Description of Service	Equipment
2	Make and Name of the Equipment	Draeger, Integrated Automated Charting System with High-End Multipara monitors
3	Forecast of Quantity/ <del>annual requirement</del>	One
4	Approximate estimated value for above service	Rs 1.6 crore
5	Maker's name and address	Draeger India Pvt Ltd, 10th floor, Commerz 2, International Business Park, Oberoi Garden City, Off Western Express Highway, Goregaon East, Mumbai, MH-400063
6	Name(s) of authorized dealers/ Stockist	Carewell Medical Systems, Plot No. F-469, 3rd floor, Phase 8-B, Industrial Area, Mohali, Punjab- 160071
7	I approve the above purchase on PAC Service basis and certify that: -- Note- Tick to retain only one out of (b), (c-1) or (c2) whichever is applicable and cross out others. Please do confirm (a) by ticking it – without which PAC certificate will be invalid.	
7(a)	This is the only firm who is manufacturing/stocking this item.	<input checked="" type="checkbox"/>
7(b)	A similar article is not manufactured/sold by any other firm, which could be used in lieu OR	<input type="checkbox"/>
7(c)-1)	No other make/brand will be suitable for following tangible reasons (like OEM/warranty spares): OR The existing CNMS is not compatible with ICU monitors of other OEMs	<input checked="" type="checkbox"/>
7(c)	No other make/brand will be suitable for following intangible reasons (if PAC was also given in the last procurement cycle, please also bring out efforts made since then to locate more sources): OR	<input type="checkbox"/>
8	Reference of concurrence of finance wing to the proposal:	.....

History of Similar PAC Equipment/Spares Service of this item for past three years may be given below			
Name of the Supplier			
Order/Tender Reference & Date	Quantity Ordered	Basic Rate on Order (Rs.)	Adverse Performance Reported if Any

*V/w*  
Signature  
**Dr. Vikas Kumar**  
Associate Professor  
Deptt. of Cardiothoracic Surgery  
AIIMS Bilaspur (H.P.)  
Regd. No. HP-692109

*Dr. Dr. Lakshmi Kumari Sankhyan*  
Signature  
Assistant Professor  
Deptt. of Cardiothoracic Surgery  
AIIMS, Bilaspur (H.P.)  
Regd. No. HPMC 501/18

As certified by *CTVS* & forwarded by *admn-101*  
Signature of **Medical Superintendent**  
(Seal)  
AIIMS, Bilaspur (H.P.)  
अ.मा.आ.स. बिलासपुर (हि.प्र.)