

HAFFKINE BIO PHARMACEUTICAL CORPORATION LIMITED
Procurement Cell

(A Government of Maharashtra Undertaking)

Regd. Office : Acharya Donde Marg, Parel, Mumbai 400 012 (INDIA)

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प्रशासकीय मान्यता निधी ४,५५,००,०००/-
२०२०-२१ राज्य योजना

No.: 7129 /Haffkine /Procurement Cell/E-3320/Advanced
Anesthesia Workstation with Electronic Gas Mixing with High
End Monitor/2022-23

Date: 20-07-2022

To,
M/s. Wipro GE Healthcare Pvt. Ltd.
No. 4, Kadugodi Industrial Area,
Bangalore - 560 067.
Karnataka, India.
E-Mail: aruny@ge.com

Subject : Supply Order for Tender No. E-3320/Advanced Anesthesia Workstation with
Electronic Gas Mixing with High End Monitor

Reference: 1. Tender No. E-3320/HBPCL/PC/Advanced Anesthesia Workstation with
Electronic Gas Mixing with High End Monitor /2020-21
2. शा.नि.क्र.: जीएचबी-२०२०/प्र.क्र.२४४/प्रशा-१ दि. ०९ डिसेंबर, २०२०
3. Sanction of Tender Approval Committee Meeting No. 156 Dated 09.06.2022

With reference to the tender cited under reference no 1, you are requested to supply the
following goods as per details mentioned below to consignee list enclosed with this order.

Sr. No.	Name of the item	Specification of item	Quantity /Unit (DMER)	Unit Rate inclusive of GST (Rs.)	Total Amount Rs.
1	Advanced Anesthesia Workstation with Electronic Gas Mixing with High End Monitor Make: GE HEALTHCARE Model: AVANCE CS2 ANAESTHESIA WORKSTATION WITH CARESCAPEB650 MONITOR	As per Annexure X	13	30,00,000/-	3,90,00,000/-

Total amount in words: Rupees Three Crore Ninety Lakh Only.

Factory Location: Ge Healthcare / Datex-Ohmeda Inc, 3030, Ohmeda Drive, P. O. Box 7550, Madison, WI 53707-7550, USA.
GE Healthcare Finland Oy, Kuortaneenkatu 2, Helsinki, Finland, FI-00510
GE Medical Systems Information Technologies, Inc, 8200 West Tower Avenue, Milwaukee, Wisconsin 53223, USA

- 1 Forwarding:** Forwarding Free on Road Destination. I.e. door delivery basis.
- 2 Delivery Period:** 12 weeks from the date of receipt of order by the supplier to the consignee attached.
- 3 Pre-Dispatch Inspection:** Supplier shall make necessary arrangement / facilitate to carry out Pre-Dispatch inspection as per Tender Terms & condition and submit the Inspection report to this office. The Pre-Dispatch inspection cost will be borne by supplier. Machine should be dispatched only after satisfactory Pre-Dispatch Inspection.

- 4 **Risk purchase clause:** If the bidder fails to supply the stores within the stipulated delivery period, the order will stand cancelled. Undersigned shall be entitled to purchase such stores from any other source at such price which ordinarily should not be more than 10% of the tender price. The extra expenditure in such cases shall be recovered by Managing Director, Haffkine Bio Pharmaceutical Corporation Ltd. (Procurement Cell), Mumbai from the Supplier.
- 5 **Payment Terms:** Payment of 100% of the contract value will be made within 8 weeks on delivery and successful Installation and satisfactory commissioning and operation of the machinery.
- 6 **Labelling:** The word "**For use of GOVERNMENT OF MAHARASHTRA NOT FOR SALE**" should be printed on each unit pack in readable Purple or Green Colours.
- 7 **Acceptance & Receipt:** It should be submitted in Appropriate Format to the purchasing authority.
- 8 **Delivery Challan** - Should be sent in the name of consignee in duplicate. It should specify Name of Equipment / Mfg. by / packing & quantity.
- 9 **Invoice Copy** - Should be sent in triplicate on the Name of Managing Director, Haffkine Bio Pharmaceutical Corporation Ltd.(Procurement Cell), Mumbai. Along with Bill of Entry and Country of Origin Certificate of the consignment.
- 10 **Other Terms :**
- 1) Warranty: The warranty period shall be for 2 years from the date of commissioning of all equipment supplied as certified by the consignee. After completion of 2 years warranty period Manufacturer/Supplier should give commitment to ensure services and supply of spare part for further 8 years. The successful tenderer must ensure 95% uptime during warranty period. In case of downtime, warranty period will be extended for period of downtime. If the equipment is not attended within 24 hours for Mumbai and 48 hours for other places the supplier will be liable to pay a penalty of 0.07% of purchase cost for every day of delay. Such penalty will be recovered from the amount of security deposit. Certificate of such uptime / downtime issued by the end user will be binding for the supplier Replacement of spares parts thereof due to manufacturing defects during warranty period will be entirely at the supplier's cost.
- 2) The user institution will enter to the Comprehensive Maintenance Contract with supplier agency @ 5% of the Order value (excluding taxes) of the equipment per year for 8 years after completion of warranty period. In case of non-compliance of CMC the supplier will be liable to pay penalty or for appropriate action. Payment of CMC on yearly basis will be made by the user's institution, at the end of the year after satisfactory performance report from the end user.
- 11 **Contract Agreement:** Bidder should submit a tripartite (Importer, Manufacturer and Haffkine Bio Pharmaceutical Corporation Ltd.) Contract Agreement on non-judicial stamp paper of requisite value.
- Fall Clause**
- It is a condition of the contract that all through the currency thereof, the price at which you will the supply stores should not exceed the lowest price charged by you to any customer during the currency of the contract and that in the event of the prices going down below the rate contract prices you shall promptly furnish such information to us to enable to amend the contract rates for subsequent supplies.

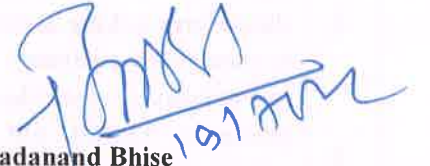
- 12 The Bidder should submit (within 7 days) amount of 1.5% ie. **Rs. 5,85,000/-** of order value to meet other incidental expenditure and 3% i-e **Rs. 11,70,000/-** as Security Deposit in form of Bank Guarantee. The Bank Guarantee Should be Valid for 2 months after the expiry date of warranty, issued by any Nationalized/Scheduled Bank

Amount to be deposited to Following Account:

Name of Account	Haffkine B P C L (Procurement Cell), CESS Account
Name of the Bank & Branch	Bank of Maharashtra, Branch- Mumbai Parel
Account No.	60381379835
IFSC Code	MAHB0000079

Consignee: As per list enclosed

मा. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करिता



Dr. Sadanand Bhise
General Manager

Haffkine Bio Pharmaceutical Corporation Ltd.
(Procurement Cell), Mumbai.

Copy to:

- 1) Commissioner Health Services, Mumbai.
- 2) Director, Medical Education & Research, Mumbai-400 001.
- 3) Account Manager, Haffkine Bio Pharmaceutical Corporation Ltd. (Procurement Cell), Mumbai.
- 4) Office File.

Copy to Consignee: Dean, Government Medical College & General Hospital, Baramati. : As per Tender Condition No.17 The user Institution should get the Comprehensive Maintenance Contract done with supplier agency @ 5% of the Order value (excluding taxes) of equipment per year for Eight years after Completion of warranty period.

Copy Submitted to: 1) Secretary, Medical Education & Drug Department, Mantralaya, Mumbai.

Annexure-X

Sr. No.	Specifications for Advanced Anesthesia Workstation with Electronic Gas Mixing with High End Monitor
A	Basic Unit:
1	The unit should be a cost-effective, flexible anesthesia workstation for performing and monitoring inhalation anesthesia, suitable for Adult as well as Neonatal.
2	It should be capable of providing low-flow tools like Ecoflow/ FiO ₂ prediction/ Economizer to avoid risk of hypoxia and to minimize gas and anesthetic agent consumption for economical day-to-day operation. It should give gas and agent consumption data.
3	The Anaesthesia Workstation should have In-built Ventilator with Colored touch screen 12 inch or more TFT display, integrated CO ₂ absorber, In-built & Integrated Anesthesia Gas Monitoring Facility, vaporizers and Multi parameter monitor. All these components should be of the same manufacturer.
4	The unit should be able to connect to Central pipeline & there should be provision of One PIN Index Yoke to connect to One Emergency Gas Cylinder of O ₂ & N ₂ O each. Pipeline and cylinder pressure should be digitally displayed for Oxygen, Air, Nitrous Oxide.
5	The unit should have Powder Coated Steel Trolley with 4 Wheels & 2 Drawers & the front wheels should have locking device, but central braking is preferable. The unit should have Rail on one side to mount other equipment.
6	Gas delivery system: Machine should provide electronic gas mixing with digital control and display setting for O ₂ , N ₂ O and Air with digital virtual display of the flow meters. It should have manual override in case of failure of electronic gas mixing, with provision to give 100% O ₂ , and agent to the patient.
7	Hypoxic guard to provide a nominal minimum 25% concentration of oxygen in O ₂ /N ₂ O mixture. It should have proven hypoxia guard design using electronic mechanism.
8	The machine should have Auxiliary Oxygen Flow meter.
9	Clock and Timer – Tourniquets, certain drug delivery, cross clamping of vessels-many operating room events need timing, to offer a handy clock and timer, right on the screen.
10	Oxygen Flush : Range: 25 to 75 L/min.
11	It should be equipped with self-test routines and automatic calibration of all sensors. The machine check out should calibrate all the sensors, calculate the leak and compliance.
12	The unit should have Common Gas Outlet for using open circuit & the unit should easily change over from open circuit to closed circuit or vice-versa.
13	International Standards:- The unit should comply with International Standards & should have CE Marking, AAMI ES60601-1, CSA C22.2 #601.1, EN/IEC 60601-1, ISO 80601-2-13 Quality Systems-Medical Devices Certification. The machine should be US FDA/ CE European Notified Body approved.
B.	Breathing system (close circuit system) :
1.	It should be integrated to the CO ₂ absorber of minimum 800 gms & CO ₂ absorber should be Single/Double chamber design having easy removal & re-fitting during the operation. It should have CO ₂ bypass facility, so that ventilator continues operation when the canister/ absorber is removed for refilling.
2	It should be fully autoclavable at 134 deg C. It should have Pressure Graduated Metallic APL Valve, and Inspiratory Valve, Expiratory Valve and Bag to Vent switch to easily move from ventilator to manual bag ventilation. The machine should be provided with condenser to remove the moisture in the breathing system.
3	The machine should have patient airway pressure monitoring giving the P _{max} , P _{mean} , and P _{exp} values.
4	Machine shall provide circle mode breathing circuit,-Reusable closed circuit for adult and neonate

C.	Vaporizers:
	It should have provision to connect Two Selectatec mount vaporizers & the unit should be provided with Two vaporized equivalent to TEC-7 type. One of Isoflurane & One of Sevoflurane. Desflurane vaporizer to be quoted optional. Supplier must offer own manufacturing capability of all Vaporizers - Desflurane, Sevoflurane, Halothane / Isoflurane.
D.	Integrated Anesthesia Ventilator: In built Anesthesia Ventilator:
1	It should have Integrated Microprocessor Controlled & Pneumatically Driven Ventilator with ascending bellows and the same bellows should be useful for Pediatric & Adult Application, thus avoiding change of bellows.
2	The unit should have Fresh Gas De-coupling or Continual fresh gas flow with fresh gas flow compensation during mechanical ventilation
3	Modes of Ventilation: VCV, PCV, PVC-VG, SIMV + PSV (for VCV, PCV), PSV pro (with Apnea Backup) and CPAP + PSV modes of ventilation should be available.
4	Cardiac Bypass Mode during cardiac bypass procedure to stop the system from alarming, and turns off automatically, when the ventilator is turned back on. Complete Patient spirometry with all the 3 loops with save reference loop feature and lungs mechanics data should be available.
5	Tidal Volume: Tidal volume delivery 5 to 1500ml. In Volume Control, PCV-VG and SIMV VCV – 20 to 1500ml; PCV modes – 5 to 1500ml
6	Rate : 4 to 100bpm
7	Peep : Off, 4 to 30cms H2O
8	Settable I:E ratios. Pause, Trigger (0.2-10 L/min), Insp Pressure from 5 upto 60cms H2O
9	Ventilator shall be capable of 120+L/min peak flow.
10	Compliance Measurement and Trending (Preferable): Measures and displays the patient's compliance to offer an view of the patient's lung condition
11	It should have a high contrast color 12 inch or more TFT Touch screen Display.
12	Gas Monitoring:- The In-built Anesthesia Gas Monitoring Facility should be based on side-stream technology, using Infra-Red Photometry Principal & also it offer Automatic Anesthetic Agent Identification.
	Specification for AGM:
	a) CO2 Et. & In: Display: 0-10%, 0-76 mmHg
	b) Accuracy: +/-0.5 Vol% or +/-12% rel.
	c) Reaction time: <500 ms 150 ml/min
	d) N2o In & Et.: Display: 0-100
	e) Accuracy: +/-2 Vol% Or +8% rel.
	f) Reaction time: <500 ms 150 ml/min
	g) O2 (paramagnetic) In & Et.: a. Display: 0-100% b. Accuracy: +/-0.1% c. Reaction time: <500 ms 150ml/min
	h) Anesthetic agent:
	i) Halothane/Isoflurane : Display: 0-5 Vol%
	j) Sevoflurane: Display: 0-8 Vol%
	k) Desflurane: Display: 0-18%
	i) Accuracy: 0-1.15% or 15% rel.
	m) MAC:- It should have a display of MAC (Minimum Alveolar Concentration)(MAC X).

13	Alarms:- It should have clear alarms and user information as text messages. It is essential that unit should prompt user for corrective action rather than giving only alarm with no diagnostic message.
14	Pause Gas flow (Preferable) - Turns off all gases for one min. during intubation or suctioning.
15	Auto Alarm limits to help optimize alarm management for each patient.
16	Lung recruitment procedures- Vital capacity & Cycling procedures: to automate the procedures for optional Peep setting to recruit the lungs
E	Anesthesia Monitoring
1	15 inch or more ~ Color TFT touchscreen display mounted on the Anesthesia Workstation
2	Monitor should have the capability to have independently configurable slave display.
3	8 wave forms, and modular /pods in design,
4	Should have multi-parameter, space saving design of modules for measuring
	<ul style="list-style-type: none"> a) 5 lead ECG with electrocautery filter , Multilead ST Segment analysis, Lethal Arrhythmia alarms with 5 lead ECG cable set - 2 sets. b) SpO2 measurement with plethysmograph with Nellcor/ Masimo/ equivalent – adult sensors- 2 sets and neonate SpO2 -1 no c) NIBP measurement with adult cuffs size – XL, L, M and child and infant and cuffs- 2 sets d) Respiration measurement by impedance method e) Provision for two invasive pressure simultaneously with 10 disposable IBP transducers and 2 reusable IBP cables with each monitor. f) Twin temperature measurement with skin and core temp probes g) Provision for Depth of Anesthesia Monitoring – either BIS or Entropy module with 50 sensors with each monitor h) Provision for Neuromuscular Transmission Monitoring complete with electro mechano sensor for knowing the relaxation in patients for adults and pediatric
5	Alarm facility:-
6	Should have Alarm facility for HR limits, Arrhythmia, ST Segment Limit, and all other parameter limits.
7	12. Graphs & Trends:-
8	Should have 24 hr of Graphical and Tabular Trend for NIBP, HR, SPO2, RR, IBP, IBP2, T1, T2, AWRR, ST Segment.
9	13. Facility to store snapshots during critical events for waveform review at a later stage.
10	14. Audio visual and graded alarming system.
11	User configurable modes.
12	Should have the capability to connect to LAN network for IT solutions connectivity/IT Applications for automated data capture from devices.
13	Recorder for printing the upto 4 waveforms and alphanumeric data, and trends etc.
F.	Scope of Supply
1	Anaesthesia workstation with integrated ventilator, integrated anaesthesia gas analyser and monitor.
2	Electronic Flowmeters with digital control of FiO2 with Alternate O2 flowmeter for manual override.
3	Integrated, Fully autoclavable Advanced Breathing System with absorber.
4	Color coded Pipeline Houses and Inlets for Oxygen, N2O and Air
5	Oxygen Cylinder Yoke
6	N2O Cylinder Yoke
7	Auxiliary Common Gas Outlet (ACGO) to connect open/semi circuits.

8	Integrated Passive Anaesthesia Gas Scavenging System (AGSS)
9	AC Power inlet with additional outlets.
10	Integrated High end Electronic Ventilator
11	CO2 Bypass mechanism with condenser to take care of moisture.
12	Adult reusable patient circuit- 1 no
13	Pead Reusable Patient circuit- 1 no
14	Reusable Face mask of all sizes 0, 1, 2, 3, 4, 5.
15	Extra flow sensors – 2 nos.
16	Anaesthesia Monitor, 15 inch color touchscreen with 8 waveform.
17	5 lead wire ECG with electro cautery filter and trunk cable – 2 sets
18	SPO2 probe adult – 2 nos
19	SPO2 flex probe for neonate
20	NIBP hose – 1 no
21	Cuff sizes – std adult, extra large, child and infant.
22	Sample lines (pack of 10)
23	Water traps – (pack of 2 nos)
24	BIS/Entropy module and cable
25	BIS/Entropy sensors (pack of 25)
26	NMT module and cable with NMT mechano sensor, for adult and pediatric
27	Skin Temperature Probe and central probe
28	2X IBP cable and Disposable IBP transducer (pack of 5 nos)
29	Recorder paper – 10 rolls
30	Selectatec mounting Isoflurance vaporizer
31	Selectatec mounting Sevoflurane vaporizer
32	Selectatec mounted Des vaporizer-optional

Consignee Details

M/s. Wipro GE Healthcare Pvt. Ltd.		
Advanced Anesthesia Workstation with Electronic Gas Mixing with High End Monitor Make: GE HEALTHCARE Model: AVANCE CS2 ANAESTHESIA WORKSTATION WITH CARESCAPEB650 MONITOR		
Delivery Period	12 weeks	
PO Reference No.	No.: 7129 /Haffkine/Procurement Cell/E-3320/Advanced Anesthesia Workstation with Electronic Gas Mixing with High End Monitor /2022-23 Date: 20-07-2022	
प्रशासकीय मान्यता निधी ४,५५,००,०००/- २०२०-२१ राज्य योजना		
Sr. No.	Name & Address of the Consignee	Qty. (DMER)
1)	Government Medical College & General Hospital, Baramati.	13
Total:		13

मा. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करिता

Dr. Sadanand Bhise
General Manager

Haffkine Bio Pharmaceutical Corporation Ltd.
(Procurement Cell), Mumbai.