

28.10.2021

Pre- Bid Query Reply**Sub: Pre Bid Query Reply to the bidders for referred Bid Document****Ref.: HITES/PCD/AIIMS-IV/44/Neuro/21-22Dated: 14.09.2021****Pre Bid Query Reply**

Item Name: Video Polysomnography Tender ID:2021 HLL 88130 1				
(Clause No & Page No)	Tender Specification	Representations Received from the bidders	Committee Recommendation	Justification
page 43 , Point 2	Must have minimum 20 referential EEG Channels, 6 or more differential/bipolar channels and 2 or more DC Channels	We request you to amend the point as "Must have minimum 25 referential EEG Channels, 6 or more differential/bipolar channels and 3 or more DC Channels". As a complete 10-20 montage consist of 25 EEG electrodes. Further 2 DC channels would be consumed in CPAP integration & Body Position Marker only. So for future expansion you require more than 3 DC channels. Should have minimum 20 referential EEG Channels, 6 or more differential/bipolar channels and 1 or more DC Channels.	Must have minimum 20 referential EEG Channels, 6 or more differential/bipolar channels and 1 or more DC Channels	For Wider participation
Page 43,point 3c)	Noise < 1.5 micro volt Peak to peak	Please change it Noise < 2 micro volt peak to peak IEC 80601 recommends <6 μ V peak to peak .	Noise < 2 micro volt Peak to peak	For Wider participation
Page 43,point 3e)	Common mode rejection ratio: above 105 dB	Please change it Common mode rejection ratio: above 95 dB IEC 80601 recommends >87db	Common mode rejection ratio: above 95 dB	For Wider participation
Page 43,point 7	Amplifier and patient electrode connection box must be two separate devices so that least damage	Amplifier and patient electrode connection box must be two separate devices so that least damage happens to the amplifier when mishandling of	Amplifier and patient electrode connection box must be two separate devices or compact device so that least damage happens to the amplifier when	For Wider participation and better clarity of specification.

	happens to the amplifier when mishandling of the electrode connection box happens. Also the patient can carry electrode connection box while moving to washrooms.	the electrode connection box happens or the patient can easily carry complete Amplifier & connection box while moving to washrooms.	mishandling of the electrode connection box happens. Both amplifier and electrode connection box should be light weight, so that the patient can carry both amplifier and electrode connection box while moving to washrooms.	
Page 43 , Point 8	"Should be supplied with an LED photic stimulator so that photic artefacts doesn't interfere EEG signals".	We request you to amend the point to "Should be supplied with an High intensity photic stimulator so that photic artefacts doesn't interfere EEG signals" . As we have Xenon photic stimulator, which is worldwide accepted & offer full functionality. Also it does not interfere with the EEG, as working already being used worldwide. Also we request you to mention the intensity required.	Should be supplied with an LED or Xenon photic stimulator so that photic artefacts doesn't interfere EEG signals	For Wider participation
Page 43 , Point 10	Should have facility to record patient video using high resolution (HD min 720p) camera for day and night recording (IR camera), auto tracking with fully synchronized Video – 1Nos (Price should be quoted saperatly) and machine should be up-gradable to 2 camera without any	Please Remove Auto Traking	Should have facility to record patient video using high resolution (HD min 720p) camera for day and night recording (IR camera), with fully synchronized Video – 1Nos (Price should be quoted saperatly) and machine should be up-gradable to 2 camera without any extra cost	For Wider participation and better clarity of specification.
Page 43 Point No. 10 b)	PAL format	We request you to delete the point, as PAL format is not available in HD video option	PAL or equivalent format	For Wider participation
Page 43, point 10 d)	Optical Zoom of 12 x or more and 10x digital zoom	Optical Zoom of 10x or more.	Optical Zoom of 10 x or more and 10x digital zoom	For Wider participation
Page 43 Point No. 10	Should be supplied with remote for easy operations and settings".	We request you to amend the point as "Should be supplied with remote operations for easy operations and	Should be supplied with remote / remote access for easy operations and settings	For Wider participation

j)		settings" , As most of HD cameras are available with IP controls. So the camera controls are driven by software controls.		
Page 44 ,point 11	The system should be European CE with four digit notified body number/US FDA approved/BIS certified.	As per prebid discussions	The system should be European CE with four digit notified body number/US FDA approved/BIS certified. OR Should comply with IEC 60601-1, IEC 60601-2, IEC 80601-2-26 and valid test report for the quoted model to be submitted from any NABL accredited lab or labs in their country origin (in case of foreign manufacturers)	For Wider participation and to comply with make in India guidelines
Page 44 ,point 16	Sleep Electrode Starter Kit to consist of : 2sets(As per AASM) like - Sleep Transducers complete for Air flow-2, Snoring Sensor-2, Chest/Respiration sensors-2, Abdomen sensor-2, Body Position-2, Periodic Limb Movement-4, SPO2-2, EtCO2- 2 etc.	Please clarify whether you need a sensor for Etco2 2 numbers since ETCO2 is not a sensor itself	Sleep Electrode Starter Kit to consist of : 2sets(As per AASM) like - Sleep Transducers complete for Air flow-2, Snoring Sensor-2, Chest/Respiration sensors-2, Abdomen sensor-2, Body Position-2, Periodic Limb Movement-4, SPO2-2, integrated / compatible EtCO2 monitor (including transducer with cable)- 1 and the EtCO2 tracing should be visible and synchronised in the PSG trace	For better specification
Page 44 ,point 17	Should be supplied with review PC with networking between acquisition PC and necessary sleep/PSG software for review & reporting with minimum Core i5 Processor, minimum 4 GB RAM, 1 TB Hard Disk, DVD Writer, minimum 21" color LED Monitor, Mouse, Keyboard, Set of Speakers, mic, Laser Printer, UPS -1kva, Dedicated Trolley	As per prebid discussion	Added Para : The PC should have original Operating System and Compatible Original antivirus software with free upgrades. The offered PC should have bluetooth connection facility.	For better specification
	NA	As per prebid discussion	Added Para : The Polysomnography	For better specification

			software should be provided as per the latest AASM sleep scoring with compulsory facility for free updates. Data acquired should be portable for teaching purposes in any department computer without the need of purchase of any additional software.	
	NA	As per prebid discussion	Added Para : Water resistant cover should also be provided for the machine	For better specification

Item Name:-Portable EEG-EMG-NCV Machine :- Tender ID: 2021 HLL 88130 2

Page & Point No	Tender Specification	Representations Received from the bidders	Committee Recommendation	Justification
page 44	A General Single compact portable device that can perform EEG, NCS, needle EMG, Evoked potentials, and neurophysiological ICU monitoring."	We request you to amend the point as " Compact portable device that can perform EEG, NCS, needle EMG, Evoked potentials, and neurophysiological ICU monitoring ". As the feature asked in tender is limited to specific manufacturer's. So this will enable active participation from other vendors too.	A General Compact portable device that can perform EEG, NCS, needle EMG, Evoked potentials, and neurophysiological ICU monitoring, preferably in a single unit	For wider participation
page 44	A General The equipment shall confirm to international standards with certification authorities (ISO 13485 and European CE with four digit notified body number/USFDA/BIS approved).	As per prebid discussion	The equipment shall confirm to international standards with certification authorities (ISO 13485 and European CE with four digit notified body number/USFDA/BIS approved). OR Should comply with IEC 60601-1, IEC 60601-2, IEC 80601-2-26, IEC 60601-2-40 and valid test report for the quoted model to be submitted from any NABL accredited lab or labs in their country origin (in case of foreign manufacturers)	For Wider participation and to comply with make in India guidelines
page 44	A General The control panel should provide remote	We request you to amend the point as " The control panel should provide remote	A General The control panel should have provision to start and stop	For wider participation

	control start and stop recordings of EMG/NCS/EEG.	control start and stop recordings of EMG/NCS/EEG". As the feature asked in tender is limited to specific manufacturer's. So this will enable active participation from other vendors too.	recordings of EMG/NCS/EEG	
Page 45 , Point 1	B Hardware Number of channels, should be minimum 20 referencial + minimum 2 polygraphic /Bipolar channels with minimum 1 DC channel	Number of channels, should be minimum 20 referencial+ minimum 2 polygraphic /Bipolar channels. Please Remove DC Channel	Number of channels, should be minimum 20 referencial + minimum 2 polygraphic /Bipolar channels	For wider participation
Page 45	D. Laptop Specification Latest Intel i5 processor with 4 GB RAM, 500 GB HDD, DVD Writer ,optical mouse , 14-16' TFT monitor, LAN with suitable protable/trolley bag which hold EEG-EMG machine along with Laptop.	As per prebid discussion	Added Para : The Laptop should have original Operating System and Compatible Original antivirus software with free upgrades. The offered Laptop should have bluetooth connection facility.	For better specification
	NA	As per prebid discussion	Added Para : The software for EEG-NCV-EMG should be provided as per the latest international guidelines with compulsory facility for free updates. Data aquired should be portable for teaching purposes in any department computer without the need of purchase of any additional software.	For better specification
	NA	As per prebid discussion	Added Para : Water resistant cover should also be provided for the machine	For better specification

Item Name 3:-Basic Repetitive Transcranial Magnetic Stimulator (RTMS):- Tender ID: 2021_HLL_88130_3				
Page & Point No	Tender Specification	Representations Received from the bidders	Committee Recommendation	Justification
Page 46	The machine should deliver	As per prebid discussion	The machine should	For better

& point 1	rapid rate biphasic magnetic stimulation from 1–30 Hz for non invasive cortical or peripheral nerve stimulation.		deliver rapid rate magnetic stimulation from 1–30 Hz for non invasive cortical or peripheral nerve stimulation.	clarity
Page 46 & point 5	The system should have train duration of 0.5 – 100 sec, intertrain interval 0.5 – 300 sec & session duration of 0.5 – 30 min	Kindly amend the inter train Interval 0.5 - 120 sec. The Intertrain interval of 300 sec will be a huge gap between the pulses which nullify the stimulation effect created by the previous pulse and keep the patient in a non-stimulation mode for almost 5 mins	The system should have train duration of 0.5 – 100 sec, intertrain interval 0.5 – 120 sec or more & session duration of 0.5 – 30 min	For wider participation
Page 46 & point 6	The system should have various stimulus types like, Biphasic, Monophasic, Paired pulses etc.	Kindly amend the stimulus types like, Biphasic/Monophasic/Paired pulses etc.	The system should have various stimulus types like, Biphasic, Monophasic, Paired pulses	For better clarity
Page 46 & point 7	The system should be supplied with a computer with touch screen display for controlling the operation of magnetic stimulator, 2 Ch EMG to record Motor Evoked Potential and acquisition software with patient database.	Kindly amend the computer screen with TFT/Touch display. Touch screens are prone to become faulty and cannot be medically sanitized; thus, keeping an option of integrated TFT system is inclusive of several manufacturers.	The system should be supplied with a computer with touch screen / TFT display for controlling the operation of magnetic stimulator, 2 Ch EMG to record Motor Evoked Potential and acquisition software with patient database. Added Para : The computer should have original Operating System and Compatible Original antivirus software with free upgrades. The offered computer should have bluetooth connection facility.	For wider participation and better specification
Page 46 & point 11	The machine should be supplied with a Cooled angulated figure of eight coil (01 No), cooled big ring coil (01 No) and one sham/placebo coil (01 No).	As per prebid discussion	Added Para : Should have air cooling / Dynamic liquid cooling	For better specification

	NA	As per prebid discussion	Added Para : Water resistant cover should also be provided for the machine	For better specification
Page 47 & point 22	The rTMS system must be USFDA/European CE with four digit notified body number/BIS certified	As per prebid discussion	The rTMS system must be USFDA/European CE with four digit notified body number/BIS certified OR Should meet IEC 60601-1, IEC 60601-1-2 standards and should submit valid test report for the quoted model from any NABL accredited lab or labs in their country origin (in case of foreign manufacturers)	For Wider participation and to comply with make in India guidelines

Item no 4. Transcranial Doppler System (TCD Machine):- 2021 HLL 88130 4				
Page & Point No	Tender Specification	Representations Received from the bidders	Committee Recommendation	Justification
Page No 47 Point No. 3 a)	4 MHz -CW & PW (1 no. each) (Price should be quoted separately)	As per prebid discussion	Extra cranial probe 4 MHz -CW & PW - 1 No (1 no. each in case of separate CW and PW probe) (Price should be quoted separately)	For better clarity of specification
Page No 47 Point No. 3 b)	8 MHz -CW & PW (1 no. each) (Price should be quoted separately)	As per prebid discussion	Extra cranial probe 8 MHz -CW & PW - 1 No (1 no. each in case of separate CW and PW probe) (Price should be quoted separately)	For better clarity of specification
Page No 47 Point No. 3(C)	Add on Imaging Probe 5-10MHz-Optional	Should read as "Upgradable to Add on Imaging probe 5-10MHz from same manufacture" Reason: At any stage manufacturer change his distributor then customer will face service as well as warranty issue.	Add on Imaging Probe 5-10MHz-(from same manufacturer or compatible) Optional	For wider participation
Page 47 & point 13	Should have FFT size adjustable from 64 points to 512 points	Kindly amend this to 64 points to 256 points should be read as FFT size adjustable from 64 points to 256	Should have FFT size adjustable from 64 points to atleast 256 points	For wider participation

		points. Reason 512 come only with one company.		
Page 47 & point 20	Should be supplied with inbuilt PC of Pentium processor, 2 GB RAM, 15" inbuilt LCD touch panel monitor, 1TB GB Hard disk drive, Latest operating system , MS office, Keyboard. Computer / PC should not be separate. It should be one unit and portable to move around.	Kindly amend this to MS Office or equivalent.	Should be supplied with inbuilt PC of Pentium processor, 2 GB RAM, 15" inbuilt LCD touch panel monitor, 1TB GB Hard disk drive, Latest operating system , MS office, Keyboard. Computer / PC should not be separate. It should be one unit and portable to move around. Added Para : The PC should have original Operating System and Compatible Original antivirus software with free upgrades. The offered PC should have bluetooth connection facility.	For better specification
Page 48 & point 26	System should be US FDA/European CE with four digit notified body number/BIS approved product	As per prebid discussion	System should be US FDA/European CE with four digit notified body number/BIS approved product OR Should meet IEC 60601-1, IEC 60601-1-2 & IEC 80601-2-37 standards and should submit valid test report for the quoted model from any NABL accredited lab or labs in their country origin (in case of foreign manufacturers)	For Wider participation and to comply with make in India guidelines
Page 48 ,point No 27	Should be HL7 complaint system	Should read as "Should be HL7/DICOM complaint system. HL7 and DICOM both are used to share data on network. Also HL7 is brand specific Kindly amend this to HL7/DICOM Compliant System	Should be HL7 / DICOM complaint system.	For wider participation
	Suggestion by bidder	1. Should have VMR and PFO	Added Para :	For better

		study.	Should have VMR and PFO study.	specification
		2. Should have dedicated protocol for VMR and PFO study.	Added Para : Should have dedicated protocol for VMR and PFO study.	For better specification
		3. Should have option for dedicated reporting format for PFO study- It help to calculate number of HITS and make reporting easy and fast.	Added Para : Should have option for dedicated reporting format for PFO study	For better specification
		4. Should have auto depth feature- It help user to work freely and did not require to chance depth.	No Change	
		5. should have auto reporting in all modes with configurable threshold - it help user easy and fast reporting.	No Change	
		6. Should have automatic protection of insinuation power during ophthalmic and siphon measurements- It helps to prevent damage of retina even by mistake of user.	No Change	
		7. Should have password protection to protect from accidental changes.	No Change	
		8. The system should measure beat to beat pulse.	No Change	
		9. Should have option to save test on more than 10 depth without freezing(stopping) the test.	No Change	
		10. Should have Graphical pattern of selected parameters to show the patient diagnosis status- It helps the user to check that weather selected parameter is same, increasing or decreasing without reviewing or remembering the values of test done previously of same artery.	No Change	
BOQ Para 3	Extra cranial probe 4 MHz - CW & PW (1 no. each)	As per prebid discussion	Extra cranial probe 4 MHz -CW & PW - 1 No (1 no. each in case of separate CW and PW probe)	For better clarity of specification
BOQ Para 4	Extra cranial probe 8 MHz - CW & PW (1 no. each)	As per prebid discussion	Extra cranial probe 8 MHz -CW & PW - 1 No (1 no. each in case of separate CW and PW	For better clarity of specification

	NA	As per prebid discussion	probe) Added Para: Should provide head frame to hold the probes	For better clarity of specification
	NA	As per prebid discussion	Added Para: The original upgradable software should be provided and recording should be portable to view in another computer for teaching purposes without the need of any additional software.	For better specification
	NA	As per prebid discussion	Added Para : Water resistant cover should also be provided for the machine	For better specification

Item Name 5:-Repetitive Transcranial Magnetic Stimulator (RTMS):- Tender ID: 2021 HLL 88130 5				
Page & Point No	Tender Specification	Representations Received from the bidders	Committee Recommendation	Justification
Page 48 & Point No 1	It should be a highly effective non-invasive biphasic magnetic stimulator for bilateral cortical or peripheral and central nerve pathways stimulation. The maximum output power should be 100% at 41-42Hz, 50% output at 96-100 Hz and 40% output at 100Hz	Kindly remove this altogether. As Power in percentage is a misleading factor, percentage of power is a variable dependent on the power capability of the system and the absolute power output is determined by the coil design and the model. So the absolute power in magnetism delivered should be specified if possible. Also this particular line of specification is directly from the specifications of the system provided by M/s Magstim, UK To be Deleted (high lighted part) The maximum output power should be 30 Hz or more at 100% ,80 Hz at 50% and 44% output at 100 Hz . Reason why modification is suggested : specific to only one manufacturer (Magstim UK)(BOQ to be modified accordingly).this change will make the specification more broad based and more number of bidders can bid.	It should be a highly effective non-invasive biphasic magnetic stimulator for bilateral cortical or peripheral and central nerve pathways stimulation. The maximum output power should be 100% at 30 Hz or more , 50% output at 80 Hz or more and 40% output at 100Hz	For wider participation
Page 48	Integrated color touch screen	Kindly amend it as the Integrated	lnetgrated color touch /	For wider

<p>& Point No 1a)</p>	<p>display</p>	<p>TFT/Touch screen display. Touch screens are prone to become faulty and cannot be medically sanitized; thus, keeping an option of integrated TFT system is inclusive of several manufacturers</p> <p>Inetgrated colortouch/TFT screen display Reason why modification is suggested : specific to only one manufacturer (Magstim UK)(BOQ to be modified accordingly).this change will make the specification more broad based and more number of bidders can bid.</p>	<p>TFT screen display</p>	<p>participation</p>
<p>Page 48 & Point No 2</p>	<p>The pulse train interval should be user selectable with 0.1s increment and pulse width of 400 µS with maximum upper frequency of 100Hz.</p>	<p>Kindly Amend this Pulse width to 220µs as, to the best of our knowledge, none of the FDA/CE protocols involves such long pulse widths and inclusive of several manufacturers.</p>	<p>The pulse train interval should be user selectable with 0.1s increment and pulse width of minimum 200 µS with maximum upper frequency of 100Hz.</p>	<p>For wider participation</p>
<p>Page 48 & Point No 3</p>	<p>The system should be supplied with following USFDA/European CE with 4 digit notified body/BIS approved coils</p>	<p>As per prebid discussion</p>	<p>The system should be supplied with following coils</p>	<p>For clarity in specification (as the same is asked in para 6)</p>
<p>Page 48 & Point No 3a)</p>	<p>Minimum 70mm Air Film/hydrothermal technology 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. – 1 no</p>	<p>To be Deleted</p> <p>Minimum 70mm Air Film/Dynamic liquid unit technology 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. – 1 no Hydrothermal/Built in cooling means : Liquid is placed on surface of the coil , which gets heat up after 1-2 sessions , so better to asked for external/Dynamic cooling system which will run the system 24 x7 without overheating. External cooling system is available with all manufacturer , but offering just hypothermal /Built in cooling to get the price benefits of 10-12 lacs.</p>	<p>Minimum 70mm Air Film / dynamic liquid technology 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. – 1 no</p> <p>Added Para : Price should be inclusive of coolant also. Dynamic liquid cooling of coil should be provided (in case of Liquid Cooling)</p>	<p>For better specification</p>

Page 48 & Point No 3b)	70mm air cooled/ hydrothermal coil – 1 no	minimum 70mm air cooled/ Dynamic Liquid coil – 1 no	Minimum 70mm air cooled / dynamic liquid Coil	For better clarity
Page 48 & Point No 3d)	Minimum 70mm double placebo coil - 1 no	To be Deleted	No change	
Page 48 & Point No 3f)	EMG Interface Module to integrate system with existing EMG machine	EMG Interface Module to integrate system with TMS machine to be supply Needs this line to be more clarified ways.	EMG Interface Module with software should be provided	For better clarity
Page 48 & Point No 3g)	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, suitable UPS	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, suitable UPS of 1 KVA for computer.	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, 1 KVA UPS for computer Added Para : The PC should have original Operating System and Compatible Original antivirus software with free upgrades. The offered PC should have bluetooth connection facility.	For better clarity and better specification.
Page 48 & Point No 6	The system and the coils should be USFDA/European CE with four digit notified body/BIS certified	As per prebid discussion	The system and the coils should be USFDA/European CE with four digit notified body/BIS certified OR Should meet IEC 60601-1, IEC 60601-1-2 standards and should submit valid test report for the quoted model from any NABL accredited lab or labs in their country origin (in case of foreign manufacturers)	For Wider participation and to comply with make in India guidelines
Page 49 ,point 7	Should also have provision to attach other coil such as 90mm high power circular coil,	Should also have provision to attach other coil such as minimum 90mm high power circular coil,	Should also have provision to attach other coil such as minimum	For wider participation

	110mm double cone coil with rTMS system and the rates of these coils should be quoted separately.	110mm double cone coil with rTMS system and the rates of these coils should be quoted separately.	90mm high power circular coil, 110mm double cone coil with rTMS system and the rates of these coils should be quoted separately.	
Page 49, point 9a)	The bidder must quote price of following Options: (optional) Infrared camera based 3D Neuro Navigation System	Infrared camera /Electromagnetic based 3D Neuro Navigation System.	The bidder must quote price of following Options: (optional) Infrared camera / Electromagnetic based 3D Neuro Navigation System.	For wider participation
	NA	As per prebid discussion	Added Para : Water resistant cover should also be provided for the machine	For better specification

Note:

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