



NIMHANS/2019-20/IND352/CALL-2

29/02/2020

TENDER NOTIFICATION
(Through e-procurement portal only)

The Director, NIMHANS invites tender from eligible tenderers through the Karnataka Government E-Procurement portal for supply of following equipment.

Sl. No.	Name of the Item	Qty	EMD (in Rs)
1.	64 Channel EEG/ERP Machine	01	1,00,000/-

Tender Schedule

Downloading of Tender documents from website - https://eproc.karnataka.gov.in/eportal/index.seam	From 29.02.2020 Onwards
Last date for tender enquiry	20.03.2020 upto 11:00 AM
Tender submission last date and time	21.03.2020 upto 11:00 AM
Technical bid will be opened online by the authorized officer on	23.03.2020 at 11:00 AM

Terms and conditions

1. The bid documents for the above items should be addressed to “The Director, National Institute of Mental Health & Neuro Sciences, Post Box No. 2900, Hosur Road, Bengaluru – 560 029, Karnataka, India” and should be uploaded in E Procurement portal only on or before the due date (HARD COPY OF THE DOCUMENTS WILL NOT BE ACCEPTED).
2. The tender bid should be valid for **four months** from the due date. **NIMHANS, Bengaluru will not take any responsibility for any technical issues.**
3. **Earnest Money Deposit (EMD):**
 - 3.1. The (EMD) shall be denominated in Indian Rupees and shall be paid in the e-procurement portal using the following payment modes:
 - a. Credit Card.
 - b. Direct Debit.
 - c. Net Banking
 - d. National Electronic Funds Transfer (NEFT)
 - 3.2. The EMD shall not bear any interest and will be refunded to
 - a. Successful tenderer on receipt of Agreement and Bank Guarantee.
 - b. Unsuccessful tenderer upon finalization of tender bid and award of tender to successful bidder.
 - c. All the tenderers if the tendered item is cancelled or retendered.
 - d. EMD amount is exempted, if there enclose valid NSIC/MSME Certificate.
4. The tender documents and all correspondence’s relating to the bid should be in **English language only.**
5. **Technical bid should comprise of (uploaded copy of documents should be self attested and stamped) -**



NIMHANS/2019-20/IND352/CALL-2

29/02/2020

- 5.1 Brochure/Catalogue and Data sheet of the equipment.
- 5.2 Proprietary certificate from the manufacturer mentioning the unique technology or feature/s mentioned apart from the brand name (If applicable).
- 5.3 Pre requirements required at the installation site (Before submitting the bid, the tenderer should make pre-visit to the installation site and indicate the requirement along with the price bid wherever necessary)
- 5.4 Delivery Period of the item to be supplied and Time required for installation from the date of purchase order has to be indicated.
- 5.5 List of Institutes where the equipment has been supplied.
- 5.6 Copy of GST, PAN, TIN document
- 5.7 Whether tenderer is manufacturer / accredited agent / sole representative, indicate details of principal's name & address. The offers of tenderer who are not manufacturer or direct authorized agent will be summarily rejected. Sub- distributors will not be accepted.
- 5.8 Non – blacklisting certification that the firm has not been blacklisted in the past by any government/Private institution and certification for No Vigilance/CBI case pending against the firm/supplier by making an affidavit on non – judicial stamp paper of Rs 100/-.
- 5.9 Declaration towards acceptance of all terms and conditions should also be provided.

6. Financial Bid should comprise of:

6.1. Quotation should be only for Ex-NIMHANS i.e. NIMHANS Door Delivery Price and should have detailed information as per tendered specifications (such as main equipment cost, each article wise/spares rates, taxes, other Government levies, Customs duty, any local agency commission, transportation, delivery of the equipment to the Institute premises, installation and commissioning etc. Separately along with total cost) with manufacturers name, License number and name of the brand/make. Tender bids without price bid/quotation will be rejected.

Detailed breakup of the cost should be provided under icon “Action column” by clicking the % symbol which will be mentioned as Added statutory components .

6.2. The cost of the 64 Channel EEG/ERP Machine will be freezed for 1 Year from the date of purchase order; however the discretion towards purchase of the equipment will be at the discretion of the institute.

6.3. The tenderer should also submit separate quotation towards regular servicing/maintenance duly mentioning the number of visits per annum for the AMC/CMC period after the guarantee/warranty period is over. AMC/CMC should be quoted in INR only.

7. Successful tenderer decision will be made on the basis of base price, However the institute reserves the right to freeze the quoted AMC/CMC price for post warranty period with the successful tenderer.

8. The tender bids (technical and price bid) should be typewritten; every correction in the tender should be initialed along with seal by the tenderer, failing which the tender will be rejected. All pages of the bid submitted must be signed along with seal and sequentially numbered by the tenderer.



NIMHANS/2019-20/IND352/CALL-2

29/02/2020

9. Evaluation of Bids:-

The technical bid of the tenderer will be evaluated to determine whether

- a. They are complete with respect to specifications.
- b. They are free from computational errors.
- c. The requisite documents have been submitted and properly signed.

10. Tender Opening:

- a. The Technical bids will be unlocked through E procurement portal in the Committee Room, Adjacent to Registrar Chamber, NIMHANS, Bengaluru on the date specified in presence of tenderers or their representatives who choose to attend. The Tenderers' or representatives who are present shall submit authorization letter along with copy of Photo id proof and shall sign a register evidencing their attendance.
- b. The Financial bid of the technically qualified tenderer/s only will be opened on a notified date.

11. Equipment and its accessories should be covered with **minimum warranty period of 5 years** for normal or regular wear & tear from the date of complete installation (Ready to use in all respects). In case of software's, the validity of the license key should be clearly mentioned and should have user define provision with option to switch over from one system to other system of the same kind within the validity period.

12. Software Updates:

The selected firm for the supply of tendered item should provide free updates of software up to 5 years from the date of complete installation.

13. Supply of spares should be guaranteed for a minimum period of 10 years from the date of supply or from the date of cessation of production of the model for 10 years, whichever is later, at the rates prevailing against payment.

14. Any modification or revision of bids after submission will not be entertained under any circumstances. Conditions such as "subject to the availability of stocks", supplies will be made as and when supplies received from the principles etc., will not be considered under any circumstances.

15. A tenderer having once given a tender bid shall not withdraw it after its acceptance/opening and if does, the EMD paid by the tenderer will be forfeited and the tenderer is liable to make good the loss sustained.

16. If required, the tenderer should demonstrate the quoted model of the equipment at the institute during the technical evaluation, failing which their bid/offer shall be rejected. The tenderer will be intimated that they should get ready for demonstration. No request for extending time for demonstration will be entertained. Failure to demonstrate, their offer will be rejected.

17. The tenderer should supply the circuit diagram and instruction manual of the tendered equipment/s at the time of supply of the equipment.



18. Necessary training / instructions on operation of the system should be given by the qualified engineers of the tenderer firm to NIMHANS technical staff/s at free of cost after completion of the installation.
19. The successful tenderer should immediately submit an acceptance letter duly signed and sealed for the rate/s and offers agreed by both the parties to the Head of the Institution within reasonable time on receipt of the Purchase Order (Agreement Specimen will be enclosed with Purchase order & Stamp duty to be paid by the tenderer). The successful tenderer should also furnish a Bank guarantee only from a Nationalized bank to the extent of 10% of the total purchase order value, valid for 60 days beyond the completion of the warranty period of the equipment, no split period bank guarantee will be entertained. In the event of the successful tenderer failed to supply the item/execute the agreement/submit the Bank Guarantee the EMD deposited by them shall stands forfeited.
- 20. Payment terms:**
Payment will be made only after good working condition of the equipment certified by the end user. NO ADVANCE PAYMENT WILL BE ENTERTAINED.
- 21. Uptime Guarantee:**
Penalty Clause for non-functioning of equipment in term of hardship to the patients and financial loss to institute: 95% up time of 365 days (24 hours a day) that is from the day of successful handing over of the whole complex. The company takes the responsibility for the functioning of all the components and equipment, including the third party items supplied and included in the project. The total downtime annually for any reason/involvement of any of the components cannot exceed 5% (all inclusive). Subsequently if downtime exceeds 5% of 365 days, 0.5% of PO Value will be levied as penalty for every 7 days. In addition to this, warranty period will be extended at double the rate of the downtime period.
22. If, at any time, during the said period, the supplier reduce the said prices of such Materials/Equipment or sales such Materials/Equipment to any other person/organization/ Institution at a price lower than the chargeable, the company shall forthwith notify such reduction or sale to the Director, NIMHANS and the price payable for the Materials supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.
23. The losses to NIMHANS, Bengaluru, if any incurred on account of purchase made elsewhere by failure, neglect or refusal on the part of the tenderer to supply according to the terms of agreement will be recovered from them. If any article or things supplied by the tenderer have been partially or wholly used or consumed in the hospital and they are subsequently found to be in bad condition, unsound, inferior in quality or description, not in accordance with samples or otherwise faulty or unit for use, the wholesome of the contract price or price of such articles or things will be recovered from the tenderer. The tenderer will not be entitled for any payment whatsoever, for such articles for infringements of the stipulation of the conditions or for justifiable reasons the contract may be terminated by the Director and the tenderer shall be liable for losses sustained by the NIMHANS on the consequences of the termination which may be recovered from the EMD/Bank Guarantee or from their invoices due to them. In the



NIMHANS/2019-20/IND352/CALL-2

29/02/2020

event of such amount being insufficient, the balance will be recovered personally from the tenderer.

24. Any corrections/changes in the tender will be uploaded as corrigendum in the NIMHANS and E procurement websites only.
25. If the tender last/opening date falls on any general/government/institute holiday(s), then the successive dates will be postponed by equivalent days of holiday(s), however the time remains unchanged.
26. The Director reserves the right of ordering/not ordering/cancelling/increase or decrease the quantity and to reject any or all tender quotations without assigning any reason. The decision of the Director, NIMHANS, Bengaluru, shall be final in all the controversies that may arise in the matter. Any dispute arising out of this will be subject to the jurisdiction of the Court in Bengaluru.
27. Failure to adhere any of the above terms and conditions the bid(s) may be rejected and EMD may be forfeited.
28. None of the terms and conditions of the supplier shall be applicable to the purchase contemplated hereunder, irrespective of it being attached to any documents to be provided to NIMHANS. Such exercise shall have no meaning and binding effect unless the same is accepted by NIMHANS in writing.

NOTE: Please keep checking the NIMHANS and E-Procurement websites regularly for any further updates.

Sd/-
Director



NIMHANS/2019-20/IND352/CALL-2

29/02/2020

DECLARATION
(TO BE GIVEN BY THE TENDERER)

Name of the Item : **64 Channel EEG/ERP Machine**
Tender Reference No. : NIMHANS/2019-20/IND352/CALL-2 Dated 29.02.2020

Name of the company :

To

**The Director,
National Institute of Mental Health & Neurosciences
(Institute of National Importance)
Post Box No. 2900,
Hosur Road, Bengaluru – 560 029**

Dear Sir,

1. I/We hereby submit my/our tender for the
2. I/We have made requisite payment against EMD as per the tender document vide reference No. & date, else my tender bid may be rejected.
3. I/We have gone through all terms and conditions of the tender documents before submitting the same.
4. I/We hereby agree to all the terms and conditions, stipulated by the NIMHANS, in this connection including delivery, warranty, penalty etc. Quotations for each group are being submitted and shall be considered on their face value.
5. I/We undertake to sign the contract/agreement, if required, within reasonable time from the date of issue of the letter of acceptance, failing which our/my security money deposited may be forfeited and our/my name may be removed from the list of suppliers at the NIMHANS, Bengaluru.

NOTE: ALL TERMS & CONDITIONS SUCH AS TAXES/LEVIES ETC, HAS BEEN INDICATED IN THE QUOTATIONS FAILING WHICH IT WILL BE PRESUMED THAT THE RATES ARE INCLUSIVE OF ALL TAXES/LEVIES AND OTHER TERMS AND CONDITIONS ARE ALSO AS PER YOUR REQUIREMENTS.

Yours faithfully,

Signature of Tenderer & seal



NIMHANS/2019-20/IND352/CALL-2

29/02/2020

**CHECK LIST
(TO BE FILLED BY THE TENDERER)**

1	Name & Address of the Tenderer		
2	Name & Address Of the Manufacturer		
3	Name of the Equipment & Model Quoted		
4	Validity of the Quotation	Four months from the due date	
5	a. Delivery Period b. Warranty Period c. Installation Period	5 years	
6	Tender Bid details (Yes or No against each item)	a. Application Fee submitted	
		b. EMD submitted	
		c. Brochure/Catalogue uploaded	
		d. Manufacturer Proprietary certificate uploaded	
		e. Pre requirements details uploaded	
		f. List of users uploaded	
		g. Copy of GST/PAN/TIN & Bank details uploaded	
		h. Distributor authorization letter uploaded	
		i. Non-blacklisting certification uploaded	
		j. Declaration enclosed	
		k. Ex-Nimhans equipment cost quoted	
l. AMC & CMC cost after 5 years warranty			
8	Training will be provided (Yes or No)		
9	a. Whether after sales, service is available in Bengaluru? If yes, quote		
	b. What is the arrangement for post contract / warranty monitoring of the equipment?		
10	Details of the EMD Submitted (Reference no., date & bank details)		
11	Any Other Information (Enclose separately in letter head – Yes or No)		

Signature of Tenderer & seal



NIMHANS/2019-20/IND352/CALL-2

29/02/2020

Department		Clinical Psychology		64 Channel EEG/ERP Machine		
End User Contact Details						
Name		Dr. Jamuna Rajeswaran				
Designation		Professor, Dept. of Clinical Psychology				
Mobile No.		9880092042				
Office No.		+91-80-26995180/5453		EMD	Rs 1,00,000/-	
Email		drjamunarajan@gmail.com				
Sl. No.	Name of the Item & Specification				Qty	
1.	<p>64 channel EEG- ERP System</p> <p>1. Hardware</p> <ul style="list-style-type: none"> System should be a 64 channel Research EEG- ERP System, upgradeable upto 128 EEG channels. Should be supplied with Active Electrodes; each electrode should display the impedance with a multicolour LED on the electrode itself with 2 sets of electrodes and sensor kit. The amplifier should also allow recording with a lesser number of channels. The electrodes should have impedance conversion at electrode level leading to much lower noise levels compared to conventional passive electrodes. System should have inbuilt 8 Aux inputs for full range of biosignal sensors for peripheral recording. 24 Bit (one converter per channel) acquisition with High sampling rate up to 50 KHz & a hardware bandwidth of DC-20 kHz. Rapid application EEG that allows recording from Channels in 10-15 minutes (versus long application time) that is more comfortable for the subjects and allows high quality acquisition for longer duration. Systems should be able to receive TTL trigger event markers at the amplifier itself, in order to precisely mark the data of interest for online and offline analysis. System should be able to forward any TTL event markers received on its trigger input port - out to its trigger output port, for syncing of other devices. The electrodes should be removable from the Caps, so that various size Caps could be used, and the caps could be replaced without replacing the electrodes. Should be able to Integrate with Paradigm presentation system & online markers for stimulus presentation and responses with 8 Bit trigger 				1 No.	



input and output of each separately.

- System should be supplied with a Lithium ion based battery for ensuring longer recording times and long battery life with a low self discharge rate and should include charger for batteries.
- Electrodes should have a wide port to apply Gel.
- EEG devices should have a Sync port - to send markers at user set intervals to external equipment (fNIRS, tDCS) for synchronisation.
- Should be offered with an interface device to merge triggers from various sources. Triggers from serial port, Parallel port, TTL and Fibre optics. Should have a facility to stretch triggers. Should be able to toggle switches to regulate triggers bitwise. Should be able to provide virtual serial port via USB.
- Electrode placement on caps should be at standard 10-20 or related standards (10-10, 10-5 for higher number of channels).
- System should be configured with source & detectors montages to measure anywhere/ whole head, concurrently with fNIRS within a single cap.
- System should be compatible with all electrode types: passive AgCl, active, active dry and Water Based Net Cap.
- System should be offered with stimulus presentation software (E-Prime only) for ERP experiments. Proper event locking with complete hardware and software should be included.
- Suitable computers should be provided for paradigm designing and EEG Acquisition and Analysis.

Specifications for computer system:

1. Stimulus Presentation:

Latest generation i5 or higher Intel® Core processor, supporting extended dual display, 16 GB RAM, High Definition Integrated Realtek ALC221 Audio and integrated speaker as well as USB Powered Speakers, 1 TB storage, USB keyboard, Optical USB mouse, Windows 10 Pro 64 OS / Equivalent OS as required by the stimulus presentation and analysis software, one 27 inch monitor for stimulus presentation.

2. EEG Acquisition and analysis System:

Latest generation i5 or higher Intel® Core processor, with NVIDIA® Quadro® P1000 (4 GB) supporting extended dual display, 32 GB RAM, High Definition Integrated Realtek ALC221 Audio and integrated speaker as well as USB Powered Speakers, 2TB storage, USB keyboard, Optical USB mouse, Windows



	<p>10 Pro 64 OS / Equivalent OS as required by the stimulus presentation and analysis software, two 24 inch monitors.</p> <ul style="list-style-type: none">• For audio output, compatible speakers and earphones (tube earphones) must be provided; for speech input, compatible microphone must be provided.• A 1 KVA APC online UPS with 1hr backup• Consumables, such as conducting gel/paste, abrasion gel, saline etc. sufficient for EEG/ERP acquisition from 50 subjects must be provided along with the initial procurement <p>2. • Other Specifications -</p> <ul style="list-style-type: none">○ Max. Bandwidth of DC up to 7,500 Hz○ Digitization - 24 Bit (one converter per channel)○ Input Noise ~ 2 μV p.p. (DC - 35 Hz)○ Input voltage range - +/- 400 mV (EEG), \pm4.8 V (AUX)○ Common-mode rejection (CMR) > 100 dB○ Max. sampling rate : 50 KHz <p>3. Software</p> <ul style="list-style-type: none">• EEG System should be offered with Windows based Recording Software with hardware /software filter configuration, selecting the hardware filters on a channel by channel basis.• System should provide data acquisition with impedance less than 10kΩ (fairly easy) and it should be stable for a 2 to 3 hrs of ERP protocol. System should be based on Windows/Linux format (however Windows should be preferable).• System should be offered with High end post processing software for EEG ERP research with following features-• Reader for all industry formats, With History Tree• ERS/ERD: Methods for calculating event-related synchronization and desynchronization.• Filtering: Low cutoff, high cutoff, band rejection and notch filtering with a new graphical display of the filter functions.• FFT and Inverse FFT• Wavelets: Discrete wavelet transforms for the analysis of	
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neurophysiological signals in the time-frequency domain.

- Faster ICA algorithms, probabilistic ICA, semi automatic views for component selection (with topographical maps, component activity, preview of corrected data and overlay of the original data).
- ICA ocular correction: ICA correction with eye component selection methods based on objective criteria.
- LORETA: Source localization, further processing of source data.
- Real-time MATLAB® interaction: Interface for applying MATLAB® / EEGLab functions to transforms and templates. Problem-free forward / backward transfer of all dataset components and properties with automated node/template generation.
- The data should be easy to export in multiple formats such as ASCII, simple binary file, EDF, EDF+, and other file formats which are compatible with MATLAB based EEG tools such as EEGLab (for offline).

4. Optional accessories

- Quotation for comprehensive maintenance care (CMC) after 5 years of warranty (Detailed list of spares with their price for each item which comes under CMC have to be enclosed in the price bid of the eportal, while bidding in eportal for CMC, total price of the items which comes under CMC have to be considered)
- Quotation for annual maintenance care after 5 years of warranty
- Quotation for up gradation of amplifiers to 128-channels with five years warranty

5. Others

- Isolation: It should be possible to galvanically isolate the EEG system from the recording computer (preferably using fiber optic cable) and house them in separate rooms.
- Ensure adequate shielding with system installation. Ascertain/check that there is “zero” (negligible) current in the connections and “zero” potential between the reference points after installation.
- List of users with contact details (e-mail & telephone / mobile number) in research institutes (India & Abroad) to be provided
- List of at least five peer-reviewed PubMed indexed original research publications that have used this equipment. Hard copy of the full text of this research publication should be enclosed along with the technical bid documents.
- The bidder should provide documents to support compliance with all the technical specifications as annexures. In addition, the bidder should indicate the exact location of the text in the annexure (for example



	<p>annexure no., page, paragraph, and lines detail) that provides the necessary documentary support for the respective technical specification. Scrutiny for matching the technical specifications will be solely based on the hard copy documents & details of the text location (as specified above) provided with the technical bid, preferably along with cross-referencing from the product website.</p> <ul style="list-style-type: none">• Certification: FDA or CE or equivalent certification for the use of equipment in human subjects is mandatory and a copy of the same should be enclosed.• Required Accessories to ensure turnkey operation• The technical bid should be accompanied by an item-wise compliance report that is signed & stamped by the authorized signatory of the bidder in all pages. This compliance report should have reference to the page number of the manual in which the specific technical compliance details with respect to each item. The hard copy of the manual should be submitted along with the technical bid. It is preferable that the vendor provides additional reference to these technical details in their product web site as well.• If required, the bidder must be able to organize for a physical demonstration of the product at NIMHANS with regards to all the technical specifications mentioned in this document within a notice period of 1 week. <p>Quote must have a compliance report on all the above points.</p> <p>Warranty: 5 years</p>	
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