

**HAFFKINE BIO PHARMACEUTICAL CORPORATION LIMITED****Procurement Cell****( A Government of Maharashtra Undertaking)****Regd. Office : Acharya Donde Marg, Parel, Mumbai 400 012 ( INDIA)+**

Phone No: 022- 24129320-23 Managing Director :022-24150628 General Manager (Procurement Cell) :022-24100478	Website : http://www.vaccinehaffkine.com E-mail: procurementcell@vaccinehaffkine.com
	No.: 2132 /Haffkine/Procurement Cell/Proprietary Item/Virtual Bronchoscopy Navigation System/2019-20 Date: 05/12/2019

To,  
M/s Biotronics Equipment Pvt. Ltd.,  
401, Bangashree Tower, Daji Ramchandra Road  
Opp. Pawar Ind. Estate, Charai, Thane (west)  
Thane - 400602  
Email: [arvind.patil@biotronicsindia.com](mailto:arvind.patil@biotronicsindia.com)

**Subject : Supply Order for Virtual Bronchoscopy Navigation System****Reference:** 1. HBPC/PC/Virtual Bronchoscopy Navigation System/2018-19  
2. Sanction of Tender Approval Committee Meeting Dated 13.09.2019

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	Unit Rate inclusive of GST(Rs.)	Total Amount Rs.
1	Virtual Bronchoscopy Navigation System	As per Annexure X	01	1,04,50,000/-	1,04,50,000/-
<b>Total amount in words: One Crore Four Lakh Fifty Thousand Only.</b>					
<b>Name of the Manufacturer: Broncus Medical Inc, 125 Nicholson Lane, San Jose, CA 95134 650.428.1600</b>					

- Forwarding:** Forwarding Free on Road Destination. I.e. door delivery basis The delivery should be damage free & intact Packaging.
- 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.
- 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.
- Payment Terms:** 100 % Payment shall be paid on receipt, Complete Installation (acceptance) of Machine in good conditions by the consignee.
- 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.
- Acceptance & Receipt:** It should be submitted in Appropriate Format to the purchasing authority.
- Delivery Challan** - Should be sent in the name of consignee in duplicate. It should specify Name of Equipment / Mfg. by / packing & quantity.
- 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 written down value 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:** If Bidder is Importer they should submit a tripartite (Importer, Manufacturer and Haffkine Bio Pharmaceutical Corporation Ltd.) Contract Agreement on non-judicial stamp paper of requisite value else a bipartite 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. 1,56,750/-** of order value to meet other incidental expenditure and 3% i-e **Rs. 3,13,500/-** as Security Deposit in form of Bank Guarantee. The Bank Guarantee Should be Valid for 8 Years after the expiry date of warranty, issued by any Nationalized/Scheduled Bank

**Amount to be deposited to Following Account:**

Name of Account	Haffkine Bio-Pharmaceutical Corporation Ltd. (Procurement Cell), CESS Account Mumbai.
Name of the Bank & Branch	Canara Bank, Branch-Parel
Account No.	0110201004893
IFSC Code	CNRB0000110

**Consignee:** As per list enclosed

*Rajesh*

**(Dr. Rajesh Deshmukh)  
Managing Director**

**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:** Govt. Medical College & Hospital, Nagpur. The user Institution should get the Comprehensive Maintenance Contract done with supplier agency @ 5% of the written down value 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

Specification of Virtual Bronchoscopy Navigation System
A compact software based device providing a navigation system to assist the bronchoscopy operator to reach the target site in the lung. It should not require any type of sensors or applicators. It should be totally virtual.
The software should be able to analyse and generate a virtual image of the tracheobronchial tree based on the CT scan data which can be loaded into the system.
Facility for import (of CT data from disc or USB flash drive or PACS server) and analysis of CT data from commonly used CT image format platforms should be available.
The system should allow multi-planar reconstruction and 3D virtual visualization of the bronchial tree.
Should allow superimposition of the target on the virtual bronchoscopy images
Should provide distance and the airway measurements to enable localization of the target
Navigation accuracy should be 3 mm or less
Should allow real time guidance and line view for accurate negotiation in the airways
The visualization of the virtual bronchoscopy images should be on a high resolution screen
The system should be with following Software modules: Dicom Import ,Airway segmentation ,3D airway tree ,Airway centerline ,Airway quantization , Airway labeling , Vessel segmentation ,ROI definition , Path planning , Fiducial planning ,2D view ,Luminal view Endoluminal view , CT video registration ,Procedure plan ,Scope calibration
Measurement functions provided by the Software should include distance to the target, distance to the end of the pathway, airway diameter, and sphere size. These functions are limited in accuracy by the resolution of the CT data. The resolution is based on voxel shape, which is the 3-dimensional equivalent of a pixel.
The Software should automatically extracts airways that are navigable in size, defined as $\geq 3$ mm. Up to 3 pathways should be determined for each target.
It should presents five (5) image windows including the virtual bronchoscopic animation, axial CT projection, coronal CT projection, sagittal CT projection and airway tree.
It should provide image views such as CT View, 3D airway view, 3D target View, Extraluminal View, Fluoro View, Fiducial Projection View, Virtual Bronchi Animation view
It should have facility to export the procedure plan as .zvc file.
The system should be US-FDA and European CE approved.
The system should be able to run on a Windows or Mac PC based software platforms
It should provide both Planning and Procedure modules, installed on a desktop computer and mounted on a cart.
The system should be with following, Processor : Dual Intel Xeon Processor E5-2680 v3 (12C HT, 30MB Cache, 2.5GHz Turbo) Memory: 16GB (4x4GB) 2133MHz DDR4 RDIMM ECC Keyboard: US English (QWERTY) Dell KB212-B QuietKey USB Keyboard Black Video Card: Nvidia Quadro K2200 4GB (2 DP, DL-DVI-I) (1 DP to SL-DVI adapter) Hard Drive: 2.5 inch 1.2TB SAS 10k RPM Enterprise HDD Storage: 500GB SATA 3.0Gb/s 7200RPM / 8MB DataBurst Cache Hard Drive 5.25" DVD+/-RW Drive USB: 3USB 1.1/2.0 Speed: 667MHz fully buffered DIMM ECC RAM Memory: 8GB RAM
Facility of transfer of the image or video formats to a USB or a CD should be available
All necessary accessories to make the unit fully functional should be provided and quoted in the tender.
A color LaserJet printer, UPS, 2 TB hard disc drive should be provided
Battery backup for at-least 30 minutes

### Consignee Details

M/s Biotronics Equipment Pvt. Ltd.		
Virtual Bronchoscopy Navigation System		
<b>Delivery Period</b>	12 weeks from the date of receipt of order	
<b>PO Reference No.</b>	No.: 2132 /Haffkine/Procurement Cell/ Proprietary Item /Virtual Bronchoscopy Navigation System/ 2019-20 Date: 05/12/2019	
<b>Sr. No.</b>	<b>Name &amp; Address of the Consignee</b>	<b>Qty.</b>
1)	Govt. Medical College & Hospital, Nagpur	01
<b>Total:</b>		<b>01</b>

*Rajesh*

(Dr. Rajesh Deshmukh)  
Managing Director  
Haffkine Bio Pharmaceutical Corporation Ltd.  
(Procurement Cell), Mumbai.