



All India Institute of Medical Sciences Jodhpur

Admn/Prop/23/2019-AIIMS.JDH

Dated: 17th June 2019

Subject: Purchase of Intra-Operative Neural Monitoring System for the department of Neurosurgery at AIIMS, Jodhpur on proprietary basis - **Inviting comments thereon.**

The Institute is in the purchase of Intra-Operative Neural Monitoring System for the department of Neurosurgery at AIIMS, Jodhpur from M/s India Medtronic Pvt. Ltd, Mumbai on proprietary basis. The proposal submitted by M/s India Medtronic Pvt. Ltd, Mumbai and PAC certification by user are attached.

The above document are being uploaded for open information to submit objection, comments, if any from any manufacturer regarding proprietary nature of the equipment within 21days of issue giving reference Admn/Prop/23/2019-AIIMS.JDH. The comments should be received by office of Administrative Officer, Medical College at AIIMS, Jodhpur on or before 08th July 2019 upto 03:00 PM failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Yours faithfully,

Administrative Officer

Enclosed: Related documents enclosed.



All India Institute of Medical Sciences Jodhpur

Medtronic

India Medtronic Pvt. Ltd.
CIN: U33110MH1993PTC204814
1241, Solitaire Corporate Park,
Building No.12, 4th Floor
Andheri-Ghatkoper Link Road,
Andheri (East), Mumbai - 400 093, India
www.medtronic.co.in

tel +91-22-33074700/1/2/3
fax +91-22-33074704

Date: April 9, 2018

To,
The Administrative Officer
All India Institute of Medical Sciences,
Jodhpur (Rajasthan)

This is to certify that NIM ECLIPSE® System consisting of the following modules are the proprietary items of Medtronic. They are being manufactured by Medtronic Xomed, 6743, Southpoint Drive North, Jacksonville, FL 32216, USA.

S.No.	Model #	Item Description
1	OPM660	Surgeon Directed 8 Channel module (allows Surgeon to operate and monitor from the Sterile Field with a unique Surgeon Controlled Probe. The Software provides audio and visual feedback allowing the surgeon to completely focus on the surgery)
2	8225720	NIM Pedicle Access Needle (the Patented, Integrated Instruments allows testing the integrity of pedicles before, during and after screw placements)

Thanking you,
For India Medtronic Pvt. Ltd.

Digitally signed
by Krishna
Balijepalli
Date: 2018.04.09
16:02:37 +05'30'

Krishna Balijepalli
Sr. Manager - Commercial Operations - RTG
Cell: +919620155514
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All India Institute of Medical Sciences Jodhpur

“Intra-operative Neuro-monitoring System” for Department of Neurosurgery

(01 in number)

Technical Specifications:

- A. The system should be capable of:
1. Surgeon controlled/directed (SD) and neurophysiologist-support (NP) capabilities in one system.
 2. Portable Laptop-based system
 3. Integrated remote monitoring capabilities.
 4. Electronic or hard copy screen shot storage.
 5. Electronic data storage of the entire procedure including EMG audio.
 6. Electro-surgery unit (ESU) interference muting.
 7. 32 channel neurological monitoring for intraoperative applications.
 8. Comprehensive EEG, EP and EM G monitoring with to 32 independent channels.
 9. Screen size should be greater than 15 inch.
 10. All EP modalities including SSEP, MEP, AEP, BAEP, VEP.
 11. Should allow adding any modality or channels while a running without stopping or pausing the monitoring.
 12. Should be SD+NS. SD mode should also incorporate feature SD Advanced option which shall allow few advanced parameters of NS module to be used in SD mode for higher end application.
 13. Should have both monophasic and biphasic stimulation for TceMEP. Also should be capable of Left-Right monophasic TceMEP stimulation (dual stim) on a single click.
 14. Secondary windows should have 2 DVR feeds, 2 timers and should allow the user to change the colour of the traces.
 15. Must be capable to adjust the display with multiple windows of different modalities to be dragged, dropped, resize or maximize.
 16. The free running modalities like EMG should always be running.
 17. Stimulators run all electric modalities.
 18. Up to 16 multimodality sets can be defined within test protocol
 19. Free running averaged or signal triggered data collection modes.
 20. All trace parameters (Filter, amplifier gain, gain, artefact rejection, time base, display scale Etc) should be fully user advisable and independent.
 21. Data can be saved manually or automatically as continuous EEG, free run EMG, Triggered EMG, DMG, audio, updated averaged EP Screen snapshots and video.
 22. Previously saved data can be reviewed while monitoring Review data locally or remotely via network modem or interned.
 23. Standard test protocols are provided and can be modified and saved by user.
 24. All patients' connections are both software and hardware and hardware protected against faults.
 25. Automatic pedicle screw integrity test mode.
 26. Module for easy EMG & MEP testing from the sterile field.
 27. Built in pulse-oximeter.
 28. In depending, high and low electrical stimulators for peripheral and direct nerve monitoring, Extensive stimulus triggering including non-repetitive, single pair and train.
 29. Fast and slow charge TceMEP stimulation mode.
 30. Reports can be automatically generated for every test and contain all necessary test information and additional user-specified information.
 31. Complete range of accessories and disposables for all monitoring modalities.

B. System should be able support below mentioned surgeon controlled/directed features:



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SB

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(Dr. Sunil Garg)

(Dr. M. S. ...)



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1. System should be operable by the operating surgeon from the sterile field via a sterile probe which allows surgeon to increase or decrease current, change the monitoring test mode and print reports.
2. An exclusively dedicated 8-channel module (pre-amplification and stimulation in a single box) capable of recording EMG, TrigEMG, Screw testing, Nerve proximity, MEP and train of four modalities.
3. Option of 2-channel Pulse-Ox recording.
4. Automated report generation for pedicle screw stimulation.
5. System should provide full control to surgeon from the sterile field with the help of surgeon controlled probe having buttons to give access to system parameters and test modalities.
6. Probe should allow the surgeon to select the modality, adjust the current and deliver the stimulus directly from the field.
7. Probes multicolour LED indicates test results.
8. Multiple manual and triggered EMG modes of operation.
9. Audible and visual feedback to surgeon.

C. Should support below mentioned Neurophysiologist – Support features.

1. Simulations 32-channel EP (MEP, SSEP, VEP, BAEP, etc.,) EMG and EEG Monitoring.
2. Built-In, Fast-charge TceMEP with double-train stimulation.
3. 2-channel Pulse-Ox capability.
4. Automated pedicle screw testing.
5. Surgeon's microscope view.
6. Simulation multisite remote monitoring and review.

D. Should at least support below mentioned Nerve Proximity test Screen.

1. Provide audio tone feedback indicating proximity to a nerve root.
2. Program automatically changes stimulation intensity while searching for an EMG response.

E. Should at least support below mentioned screw test capabilities:

1. Designed to quickly and automatically verify proper positioning of pedicle screws.
2. Stimulation intensity automatically increases until a response is generated.
3. Algorithm confirms response to avoid false test results.

F. Should have nerve root test screen:

1. Used to locate and quantify the health of a nerve.
2. Stimulation intensity automatically increases until a response is generated.

G. Consumables

Consumables for approximately 100 Cranial Applications to be supplied

1. Sub dermal needles for EP:
2. Ground Electrodes:
3. Ball tip probe:
4. Bi-polar stimulating probe.
5. Bi-polar concentric probe.
6. Mono-polar stimulating probe.
7. Finger electrode.
8. Temperature probe
9. Insert ear phones
10. Replacement ear tips.
11. ET tube with integrated monitoring electrodes.

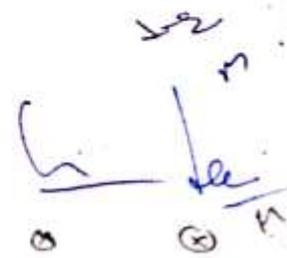


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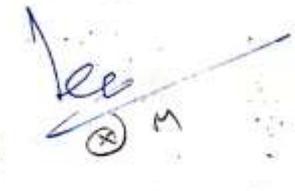
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12. Stimulating ring electrodes
13. Goggles for VEPs

Consumables for approximately 25 Spine Applications to be supplied

1. Sub dermal needles.
2. Cork screen electrodes for MEP & SSEP recording.
3. Ground electrodes.
4. Disposable surface electrodes
5. Ball tip probe.
6. Bi-polar stimulating probe
7. NIM pedicle probe straight.
8. NIM pedicle access needle.
9. NIM X-Pak Needle.:
10. NIM stimulate dilators.

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Sub: 
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