



**HAFFKINE BIO PHARMACEUTICAL CORPORATION LIMITED**  
**Procurement Cell**

( A Government of Maharashtra Undertaking)

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

<b>Phone No: 022- 24129320-23</b> <b>Managing Director :022-24150628</b> <b>General Manager (Procurement Cell) :022-24100478</b>	<b>Website : http://www.vaccinehaffkine.com</b> <b>E-mail: procurementcell@vaccinehaffkine.com</b>
प्रशासकीय मान्यता निधी २,६५,६५,०००/- राज्य योजना/जिल्हा वार्षिक २०१८-१९	<b>No.: 5749 /Haffkine/Procurement Cell/E-1261/Anaesthesia Work Station/2021-22.</b> <b>Date: 14/12/2021</b>

To,

**M/s. LIFE CARE MEDICAL SYSTEMS**

303/304, The Corporate Centre,  
Nirmal Life Style, Near Shoppers Stop,  
L.B.S. Marg, Mulund (W)  
Mumbai - 400 080.

**E-Mail:** [lifecare@lcmsvsnl.com](mailto:lifecare@lcmsvsnl.com)

**Subject : Supply Order for Tender No. E-1261/Anaesthesia Work Station.**

**Reference: 1. Tender No. E-1261/HBPCL/PC/Anaesthesia Work Station/2019-20.**

**2. शा. नि. क्र. : खरेदी-२०१८/प्र.क्र.२९८/प्रशा-१ दि. २७ सप्टेंबर, २०१८.**

**3. Sanction of Tender Approval Committee Meeting Dated 22.10.2021.**

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.	<b>Anaesthesia Work Station</b> <b>Make : Shenzhen Mindray Biomedical Electronic Co. Ltd. P. R. China</b> <b>Model : WatoEx-55Pro+BeneVisionN12</b>	<b>As per Annexure X</b>	09 ✓	26,56,500/-	<b>2,39,08,500/-</b> 7
<b>Total amount in words: Rupees Two Crore Thirty Nine Lakhs Eight Thousand Five Hundred Only.</b>					
<b>Factory Location: M/s. Shenzhen Mindray Bio-Medical Electronic Co. Ltd., 1203, Nanhuan Avenue, Guangming District 518106 Shenzhen P. R. China.</b>					

- Forwarding:** Forwarding Free on Road Destination. I.e. door delivery basis.
- Delivery Period:** 12 weeks from the date of receipt of order by the supplier to the consignee attached.
- 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 **Acceptance & Receipt:** It should be submitted in Appropriate Format to the purchasing authority.
- 7 **Delivery Challan** - Should be sent in the name of consignee in duplicate. It should specify Name of Equipment / Mfg. by / packing & quantity.
- 8 **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.
- 9 **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.
- 10 **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.

- 11 The Bidder should submit (within 7 days) amount of 1.5% i.e. **Rs. 3,58,627.5/-** of order value to meet other incidental expenditure and 3% i.e. **Rs. 7,17,255/-** as Security Deposit in form of Bank Guarantee. The Bank Guarantee valid for 2 months after the expiry of 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

या. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करिता

*Bawiskar*  
9/12

**Dr. Vijay P. Bawiskar**  
**General Manager - 1**  
**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, 1. Government Medical College & Hospital, Aurangabad. 2. Government Medical College Mumbai. 3. Government Medical College & Hospital, Nagpur. 4. Government Medical College & Superspeciality Hospital, Nagpur.:** 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

### A. Basic Unit

1. General description: The unit should be a cost-effective, flexible anesthesia workstation for performing and monitoring Anesthesia. Suitable for Adult as well child.
2. Integrated System: The unit should have In-built & integrated ventilator with colored TFT display. Integrated CO<sub>2</sub> Absorber. In-built & Integrated Anesthesia Gas Monitoring Facility & all these components should be of the same manufacture or brand.
3. Trolley: The unit should have powder coated steel Trolley with 4 wheels & 2 Drawers & the front wheels should have locking Device.
4. Gas Supply:
  - i. The unit should be compact Ergonomic & easy to use & should be able to connect to Central Gas Line
  - ii. There should be provision of One PIN Index, Yoke to connect to One Emergency Gas Cylinder of O<sub>2</sub> & N<sub>2</sub>O each & Separate Pipeline inlet for Oxygen, Nitrous Oxide and air.
  - iii. Machine should provide electronic gas mixing.
  - iv. Multi-color TFT display of at least 12" or more size with virtual flow meters for Oxygen, Nitrous Oxide and Air.
  - v. Dual flow sensing capability at inhalation and exhalation ports.
  - vi. Should have back-up O<sub>2</sub> control which provides an independent fresh gas source and flow meter.
  - vii. Gas regulators shall be of modular design/ graphic display.
5. Breathing System
  - i. Latex free fully autoclavable.
  - ii. Flow sensing capability at inhalation and exhalation ports, sensor connections shall be internal to help prevent disconnect.
  - iii. Sensor should not require daily maintenance.
  - iv. Bag to vent switch shall be bi-stable and automatically begins mechanical ventilation in the ventilator position.
  - v. Adjustable pressure limiting valve shall be flow and pressure compensated.
6. Hypoxia Guard:
  - i. It should have hypoxia guard design.
  - ii. The unit should be equipped with integrated Ratio system to maintain 25 Vol. % O<sub>2</sub> in Fresh Gas & on accidental opening of only N<sub>2</sub>O flow with O<sub>2</sub> valve closed, the Ratio system should automatically open O<sub>2</sub> valve to maintain 25 Val. % O<sub>2</sub> in Fresh Gas.
7. Water & Particle Trap: The unit should have Water & Particle trap to the inlet Central Gas

Pipe-line connections of O<sub>2</sub>, N<sub>2</sub>O & AIR

8. Patient Module:
  - i. It should have fully autoclavable patient module having anodized metallic casing.
  - ii. It should have 34°C Heated Patient Module to deliver Warm Fresh Gas to patient & to prevent condensation.
  - iii. The patient Module should have Pressure Graduated Metallic APL Valve, Inspiratory Valve, Expiratory Valve a Controlled room air Yes Valve & Active Gas Scavenging Port.
  - iv. CO<sub>2</sub> absorber: Patient Module should be integrated to the CO<sub>2</sub> absorber of 1.4 Kg & CO<sub>2</sub> absorber should be single/ double chamber. Design having screw type threading for easy removal & re-fitting during the operation. Should have adjustable pressure limiting valve, breathing circuit pressure measuring device.
    - a. Should have a bag/ ventilator selecting valve integrated onto the absorber.
    - b. Should be suitable to use low flow techniques.
    - c. Facility to attach oxygen sensor.
9. Emergency Oxygen Flush: The unit should have O<sub>2</sub> Flush facility to give approximately 50 Ltr./ min flow.
10. Common gas outlet: The unit should have common Gas outlet for using open circuit & the unit should have easy change over from open Circuit to closed circuit or closed circuit or vice-versa.
11. Vaporizers: It should have provision to connect two selectatec mount vaporizers & the unit should be provided with two Vaporizers equipment to TEC-7 type, One of Isoflurane & One of Sevoflurane of the same manufacturer.

## **B. INTEGRATED ANAESTHESIA VENTILATOR**

1. Ventilator: It should have Integrated Microprocessor Controlled & Pneumatically Driver ventilator with bellows and the same bellows should be useful for Pediatric & Adult Application, thus avoiding change of bellows.
2. Modes: It should offer Ventilation Modes such as Manual, Spontaneous, CMV, SIMV, PEEP & PCV for Adult & Child. Ventilator should have a tidal volume compensation capacity to adjust for losses due to compression, compliance and leaks; and compensation for fresh gas flow. Ventilator should be capable of at least 120-150L/ min peak flow to facilitate rapid movement through physiologic "Dead Space" in the pressure control mode.
3. I:E ratio: The unit should offer I/E Ratios: 1:1, 1:1.5, 1:2, 1:2.5, 1:3, 1:4, 1:5 with I/E Inverse Ratios: 2:1, 3:1 & 4:1 (PCV); PEEP : 0-15 mbar ± 2mbar, Tidal Volume 20-1400 ml
4. Display: It should have a high contrast color TFT Display
5. Self- Test: It should be equipped with self-test routines and automatic calibration of all sensors.
6. Display: Display should indicate measure valves: O<sub>2</sub> (Paramagnetic), real time

Capnography, anesthetic agents (HALOTHENE / ISOFLURANE / SEVOFLRANCE / ENFLURANE/ DESFLURANE) Tidal Volume, Minute volume, Frequency, PEEP, Mean Pressure- In Graphic Form with numerical display.

7. Gas Monitoring: The In-built Anesthesia gas Monitoring Facility should be based on Main-Stream technology, using Infra-Red Photometry Principle & also it must offer Automatic Agent Identification.
8. MAC: IT should have a display of MAC (Minimum Alveolar Concentration)
9. Alarms: It should have clear alarms and user information as text messages. It is essential that the unit should prompt the user for corrective action rather than giving only an alarm with no diagnostic message.
10. Test: The unit should perform the Leak Test & Sensor Test on start of the unit to know the leak volume or dead space Volume of tubing etc. & thus deliver exact Tidal Volume to the Patient.
11. Fresh Gas Decoupling: The unit should have Fresh Gas De-coupling to ensure delivery of set tidal volume with irrespective of higher flow rate setting on flow tubes.
12. International Standards: The unit should comply with International Standards & should have CE Marking, DIN EN ISO 9001:2000 Certification & EN ISO 13485:2003 Quality Systems – Medical Devices Certification.

### **C. SPECIFICATIONS FOR MULTI PARAMETER PATIENT MONITOR**

1. Parameters: Anesthesia Monitoring System should be modular with touch screen & should be capable of monitoring Heart rate, SPO<sub>2</sub>, NIBP, ECG, Temp, PR and IBP2.
2. Display: Should have a Display of 12-inch diagonal color TFT display.
3. Operating System: Should operate through Rotary Knob & Membrane keyboard.
4. Fields: Should have Six Waveform fields.
5. ECG: Should have provision to connect (5 lead) ECG cables.
6. NIBP:
  - i. Should have NIBP measurement by Oscillometric method.
  - ii. Should have Manual/ Automatic modes of measurement.
  - iii. Should have a measurement range of 20 to 250 mm Hg.
7. Invasive BP: Should have 2 channel Invasive Blood Pressure (IBP) measurement.
8. Should have waveform of IBP1 and IBP2.
9. Temperature: Should have provision for two temperature with display of T1 to T2 – Two sets of probes with each monitor.
10. Respiration: Should have Respiration by Impedance method.
11. SPO<sub>2</sub>: Should have SPO<sub>2</sub> measurement with plethysmography and SPO<sub>2</sub> values with range 50% to 100%.
12. Alarm Facility: Should have Alarm facility for HR limits, Arrhythmia, ST segment limit, and all other parameter limits.
13. Graphs & Trends: Should have 24 hrs. of Graphical and Tabular Trend for NIBP, HR,

SPO<sub>2</sub>, RR, IBP, IBP2, T1, T2, AWRR, ST, segment.

14. Multi Gas Monitoring:
  - i. Automatic identification and measurement of anesthetic agents, EtCO<sub>2</sub>, O<sub>2</sub>, and N<sub>2</sub>O and MAC valve FiO<sub>2</sub> measurement.
  - ii. Multi gas Analyzers: The unit should be supplied with Infra-Red based Main stream EtCO<sub>2</sub> Monitoring with Anesthetic Gas Monitoring Facility. (Multi-Gas Monitoring)
15. NMT Monitoring: Integrated Modular Neuromuscular Transmission Monitoring in the primary monitor with all accessories. Display should be in the primary monitor.
16. BIS/ Entropy:
  - i. Depth of Anesthesia Monitoring module – BIS/ Entropy with, BIS/ Entropy all accessories & 50 sensors.
  - ii. Should include inbuilt Anesthesia record keeping software facility in monitor to document anesthesia event using standardized menu-based entries.
  - iii. Facility to store snapshots during critical events for waveform review at a later stage.
  - iv. Audio visual and graded alarming system.
  - v. It should provide slave display of 17 inches with cable.
17. Protection: Should have protection against electro surgery and defibrillator.
18. Battery: Should have a battery backup of more than 1 hrs. with rechargeable batteries.
19. Accessories: Should be supplied with the following Standard Accessories.
  - i. 5 Lead ECG cable – 2 set
  - ii. SPO<sub>2</sub> finger Probe for Adult and Pediatric & Neonatal Probe – 2 each
  - iii. Standard accessories to make all parameters working – 2 set
  - iv. Temp probe skin reusable – 02
  - v. Temp probe Rectal Reusable – 02
  - vi. Accessories for Anesthetic Gases – 1 set
  - vii. Depth of Anesthesia Sensors – 50
  - viii. Accessories for neuromuscular transmission monitor – 1 set
  - ix. Disposable Domes – 100
  - x. Disposable Adult & Pediatric Circuits – 50 each
  - xi. HMF Filters – 50
  - xii. Vital Parameter Accessories – 1 set
  - xiii. NIBP cuff for Adult and Pediatric Applications.
  - xiv. 2 IBP Transducers with cable
  - xv. 2 Temperature Probes
  - xvi. Multi Gas Analyzers – The unit should be supplied with Infrared based main stream EtCO<sub>2</sub> Monitoring with Anaesthetic Gas Monitoring Facility. (Multi Gas Monitoring)
20. International Safety Standards: Should meet all International Safety Standards.

### Consignee Details

<b>M/s. LIFE CARE MEDICAL SYSTEMS,</b>		
<b>Anaesthesia Work Station</b>		
<b>Make : Shenzhen Mindray Biomedical Electronic Co. Ltd. P. R. China</b>		
<b>Model : WatoEx-55Pro+BeneVisionN12</b>		
<b>Delivery Period</b>	<b>12 weeks</b>	
<b>PO Ref. No.</b>	<b>No.: 5749 /Haffkine/Procurement Cell/E-1261/Anaesthesia Work Station/2021-22.</b>	
	<b>Date: 14/12/2021</b>	
प्रशासकीय मान्यता निधी २,६५,६५,०००/- राज्य योजना/जिल्हा वार्षिक २०१८-१९		
<b>Sr. No.</b>	<b>Name &amp; Address of the Consignee</b>	<b>Oty. (DMER)</b>
1.	Government Medical College & Hospital, Aurangabad.	01
2.	Government Medical College Mumbai.	04
3.	Government Medical College & Hospital, Nagpur.	02
4.	Government Medical College & Superspeciality Hospital, Nagpur.	02
<b>Total :</b>		<b>09</b>

या. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करिता

*Bawiskar*  
9/12

**Dr. Vijay P. Bawiskar**  
**General Manager - 1**

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