



Specifications of Continuous Cardiac Monitoring


1. It should have a touch screen with an active area of 12.1 inches.
2. It should be able to give Continuous Cardiac Output, Stroke Volume (SV), Stroke Volume Index (SVI), Stroke Volume Variation, and Systemic Vascular Resistance (SVR) and Systemic Vascular Resistance Index (SVRI) when used with appropriate dedicated arterial line sensor.
3. Equipment must be of latest and state of art technology.
4. It should have the option to enter manual CVP value for continuous SVR value.
5. It should be capable to predict hypotension through artificial intelligence technology when used with appropriate dedicated sensor. It should give parameters like Dp/Dt & Eadyn for better correlation of Preload, Contractility & After-load for intervention to treat underlying cause of hypotension.
6. It should work on NIRS (Near-infrared Reflectance Spectroscopy) technology to measure cerebral & tissue oximetry with minimum 5 wavelengths and 2.5cm depth of penetration. NIRS sensors should be available for adult, pediatric & neonatal patients.
7. Monitor should display the cerebral & somatic tissue region for correct placement of NIRS sensors.
8. It should have an option of wired & wireless communication.
9. It should have intervention screen to record the interventions and should come with battery back-up
10. It should have display capacity of at least 4 trend lines and 4 numerical display, optional physiology, and physio-relationship screen.


Dr. Mohd. Asim


Dr. Indubala


Dr. Ruchi


Dr. Archana


Dr. Tapas Kumar Singh


FO


JDMM


Nominee of Director


KALYAN SINGH SUPERSPECIALITY CANCER INSTITUTE, LUCKNOW
Department of Anaesthesiology


11. It should have the option of providing dedicated perioperative goal-directed therapy (PGDT) screens and analytics.
12. It should have the option of connectivity with hospital information system.
13. It must save data for at least 24-72 hours.
14. Must have screen shot and data download facility through any USB stick.
15. It should have an HDMI, USB & ETHERNET port for various connectivity.
16. Consumables to be quoted separately and rate should be fixed for two years from the date of order.
17. Monitor should be provided with 1 unit each of Flotrac arterial sensor, HPI technology Acumen sensor and 1 pair of large size NIRS sensor.
18. Should provide 5 years warranty & 5 years CMC thereafter.
19. The equipment should be USFDA approved.


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Add. Prof., HOD, Anaesthesiology,
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Nominee of Director
Dr. Akshay Anand
Prof. General Surgery
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कल्याण सिंह अति विशिष्ट कैंसर संस्थान

C.G. City, Sultanpur Road, Lucknow-226002

सी०जी० सिटी, सुल्तानपुर रोड, लखनऊ- 226002

(An Autonomous Institute of the Govt. of Uttar Pradesh)

(उत्तर प्रदेश सरकार का स्वायत्तशासी संस्थान)

Email: procurement.ksssci@gmail.com

Proprietary Article Certificate (PAC) for Items/Goods

(1) The indented goods are manufactured by
M/s..... Edward Lifesciences

(2) No other make or model is acceptable for the following reasons:

- a) Single monitor with capability of invasive, non-invasive cardiac
- b) Most advanced Near Infrared Spectroscopy (NIRS) with 5 wavelengths
- c) and 2.5cm depth- to measure cerebral and somatic tissue oxygenation measurements.
- c) AI based technology for hypotension prediction.

(Signature of Indentor)

Ruchi
Dr. Ruchi Saxena
Assistant Professor
Department of Anaesthesia
Kalyan Singh Super Specialty
Cancer Institute, Lucknow

(Signature of HOD)

Dr. Nadeem Asim Rashid
Additional Professor & Head
Department of Anaesthesiology
Kalyan Singh Super Specialty
Cancer Institute, Lucknow



Edwards

Proprietary Article Certificate

19th Feb 2025

To whom it may concern:

We hereby certify that **Edwards Lifesciences LLC** located at **One Edwards Way, Irvine, CA 92614 USA** is the sole legal manufacturer of the following device, Moreover, the expected clinical benefit as a package stands true & exclusive from the manufacturer.

Product Information	Technologies/Model no's approved in India
HemoSphere Advanced Monitoring Platform	HEM1, HEM5GM10, HEMOXSC100, HEMPSC100, HEMTOM10, HEMFSM10, HEMCSM10

Clinical Benefit:

The HemoSphere advanced monitoring platform allows you to see and interact with patient hemodynamic Parameters (invasive, minimally invasive & non-invasive)¹. In conjunction with the compatible sensors and predictive decision support software², the Modular³ HemoSphere platform facilitates proactive clinical decision-making and insight for individualized patient care⁴.

1. Continuous CO & CI, iCO, RVEF, EDV, SV, SVI, SVR, SVRI, SVV, CVP, dP/pt, iDown, MAP, MPAP, PPV, PR, SVSatr/SVSpap, SevO2, %O2, Vo2, Vo2e, Vo2i, VO2H, SpO2, OIaArt
2. NPI Hypotension Prediction Index
3. HemoSphere Advanced Monitor with Swiinganz Module, HemoSphere Advanced Monitor with Oximetry cable, HemoSphere Advanced Monitor with pressure cable, HemoSphere Advanced Monitor with HemoSphere Tissue Oximetry Module and ForeSight Elite Tissue Oximeter Module, HemoSphere Advanced Monitor with HemoSphere ClearSight Module
4. GDI-Goal Directed Therapy

All the above statements are considered as reasonably comprehensive at the time based on using various sources of information to ensure the completeness of the information.

Sincerely,

Ramin Aminian
Sr. Specialist, Regulatory Affairs
Edwards Lifesciences LLC

Central Cardiac Monitor

**SANJAY GANDHI POST GRADUATE INSTITUTE OF MEDICAL SCIENCES
LUCKNOW (U.P) INDIA, RAIBARELI RAOD - 226014**

PHONES: 0522-249-4038, EMAIL: jdm@sgpi.ac.in

SUPPLY ORDER

Ref. No: PGI/MM/RE-APP/ANESTH/24-25/43/38433

DATE: 28/03/2025

To,
M/S LIFE CARE MEDICAL EQUIPMENT
2/447, SECTOR L, LDA COLONY,
KANPUR ROAD, LUCKNOW - 226012

Your Bid/quotation No. 4880551 DATE 24.01.2025

Dear sir,

Please arrange to supply on or before /As per delivery schedule 60 DAYS FROM THE DATE OF SUPPLY ORDER
/ As per delivery Schedule the items noted below.

Sl. No.	Article	QTY.	RATE per Unit (Incl. of GST) Rs.	UNIT	AMOUNT (Incl. of GST) Rs.
	Minimally Invasive Advanced Cardiac Output Monitor Make: Edwards Lifesciences, USA Model: Hemosphere Advanced Monitor HEM1	02	58,00,000.00	EACH	1,16,00,000.00
1.	It Should be a stand alone monitor				
2.	it should have minimally invasive cardiac output trend monitoring				
3.	should display continuous cardiac output trend using any standard arterial line with following features and parameter:				
A	Beat to beat cardiac output trend for optimal hemodynamic management				
B	Works with standard arterial catheter				
C	Ability to be calibrated manually using external data input				
D	Continuous cardiac output trend				
E	Stroke volume index				
F	Pulse Pressure variation				
G	Stroke Volume Variation				
4	It may have options for real time CVP for preload and SVR Calculations, Systemic vascular resistance, DP/dt, arterial elastance, dynamic elastance, cardiovascular impedance				
5	It may have options for measurement of left ventricular contractility and power indices				
6	Options to set upper and lower alarm limits for different parameters				
7	Ability to record data and transfer it for research and educational purposed				
8	Data Export facility via USB Stick				
9	Option to mount on Pole with dedicated holder				
10	Company should provide satisfactory performance reports of previous installations from any large government or reputed hospitals in India				
11	Equipment should be available for demonstrations with all clinicals validations				
12	The firm will provide the cerebral oximetry in both the machine	FOC		FOC	
Total cost (in Rs.)					1,16,00,000.00
Add: GST					Inclusive
Less: Discount in Rs. (3,20,000.00 x 2)					6,40,000.00
Total Amount (After Discount)					1,09,60,000.00
(Rs. ONE CRORE NINE LAKH SIXTY THOUSAND ONLY) (INCL. OF GST)					

[Signature]

Terms & Conditions:

1. Prices are F.O.R. Central Store, SGPGI, Lucknow.
2. GST Inclusive (@12%).
3. Delivery: 60 Days.
4. 100% Payment shall be made within 30 days after satisfactory installation on submission of PBG.
5. Warranty: 05 years unconditional warranty.
6. Performance bank guarantee shall be submitted by the firm @ 5% of ordered value for 62 months from the date of installation.
7. CMC: Rs. 2,74,000.00 (Incl. of GST @18%) per machine per year starting from 6th to 10th year without escalation.
8. The complaints will be attended within 24 hours by the firm and machine will be rectified/replaced with stand by machine within 48 hours of complaint from SGPGI.
9. Preventive Maintenance will be done quarterly by firm.
10. The material/equipment should be delivered in Central Store, SGPGIMS, Lucknow between 10:00 AM to 04:00 PM from Monday to Friday and 10:00 AM to 12:00 Noon on Saturday.
11. The Installation report shall be submitted by firm in accordance with supply order in term of quantity & specification.
12. Rest Terms and Conditions as per Supply Order & Tender Terms.

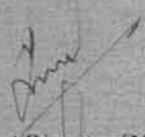
The materials should be dispatched by post parcel / passenger / goods train at Railway / Owner's risk
Freight paid and duly insured. The materials may be dispatched by road transport also at supplier's risk, If convenient to them.

Thanking you,

Copy to:

1. The Indenter **HOD, Anesthesiology** with request to verify the technical details of the items order and inform if any modification / correction is needed
2. Accounts Section
3. Stores Section
4. Master File
5. Office Copy

Yours faithfully


Joint Director (M.M.)
For Director

Acknowledgement :-

1. This order must be checked with the quotation / agreed terms & conditions and any variation in the price or specification must be intimated for our acceptance before effecting supply. Any clarification / deviation necessary in the specification or drawings would be obtained in writing.
2. Receipt of this order should be acknowledged by return post confirming acceptance of rate and all order conditions of supply order.

Despatch Instructions and Packing:

3. Where transit of stores is at our cost, the mode of despatch indicated on prepage is to be followed. Goods must be dispatched on by rail unless otherwise stated. Consignment to be booked to Lucknow which is the nearest Railway Station.
4. Goods should be securely and adequately packed and packing list quoting this order reference should be kept in all packages, Railway carrier's Receipts with delivery challan and packing list in triplicate are to be sent to this office directly by registered post along with the bills.
5. Local firms are requested to deliver the goods in our stores before 3 p.m. on any working day except Saturday.

Instruction Booklet:-

6. In the case of instruments, Equipment, Plant and Machinery two copies of the circuit diagrams operation / maintenance manual and Guarantee Card / warranty certificate should be furnished, which would be a part of the contract. No payment would be processed in absence of these documents.

GST

7. GST number should be mentioned in the bill.

Insurance:

8. In case transit of the stores is F.O.R. Dispatching station and where insurance charges are to be borne by the office, please arrange to insure the stores against all transit risk including breakage for where house to where house under your own arrangement. The rate of insurance will in no case exceed 3% of the value of materials supplied. The premium may be claimed in the bill as a separate item and will be payable if the original receipts accompany the bill.

Bill and Payment :

9. The No. and date of this order and the article overleaf must be quoted in the bill.
10. The supplier's bill should be prepared in ink or typed and submitted in triplicate duly pre-receipted (affixed with revenue stamp worth 1 rupee for amount exceeding Rs. 5--/-) The total amount may be rounded off to the nearest five paise.
11. The prices are firm & fixed. Hence, any additional charges, towards, packing forwarding, freight sales tax, excise duty octroi, insurance, postal charges, bank commission etc. are not payable, unless specifically accepted in the order. In respect of any charges payable, the relevant receipt or original voucher shall be sent with bill.
12. In case of the claim of Excise duty in the bill. Excise gate pass should accompany the bill for payment of the same. Alternatively, a certificate to this effect that the excise duty claimed in bill is already deposited by them should be recorded on the bill, which may be accepted at the discretion of the undersigned.
13. Bill for the supply will be paid after the stores are received, tested / inspected, installed commissioned, whichever applicable and found satisfactory with regard to quality, quantity and specification ordered for and after satisfying that the terms and conditions of the supply have been fulfilled. Payment will be made direct to the supplier by crossed account payee cheque of the State Bank of India, SGPGIS Branch, Lucknow. Who is our Bankers.

General:

14. Printed conditions, if any contained in or sent along with the quotation shall not be binding on us.
15. Samples in respect of items at Sl no.....are to be sent and approval obtained before effecting supply.
16. All damage / unapproved goods shall be returned at the supplier's cost and risk and incidental expenses incurred thereon shall be recovered from any of their bill / duties.

Delivery Period:

18. All the items contained in order should ordinarily be supplied in one consignment if any item is / aren't available within the delivery period the likely date of supply should be intimated for acceptance. However the extension of the time may be granted by us. We also reserve the right to accept / reject short supplies.
19. (i) The date of delivery should be strictly adhered to otherwise the order is, liable to be cancelled (applicable to scientific equipment apparatus plant and machinery)
(ii) As time is the essence of this order, the date of delivery in part or full and to claim liquidate damage @ 1% per week subject to a maximum of 10% of the total value of stores ordered.

