(Haffkine)

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
प्रशासकीय मान्यता निधी ३१,५०,०००/– Development & Strengthening of Regional Epilepsy Center with the help of Epilepsy Foundation (Committed PIP in 2018-19)	No.:7756 /Haffkine/Procurement Cell/E-1536/EEG Machine/2022-23. Date: 18/10/22

To,

M/s. Medicaid Systems
Plot No. 667, JLPL Industrial Park,
Sector 82, Mohali-140 306,
Punjab (INDIA).
E-Mail: medicaidsys@gmail.com
         ravi16kaushal@yahoo.co.in

Subject :   Supply Order for Tender No. E-1536/EEG Machine.
Reference: 1. Tender No. E-1536/HBPCL/PC/EEG Machine/2019-20.
2. शा.नि.क्र. : प्रशामा-१२१८/प्र.क्र. ६७१/आरोग्य-७ दि. २० फेब्रुवारी, २०२१.
3. Sanction of Tender Approval Committee Meeting No. 161 Dated 29.07.2022.

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 (DHS)	Unit Rate inclusive of GST(Rs.)	Total Amount Rs.
1.	**EEG Machine** **Make** : Medicaid **Model** : NEUROMAX (NMX-40)	**As per Annexure X**	09	3,70,000/-	**33,30,000/-**
Total amount in words: Rupees Thirty Three Lakhs Thirty Thousand Only.					
Factory Location: M/s. Medicaid Systems Plot No. 667, JLPL Industrial Park, Sector 82, Mohali-140 306, Punjab (INDIA). medicaidsys@gmail.com ravi16kaushal@yahoo.co.in					

1   **Forwarding:** Forwarding Free on Road Destination. I.e. door delivery basis.

2   **Delivery Period:** 06 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   **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 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. 49,950/-** of order value to meet other incidental expenditure and 3% i-e. **Rs. 99,900/-** 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

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.

5) System Integrator.

Copy to Consignee: Dean, As per Consignee List.: 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.

Sr. No.	Specifications of EEG Machine
1	Desktop system 15, 32/64 bits class Central Processing Unit with minimum characteristics: 3.0 GHz clock, 8Gb RAM, 1Tb HD, with USB port, CD/DVD, Dedicated graphic card
2	21" or higher widescreen LCD display
3	Windows 10 operating system for permitting higher security level and user permission customization.
4	Advanced User Interface completely based on Mouse, Icons, Menus and dedicated keyboard shortcuts
5	System for connection to 110/220 V @50/60 Hz.
6	Laser printer.
7	Ergonomic and compact trolley containing all devices and accessories
8	No extra power supply required, works on USB power.
9	24 Bit ADC, Bandwidth DC upto 4.4 KHz.
10	Sampling rate upto 16384Hz per channel
11	Automatic or Manual management of flash stimulation protocols, using Micromed flash stimulator or any compatible stimulator.
12	EEG 38 Channels (32 monopolar with 8 channels convertible to bipolar) Dedicated connectors for: ➢ 32 EEG channels ➢ 2x Bipolar channel at 128 Khz ➢ 3x channel for Oxymeter (option BSP OXY) ➢ 1x channel for market)
13	Large illuminated LCD display for immediate impedance check, trace and event view.
14	Possibility to use button for event marker during acquisition
15	Effective hardware sampling rate of 16 Khz Hz per channel on
16	Input Impedance higher than 1000 Mohm, Input signal range + 3.2 [Mv]
17	Noise lower than 0.1 microVolt rms @ 128 Hz Sampling Rate,
18	24 bit A/D conversion, conversion resolution: 0,097 microVolt,
19	Common Mode Rejection Ratio > 120 Db
20	Notch Filter Digital, 100 dB/decade. User selectable between 50,60 Hz or disabled,
21	Automatic online impedance check with display on both the acquisition computer and on the LCD display of the unit,
22	Acquisition modes: free labels naming, Autonomous calibration of the amplifiers and of the traces on the display by means of square waves of 100 microVolt pp at 0.5/1 Hz.
23	Noise artifact detection and rejection
24	Compatible with accessories for neonates, pediatric and adults
25	Date archive of patients, EEG traces and Video EEGs on Hard Disk, Flash Memories, CDs, DVDs, BDs, RAIDs using the same user interface. Advanced backup functions are also available, Multilevel advanced archive design for management of Resources, Patients, Records and Reports
27	Automatic recognition of already present patients. More than 24 fields for patient anagraphics and consultant notes with advanced search and display features by means of successive filtering

	of patient data. (report for VEEG, LTM/EMU, PSG)
28	Advanced multilevel statistic features for researches.
29	Integration of external diagnostic data like TEC, fMRI, Sleep analysis, etc.,
30	Automatic display of patient data in the report,
31	Option for automatic online or offline EEG analysis, event detection and reporting with online alarms,
32	Possibility to keep all reports online for fast search and consultation of patient history,
33	Option for archive integration in Hospital networks by means of support for standard hospital protocols (like HL7) through XML interface,
34	Option for archive integration with the most diffused Hospital Information Systems like Neuro Syn (Synapsys), Nexus and many others,
35	Template based report with possibility to easily define new custom reports
36	Patient ID and Date/time
37	Possibility to define pre-filtering and labelling for every acquisition channel,
38	Oversampling up to 32x to obtain the maximum conversion precision and dramatically lower electrical noise,
39	Possibility to change and save modification to the parameters (timebase, gain, filters, montages) during the acquisition,
40	Review of EEG and video during the acquisition (Split Screen) with possibility to use different montages in each window,
41	Shortcut keys for user defined annotations,
42	Online automatic impedance measurement with display in graphic or numeric format (Headbox and PC),
43	Amplifier automatic calibration and option for manual display calibration (square wave calibration).
44	Possibility to review more EEGs in the same time in different windows thus permitting comparison and studies between different patients and/or recordings,
45	Navigation bar for the entire EEG with indication of annotations and events,
46	Event window showing user annotations and events with automatic synchronization of EEG over a specific event.
47	Complete control of each channel display with definition of derivation, reference filtering, gain, colour,
48	Possibility to choose the reference between: common, average, biauricular or source ,
49	Display of every possible montage with acquired electrodes,
50	Deletion, copy and moving of EEG channels using drag-and-drop,
51	Full screen zooming of channels/sections of interest,
52	Possibility to save the current montage in the EEG file itself for sharing with other users,
53	Dedicated montage "as recorded" displaying the EEG exactly the same way it was acquired,
54	Advanced Annotations (customizable), Triggers and Markers management with automatic insertion algorithms,
55	Measure cursor with spectral analysis, automatic marker positioning and detection of peak frequency. Trace zooming complete of advanced functions to search for morphologic elements,
56	Possibility to modify reference: Monopolar (common), mathematical bi- auricular, average (customisable channels), source-laplacian (customizable channels and weight matrix).
57	Storage in MPEG2 or MPEG4 format for maximum quality or minimum file size,

58	Automatic video cut with possibility to schedule video cut and archiving jobs.
59	FULL-HD 1920 x 1080 (2 MegaPixel) progressive video acquisition at 25 frames per second.
60	Dedicated high definition display for video review.
61	Possibility to move the position of camera without external software or IR remote controls
62	Single frame resolution guaranteed
63	16:9 aspect ratio acquisition for panoramic view.
64	No need for online zooming, image is acquired with such a high definition to easily allow offline zooming.
65	Dedicated timer synchronous to the video frame.
66	Possibility to create CD-ROM /DVD containing Video EEG recordings readable from any PC without extra software licenses;
67	Separate management of EEG and video data
68	Possibility to integrate video in external applications like PowerPoint for presentations
69	Digital stereo or Sorround audio recording perfectly synchronized with video signal.
70	Integration with analysis applications for dedicated research monitorings.
71	Split Screen review of video and EEG during the acquisition.
72	Remote Review over the network during the acquisition.
73	Real time Networking with Video EEG multicast over the network.
74	Advanced software option for localisation analysis as coloured maps of amplitude/frequency or power/coherence spectra.
75	Possibility to choose interpolation algorithm: Linear, SPLINE or K-NN.
76	Full control on interpolation parameters.
77	Free setup of power bands.
78	Three- Dimensional representation on a rotating spherical map.
79	Play function with automatic forward and backward time moving.
80	Automatic synchronization of amplitude maps with the on-screen cursor.
81	Possibility to define the physical position of every electrode even using predefined grids.
82	Artifact rejection by means of filtering of input data and channels.
83	Possibility to choose between chart or mapping representation, single or multimapping, frequency bands, head shape, colour scale (logarithmic or linear), and so on…,
84	Possibility to monitor and move up to 35 amplitude maps in the same time.
85	Possibility to export analysis data in ASCII file for further analysis or export in Microsoft(R) Office® applications.
86	Image integration in the report.
87	Single or multiple channel analysis with selection of specific derivations.
88	Full definition of analysis parameters (epoch length, detrending, tapering, pre-filter).
89	Analysis of absolute or relative powers and coherence on user defined bands (6 standard bands, 1 extra band, Usable and Total).
90	Analysis of frequency indexes (SEF 95, Median, Peak, MDF) and possibility to define custim index as linear combination of any parameter.
91	Analysis of time domain parameters (Burst Suppression Ratio, Maximum, Minimum and Average values, IAEEG-CFM).
92	Data display of analysed parameters as DSA (Density Spectral Array) or Trend with possibility to display up to 8 trends in the same diagram.
93	Possibility to modify and move the user annotation during review,

94	Automatic sliding of EEG pages during review with selectable speed.
95	Tooltip showing display parameters of the single channel.
96	Measuring frequencies, amplitudes and durations.
97	Automatic display of modifications made to the standard montages.
98	Amplitude and time calibration options to adapt the review software to different monitors.
99	Montages definition by means of the easy "pick and place" mouse technique Possibility to define up to 30 basic montages plus inifinitecustom montages, also in review.
100	Many adjustable EEG filters and gains to be selected even duringacquisition: ➤ Low pass filter: cut-off frequency from 1 Hz to 1000 Hz in33 different steps, ➤ High pass filter: cut-off frequency from 0.016 Hz to 1000Hz in 46 different steps, ➤ Preinstalled reference gains: from 1 µV/mm to 1600 µV/mm in 50 different steps,
101	EEG timebase in seconds: from 0.02 seconds to 90 seconds per page in 45 different steps,
102	Input Impedance $> 10^{12}$ Ohm
103	Notch filter at 50 or 60 Hz,
104	Montage summary display on a dedicated graphical window.
105	Printout in A4/A3 format in every Windows compatible printer. Possibility to change printout parameters like timebase or filter.
106	Possibility to export/import EEG data in ASCII and/or EDF+ viewer, avi, jpeg, format,
107	Possibility to create CDROM/DVD/USB containing Video EEG readable on any Windows compatible PC.
108	Possibility to share EEG through the internet.
109	Support of both digital and analog PAL high definition camcorders,
110	Single or double infrared/colour cameras 25 frames per second, completed by video mixer,
111	SINCHRONISED VIDEO EEG ACQUISITION ADVANCED OPTIONS
112	Online video recording on Hard Disk with possibility to automatic archive Long Term Recordings,
113	Possibility to independently start/stop video acquisition while containing to save the EEG,
114	Video recording at 25 frames/second in full format (720 x 576), CIF or QCIF. Possibility to choose between MPEG 2 or MPEG4 compression,
115	Outstanding option to acquire Full High Definition video (1920 x 1080),
116	Digital stereo audio recording perfectly synchronized with video signal,
117	Split Screen review of video and EEG during the acquisition. Possibility to insert annotoations and comments (Online/Offline),
118	Real Time Networking with Video EEG multicast over the network,
119	Picture in Picture (PIP) option,
120	Adjustable video acquisition parameters for stup of video quality and possibility to move the video window in every position of the screen (evenoutside the application window),
121	Double screen to view EEG in one display and video in another display,
122	Automatic split and copy of EEG of EEG and video recording,
123	Synchronization with EEG window,
124	Definition of multiple alarms based on analysis results,
125	Possibility to export results in ASCII format for further analysis.

Consignee Details

M/s. Medicaid Systems	
EEG Machine **Make : Medicaid** **Model : NEUROMAX (NMX-40)**	
Delivery Period	06 weeks
PO Ref. No.	No.:7756 /Haffkine/Procurement Cell/E-1536/EEG Machine/2022-23. Date: 18/10/22

प्रशासकीय मान्यता निधी ३१,५०,०००/–
Development & Strengthening of Regional Epilepsy Center with the help of Epilepsy Foundation (Committed PIP in 2018-19)

Sr. No.	Name & Address of the Consignee	Oty. (DHS)
1.	जिल्हा सामान्य रुग्णालय, नाशिक.	01
2.	जिल्हा रुग्णालय, जळगाव.	01
3.	जिल्हा सामान्य रुग्णालय, ठाणे.	01
4.	जिल्हा सामान्य रुग्णालय, पुणे.	01
5.	जिल्हा सामान्य रुग्णालय, कोल्हापूर.	01
6.	जिल्हा सामान्य रुग्णालय, औरंगाबाद.	01
7.	जिल्हा सामान्य रुग्णालय, अकोला.	01
8.	जिल्हा सामान्य रुग्णालय, नागपूर.	01
9.	जिल्हा सामान्य रुग्णालय, लातूर.	01
Total :		**09**

मा. व्यवस्थापकीय संचालक यांच्या मान्यतेने व करिता

Dr. Sadanand Bhise
General Manager
Haffkine Bio Pharmaceutical Corporation Ltd.
(Procurement Cell), Mumbai.