

The sellers of the forensic equipment **Electro Encephalogram-Event related Potential (EEG-ERP) system** (a device capable of measuring brain's electrical activation to detect and to differentiate the persons involved in the crime like **Brain Electrical Oscillation Signature Profiling, Brain Fingerprinting, icognitive, etc.**) are invited to comment/suggest/confirm about specifications given below are not firm specific.

The comment/suggestion should reach Chief Forensic Scientist, Directorate of Forensic Science Services (cfs-dfss@nic.in) on or before 15th November 2023. No comment will be considered thereafter.

I Technical Specification for EEG-ERP System (An electro encephalogram capable of measuring brain's activation to detect and to differentiate persons involved in the crime)

Specification
<p>Modern EEG-ERP system or similar equipment for the detection of knowledge, involvement and planning of the crime under reference through</p> <ol style="list-style-type: none"> a. Adequate number of channels & electrodes to record the specific electrical activation of brain b. Appropriate accessories and sensors to record such specific brain activation.
<p>Preloaded software to identify the knowledge, involvement and the planning of the crime under reference. The software should include</p> <ol style="list-style-type: none"> a. Capacity to differentiate the perpetrator of the offence, the victim, the accomplice and the witness/bystander by presenting the appropriate stimulus/probes. b. Acquisition software with real time display, simultaneous acquisition & processing of data and auto save functions c. Adequate and appropriate stimulus presentation facility d. Analysis software with the functions Viz. artefact rejection, objective analysis of the forensic data generated e. Automatic analysis of the data acquired and auto generated report f. Case management module g. Real time video monitoring and recording facility
<p>Higher end computer with dual monitor (one for the examinee and another for the examiner) with laser printer, scanner and UPS with half an hour back up</p>
<p>Training in the probe selection, operation of the system and the analysis of the forensic data at the site of installation minimum for a period of 3 days to all the officers of the division and adequate certification if any.</p>

Hard copy of the peer review by a reputed scientific institution and scientific publication on the technique, studies conducted to establish the reliability and validity of the technique, accuracy rate of the technique should be provided

Up gradation of the software at the free of cost during the period of guarantee/ warrantee and comprehensive AMC.

Guarantee/warrantee at least for a period of 3 years and comprehensive AMC for the period of 4 years' after guarantee/warrantee period.

Technically short listed firm(s) is required to provide a functional demonstration in CFSL Delhi at their cost, on their system/technology about its capacity to detect the knowledge, involvement and planning of the crime and a capacity to differentiate the innocent bystander or witness in a simulated scenario.

Only on the successful functional demonstration before the Technical Evaluation Committee, the equipment will be recommended.