Amendment No.1

Date: 06.01.2015

Subject: Amendment no. 1 to the Tender Enquiry Document

Ref: (i) Tender Enquiry No.: HLL/PCD/PMSSY/AIIMS-II/23/14-15 dated 06.01.2015

Section VII Technical Specifications

(1) **For:-**

Schedule No.3

Operating Microscope for neurosurgery

Read As:

Schedule No.3 INTRA OPERATIVE NEURO-MONITORING SYSTEM

- 1. Portable 16 channel amplifier with minimum 40 available inputs system capable of:
 - a. VEP
 - b. ABER
 - c. SSEP
 - d. Facial nerve stimulator
 - e. Tans cranial motor strip stimulator (MEP)
 - f. EEG
- 2. Any channel can be freely configured as differential and referential, through software to meet any IOM requirements
- 3. 4 independently controlled high level stimulators driving 12 stimulator sites and 1 dedicated low level stimulator.
- 4. Sample rate/ channel should be 12,000 Hz or better.
- 5. Must allow simultaneous acquisition i.e. able to record SSEP and AEP with EEG, CSA, EMG simultaneously.
- 6. Facility for stimulation and monitoring of Facial Nerve and other cranial nerves, both bipolar and monopolar (1 piece each should be supplied).
- 7. Peripheral nerve stimulator should be provided.
- 8. Facility to arrange data waveform stacks simultaneously.
- 9. Amplifier sensitivity 10 µ v to 100mV.
- 10. Electrode impedance digital display on screen
- 11. The system should be upgradable to 32 channel. (Price to be quoted separately)
- 12. The system must be supplied complete with:
 - a. Auditory stimulator (Tubal insert Head phone)
 - b. LED goggles 2 to be supplied
 - c. Isolated Electrical Stimulator for cranial and peripheral nerves
 - d. Laser Printer for records to be supplied
 - e. Appropriate capacity UPS to be supplied
 - f. Should be supplied with dedicated trolley.

13. Neuro monitoring start up kit must include all requisite accessories, cables, electrodes etc. namely but not limited to:

a.	Extension Cables		06	Nos.
b.	Reusable Cup Electrodes (Gold or Silver)		30	Nos.
c.	Disposable Subdermal Needles		200	Nos.
d.	Reusable Ground Plate Electrodes		04	Nos.
e.	Disposable Ground Plate Electrodes		24	Nos.
f.	Electrode Linkers		04	Nos.
g.	Reusable Bar Electrode		02	Nos.
h.	Ten 20 Paste		10	Nos
i.	Nu Prep Gel		05	Nos
j.	Strip electrodes for electrocorticography(4cl	nneel)	05	Nos
k.	Grid electode (4channel)		05	Nos
1.	Depth Electrode(4channel)		05	Nos
m.	Monopolar Stimulator	03	Nos.	
n.	Concentric Stimulators		03 No	S.
ο.	Forceps type probes		02 nos	S.

- 14. Laptop with latest Intel Core i7, 8 GB RAM, 1 TB or better Hard drive, DVD writer, Window based system must be provided.
- 15. Manufactures/Supplier should have ISO certificate to Quality Standard.
- 16. Should be compliant with IEC 61010-1:(or any international equivalent eg EN/UL 61010) covering safety requirements for electrical equipment for measurement control and laboratory use
- 17. Should be US FDA or European CE approved product.

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