Amendment No. 1

Date: 13.10.2015

Subject: Amendment no. 01 to the Tender Enquiry Document

Ref: (i) Tender Enquiry No.: HLL/PCD/PMSSY-II/NAGPUR/10/15-16 dated 07.10.2015

The following item is added to the list of requirements,

Section I

Notice Inviting Tenders(NIT)

Sl. No	e- Tender Ref. No (Event No.)	Item Name	Department	Quantity	EMD (Rs.)
14	3000000351	Intra Operative neuro monitoring system	Orthopaedics	1	68,000.00

SECTION – VI

LIST OF REQUIREMENTS

PART – I

Sl. No	Item Name	Department	Quantity	Warranty (years)	CMC
14	Intra Operative neuro monitoring system	Orthopaedics	1	5 (five)	YES

Section – VII

TECHNICAL SPECIFICATIONS

Schedule No.14

SPECIFICATIONS OF INTRA OPERATIVE NEURO MONITORING SYSTEM

1. Equipment should have comprehensive intra-operative neuro-physiological monitoring facilities including but not limited to continuous monitoring of Evoked potentials (SSEP, MEP, VEP, BAEP), free run EMG and triggered responses and be capable of MIOM (multimodality intra-operative monitoring), i.e, simultaneous monitoring of EEG, EMG and Evoked Potentials etc
2.
    a. Equipment should have the capability of full surgeon access to controls and tests from the sterile field- Stimulator probe with menu navigation, intensity dial, trigger, Start /Stop buttons available. Visual & audio feedback available
    b. Equipment should have the capability to be solely operated by Surgeon.
    c. Easy for surgeon and his staff to learn, operate and interpret the signals
    d. Equipment should have the capability for user to create and save customized tests
    e. Equipment should have the a probe to provides full control of menu and functions to surgeon
    f. Equipment should have the capability for Automated pedicle screw testing, nerve proximity and nerve root testing through probe
    g. Equipment should have Evoked Potential recordings include Triggered EMG, Motor Evoked Potential and Sensory Evoked Potentials
    h. Equipment should have Sensory Potentials include Somatosensory Evoked Potential (SSEP), Visual Evoked Potential (VEP) and Brainstem Auditory Evoked Response (BAER)
    i. Equipment should have the ability for both slow charge and fast charge transcranial MEP (with and without double train)
    j. Equipment should be capable of producing both monophasic and biphasic MEP stimulation.
    k. Equipment should have the capability for pedicle screw testing, nerve proximity, train of four test and nerve root testing
    l. Equipment should have capability for upto 2 sites for transcranial MEP testing
    m. Equipment should have capability for upto 1000 volts max for MEP testing

n. Equipment should have capability for upto 8 stimulator ports for High electrical output and one stimulator port for low level electrical output.
o. Equipment should have capability for upto 16 channel (upgradable to 32 channel) EEG monitoring
p. Equipment should have EEG in CSA, DSA or CDSA formats

3. Equipment should have the capability of 2 channel pulse oximetry recording
4. Equipment should have free running EMG, triggered EMG and EEG monitoring
5. Equipment should have capability forDirect cortical stimulation
6. Equipment should have exclusive pedicle probes (straight, thoracic and lumbar) that tests for EMG response and identifies pedicle breach while pedicle hole preparation
7. Equipment should have pedicle access needles for DLIF approach
8. Equipment should have Motor Evoked Potential (both Single and double train)
9. Equipment should have both biphasic and monophasic MEP stimulation.
10. Equipment should have diagrammatic representations of electrode placement available on screen for different procedures available
11. Equipment should have the capability upto 1000 V MEP stimulation (for constant voltage source; max 1000 mA)
12. Equipment should have the safety feature of Maximum current delivery upto 1000mA during MEP
13. Equipment should have a mute detector probe to mute electrocautery interference
14. Equipment should have the capability to import and display Vital signs from a wide range of monitors
15. Data can be saved manually or automatically as continuous EEG, free run EMG, triggeredEMG, EMG audio, updated averaged EP, Screen snapshots and, Video
16. Equipment should have the capability to review previously saved data while monitoring, automatic recovery of data after power or system failure and multi-site remote monitoring and data review capabilities
17. Equipment should provide the surgeon both audio and visual feedback
18. Equipment should have on screen display of patient current
19. Equipment should have automated report generation for every test

20. Equipment should provide standard test protocols which can be modified and saved by user
21. Equipment should have Windows 7 Operating system
22. Equipment should have Notch filter : 50 or 60 Hz
23. Equipment should be capable of 16 channelmonitoring (32 inputs) and should provide options for both 8 channel surgeon controlled and upgrade option to 32channelas well.

All other terms and conditions of the tender enquiry remain unaltered.