

To Whom It May Concern

A Request For Quote (RFQ) from domestic (India based) manufacturers for the supply for **Transcranial electrical stimulation devices for monkeys and humans**, as part of a limited tender for the labs of **Dr. Sridharan Devarajan (CNS) and Dr. Supratim Ray (CNS)** in IISc.

### **Terms and Conditions**

1. The quotations should be submitted in two bids i.e., Technical bid and Commercial bid to the address specified at the end of this tender.
  - a. The technical bid must include details of all technical specifications of the unit (detailed below) along with commercial terms and conditions masking only the price component. Bill of materials, brochures, technical datasheets, and any other document may be enclosed to help the evaluation of the technical bid. Please also include warranty terms and any other information on upgradation terms in the technical bid.
  - b. The commercial bid must include the price of the unit indicating break up of:
    - I. For goods:
      - i. Installation, commissioning and training charges, including any incidental expenses if any
      - ii. Agency commission charges, if any.
      - iii. Provide certificates for country origin of manufacturing for each line item.
    - II. Price of every line item in the commercial bid should be quoted along with the total quoted price for the unit to be operational (fixed and ready to use) in the lab or department.
  - c. Both the Technical and Commercial bid should be put in separate sealed envelopes and put together in another cover stating, "**Transcranial electrical stimulation devices for monkeys and humans**".
2. All components listed for the unit must come from a single vendor, and functional integration of all parts is necessary. The vendor should have a good track record of having previously supplied **Transcranial electrical stimulation devices** in India or abroad (please furnish details).
3. The vendor should have qualified technical service personnel based in Bangalore capable of servicing the **Transcranial electrical stimulation devices**.
4. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
5. The quotations should be on Freight on Road (FOR)-IISc Bangalore basis in INR only.
6. The lead time for the delivery of the units should not be more than two months from the date of receipt of purchase order.
7. The validity period of the quotation should be 90 days.

8. If the goods are found to be defective, they must be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.
9. The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time to award of construct without thereby incurring any liability of the affected bidder or bidders.
10. The technical proposal should contain a compliance table beside the technical specifications listed in the description section below.
11. The compliance table should include all the items and in the same order. The first column should describe your compliance in a “Yes” or “No” response. If “No,” the second column should state the extent of the deviation. The “third” column should state the reasons for the deviation, if any. The fourth column can be used to compare your solution with that of your competitors or provide details as requested in the technical requirements table below.

Procedure:

1. Please submit the proposal by email to the address specified at the end of this tender.
2. The deadline for submission of proposals is **Friday, 24<sup>th</sup> of September 2021, by 5 pm.**
3. The technical proposal should contain a compliance table beside the technical specifications listed in the description section below.
4. The compliance table should include all the items and in the same order. The first column should describe your compliance in a “Yes” or “No” response. If “No,” the second column should state the extent of the deviation. The “third” column should state the reasons for the deviation, if any. The fourth column can be used to compare your solution with that of your competitors or provide details as requested in the technical requirements table below.

	Description	Specifications
1.	Two transcranial electrical stimulation (tES) devices	<ul style="list-style-type: none"> <li>- To be used for non-invasive brain stimulation in both humans and monkeys with the goal of comparing the effects of stimulation between humans and monkeys.</li> <li>- The systems will be used on human subjects while recording EEG and MRI, and hence needs to be MRI compatible. In addition, it should be compatible with monkeys while recording using microelectrodes.</li> <li>- Having the same system is needed to allow having similar processing pipelines and better comparison of results.</li> <li>- Should be able to perform direct current, alternating current and random noise stimulation</li> </ul>
Basic Technical Specifications		
2.		Should be able to stimulate through at least 16 channels.
3.		Should provide a maximum frequency of 5,000 Hz.

4.		Should provide ability for interferential stimulation, if needed.
5.		Should have a frequency resolution of at least 0.1 Hz.
6.		Should allow configurable <i>current</i> and <i>waveform</i> delivery from each channel.
7.		Should provide associated software/API that is Matlab compatible.
8.		Should provide at least 3mA maximum current per channel with 10mA total.
9.		Upon disconnection of electrode(s) should have the ability to automatically resume the session once the contact quality is improved.
10.		Must be able to pair with existing research-grade EEG systems (EGI, Biosemi, BrainProducts).
11.		Must be able to integrate with EEG, Dry EEG, fNIRS, MEG, and MRI.
12.		Company must have an established record of previous installations of human tES-fMRI and monkey applications.
13.		Software capable of providing focality specific and intensity specific electrode configuration for stimulation (1 license).

Optional accessory Specifications		
1.		Monkey compatible headcap and customized bands for simultaneous recording of EEG and transcranial current stimulation.
2.		Electrode holders compatible with existing EEG systems (as mentioned before) which can integrate both EEG electrodes and stimulation electrodes at the same position.
3.		Accessories for MR compatibility, including necessary filters, channels and cables, which will allow us to simultaneously record EEG and conduct tES inside the MRI scanner - MR compatible EEG will be provided by us. We only need the tES system to be compatible with MR-EEG

Commercial Terms and Conditions		
1.	Customer base	Item must have been supplied to laboratories in the Bangalore area.
2.	Warranty & AMC	3 years warranty
3.	Payment Terms	The payment terms should be specified in the commercial proposal.
4.	Support	Please provide details of the number of trained personnel in India who can provide support in the same time zone +/- 3 hrs.
5.	References	Please provide a list of two references from India and/or abroad.
6.	Shipping	Please specify shipping cost and insurance till the site.
7.	Breakdown addressing	Within 3-4 hours of complaint registration.

Sincerely,

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Dr. Supratim Ray  
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