

25-06-2017

Amendment No. 1**Sub: Amendment to the referred tender enquiry****Ref.: Tender Enquiry HITES/PCD/PMSSY-III/08/NRLG/2017-18 dated 20-06-2017**

The following changes are being incorporated in the above referred Tender Enquiry Document

**Section I
Notice Inviting Tender****Existing:**

(2) Tender timeline:

Sl. No.	Description	Schedule
d.	Closing date & time for submission of online bids	25.07.2017, 06:00 PM
c.	Closing date & time for submission of tender processing fee and EMD in physical form*	26.07.2017, 02:00 PM
e.	Time and date of opening of online bids	26.07.2017, 02:30 PM

Read as:

(2) Tender timeline:

Sl. No.	Description	Schedule
d.	Closing date & time for submission of online bids	08.08.2017, 06:00 PM
c.	Closing date & time for submission of tender processing fee and EMD in physical form*	09.08.2017, 02:00 PM
e.	Time and date of opening of online bids	09.08.2017, 02:30 PM

**Section VII
Technical Specification**

SCH 01. 8-12 Channel EMG -NCS-EP system		
Para	TENDER SPECIFICATION	READ AS
3	Must have 18 bit A/D conversion for high fidelity waveforms.	Must have 16 bit or more A/D conversion for high fidelity waveforms.
5	8-12 channels system with head montage	

	junction box with user configurable channels	8-12 channels system with montage junction box with user configurable channels
13	Averager: 18 bits, number of averaging 9,999	Deleted
25	Should have automatic separation of AP and CM waveforms in EcochG.	Deleted
27	Should have Somatosensory Evoked potentials with signal triggering and back averaging (SEP, SSEP, ECG triggered SSEP and ESCP) simultaneous SSEP and SEP measurement. (Preferably upto 10000 averaging)	Should have Somatosensory Evoked potentials (SEP, SSEP and ESCP) simultaneous SSEP and SEP measurement.
30	Should have Microsoft SQL Server based report generator for strong data base management.	Should have Microsoft SQL Server based/Microsoft word report generator for strong database management.
32	Should be able to perform Skin electrode impedance check at both junction box and console 2 to 20 K ohm	Should be able to perform Skin electrode impedance check at junction box/console 2 to 20 K ohm
36	Should have tremor analysis protocol software	Deleted
39	Branded PC with strict in-house quality checks by manufacturer to comply with medical equipment standard	Branded PC as per manufacture's recommended standards
39.a	PC Should be with latest i7 processor, 4 GB RAM, 1 TB Hard Disk or better, 8 USB ports or better with MS office	PC Should be with i5 or better processor, 4 GB RAM, 1 TB Hard Disk or better, 8 USB ports or better with MS office
40	Stimulus Software	
a	Should be supplied with a stimulus presentation software with pre Stimulus lists	Deleted
b	Should be supplied with Branded Laptop computer for presenting stimulus (i7 processor, 4 GB RAM, 1 TB Hard Disk)	
c	Should be Capable of playing movies	
d	Should Support for JPEG, GIF, PNG, and TIFF files	
e	Should have Trial variables for user configurable protocols	
41.f	Conductive paste (3 Jars of 300 gms) - 10 sets	Conductive paste (200 gms or more) - 20 nos
41.j	Single fibre EMG needle - 10 Nos	Single fibre EMG needle - 2 Nos

41.p	Trolley from OEM- 1 No	Amended as: Metallic trolley as per manufacture's recommendation . Should have option to mount all components - 1 nos
42b	Should be USFDA or European CE approved product.	The system should be European CE with four digit notified body number / US FDA approved.
SN	BOQ	BOQ
3	Stimulus software 1 no	Deleted
9	Conductive paste (3 Jars of 300 gms) - 10 sets	Conductive paste (200 gms or more) - 20 nos
13	Single fibre EMG needle - 10 Nos	Single fibre EMG needle - 2 Nos
19	Trolley from OEM- 1 No	Metallic trolley as per manufacture's recommendation - 1 nos

SCH 02. EMG/NCV/EP MACHINE 4 channel		
Para	TENDER SPECIFICATION	READ AS
1	Should have Nerve Conduction Studies MCS, NCS, F wave, H reflex, Collision, Blink reflex, RNST, Inching studies & CCV with temperature probe.	Should have Nerve Conduction Studies MCS, NCS, F wave, H reflex, Blink reflex, RNST, Inching studies & CCV with temperature probe.
3	Must have 18 bit A/D conversion for high fidelity waveforms.	Must have 16 bit or more A/D conversion for high fidelity waveforms.
5	4 channels system with head montage junction box with user configurable channels	4 channels system with montage junction box with user configurable channels
6	Two channel monophasic/biphasic constant current electrical stimulator with artifact compensation and temperature measurement for CCV.	Constant current/voltage Electrical stimulator
9	Noise < 0.6 micro volt RMS	Noise < 1 micro volt RMS
12	Averager: 18 bits, number of averaging 9,999	Deleted
14	4 Channel External input and External Output and Line I/O	Deleted
17	Should have compact stimulating electrode with convenient dials for stimulation intensity adjustment and delivery of electric stimulation with user configurable switches.	Deleted
18	System should have at least 1 triggers input / output, upgradable to 6 Triggers.	System should have at least 1 triggers input / output
25	Should have automatic separation of AP and CM waveforms in EcochG.	Deleted
27	Should have Somatosensory Evoked potentials with signal triggering and back averaging (SEP, SSEP, ECG triggered SSEP and ESCP) simultaneous SSEP and SEP measurement. (Preferably upto 10000 averaging)	Should have Somatosensory Evoked potentials (SEP, SSEP and ESCP) simultaneous SSEP and SEP measurement.

29	Provision of EEG data review in the EMG system - Preferably	Deleted
30	Should have Microsoft SQL Server based report generator for strong data base management.	Should have Microsoft SQL Server based/Microsoft word report generator for strong database management.
32	Should be able to perform Skin electrode impedance check at both junction box and console 2 to 20 K ohm	Should be able to perform Skin electrode impedance check at junction box/console 2 to 20 K ohm
34	Should have option of P-300, MRCP	Deleted
36	Should have tremor analysis protocol software	Deleted
39	Branded PC with strict in-house quality checks by manufacturer to comply with medical equipment standard	Branded PC as per manufacture's recommended standards
39.a	PC Should be with latest i7 processor, 4 GB RAM, 1 TB Hard Disk or better, 8 USB ports or better with MS office	PC Should be with i5 or better processor, 4 GB RAM, 1 TB Hard Disk or better, 8 USB ports or better with MS office
40	Stimulus Software	
a	Should be supplied with a stimulus presentation software with pre Stimulus lists	Deleted
b	Should be supplied with Branded Laptop computer for presenting stimulus (i7 processor, 4 GB RAM, 1 TB Hard Disk)	
c	Should be Capable of playing movies	
d	Should Support for JPEG, GIF, PNG, and TIFF files	
e	Should have Trial variables for user configurable protocols	
41.f	Conductive paste (3 Jars of 300 gms) - 10 sets	Conductive paste (200 gms or more) - 20 nos
41.j	Single fibre EMG needle - 10 Nos	Single fibre EMG needle - 2 Nos
41.p	Trolley from OEM- 1 No	Metallic trolley as per manufacture's recommendation . Should have option to mount all components - 1 nos
42b	Should be USFDA or European CE approved product.	The system should be European CE with four digit notified body number / US FDA approved.
SN	BOQ	BOQ
3	Stimulus Software	
9	Conductive paste (3 Jars of 300 gms) - 10 sets	Conductive paste (200 gms or more) - 20 nos
13	Single fibre EMG needle - 10 Nos	Single fibre EMG needle - 2 Nos
19	Trolley from OEM- 1 No	Metallic trolley as per manufacture's recommendation - 1 nos

SCH 04. Portable EEG 32 Channel		
Para	TENDER SPECIFICATION	READ AS
1	The computer should be supplied with the system, after passing the strict in-house quality checks by the manufacturer to comply with medical equipment standard	Branded PC as per manufacture's recommended standards should be supplied with system
2	The system should be able to run on laptop battery for minimum 6 hours to acquire EEG signals artifact free in ICU and OT environment.	The system should be able to run on laptop battery for minimum 3 hours to acquire EEG signals artifact free in ICU and OT environment.
3	The system amplifier must be laptop powered & should not require any other power supply.	Deleted
4	Multifunctional electrode junction box with 32 channel EEG with minimum 4 Bipolar and 4 DC channels, channels for ECG, SpO2, Respiration	Multifunctional electrode junction box with 32 channel EEG including minimum 4 Bipolar and 1 DC channel, channels for ECG, SpO2, Respiration
8	Should be able to perform Skin electrode impedance check at both junction box and console to give the exact impedance in numeric values.	Should be able to perform Skin electrode impedance check at junction box or console to give the exact impedance in numeric values.
11	System should have 8 channel DSA for FFT trend analysis and 3D brain mapping	Deleted
17	EEG Data should be ported to an external storage media for reviewing in any PC with reformatting and remontaging with out the use of any additional software.	Deleted
18a	Laptop core i7 , 4 GB RAM, 1TB Hard Disk, 3 USB ports or better	Laptop core i5 or better , 4 GB RAM, 1TB Hard Disk, 3 USB ports or better
18g	Low filter settings: 0.08 Hz to 160 Hz	Low filter settings: 0.08 Hz to 10 Hz
18l	ECG Elimination filter in both acquisition and review mode.	Deleted
19t	10-20 Conductive Paste – 50 Nos	Conductive Paste (200gms or more) – 50 Nos
19u	Nu-prep Gel – 10 Nos.	Skin prepping gel(100gm or more) - 10 nos
20	Should be USFDA or European CE approved product.	The system should be European CE with four digit notified body number / US FDA approved.
SN	BOQ	BOQ
3	10-20 Conductive Paste – 50 Nos	Conductive Paste (200gms or more) – 50 Nos
4	Nu-prep Gel – 10 Nos.	Skin prepping gel(100gm or more) - 10 nos

SCH 05. Digital EEG Basic System 32 channel - Without video		
Para	TENDER SPECIFICATION	READ AS
1	The system should have 32 active channels including minimum 04 or more bipolar channels and 4 DC channels, capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest	The system should have 32 active channels including minimum 04 or more bipolar channels and 1 DC channel, capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest
	Multifunctional electrode junction box with 32 channel EEG with minimum 4 Bipolar and 4 DC channels, channels for ECG, SpO2, Respiration	Multifunctional electrode junction box with 32 channel EEG with minimum 4 Bipolar and 1 DC channel, channels for ECG, SpO2, Respiration
3	Should be able to perform Skin electrode impedance check at both junction box and console to give the exact impedance in numeric values.	Should be able to perform Skin electrode impedance check at junction box or console to give the exact impedance in numeric values.
13	Minimum Required Computer Specifications The system should have Core i7 PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB hard disk or better, latest windows software, latest MS office , DVD Writer, Laser printer, UPS – 1KVA and OEM trolley.	Minimum Required Computer Specifications The system should have Core i5 or better PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB hard disk or better, latest windows software, latest MS office , DVD Writer, Laser printer, UPS – 1KVA and metallic trolley as recommended by Manufacturer .
14a	No of channels: 32 with minimum 4 bipolar & 4DC	No of channels: 32 including minimum 4 bipolar & 1DC
14g	Low filter settings: 0.08 Hz to 160 Hz	Low filter settings: 0.08 Hz to 10 Hz
14t	10-20 Conductive Paste – 50 Nos	Conductive Paste (200gms or more) – 50 Nos
14u	Nu-prep Gel – 10 Nos.	Skin prepping gel(100gm or more) - 10 nos
SN	BOQ	BOQ
3	10-20 Conductive Paste – 50 Nos	Conductive Paste (200gms or more) – 50 Nos
4	Nu-prep Gel – 10 Nos.	Skin prepping gel(100gm or more) - 10 nos

SCH 06. Video EEG System 32 channel		
Para	TENDER SPECIFICATION	READ AS
1	The system should have 32 active channels	The system should have 32 active channels

	including minimum 04 or more bipolar channels and 4 DC channels, capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest	including minimum 04 or more bipolar channels and 1 DC channel, capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest
2	Multifunctional electrode junction box with 32 channel EEG with minimum 4 Bipolar and 4DC channels, channels for ECG, SpO2, Respiration	Multifunctional electrode junction box with 32 channel EEG including minimum 4 Bipolar and 1 DC channel, channels for ECG, SpO2, Respiration
14	Two high definition color digital video cameras for simultaneous recording with following capabilities. e) Should have approx 3 Mega Pixel	Two color digital video cameras for simultaneous recording with following capabilities (Makes: Sony/Panasonic or equivalent brands) e) Should have 1 Mega Pixel or better
15	Should have Spike ,Event Detector Software and brain mapping software	Should have Spike ,Event Detector Software
16	Minimum Required Computer Specifications The system should have Core i7 PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB hard disk or better, latest windows software, latest MS office , DVD Writer, Laser printer, UPS – 1KVA and OEM trolley.	Minimum Required Computer Specifications The system should have Core i5 or better PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB hard disk or better, latest windows software, latest MS office , DVD Writer, Laser printer, UPS – 1KVA and dedicated metallic trolley as recommended by Manufacturer .
17a	No of channels: 32 with minimum 4 bipolar & 4DC	No of channels: 32 including minimum 4 bipolar & 1DC
17g	Low filter settings: 0.08 Hz to 160 Hz	Low filter settings: 0.08 Hz to 10 Hz
17t	10-20 Conductive Paste – 50 Nos	Conductive Paste (200gms or more) – 50 Nos
17u	Nu-prep Gel – 10 Nos.	Skin prepping gel(100gm or more) - 10 nos
SN	BOQ	BOQ
3	10-20 Conductive Paste – 50 Nos	Conductive Paste (200gms or more) – 50 Nos
4	Nu-prep Gel – 10 Nos.	Skin prepping gel(100gm or more) - 10 nos

SCH 08. Video Polysomnography with 1 Camera

Para	TENDER SPECIFICATION	READ AS
1	Digital EEG system with minimum 40 channels of amplifier.	Digital EEG system with minimum 38 channels of amplifier.

2	Must have minimum 32 referential EEG Channels, 6 or more differential/bipolar channels and 2 or more DC Channels	Must have minimum 25 referential EEG Channels, 6 or more differential/bipolar channels and 1 or more DC Channels
3f	Low filter settings: 0.08 Hz to 160 Hz	Low filter settings: 0.08 Hz to 10 Hz
3g	High filter settings: 15 Hz to 500 Hz	High filter settings: 15 Hz to 300 Hz
12b	PAL format.	PAL/NTSC format.
16	Should have Spike ,Event Detector Software and brain mapping software	Should have Spike ,Event Detector Software
17	Must be supplied with 100 Nos. of Gold EEG electrodes, Conductivity Paste – 30 Nos. and Skin Prepping Gel – 10 Nos.	Must be supplied with 100 Nos. of Gold EEG electrodes, Conductivity Paste (200gm or more)– 30 Nos. and Skin Prepping Gel (100gm or more) – 10 Nos.
21	Acquisition PC should have Core i7 Processor, 8 GB RAM, 2 TB Hard Disk, DVD Writer, 21" or better color touch screen, Mouse, Keyboard, Set of Speakers, mic, Laser Printer, UPS -1kva, Dedicated OEM Trolley.	Acquisition PC should have Core i5 or better Processor, 8 GB RAM, 2 TB Hard Disk, DVD Writer, 21" or better color touch screen, Mouse, Keyboard, Set of Speakers, mic, Laser Printer, UPS -1kva, Dedicated metallic trolley as recommended by Manufacturer.
22	Should have Sleep Analysis hardware and software in order to record various physiological parameters like SaO2,Heart rate, Respiration,CO2, Esophageal pressure, CPAP, Airflow, Leg movement and rapid eye movement apart from EEG,ECG and EMG.	Should have Sleep Analysis hardware and software in order to record various physiological parameters like SaO2,Heart rate, Respiration,CO2, CPAP with titration device, Airflow, Leg movement and rapid eye movement apart from EEG,ECG and EMG.

SCH 09. High Tech Repetitive Transcranial Magnetic Stimulator (rTMS)		
Para	TENDER SPECIFICATION	READ AS
3d	Unique Burst Protocol option, such as Theta Burst and quadri pulse stimulation	Unique Burst Protocol option, such as Theta Burst
3e	Should have external interface for software serial computer interface: i For taking full control of the system by writing software. ii Synchronize with other control software e.g.: MRI, visual stimulus. iii Remote operation.	Deleted
5c	Air Film Sham Coil – 1 no.	Deleted
5d	Figure eight coil at least 25mm - 1 no (MRI compatible)	Figure eight coil at least 25mm - 1 no
5g	EMG Interface Module	EMG Interface Module to integrate system with existing EMG machine

5h	The system should be supplied with desktop PC with the following specs : Intel i7 processor 4 GB RAM, 1TB SATA Hard Disk, 21" TFT monitor, compatible Latest OS, DVD Burner, UPS. Should offer dual monitors one for user interface and other for displaying/recording EEG/EMG data or other optional software	The system should be supplied with desktop PC with the following specs : Intel i7 processor 4 GB RAM, 1TB SATA Hard Disk, 21" TFT monitor, compatible Latest OS, DVD Burner, UPS. Should offer displaying/recording EEG/EMG data or other optional software
6	The system should have facility for thermal print out for storing records of MEP	The system should have facility for thermal/Laser print out for storing records of MEP
7	The system should be supplied with at least 3 Power Supply Units (PSU).	The system should be supplied with suitable Power Supply Units (PSU).
8	Should be USFDA or European CE approved product.	The system should be European CE with four digit notified body number / US FDA approved.
SN	BOQ	BOQ
4	Air Film Sham Coil – 1 no.	Deleted

SCH 10. Transcranial Doppler System		
Para	TENDER SPECIFICATION	Added Para
		BOQ
		16MHz probe 1 no (Optional)

All other contents of the tender enquiry including terms & conditions remain unaltered.

Note:

- i. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**

Prebid-Representations (Pre-Bid date: 29.06.2017)

HITES/PCD/PMSSY-III/08/NRLG/17-18

SCH 01. 8-12 Channel EMG -NCS-EP system

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
3	Must have 18 bit A/D conversion for high fidelity waveforms.	16 bit A/D conversion The 18 bit A/D conversion has no clinical advantages over 16 bit. However only very few manufacturers have 18 bit. So this change will make the specification more broad based and more number of bidders can bid. As discussed in prebid	Amended as: Must have 16 bit or more A/D conversion for high fidelity waveforms.
5	8-12 channels system with head montage junction box with user configurable channels	8 -12 channels system with montage junction box The word "head" makes the shape of head box mandatory and is only of aesthetic importance. It has no clinical advantages, but mandating this limits competition, as everyone has a montage junction box, but most do not have a head shape. As discussed in prebid	Amended as: 8-12 channels system with montage junction box with user configurable channels
13	Averager: 18 bits, number of averaging 9,999	16 bits Same justification as for Point 3 above	Deleted
25	Should have automatic separation of AP and CM waveforms in EcochG.	As discussed in prebid As discussed in prebid	Deleted
27	Should have Somatosensory Evoked potentials with signal triggering and back averaging (SEP, SSEP, ECG triggered SSEP and ESCP) simultaneous SSEP and SEP measurement. (Preferably upto 10000 averaging)	ECG triggered SSEP/weighted averaging This change will make the specification more broad based and more number of bidders can bid, as ECG triggered SSEP/weighted averaging both technologies are used to remove the ECG artifact during SSEP tests. As discussed in prebid	Amended as: Should have Somatosensory Evoked potentials (SEP, SSEP and ESCP) simultaneous SSEP and SEP measurement.
30	Should have Microsoft SQL Server based report generator for strong data base management.	Microsoft SQL Server based Or/ Microsoft Word report generator This change will make the specification more broad based and more number of bidders can bid. SQL is only a database very limited.	Amended as: Should have Microsoft SQL Server based/Microsoft word report generator for strong data base management.
32	Should be able to perform Skin electrode impedance check at both junction box and console 2 to 20 K ohm	Skin electrode impedance check at both junction box / console Any one of the two locations for impedance check are used in normal practice, so it is not important to have both locations. Making the requested change will make the specification more broad based and more number of bidders can bid.	Amended as: Should be able to perform Skin electrode impedance check at junction box/console 2 to 20 K ohm
36	Should have tremor analysis protocol software	This feature is available with specific make. Request you to delete	Deleted

SCH 01. 8-12 Channel EMG -NCS-EP system

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
39	Branded PC with strict in-house quality checks by manufacturer to comply with medical equipment standard	Branded PC with strict quality norms stipulated by the manufacturer and suitable for EEG system. "In house quality checks" suggests the computer has to be supplied by manufacturer. Since world quality computer are directly available here, it will be cost effective and service effective to buy computer he software in any case will be supplied by Principal Company separately As discussed in prebid	Amended as: Branded PC as per manufacture's recommended standards
39.a	PC Should be with latest i7 processor, 4 GB RAM, 1 TBHard Disk or better, 8 USB ports or better with MS office	The specifications have asked for i7 processor, whereas our OEM PC comes with i5 processor. So we request you to amend the points as PC should be with latest i5 processor 4GB RAM, 1TB hard disk or better, 8USB ports or better with MS office	Amended as: PC Should be with i5 or better processor, 4 GB RAM, 1 TBHard Disk or better, 8 USB ports or better with MS office
40	Stimulus Software		
a	Should be supplied with a stimulus presentation software with pre Stimulus lists	Make it optional Basically all stimulators and softwares that are required to use the system clinically are already included in the specification. This special software is only used for high level research, which most of your listed hospitals may not use. This will just increase the costing of the machine by 4-5 lacs. So we request it be made optional, as it will reduce the purchase cost	Deleted BOQ to be changed accordingly
b	Should be supplied with Branded Laptop computer for presenting stimulus (i7 processor, 4 GB RAM, 1 TB Hard Disk)	As discussed in prebid	
c	Should be Capable of playing movies		
d	Should Support for JPEG, GIF, PNG, and TIFF files		
e	Should have Trial variables for user configurable protocols		
41.f	Conductive paste (3 Jars of 300 gms) - 10 sets	As discussed in prebid	Conductive paste (200 gms or more) - 20 nos BOQ to be changed accordingly
41.j	Single fibre EMG needle - 10 Nos	As discussed in prebid	Single fibre EMG needle - 2 Nos BOQ to be changed accordingly
41.p	Trolley from OEM- 1 No	High quality steel Trolley as per design of OEM- 1 No Indian made trolleys are available with equivalent quality. Why import a heavy steel item atmuch higher cost (Rs 2-3laks)and frieght cost? Design should confirm to Principal's standards as stated in suggested modification accordingly)	Amended as: Metallic trolley as per manufacture's recommendation . Should have option to mount all components - 1 nos BOQ to be changed accordingly
42b	Should be USFDA or European CE approved product.		Amended as: The system should be European CE with four digit notified body number / US FDA approved.

Prebid-Representations (Pre-Bid date: 29.06.2017)

HITES/PCD/PMSSY-III/08/NRLG/17-18

SCH 02. EMG/NCV/EP MACHINE 4 channel

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
1	Should have Nerve Conduction Studies MCS, NCS, F wave, H reflex, Collision, Blink reflex, RNST, Inching studies & CCV with temperature probe.	As discussed in prebid	Amended as: Should have Nerve Conduction Studies MCS, NCS, F wave, H reflex, Blink reflex, RNST, Inching studies & CCV with temperature probe.
3	Must have 18 bit A/D conversion for high fidelity waveforms.	16 bit A/D conversion The 18 bit A/D conversion has no clinical advantages over 16 bit. However only very few manufacturers have 18 bit. So this change will make the specification more broad based and more number of bidders can bid. As discussed in prebid	Amended : Must have 16 bit or more A/D conversion for high fidelity waveforms.
5	4 channels system with head montage junction box with user configurable channels	4 channels system with montage junction box The word "head" makes the shape of head box mandatory and is only of aesthetic importance. It has no clinical advantages, but mandating this limits competition, as everyone has a montage junction box, but most do not have a head shape. As discussed in prebid	Amended as: 4 channels system with montage junction box with user configurable channels
6	Two channel monophasic/biphasic constant current electrical stimulator with artifact compensation and temperature measurement for CCV.	As discussed in prebid	Amended as: Constant current/voltage Electrical stimulator
9	Noise < 0.6 micro volt RMS	As discussed in prebid	Amended as: Noise < 1 micro volt RMS
12	Averager: 18 bits, number of averaging 9,999	16 bits Same justification as for Point 3 above	Deleted
14	4 Channel External input and External Output and Line I/O	As discussed in prebid	Deleted
17	Should have compact stimulating electrode with convenient dials for stimulation intensity adjustment and delivery of electric stimulation with user configurable switches.	As discussed in prebid	Deleted
18	System should have at least 1 triggers input / output, upgradable to 6 Triggers.	As discussed in prebid	Amended as: System should have at least 1 triggers input / output
25	Should have automatic separation of AP and CM waveforms in EcochG.	As discussed in prebid	Deleted
27	Should have Somatosensory Evoked potentials with signal triggering and back averaging (SEP, SSEP, ECG triggered SSEP and ESCP) simultaneous SSEP and SEP measurement. (Preferably upto 10000 averaging)	ECG triggered SSEP/weighted averaging This change will make the specification more broad based and more number of bidders can bid, as ECG triggered SSEP/weighted averaging both technologies are used to remove the ECG artifact during SSEP tests. As discussed in prebid	Amended as: Should have Somatosensory Evoked potentials (SEP, SSEP and ESCP) simultaneous SSEP and SEP measurement.

SCH 02. EMG/NCV/EP MACHINE 4 channel

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
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34	Should have option of P-300, MRCP	As discussed in prebid	Deleted
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39.a	PC Should be with latest i7 processor, 4 GB RAM, 1 TBHard Disk or better, 8 USB ports or better with MS office	The specifications have asked for i7 processor, whereas our OEM PC comes with i5 processor. So we request you to amend the points as PC should be with latest i5 processor 4GB RAM, 1TB hard disk or better, 8USB ports or better with MS office	Amended as: PC Should be with i5 or better processor, 4 GB RAM, 1 TBHard Disk or better, 8 USB ports or better with MS office
40	Stimulus Software		
a	Should be supplied with a stimulus presentation software with pre Stimulus lists	Make it optional	
b	Should be supplied with Branded Laptop computer for presenting stimulus (i7 processor, 4 GB RAM, 1 TB Hard Disk)	Basically all stimulators and softwares that are required to use the system clinically are already included in the specification. This special software is only used for high level research, which most of your listed hospitals may not use. This will just increase the costing of the machine by	Deleted BOQ to be changed accordingly
c	Should be Capable of playing movies		
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41.f	Conductive paste (3 Jars of 300 gms) - 10 sets	As discussed in prebid	Conductive paste (200 gms or more) - 20 nos BOQ to be changed accordingly
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SCH 02. EMG/NCV/EP MACHINE 4 channel

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
41.p	Trolley from OEM- 1 No	High quality steel Trolley as per design of OEM- 1 No Indian made trolleys are available with equivalent quality. Why import a heavy steel item at much higher cost (Rs 2-3lakhs) and freight cost? Design should confirm to Principal's standards as stated in suggested modification accordingly)	Amended as: Metallic trolley as per manufacture's recommendation . Should have option to mount all components - 1 nos BOQ to be changed accordingly
42b	Should be USFDA or European CE approved product.		Amended as: The system should be European CE with four digit notified body number / US FDA approved.

Prebid-Representations (Pre-Bid date: 29.06.2017)

HITES/PCD/PMSSY-III/08/NRLG/17-18

SCH 04. Portable EEG 32 Channel

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
1	The computer should be supplied with the system, after passing the strict in-house quality checks by the manufacturer to comply with medical equipment standard	Computer should be supplied with the system, after passing the strict quality norms stipulated by the manufacturer and suitable for EEG system. This implication is to import the computer that at cheaper price with the same international qualities with local service on site support. The software will be supplied by Principal Company separately. As discussed in prebid	Amended as: Branded PC as per manufacture's recommended standards
2	The system should be able to run on laptop battery for minimum 6 hours to acquire EEG signals artifact free in ICU and OT environment.	The specifications are asking for impractical battery backup. So we request you to delete this point	Amended as: The system should be able to run on laptop battery for minimum 3 hours to acquire EEG signals artifact free in ICU and OT environment.
3	The system amplifier must be laptop powered & should not require any other power supply.	As discussed in prebid	Deleted
4	Multifunctional electrode junction box with 32 channel EEG with minimum 4 Bipolar and 4 DC channels, channels for ECG, SpO2, Respiration	2 DC or more Basically DC channels are not required in EEG machine; it is used in PSG study. Even in PSG also many sensors/channels are inbuilt and can be configured through USB/COM ports. It may be also seen that even the specifications for Video Polysomnography PSG (another item tendered by you in the same tender document) are asking for only 2 channels, which confirms above point	Amended as: Multifunctional electrode junction box with 32 channel EEG including minimum 4 Bipolar and 1 DC channel, channels for ECG, SpO2, Respiration
8	Should be able to perform Skin electrode impedance check at both junction box and console to give the exact impedance in numeric values.	As discussed in prebid	Amended as: Should be able to perform Skin electrode impedance check at junction box or console to give the exact impedance in numeric values.
11	System should have 8 channel DSA for FFT trend analysis and 3D brain mapping	As discussed in prebid	Deleted
17	EEG Data should be ported to an external storage media for reviewing in any PC with reformatting and remontaging with out the use of any additional software.	As discussed in prebid	Deleted
18a	Laptop core i7 , 4 GB RAM, 1TB Hard Disk, 3 USB ports or better	The specifications have asked for i7 processor, whereas our OEM PC comes with i5 processor. So we request you to amend the points as Laptop PC should be with latest i5 processor 4GB RAM, 1TB hard disk or better, 3USB ports or better	Amended as: Laptop core i5 or better , 4 GB RAM, 1TB Hard Disk, 3 USB ports or better

SCH 04. Portable EEG 32 Channel

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
18g	Low filter settings: 0.08 Hz to 160 Hz	0.08 to 10 Hz This change will make the specification more broad based and more number of bidders can bid, as 160 Hz has no clinical advantage, and is not used in clinical practice. In EEG the recommended low filter settings is 0.3 Hz	Amended as: Low filter settings: 0.08 Hz to 10 Hz
18l	ECG Elimination filter in both acquisition and review mode.	As discussed in prebid	Deleted
19s	EEG Electrode Gold Plated - 100 Nos.	The specifications are asking for specific type of electrodes. We provide different type of electrodes, which is equivalently good. So we request you to amend the point as "EEG electrode - 100 nos"	No change
19t	10-20 Conductive Paste – 50 Nos	The specifications are asking for specific brand, which we wont be able to supply. So we request you to amend the point as EEG conductive paste - 100 nos (Jar of 1000 gms or more)	Amended as: Conductive Paste (200gms or more) – 50 Nos BOQ to be changed accordingly
19u	Nu-prep Gel – 10 Nos.	The specifications are asking for specific brand, which we wont be able to supply. So we request you to amend the point as Prepping Gel - 10 nos (Jar of 125 gms or more)	Amended as: Skin prepping gel(100gm or more) - 10 nos BOQ to be changed accordingly
20	Should be USFDA or European CE approved product.		Amended as: The system should be European CE with four digit notified body number / US FDA approved.

Prebid-Representations (Pre-Bid date: 29.06.2017)			
HITES/PCD/PMSSY-III/08/NRLG/17-18			
SCH 05. Digital EEG Basic System 32 channel - Without video			
Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
1	The system should have 32 active channels including minimum 04 or more bipolar channels and 4 DC channels, capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest	2 DC or more Basically DC channels are not required in EEG machine; it is used in PSG study. Even in PSG also many sensors/channels are inbuilt and can be configured through USB/COM ports. It may be also seen that even the specifications for Video Polysomnography PSG (another item tendered by you in the same tender document) are asking for only 2 channels, which confirms above point.	Amended as: The system should have 32 active channels including minimum 04 or more bipolar channels and 1 DC channel, capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest
	Multifunctional electrode junction box with 32 channel EEG with minimum 4 Bipolar and 4 DC channels, channels for ECG, SpO2, Respiration	2 DC or more Reason is same as above	Amended as: Multifunctional electrode junction box with 32 channel EEG with minimum 4 Bipolar and 1 DC channel, channels for ECG, SpO2, Respiration
3	Should be able to perform Skin electrode impedance check at both junction box and console to give the exact impedance in numeric values.	As discussed in prebid	Amended as: Should be able to perform Skin electrode impedance check at junction box or console to give the exact impedance in numeric values.
13	Minimum Required Computer Specifications The system should have Core i7 PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB hard disk or better, latest windows software, latest MS office , DVD Writer, Laser printer, UPS – 1KVA and OEM trolley.	The specifications have asked for i7 processor & latest windows software, whereas our OEM PC comes with i5 processor & windows 7. So we request you to amend the points as the system should have core i5 PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB harddisk or better, latest compatible windows software, latest MS office, DVD writer, Laser printer, UPS 1KVA and OEM trolley Trolley as per design of OEM Indian made trolleys are available with equivalent quality. Why import a heavy steel item at much higher cost (Rs 2-3lakhs)and freight cost? Design should confirm to Principal's standards as stated in suggested modification	Amended as: Minimum Required Computer Specifications The system should have Core i5 or better PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB hard disk or better, latest windows software, latest MS office , DVD Writer, Laser printer, UPS – 1KVA and metallic trolley as recommended by Manufacturer .
14a	No of channels: 32 with minimum 4 bipolar & 4DC	2 DC or more Justification same as that for point no 1 above As discussed in prebid	Amended as: No of channels: 32 including minimum 4 bipolar & 1DC

SCH 05. Digital EEG Basic System 32 channel - Without video

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
14g	Low filter settings: 0.08 Hz to 160 Hz	0.08 to 10 Hz This change will make the specification more broad based and more number of bidders can bid, as 160 Hz has no clinical advantage, and is not used in clinical practice. In EEG the recommended low filter settings is 0.3 Hz.	Amended as: Low filter settings: 0.08 Hz to 10 Hz
14s	EEG Electrode Gold Plated - 100 Nos.	The specifications are asking for specific type of electrodes. We provide different type of electrodes, which is equivalently good. So we request you to amend the point as "EEG electrode - 100 nos"	No Change
14t	10-20 Conductive Paste – 50 Nos	The specifications are asking for specific brand, which we wont be able to supply. So we request you to amend the point as EEG conductive paste - 100 nos (Jar of 1000 gms or more)	Amended as: Conductive Paste (200gms or more) – 50 Nos BOQ to be changed accordingly
14u	Nu-prep Gel – 10 Nos.	The specifications are asking for specific brand, which we wont be able to supply. So we request you to amend the point as Prepping Gel - 10 nos (Jar of 125 gms or more)	Amended as: Skin prepping gel(100gm or more) - 10 nos BOQ to be changed accordingly

Prebid-Representations (Pre-Bid date: 29.06.2017)

HITES/PCD/PMSSY-III/08/NRLG/17-18

SCH 06. Video EEG System 32 channel

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
1	The system should have 32 active channels including minimum 04 or more bipolar channels and 4 DC channels, capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest	2 DC or more Basically DC channels are not required in EEG machine; it is used in PSG study. Even in PSG also many sensors/channels are inbuilt and can be configured through USB/COM ports. It may be also seen that even the specifications for Video Polysomnography PSG (another item tendered by you in the same tender document) are asking for only 2 channels, which confirms above point. As discussed in prebid	Amended as: The system should have 32 active channels including minimum 04 or more bipolar channels and 1 DC channel, capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest
2	Multifunctional electrode junction box with 32 channel EEG with minimum 4 Bipolar and 4DC channels, channels for ECG, SpO2, Respiration	2 DC or more Same as above As discussed in prebid	Amended as: Multifunctional electrode junction box with 32 channel EEG including minimum 4 Bipolar and 1 DC channel, channels for ECG, SpO2, Respiration
14	Two high definition color digital video cameras for simultaneous recording with following capabilities. e) Should have approx 3 Mega Pixel	The specifications are asking for Two HD camera. Spec is available with specific brand. Request you to delete this point	Amended as: Two color digital video cameras for simultaneous recording with following capabilities (Makes: Sony/Panasonic or equivalent brands) e) Should have 1 Mega Pixel or better
15	Should have Spike ,Event Detector Software and brain mapping software	As discussed in prebid	Amended as: Should have Spike ,Event Detector Software

SCH 06. Video EEG System 32 channel

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
16	Minimum Required Computer Specifications The system should have Core i7 PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB hard disk or better, latest windows software, latest MS office , DVD Writer, Laser printer, UPS – 1KVA and OEM trolley.	<p>The specifications have asked for i7 processor & latest windows software, whereas our OEM PC comes with i5 processor & windows 7. So we request you to amend the points as the system should have core i5 PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB harddisk or better, latest compatible windows software, latest MS office, DVD writer, Laser printer, UPS 1KVA and OEM trolley</p> <p>Trolley as per designed of OEM Indian made trolleys are available with equivalent quality. Why import a heavy steel item at much higher cost (Rs 2-3lakhs)and freight cost? Design should confirm to Principal's standards as stated in suggested modification(BOQ to be modified accordingly)</p>	<p>Amended as: Minimum Required Computer Specifications The system should have Core i5 or better PC with 4GB RAM, 21" color touch screen display, multimedia speakers, optical mouse, 1TB hard disk or better, latest windows software, latest MS office , DVD Writer, Laser printer, UPS – 1KVA and dedicated metallic trolley as recommended by Manufacturer .</p>
17a	No of channels: 32 with minimum 4 bipolar & 4DC	2 DC or more Same s for point no1 above	Amended as: No of channels: 32 including minimum 4 bipolar & 1DC
17g	Low filter settings: 0.08 Hz to 160 Hz	0.08 to 10 Hz This change will make the specification more broad based and more number of bidders can bid, as 160 Hz advantage, and is not used in clinical practice. In EEG the recommended low filter settings is 0.3 Hz. As discussed in prebid	Amended as: Low filter settings: 0.08 Hz to 10 Hz
17s	EEG Electrode Gold Plated - 100 Nos.	The specifications are asking for specific type of electrodes. We provide different type of electrodes, which is equivalently good. So we request you to amend the point as "EEG electrode - 100 nos"	No Change
17t	10-20 Conductive Paste – 50 Nos	The specifications are asking for specific brand, which we wont be able to supply. So we request you to amend the point as EEG conductive paste - 100 nos (Jar of 1000 gms or more)	Amended as: Conductive Paste (200gms or more) – 50 Nos BOQ to be changed accordingly
17u	Nu-prep Gel – 10 Nos.	The specifications are asking for specific brand, which we wont be able to supply. So we request you to amend the point as Prepping Gel - 10 nos (Jar of 125 gms or more)	Amended as: Skin prepping gel(100gm or more) - 10 nos BOQ to be changed accordingly

Prebid-Representations (Pre-Bid date: 29.06.2017)

HITES/PCD/PMSSY-III/08/NRLG/17-18

SCH 08. Video Polysomnography with 1 Camera

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
1	Digital EEG system with minimum 40 channels of amplifier.	The specifications are asking for min 40 channels of amplifier, where as for polysomnography less than 32 channels are required. So we request you to amend the point as Digital EEG system with minimum 32 channels of amplifier. Also need clarification if the specifications are for EEG system of polysomnography system. S we request accordingly to mention polysomnography instead of EEG system	Amended as: Digital EEG system with minimum 38 channels of amplifier.
2	Must have minimum 32 referential EEG Channels, 6 or more differential/bipolar channels and 2 or more DC Channels	As discussed in prebid	Amende as: Must have minimum 25 referential EEG Channels, 6 or more differential/bipolar channels and 1 or more DC Channels
3	Amplifier must also have built-in Oximetry, patient event button and photic connectivity	Please delete Photoc connectivity as it is company specific or make it optional	No change
3f	Low filter settings: 0.08 Hz to 160 Hz	As discussed in prebid	Low filter settings: 0.08 Hz to 10 Hz
3g	High filter settings: 15 Hz to 500 Hz	The above specification is available with a specific brand, so we request to amend the point as High filter settings : 15 to 300HZ	Amended as: High filter settings: 15 Hz to 300 Hz
9	Should be supplied with an LED photic stimulator so that photic artefacts doesn't interfere EEG signals.	Please delete this point as it is company specific	No change
12b	PAL format.	Please delete PAL format as Advanced cameras do not require PAL format	Amended as: PAL/NTSC format.
12d	Optical Zoom of 18 x or more and 12x digital zoom	Please make range of Optical zoom 12-18x	No change
16	Should have Spike ,Event Detector Software and brain mapping software	Please delete Brain Mapping Software	Amended as: Should have Spike ,Event Detector Software
17	Must be supplied with 100 Nos. of Gold EEG electrodes, Conductivity Paste – 30 Nos. and Skin Prepping Gel – 10 Nos.	The specifications are asking for specific type of electrodes. We provide different electrodes, which is equivalently good. So we request you to amend the point as "Must be supplied with 100nos of EEG electrodes, conductivity past 30 nos, and skin prepping gel 10 nos	Amended as: Must be supplied with 100 Nos. of Gold EEG electrodes, Conductivity Paste (200gm or more)– 30 Nos. and Skin Prepping Gel (100gm or more) – 10 Nos.

SCH 08. Video Polysomnography with 1 Camera

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
21	Acquisition PC should have Core i7 Processor, 8 GB RAM, 2 TB Hard Disk, DVD Writer, 21" or better color touch screen, Mouse, Keyboard, Set of Speakers, mic, Laser Printer, UPS - 1kva, Dedicated OEM Trolley.	The specifications have asked for i7 processor & latest windows software, where as our OEM PC comes with i5 processor & windows 7. SO we request you to amend the points as " Acquisition PC should have core i5 processor, 8GB RAM, 2 TB harddisk, DVD writer, 21" or better color touch screen, mouse, keyboard, set of speakers, MIC, laser printer, UPS 1KVA, OEM trolley	Amended as: Acquisition PC should have Core i5 or better Processor, 8 GB RAM, 2 TB Hard Disk, DVD Writer, 21" or better color touch screen, Mouse, Keyboard, Set of Speakers, mic, Laser Printer, UPS -1kva, Dedicated metallic trolley as recommended by Manufacturer.
22	Should have Sleep Analysis hardware and software in order to record various physiological parameters like SaO2,Heart rate, Respiration,CO2, Esophageal pressure, CPAP, Airflow, Leg movement and rapid eye movement apart from EEG,ECG and EMG.	Please Delete - Esophageal pressure & Please Modify - CO2 to etCo2	Amended as: Should have Sleep Analysis hardware and software in order to record various physiological parameters like SaO2,Heart rate, Respiration,CO2, CPAP with titration device, Airflow, Leg movement and rapid eye movement apart from EEG,ECG and EMG.
		In addition to the current Specification please add following points-	
		1-Software must be able to perform inter scorer comparison	No change
		2-Auto chin referencing	No change
		3-Manufacturing company shd have multiple office & authorized service in India	No change
		4-Integrated Intercom facility with camera for remote communication with patient	No change
		5-Please add following advanced titration device of same manufacturer with following modes 1. CPAP (w/C-Flex) 2. BiPAP S (w/AVAPS) 3. BiPAP ST (w/AVAPS) 4. BiPAP autoSV Advanced 5. Auto CPAP 6. Auto Bi-level 7. T (Timed) 8. PC (Pressure Controlled) 9. AVAPS - AE 10. Integrated Humidifier Included	No change

Prebid-Representations (Pre-Bid date: 29.06.2017)

HITES/PCD/PMSSY-III/08/NRLG/17-18

SCH 09. High Tech Repetitive Transcranial Magnetic Stimulator (rTMS)

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
2	The maximum output power should be 100% at 41-42Hz, 50% output at 96-100 Hz and 40% output at 100Hz	The maximum output power should be 80-100% at 25-40 Hz, 45-50%, at 46-75 Hz and 30-40% output at 85-100Hz The current specifications can be met by only one manufacturer (Magstim, UK). Since output is not an absolute value but a relative figure in %, and varies substantially based on the type of coil, coil diameter etc., power can only be mentioned in ranges. The suggested change will make the specification more broad based and more number of bidders can bid.	No change
3	Integrated color touch screen display	Integrated/External color touch screen display Current specification can be met by only one manufacturer. This change will make the specification more broad based and more number of bidders can bid	No change
3d	Unique Burst Protocol option, such as Theta Burst and quadri pulse stimulation	As discussed in prebid	Amended as: Unique Burst Protocol option, such as Theta Burst
3e	Should have external interface for software serial computer interface: i For taking full control of the system by writing software. ii Synchronize with other control software e.g.: MRI, visual stimulus. iii Remote operation.	As discussed in prebid	Deleted
5a	70mm Air Film Coil which delivers up to 3000 pulses at 120% motor threshold at 10Hz stimulation (Biphasic waveform) over a 30 minute period and remains within allowed temperature limits. – 1no.	70 - 100mm Air/liquid Film Coil 1. Different companies make coils of different diameters, all of which have same functionality. So instead of one fixed dia figure (70 MM), which is specific to only one manufacturer, we are proposing a range, which will cover all manufacturers. 2. Air-cooling is one method of coil cooling. The second method is liquid cooling which is more efficient. So we are suggesting including both options which will cover all manufacturers.	No change
5b	70mm air cooled coil – 1 no.	70 - 100mm air/liquid cooled coil Same justification as above point.	No change
5c	Air Film Sham Coil – 1 no.	Sham Coil – 1 no Air Film is proprietary to one manufacturer: Magstim UK. We have suggested the change to allow all manufacturers to participate	Deleted BOQ to be changed accordingly

SCH 09. High Tech Repetitive Transcranial Magnetic Stimulator (rTMS)

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
5d	Figure eight coil at least 25mm - 1 no (MRI compatible)	<p>Figure eight coil at least 25mm - 1 no (optional: MRI Compatible) MRI compatible coils adequate. If the RTMS has to be done inside MRI, then the whole equipment has to be designed to be MRI Compatible. Plus additional accessories like trigger boxes, filters etc have to be provided. This will make the cost extremely high. Today MRI compatible coils are needed for brain research, which all may not be interested the unit cost for all colleges? Secondly: If MRI compatible coils is intended for coil positioning, the methodology is overtaken by 3D Neuro Navigation system, which is already included as option in this tender. Therefore we have suggested making MRI compatibility as optional</p> <p>As discussed in prebid</p>	<p>Amended as: Figure eight coil at least 25mm - 1 no</p>
5e	70mm double placebo coil – 1 no.	<p>70-100 mm figure of 8 placebo coil – 1 no. Same justification as “ Double” is replaced by figure of 8 as that makes it clearer</p>	No change
5g	EMG Interface Module	As discussed in prebid	<p>Amended as: EMG Interface Module to integrate system with existing EMG machine</p>
5h	<p>The system should be supplied with desktop PC with the following specs : Intel i7 processor 4 GB RAM, 1TB Sata Hard Disk, 21” TFT monitor, compatible Latest OS, DVD Burner, UPS. Should offere dual monitors one for user interface and other for displaying/recording EEG/EMG data or other optional software</p>	As discussed in prebid	<p>Amended as: The system should be supplied with desktop PC with the following specs : Intel i7 processor 4 GB RAM, 1TB Sata Hard Disk, 21” TFT monitor, compatible Latest OS, DVD Burner, UPS. Should offer displaying/recording EEG/EMG data or other optional software</p>
6	The system should have facility for thermal print out for storing records of MEP	<p>Thermal/A4 laser print out A4 laser print thermal print is wiped out after few days</p>	<p>Amended as: The system should have facility for thermal/Laser print out for storing records of MEP</p>
7	The system should be supplied with at least 3 Power Supply Units (PSU).	<p>With as required/ desirable power supply Units (PSU). If the desired output can be provided by single PSU in any company’s system, so why should they be asked to supply three PSU and increase the cost. So we have suggested that the number may be left to as required/desired by the system</p> <p>As discussed in prebid</p>	<p>The system should be supplied with suitable Power Supply Units (PSU).</p>

SCH 09. High Tech Repetitive Transcranial Magnetic Stimulator (rTMS)

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
8	Should be USFDA or European CE approved product.		Amended as: The system should be European CE with four digit notified body number / US FDA approved.
10a	Infrared camera based 3D Neuro Navigation System	3D Neuro Navigation System There are two technologies for 3D Neuro Navigation System. To allow both possibilities to be quoted, we have suggested this change.	No change

Prebid-Representations (Pre-Bid date: 29.06.2017)

HITES/PCD/PMSSY-III/08/NRLG/17-18

SCH 10. Transcranial Doppler System

Para	TENDER SPECIFICATION	RESPRESENTATION RECEIVED FROM THE BIDDERS	RECOMMENDATION
		As discussed in prebid	Added para in BOQ: 16MHz probe 1 no (Optional)