



No: CUK/ Tender/2018-19/BNFNAHS/13

Date: 19.06.2019

TENDER NOTICE FOR SUPPLY AND INSTALLATION OF
“Bio-Feedback and Neuro-Feedback System, Hardware, and software”
(THROUGH E-PROCUREMENT MODE)
(FIRST RE-TENDER)

Online bids are hereby invited for and on behalf of Central University of Karnataka, for supply, delivery and installation of “**Bio-Feedback and Neuro-Feedback System, Hardware, and software**” to Central University of Karnataka (as per Annexure-1) as briefly described hereunder:

1.	Name of the Equipment	Supply, delivery and installation of “ Bio-Feedback and Neuro-Feedback System, Hardware, and software ” (as per Annexure-1).
2.	Bid submission mode	Online through e-procurement mode on Central Public Procurement Portal. Two packet system: Packet 1 -Techno-Commercial Bid and Packet 2 –Financial Bid.
3.	Earnest Money Deposit Rs. 1,00,000/-	A/c payee Demand Draft or bankers cheque payable at Canara Bank Kadaganchi in favor of “ Central University of Karnataka ”, Karnataka . The DD should be sent to “The Registrar, Central University of Karnataka, Kadaganchi -585367, Kalaburagi District” in sealed envelope by superscribing as “ EMD for supply of Bio-Feedback and Neuro-Feedback System, Hardware, and software ”. The EMD payment should reach the university before the date and time of opening bid. OR Online payment Account Number: 5109101000001 Bank: Canara Bank IFSC: CNRB0005109 Bank Address: Canara Bank, Central University of Karnataka, Kadaganchi – 585367, The online EMD payment should reach the university before the date and time of opening bid is to be sent to Registrar as above.
4.	Date and time of availability of Tender document in the portal.	From 16.00 Hrs. of 19.06.2019 to 16.00 Hrs. of 03.07.2019
5.	Last date and time for submission of bids through portal.	16.00 Hrs. of 03.07.2019
6.	Date and time of opening technical bids.	16.00 Hrs. of 05.07.2019

A. Instructions to Bidders

1. Bids are to be submitted online through e-Procurement portal of the Central Public Procurement Portal (CPP portal).
2. Bids submitted offline will not be considered.
3. Bidders are instructed to read and understand the eligibility criteria as well as terms and conditions.
4. The EMD as account payee DD or payment online transfer payable at Canara Bank Kadaganchi in favor of “**Central University of Karnataka**”, **Kalaburagi**. The DD should be sent to “The Registrar, Central University of Karnataka, Kadaganchi -585367, Kalaburagi District” in sealed envelope by super scribing as “EMD for **Bio-Feedback and Neuro-Feedback System, Hardware, and software**”. The EMD shall reach on or before the date and time of bid opening.

OR through Online payment

Account Number: 5109101000001 Bank: Canara Bank

IFSC: CNRB0005109

Bank Address: Canara Bank,

Central University of Karnataka,

Kadaganchi – 585367, Kalaburagi district, Karnataka, INDIA

5. EMD of the unsuccessful bidders will be returned/refunded after opening the financial bid and EMD of the successful bidder will be refunded after successful installation and testing.
6. To avail the concessions available to Micro and Small enterprises, such bidders are required to upload, the registration certificate issued by NSIC. Any
7. Certificates will not be considered. The tendered item must be specified in the NSIC certificate.
8. Bidders are advised to submit the tender strictly based on the terms and conditions and specifications contained in the Tender Document. Conditional bids will be summarily rejected.

B. Eligibility of the bidders

1. The bidder shall be registered firm.
2. Bids can be submitted by original equipment manufacturers or representatives of original equipment manufacturers or authorized dealers of **Bio-Feedback and Neuro-Feedback System, Hardware, and software** as specified in Annexure I.
3. The bidder shall not be black listed by any Govt./Semi Govt./Private Institution.
4. The bidder shall be free from the encumbrance and there shall not be any vigilance case/ CBI case/ Court Case pending against the bidder.
5. The firm should be registered with the Income Tax, GST and other required statutory registrations.
6. The firm should have an experience of at least 3 years in supply of **Bio-Feedback and Neuro-Feedback System, Hardware, and software** or similar equipment.
7. Average annual turnover during the past three years (i.e., 2015-16 to 2017-18) should be at least Rs. 1,20,00,000/-.

8. The bidder should enclose audited financial statements for the three financial years from 2015-16 to 2017-18 and income tax returns for three Assessment Years from 2015-16 to 2017-18.
9. List of clients served highlighting Government organizations along with contact numbers and work order copies to be furnished.
10. The bidder should submit the Purchase Order and Installation Report of supplying at least one **Bio-Feedback and Neuro-Feedback System, Hardware, and software** or similar equipment to any of the recognized Academic Institutions during the last two years (2016-17 and 2017-18).

C. Each Bidder shall upload scanned copies of the following original / self-attested documents

Packet I:

1. Duly filled in Annexures I, Annexure II and Firm registration certificate.
2. GST registration certificate, PAN Card and NSIC certificate if applicable.
3. Certificate of OEM / Representative of OEM / Authorized Dealer
4. Audited Profit and Loss for last 3 financial years from 2015-16 to 2017-18.
5. ITRs for the last three years (from the Assessment Year 2016-17 to 2018-19)
6. Work orders/purchase orders from reputed organizations to meet the eligibility requirements.
7. Brochure/leaflet of the **Bio-Feedback and Neuro-Feedback System, Hardware, and software**.

Packet II: Annexure III – Financial Bid

D. Terms and conditions

- a. Bids can be submitted directly from Original Equipment Manufacturer (OEM) or Representatives of OEM or authorized dealer of the item put for tender.
- b. The bidder should provide PAN and GSTIN etc.
- c. Incomplete bids will be summarily rejected.
- d. Technical literature/brochures/operational Manual of the quoted model explaining all specifications should be uploaded. All the documents should be in English.
- e. The supplier must ensure that all the specifications being offered in the quotation will be met by the equipment supplied. **The supplier must submit a table indicating the compliance of the features of the quoted model with those given in Annexure - I.** If any feature is not matching, it should be justified.
- f. Minimum of **Two-year warranty** is required on the main equipment and accessories from the date of installation. The warranty period shall begin on the date the equipment is delivered to the Department of Psychology for a period of two years. Repair or replacement of any warranted part under the warranty provisions shall be performed at no charge to the Department of Psychology.
- g. Spare parts if any should be supplied with the instrument.
- h. Utility and installation requirements (Electrical power etc.) should be clearly mentioned in quotation.

- i. Price quoted should be inclusive of all taxes, handing, and transportation up to CUK Campus, Kadaganchi, Kalaburagi District, installation charges, and training charges, if any. The selected firm shall give free of charge training to Minimum three teachers of the Psychology Department on the usage of Bio-feedback and Neuro-feedback system, for One or Two weeks in any of the established psycho-physiology laboratory (preferably at the main Centre in India / Abroad) where at least one expert in psychology should available.
- j. Documentary evidences of system performance should be provided along with the submitted technical bid.
- k. The supplier should provide a list of users from reputed Academic institutions in India as well as from abroad. Confirmation of the claim should be supported by at least three users of specified model.
- l. Quotation validity should be at least for 120 days.
- m. Time required for delivery after issue of the purchase order or LC (for imported) whichever is later order, should be provided.
- n. EMD of the unsuccessful bidders will be refunded after opening the financial bid.
- o. The supplier shall provide security deposit of 10 % of the total value of the contract either in DD or Bank guaranty or Bankers cheque for the warranty period.
- p. The University reserves the right to postpone and/or extend the date of receipt or to withdraw the tender notice or not to place the order or to place order for part or full quantities without assigning any reason thereof at any stage of the tender. In such an event, bidders shall not be entitled to any compensation, in any form whatsoever.
- q. Canvassing in connection with the tender is strictly prohibited and the bids submitted by such bidders indulging in such practices are liable to be rejected. CUK reserves the right to debar the firm for minimum one year as per the Company policy.
- r. Any legal action taken or proceeding initiated on any of the terms of the agreement shall be only in Kalaburagi jurisdiction.

Payment terms

- s. For domestic companies, payment will be made online after successful installation of item via cheque or online transfer within 30 days.
- t. For foreign companies, payment will be made through one of the following options:
 - i. Irrevocable letter of credit (L/C) for 90 days. Name and address of company on whose L/C will be opened should be clearly mentioned.
 - ii. Electronic transfer after 30 days from the date of installation of the equipment.

Registrar
Central University of Karnataka

Annexure I – Technical Specifications

Technical Specifications

Item	Description	Quantity
<p>Complete EEG ERP System with 64 channels and accessories for Neurofeedback.</p> <ul style="list-style-type: none"> ● System should be a research grade CE Approved and expandable in future. ● System should also be fully compatible to use simultaneous and Combined EEG and fNIRS 	<ul style="list-style-type: none"> ● The amplifier should offer at least 72 channels, with 64 Unipolar channels for EEG, and rest auxiliary channels for full range of biosignal sensors with GSR, EMG, EOG, respiration, acceleration, temperature, blood pulse sensors. ● The amplifier should be a single amplifier with all the channels built into one unit. ● The amplifier should be capable of BCI applications, and should be approved to be used with BCILAB, BCI 2000 and OpenVibe and compatible with tools that can be applied in different BCI domains and Lab Streaming Layer, a tool to connect software and hardware components in real-time. ● The amplifier should be expandable upto 168 channels. ● Should be battery operated and include charger for battery. ● Should be a Small portable system which can be carried between different labs if needed. ● Triggers - System should be synchronized to have trigger markers simultaneously sent or received to other systems in order to precisely mark the data of interest for online and offline analysis, and for quality assessment for fine tuning and modifying the BCI Script. ● Should have 8 Bit trigger input and 8 Bit trigger output, each separately. ● ADC Conversion - Should have 24 Bit (one converter per channel) acquisition with High sampling rate up to 100 KHz & hardware bandwidth of DC-20 kHz. ● Same EEG cap can have fNIRS optode holders for combined EEG-fNIRS experiments. No need to buy new or customised caps. ● 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, online streaming of recording and offline Post processing software with Tree based history/ steps, matlab compatible with Filtering, History tree, LORETA, ICA , FFT from same manufacturer. ● Should be capable of Analysing and processing Data acquired from sensors such as GSR, HRV, Temp., Acceleration, Blood pulse volume, along with EEG data. ● The post processing software should be supplied from same manufacturer of Amplifier to ensure consistent technical product support from capture till analysis of signal. ● Third party tool boxes or software for analysis are not permitted. <p>Other Specifications -</p> <ul style="list-style-type: none"> ● Bandwidth DC~20 KHz, ● Sampling rate for 64 channels + 8 AUX : 50 Khz; Upto 1,00,000.00 Hz for lesser channels. ● Input Noise ~ approx. 2 μVpp (0.1 Hz – 30 Hz) 	<p>One set or one set each</p>

	<ul style="list-style-type: none"> • Input impedance (for DC): EEG channels: > 2,000 MΩ • Measurement Range: 0 TO 100KΩ • Input voltage range - +/- 409 mV (EEG), ±4.8 V (AUX) • Resolution EEG: ≈ 0.0487 μV per bit; • Common-mode rejection (CMR) > 100 dB • Connection to computer for data transfer: USB2.0 	
Active Caps and Electrodes for recording EEG.	<p>The system should be based on the gel based active electrode technology, for working with high impedances while maintaining high quality acquisition for longer durations.</p> <p>Electrodes - System should be supplied with active electrodes based on high-quality Ag/AgCl sensors with impedance conversion at electrode level leading to much lower noise levels compared to conventional passive electrodes. Electrodes should have a wide port to apply Gel. Should offer impedance measurement display on the electrodes itself for quick identification of each electrode for improving and adjusting the recording, and for high quality source localization.</p> <p>Serviceability & configurable - The electrodes should be removable from the Caps, so that the Caps could be replaced without replacing the electrodes. Should have the facility to replace the individual electrodes by the user itself if the need arises.</p> <p>Caps should adhere to international 10-20 System, compatible with the above system.</p>	4 pcs of cap fabrics of different sizes to be supplied along
Additional sensors for Neurofeedback system	The System should be offered with Sensors for ECG, EMG, EOG, GSR, Blood Pulse, HRV and Temperature measurement.	1 set each
Suitable accessories and application kit with computer	<p>System should be supplied with starter kit including accessories for running the EEG application and windows based computer with following specifications:</p> <ul style="list-style-type: none"> • 1 TB hard disk, Core i5, Processor with graphic card, 22 inch monitor, 8 GB ram, wireless mouse and key board; • laptop-core i5 with 1 TB hard disk, 2 GB graphic card and 4 GB ram. 	One

Installation and Warranty:

Onsite installation and training should be provided by the supplier. Minimum of three-year warranty on the equipment and spares from the date of installation is required.

Date: _____

Name:

Place: _____

Designation:

Seal:

Annexure II Tender Application and Declaration Form

1. Name of the Firm:
2. Full Postal Address:
3. Mobile No.
4. Telephone No.
5. Email Id:
6. Date of Establishment of Firm.....
7. Registration No. of Firm:
8. Participating as OEM / Representative of OEM / Authorized Dealer.....
9. Give details of any Government contracts executed during the last twelve months (attach separate sheet, if necessary):

10. Details of the EMD paid

Particulars	Amount	DD/UTR No	Date	Name of the Bank
EMD	1,00,000/-			

UNDERTAKING

- a) I the undersigned certify that I have gone through the terms and conditions mentioned in the tender document and undertake to comply with all the terms and conditions mentioned in the tender document.
- b) The price quoted by me are valid and binding upon me for the entire period of contract.
- c) I hereby undertake to supply the items as per specifications given in the tender document/supply order within stipulated period, if I qualify in the tendering process.
- d) I give the rights to the Central University of Karnataka to forfeit the earnest money paid by me if any delay occurs on my part or if I fail to comply with the terms and conditions mentioned in the tender document.
- e) There is no vigilance/CBI case or court case pending against my firm **nor** is my firm blacklisted by any agency/department.

Date: _____

Name: _____

Place: _____ Designation: _____

Seal:

Note to bidder: To be submitted by the bidder in the letter head and to be signed by the authorized signatory with name and designation. Affix the seal of the firm.

Annexure III - Financial Bid

Sl. No.	Description	Currency _____
1	Price of the Bio-Feedback and Neuro-Feedback System, Hardware, and software as specified in Annexure I	
2	GST applicable (specify)	
3	Total Transit cost (Up to the CUK premises)	
4	Price inclusive of taxes and transportation.	
Price inclusive of taxes in words:		

Time required to supply and install the equipment from the date of issue of purchase order or LC whichever is later: _____ days

Note: 1. The University is having valid DSIR Certificate.

2. Prices quoted in foreign currency will be converted into Indian Rupees at the exchange rate prevailing on the date of opening the price bid to prepare the comparative statement and to determine the lowest quoted bid (L1).

Date:

Name: _____

Place:

Designation: _____

Seal:

Note to bidder: To be submitted by the bidder in the letter head and to be signed by the authorized signatory with name and designation. Affix the seal of the firm.