



175

**All India Institute of Medical Sciences, Bilaspur**  
**Himachal Pradesh- 174037**

No-AIIMS/BLS/Ped/2024-342

Date :- 01.01.2026

**CORRIGENDUM**

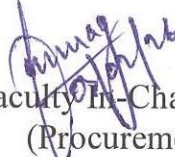
In reference to Bid No. GEM/2025/B/6958737; Dated-19.12.2025 floated on GeM portal for the procurement of 64 Channel EEG Machine, it is hereby notified for information of all prospective bidders that the Earnest Money Deposit (EMD) amount mentioned in the bid has been **revised** as detailed below:

Sr.no.	Particulars	Existing	Revised
1	EMD Amount	₹2,00,000/-	₹1,20,000/-

All other terms and conditions of the bid shall remain unchanged.

This corrigendum shall be treated as an integral part of the bid document. Bidders are advised to take note of the above change while submitting their bids.

Issued with the approval of the Competent Authority.

  
Faculty In-Charge  
(Procurement)  
AIIMS Bilaspur H.P.

**Technical Specification for Advanced 64 Channel EEG Machine****Amplifier:**

1. Video EEG system should have 64 channels, with additional 10 or more channels included to monitor various physiological parameters during polysomnography.
2. Amplifier must also have built-in Oximetry, pressure Sensor, patient event button and photic connectivity
3. The Electrode box should be of design of 10-20 International EEG Electrode Placement (Head Shaped) or Matrix shaped electrode connection.
4. Analog to Digital converter : 16 bits of ADC resolution or better
5. Sampling Rate : 1 KHz or better for each & every distinct channel.
6. Common Mode Input Impedance should be greater than 1 Gega Ohms
7. Equipment should be Sturdy to use
8. Input Noise (Peak to Peak) < 2  $\mu$ V
9. Input Bias Current < 1 Na
10. High Filter: 15 Hz to 300 Hz
11. Low Filter: 0.08 Hz to 5 Hz
12. Notch Filter: 50 Hz or off
13. Amplifier connectivity : Ethernet or USB
14. Must support both Static and Dynamic IP address while connecting to network
15. Trigger for synchronizing external events
16. Amplifier and patient electrode connection box must be two separate devices so that least damage happens to the amplifier when mishandling of the electrode connection box happens.
17. The electrode connection box should be so isolable that patient can carry electrode connection box while moving. Patient electrode box should be a portable one and light in weight.
18. The system should have the capability of acquiring data from both cap electrode and disc electrode.
19. Amplifiers should have an option to connect the Cap directly with single connector on the amplifier and not by individual connector for each channel.

**Software :**

20. Should have the ability to continue a previous recorded study in the software. i.e. appending the previous record on a later date or time
21. Should have a facility to configure data acquisition to start periodically in an automated fashion.

84

22. Software should allow the user to prune the PSG / EEG and Video data.
23. Software should have security features to allow / deny access to users to various function based on user profile.
24. Should have a report generation facility in MS-Word format/SQL based, which can be later assigned to particular patients.
25. Should have Individual Channel Control, Customization of Montages, along with remontage Capabilities through toolbar acceleration buttons.
26. Should Combine all user defined settings into templates or protocol, for use in different applications and the protocols should be available for user by a menu selection.
27. Should arrange montages into sets for different patient groups & should display a graphical view of the current montage during the EEG recording.
28. New Sensors should be included as standard viz assigned to amplifier inputs, define traces in a montage, define calculated channels (Average, Source/ Laplacian), or define Trends.
29. Facility to click any point to display corresponding traces & Slide pointer to change displayed duration of the Overview. Display of Time Scale in either elapsed time or time of day.
30. Sortable list of all events placed in the recording, both automatically and manually placed such that when the event is clicked, it shows the corresponding EEG.
31. Review and add events to recorded traces in Review Pane while still displaying live traces in Live Pane.
32. Should have Automatic Spike and Seizure Event Detector Software (online and offline)
33. Should have compatibility with research grade software like Persyst, BESA etc for future up gradation
34. Should have Density Spectral Array for atleast 20 channels.
<b>Photic Stimulator and HV:</b>
35. Should be supplied with White LED/Xenon photic stimulator on an adjustable stand so that photic artifacts don't interfere EEG signals with manual and automatic programmable through software.
36. Should have facility to adjust Intensity of LED/Xenon
37. Automatic time counters and event insertion during Hyperventilation.
<b>Video Camera:2 nos</b>
38. Digital Full HD Bosch / Panasonic/Sony/Axis or equivalent networked camera with fully synchronized video and have facility for video compression and high definition PTZ camera and should also have synchronization with Video and EEG recording with controlled from software with Sturdy Mic for sound recording.

39. 1/28 inch progressive scan CMOS Minimum Illumination Colour: 1.4lx
40. True Day/Night Mode
41. Auto-focus Zoom Lens
42. Minimum object distance upto 1500mm (tele)
43. Pan angle 340 degrees.
44. Simultaneous view of both cameras in single EEG recording
45. System should have Facility for Video Compression
46. Wall mounted High Definition (HD) Digital video Camera. Synchronisation between Video & EEG recording.
47. HD Networked Video Camera with PTZ Control to be provided along with the system.
<b>Acquisition Station Computer :</b>
48. Branded Desktop system from OEM with Core i5 Processor or better, 16 GB RAM, 256 GB SSD and 2 TB HDD, keyboard, optical mouse, 22" LED, UPS 1 KVA, Metallic Trolley with Caster (from OEM), Laser Printer (B & W) (Please see detailed IT specifications), Antivirus till warranty period, Isolation Transformer and it should be visa mount (from OEM). (Rest should also fulfil the specification provided by IT department of institution)
49. Should come preloaded with Microsoft genuine windows 10
50. Should come preloaded with the genuine latest Microsoft Office.
51. The data acquisition system should be supplied along with-recovery software created while initializing the machine.
<b>Accessories:</b>
52. Gold Plated/ OEM recommended (certificate to be provided) EEG Electrodes – 300 Nos. (Newly manufactured- Should be provided in set of 100 at delivery, at the end of one year and at the end of 2 years- Vendor/OEM to certify same on their letter head)
53. Patient Event Button – 2 Nos. (One for Patient and Other for Attendant) both connected at same time.
54. EEG Paste (200 Gms or more-Ten -20/Elefix) – 100 Nos. (100 at installation, 100 after 2 years), Skin Prepping Gel (110 Gms or more) – 20 Nos., Head Cap –Adult (Medium) Size – 1 Nos., Adult (Small) Size – 1 Nos., Adult (baby) Size-1 Nos., Neonate Size cap -1nos, Conductive gel - 2 nos, Measuring Tape – 1 No.
<b>Sleep Analysis and Hardware and Software:</b>
55. Should have Sleep Analysis hardware and software in order to record various physiological parameters like SaO2, Heart rate, Airflow, Leg movement apart from EEG, EKG and EMG.
• Should be Multimodality with CPAP/Auto/BiPAP/ST modes from reputed makers

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- Should be fully interfaced with sleep machine for real-time display of all parameters i.e. Inlet pressure, outlet pressure, leakage pressure etc.
- A comprehensive report should be generated along with PSG summary
- EtCO2 module in amplifier with real time display of CO2 wave and total EtCO2 percent along with PSG data and PSG report.

56. The Sleep staging software should have Automatic and manual Scoring and Staging and also have advanced Apnea analysis, Periodic leg movement analysis, ECG Analysis, Titration, Respiratory disturbance index, Apnea/ Hypopnea index.

57. Sleep Electrode Starter Kit to consist of:

Sleep Transducers complete for Air flow, Snoring Sensor, Chest & Abdomen sensors, Periodic Limb Movement, Nasal Cannulae(50 Nos.), SPO2 Sensor (Adult&Pediatric)-1 No. each, Body Position, Electrodes for ECG, Chin EMG, EOG. Abdomen & Thoracic Belt should have RIP technology.

58. Complete System (Hardware and Software) should comply with Latest 2020 AASM Guidelines.

59. Comprehensive Training to Lab Staff until familiarity with the equipment to be provided for atleast 1 week / till 5 sleep studies are done.

60. Should have annotation for light event and should mark "Lights off" and "Lights On"

61. Should have Interscorer Facility (comparison between various scoring on same study)

62. Should have Automatic Report Generation of all detection with hypnogram.

63. Bio-Calibration available from the patient bedside

#### Review Station (Total 01 in number):

64. System should be supplied with review stations networked with all Video EEG machines. Necessary networking to be done by vendor only.

65. Each Review station should have Branded Laptop with Core i7 processor or better, 15.6 inch screen or better, 16 GB RAM, 512 GB SSD, 4 TB portable SSD, optical wireless mouse and keyboard, USB Ports, genuine Windows 10, with Antivirus till warranty period, UPS – 1 KVA, Computer Table. Rest should also fulfil the specification provided by IT department of institution)

66. (Deleted)

#### Standards:

67. It is mandatory that the system should be Certified US FDA/CDSCI/BIS/ISO approved. Vendor to attach the Certificate clearly mentioning the model, address of manufacturer and validity on the certificate.

68. The Equipment must have 2 year warranty & 8 year CMC .
69. Bidder should have at-least 5 installation of the same quoted model in reputed Govt Hospital / Medical College/institutions. Performance Report from atleast 5 hospital should be attached alongwith technical bid.
70. Comprehensive Training to Lab Staff until familiarity with the equipment to be provided.
71. Price for required consumables and accessories should be quoted separately and freeze for 5 years.
<b>Turnkey Work</b>
72. Bed with matters -1
73. 2 ergonomically designed revolving chairs
74. One Amirah –large size to store consumables and various parts of the machine
75. Should do needful to resolve grounding related issues and other artefacts at the place of installment
76. To install 5 charts of waterproof material 18*24 cms in EEG room- material will be provided at the finalization of bid

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