



Prof. Bobby George
Head of the Department

No.IITM/MST/Tender/2024/05
Date : 12.03.2024

Limited Tender No: IITM/MST/2023-24/005/WIRELESSEMG

Due Date / Time: 19.03.2024, 3.00 pm

GeM NAR ID:- GEM/GARPTS/12032024/7LMEQ5DASW12

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on 19.03.2024, 3.30 pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of **01 No.** of “Wireless EMG” conforming to the specifications given in (**Annexure – A**).

As per the Government of India Order, only “Class – I Local Suppliers” and “Class – II Local Suppliers” can participate in this tender.

Terms and Conditions of Limited Tender

1) **Preparation of Bids:** - The bidders should submit the bids in **Two bid system** separately in a sealed cover as detailed below:

Bid I – Technical Bid - The technical bid should consist of Pre-Qualification Criteria, bidder eligibility criteria and Technical Specification compliance sheet (Proforma given in Annexure-B) along with relevant documents proof.

The bidder should go through the Pre-Qualification Criteria, Bidder Eligibility Criteria and Technical Specification given in **Annexure-A** of the tender document, understand the requirement of IIT Madras and submit their technical bid along with all relevant document proof in the proforma given in **Annexure-B**.

Bid II – Financial Bid – The Financial Bid should be submitted as per the proforma for Financial Bid format given in **Annexure – C**. The quoted price should be for supply and installation of the item and inclusive of all cost and statutory levies at IIT Madras. Bids indicating rates anywhere else shall be liable for rejection.

The bids I and II are sealed in a separate cover and put together in a single bigger envelope, duly sealed and super scribed on the envelope with the Vendor Email ID, Contact Number, tender reference number, so as to reach on or before the due date & time specified in this tender.

2) **Vendor Registration:-** Vendor registration is mandatory for bidders to participate in tenders. For Vendor Registration & Guidelines, Please follow the website: <https://icandsr.iitm.ac.in/vendorportal>

3) **Submission of the tender:** - The tender shall be sent to the below-mentioned addresses either by post or by courier (**duly sealed and super scribed on the envelope with the Vendor Email ID, Contact Number, tender reference No and due date & time**) so as to reach the following address before the due date and time specified in our Schedule:

**The Head,
Department of Medical Sciences and Technology,
Room No.571, NAC II, 5th floor,
Department of Medical Sciences and Technology,
IIT Madras, Sardar Patel Road, Chennai – 600036**

4) **Price:** - The price should be quoted only in **INR** net per unit (after breakup) and must include all packing, transit insurance and

delivery charges to the **NAC – II, 5th Floor, Department of Medical Sciences and Technology, IIT Madras**. The offer/bid should be inclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for custom exemption duty certificate. Relevant certificate will be issued wherever necessary.

- 5) For the same tender, either the OEM or the authorized dealer/service provider can only quote. But both of them cannot quote separately for the same tender.
- 6) The offers / bids should be sent only for an item / Equipments of latest version that is available in the market and supplied to a number of customers. A list of customers in India with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
- 7) Compliance or Confirmation report with reference to the specifications and other terms and conditions should also be obtained from the principal / OEM.
- 8) The bidder has to submit the tender document duly signed on all pages by an authorized person and his / her full name and status shall be indicated below the signature along with official seal/stamp of the firm. Submission of wrong / forged information / document will be liable to legal action, and rejection of the bid submitted by the firm.
- 9) The bids of the agency/firm/company not in possession of valid statutory license / registrations are liable for rejection.
- 10) If any relative of the bidder is an employee of the IIT Madras, the name, designation and relationship of such employee shall be intimated to the Registrar, IIT Madras in writing while submitting the bid.
- 11) No bidder will be allowed to withdraw / alter / modify the bid during the bid validity period.

12) Signing of Tender:

The bid is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the schedule to the tender are not fully filled in or not duly signed/authenticated. Specific attention is drawn to the delivery dates and terms and conditions enclosed herewith. **Each page of the bids shall be duly signed with the official seal of the Bidders.**

If the bid is submitted by a firm in partnership, it shall be signed (with seal) by all the partners of the firm above their full typewritten names and current addresses. Alternatively it shall be signed by a partner holding power of attorney for the firm in which case a certified copy of the power of attorney shall accompany the bid. A certified copy of the partnership deed along with current addresses of all the partners of the firm shall also accompany the bid.

If a limited company or a corporation makes the application, it shall be signed by a duly authorized person holding power of attorney for signing the bid, in which case a certified copy of the power of attorney shall accompany the bid. Such limited company or corporation may be required to furnish satisfactory evidence of its existence. The bidder shall also furnish a copy of the Memorandum of Articles of association duly attested by a Notary Public.

13) Bidders shall submit along with this tender:

- (i) Proof of having ISO or other equivalent certification given by appropriate authorities.
- (ii) Name and full address of the Banker and their IFSC / swift code and PAN No. and GSTIN number.
- (iii) GST registration proof showing registration number, area of registration, etc.
- (iv) All of your future correspondences including Invoices should bear the GST No. and Area code.
- (v) If the bidder belongs to Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) and Startups as recognized by Department of Industrial Policy & Promotion (DIPP), (MSE/MSME/DIPP proof should be enclosed in the cover containing technical bid).

14) Terms of Delivery: - Supplier will be fully responsible for the safe carriage of goods upto the **NAC – II, 5th Floor, Department of Medical Sciences and Technology, IIT Madras** or named place as per PO, Insurance coverage will be in the scope of the supplier. The Installation/Commissioning should be completed as specified in our important conditions.

15) Delivery Schedule: - Items / equipments should be delivered and installed within **30 days** from the date of Purchase Order. No further extension of time will be allowed. Non delivery of items will lead to cancellation of Purchase Order without any notice.

16) Catalogue: Original catalogue (not any photocopy) of the quoted model duly signed must accompany the quotation in the Technical bid

- 17) **Late offer:** - The offers received after the due date and time will not be considered
- 18) **Payment:** - **No Advance payment will be made.** Payment will be made only after supply and satisfactory installation.
- 19) **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within the number of days (as prescribed in the PO) from the date of receipt of the item at the site of IIT Madras.
- 20) **Warranty / Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately (For more details please refer our Technical Specifications).
- ** Note: PO which involves installation, warranty/guarantee shall be applicable from date of installation.**
- 21) **Validity:** The Tender shall remain open for acceptance/validity till **120 days from the date of opening of the tender.** However, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day.
- 22) **EMD:- N.A.**
- 23) **Performance Security:** - The successful bidder should submit Performance Security **for an amount of 3% of the value of the contract/supply.** The Performance Security may be furnished in the form of an Account Payee DD, FD Receipt in the name of “The Registrar, IIT Madras” from the Scheduled commercial bank, Bank Guarantee from any a Scheduled Commercial Bank of India. **The performance security should be furnished within 14 days from the date of the purchase order.**
- Performance Security in the form of Bank Guarantee:** - In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed directly from the issuing bank to IIT Madras. The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.
- 24) **Right of Acceptance:** IIT Madras reserves the right to reject the whole or any part of the Tender without assigning any reason or to accept them in part or full.
- 25) **Communication of Acceptance:** Letter of Intimation and acceptance will be communicated by email to the successful bidder to the address indicated in the bid.
- 26) **Right of IIT Madras**
- The Registrar, IIT Madras reserves right to withdraw / relax any of the terms and conditions mentioned above so as to overcome the problem encountered by the contracting parties.
 - The Registrar, IIT Madras reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever and his / her decision shall be final and binding on the tenderer.
 - IIT Madras reserves the right to suitably increase / reduce the scope of supply put to this tender. In case of any ambiguity in the interpretation of any of the clauses in tender document or purchase order, interpretation of the clauses by the IIT Madras shall be final and binding on all parties. Failure to comply with any of the instructions stated in this documents or offering unsatisfactory explanations for non-compliance will likely to lead to rejection of offers.
- 27) **Debarment from Bidding:** In case of breach of Terms & Conditions, Bidder may be suspended from being eligible for bidding in any contract with the IIT Madras up to 2 Years [as per Rule 151(iii)of GFR] from the date of Tender.
- 28) **Jurisdiction:** All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of tender is issued.
- 29) All Amendments, time extension, clarifications etc., will be uploaded in the website only and will not be published in newspapers.

Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.

30) Penalty & Liquidated Damages / Force Majeure: If the selected Bidder fails to complete the due performance of the contract in accordance with the terms and conditions, Institute reserves the right either to cancel the contract or to accept performance already made by the selected Bidder after imposing Penalty on Selected Bidder. A penalty will be calculated on a per week basis and on the same Rate as applicable to Liquidated Damages (LD). In case of termination of the contract, Institute reserves the right to recover an amount equal to 5% of the Contract value as Liquidated Damages for non-performance.

Both Penalty and Liquidated Damages are independent of each other and are applied separately and concurrently. Penalty and LD are not applicable for reasons attributable to the Institute and Force Majeure. However, it is the responsibility of the selected Bidder to prove that the delay is attributable to the Institute and Force Majeure. The selected Bidder shall submit the proof authenticated by the Bidder and Institute's official that the delay is attributed to the Institute and/or Force Majeure along with the bills requesting payment.

31) The bidder shall certify that the tender document submitted by him / her are of the same replica of the tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation is found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will be initiated as per the terms and conditions of the contract / tender.

32) The bidder should study the Pre-Qualification Criteria, Bidder Eligibility Criteria, Technical Specification, Guidelines and Terms and Conditions in detail as given in Tender document before submitting the bid.

33) I. Pre-Qualification Criteria:

1. The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23rd July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24th August 2020. A declaration as per format given in **Annexure – D** shall be submitted with the bid.

2. **Only ‘Class-I local suppliers’ and ‘Class-II local suppliers’**, as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I/ Class-II local suppliers should be submitted in the prescribed proforma format as per **Annexure – E**.

Preference to “class I Local Suppliers”: preference will be given to “class I local suppliers” (subject to class –I local supplier’s quoted price falling within the margin of purchase preference) as per public procurement (preference to Make in India) order 2017 .O.M No P- 45021/2/2017 – pp(BE – 11) dt 04/06/2020 subject to the conditions that the “Class I Local Supplier” should agree to supply goods / provide service at L1 rate and furnish a certificate with the technical bid document that the goods/service provided by them consists local content equal to or more than 50%.

Class – I local supplier” means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to or more than 50% as defined under the above said order. Declaration to be provided as per Annexure-I per item/service/work.

Class – II local supplier” means a supplier or service provider whose goods, services or works offered for procurement consists of local content equal to 20% but less than 50% as defined under the above said order Declaration to be provided as per Annexure-I per item/service/work.

Margin of purchase preference”: - The margin of purchase preference shall be 20%. The Definition of the margin of purchase preference is defined in the Govt. of India Order No: P- 45021/12/2017-PP (BE-II) Dt.4th June, 2020) Order 2017. As per the Government of India Order – “Margin of Purchase Preference” means the maximum extent to which the price quoted by a “Class-I local supplier” may be above the L1 for the purpose of purchase preference.

*** Note: Local content percentage to be calculated in accordance with the definition provided at clause 2 of revised public procurement preference to Make in India Policy vide GoI Order no. P- 45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020)MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P-45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021*

II. Bidder Eligibility Criteria:

1. Neither the tender participating firm nor any of its partners has been blacklisted / debarred /involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is **pending** against firm or any partner of the Firm before any Court of Law / Police. A self-declaration format given in **Annexure – F**.
2. The bidders should be an OEM or authorized supplier of OEM. Necessary OEM certificate/OEM authorization letter for this particular tender should be submitted by the bidder as given in **Annexure-G**.
3. The bidder must have cumulative financial turnover at least Rs. 25 Lakhs in the last three financial years i.e. 2020-2021, 2021-2022 and 2022-2023 (Financial statements / certificates duly certified by Chartered Accountant should be submitted as proof).

4. The bidder should have experience in supply of two similar items to the reputed Institutions (like IIT, NIT, AIIMS, Central/State Medical Colleges, Universities and Institutions/Central Research Labs/ R&D Units in India in the last three years (2020, 2021 and 2022). **Copies of PO and installation report should be submitted as a proof for the supply.**

34) Evaluation of Bids:

Stage I: Technical Bid evaluation

Technical Bid Evaluation will be done in two stages.

1. In the 1st stage, Bidder will be evaluated first for conformity with Pre-Qualification Criteria & Bidder Eligibility Criteria and those bidders who have complied with Pre-Qualification Criteria & Bidder Eligibility Criteria will alone be evaluated further.
2. In the 2nd stage, the Technical Specification offered by the bidders will be evaluated by the technical committee for compliance. Only those bidders who have fully complied with Pre-Qualification Criteria, Bidder Eligibility Criteria and Technical Specification will be considered for financial bid evaluation.

Stage II: Financial Bid Evaluation

The Lowest financial bid among those who have qualified in the Technical bid will be declared as successful bidder (L1) and the order will be awarded to successful bidder (L1).

- 35) In accordance to the Rule 173 of GFR,2017 and relevant provisions thereof in Procurement Manuals, 2022, IITM reserves the right to carry out the negotiation process through its purchase/technical committee with L1/H1 (as applicable) vendor to ensure price reasonability before final recommendation to the Competent Authority. The negotiation details, if any, on case to case basis shall be recorded in minutes of meetings suitably for records.

36) Selection of Successful bidder and Award of Order.

The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-pp (BE II) dated 16th September 2020 & P- 45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, and latest orders if any.

- 37) In terms of Rule 173(iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.
- 38) **Unsolicited offers:** “This notice is being published **for information only** and is not an open invitation to quote in this limited tender. Participation in this tender is by invitation only and is limited to the selected registered suppliers. Unsolicited offers shall be ignored. However, suppliers who desire to participate in such tenders in future may apply for registration as per procedure.” The Website for Registration of vendors is <https://icandsr.iitm.ac.in/vendorportal> and the mail address for queries is “vendorhelpdesk@icsrpiis.iitm.ac.in”.
- 39) **Bid Opening:** - The technical bid will be opened on **19.03.2024 3.30pm** at the **Department of Medical Sciences and Technology**, IIT Madras and the **financial bids** of those tenderers who are technically qualified will be opened at a **later date under intimation to them.**

Sd/-
Boby George
Head,
Department of Medical Sciences and Technology
IIT Madras, Chennai 600036

Acknowledgement

It is hereby acknowledged that I/We have gone through all the points listed under “Pre-Qualification criteria, Bidder Eligibility Criteria, Technical Specification, Guidelines and Terms and Conditions” of tender document, the same is abided and agreed to be executed. In case, if the above information is found false, I/We are fully aware that the tender / order will be rejected / cancelled by IIT Madras.

**SIGNATURE OF BIDDER ALONG WITH
SEAL OF THE COMPANY WITH DATE**

SCHEDULE OF TENDER

**Supply of 01 No. of “Wireless EMG”
Tender No IITM/MST/2023-24/05/WIRELESSEMG**

Name of Organization	Indian Institute of Technology Madras
GeM Non Availability Report Number	GEM/GARPTS/12032024/7LMEQ5DASW12
Tender Type (Open/Limited/EOI/Auction/Single)	Limited
Tender Category (Services/Goods/Works)	Goods
Type/Form of Contract (Work/Supply/Auction/Service/ Buy/ Empanelment/ Sell)	Supply
Name of the Item	Supply of 01 No. of “Wireless EMG”
Source of Fund (Institute/Project)	IIT Madras
Is Multi Currency Allowed	No
Date of Issue/Publishing	12.03.2024
Tender Start Date	12.03.2024
Pre-Bidding Date	Nil
Last Date and Time for Receiving Bids	19.03.2024 @ 03.00 p.m.
Address for receiving Bids	The Head, Department of Medical Sciences and Technology, Room No. 571, NAC- II, 5th floor, Department of Medical Sciences and Technology, IIT Madras, Sardar Patel Road, Chennai – 600036
Date and Time of Bids Opening	19.03.2024 @ 3.30 p.m.
No. of Covers (1/2/3/4)	2
Bid Validity days (180/120/90/60/30)	120 Days
Address for Communication	<u>For General Queries</u> The Head Department of Medical Sciences and Technology IIT Madras Chennai – 600036 Phone No. 044 22575696 Email: mstoffice@iitm.ac.in
Tender Inviting Authority and Address	Prof. Boby George Head, Department of Medical Sciences and Technology IIT Madras, Chennai 600036
Tender Creator Details	Raman K Superintendent Dept. Of MST, IIT Madras, Chennai 600036

TECHNICAL BID

**Supply of 01 No. of “Wireless EMG”
Tender No IITM/MST/2023-24/05/WIRELESSEMG**

A. PRE-QUALIFICATION CRITERIA

1. The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23rd July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24th August 2020. A declaration as per format given in **Annexure – D** shall be submitted with the bid.
2. Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I / Class-II local suppliers should be submitted in the prescribed proforma format as per **Annexure – E**.

B. BIDDER ELIGIBILITY CRITERIA

5. Neither the tender participating firm nor any of its partners has been blacklisted / debarred /involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is **pending** against firm or any partner of the Firm before any Court of Law / Police. A self-declaration format given in **Annexure – F**.
6. The bidders should be an OEM or authorized supplier of OEM. Necessary OEM certificate/OEM authorization letter for this particular tender should be submitted by the bidder as given in **Annexure-G**.
7. The bidder must have cumulative financial turnover at least Rs. 25 Lakhs in the last three financial years i.e. 2020-2021, 2021-2022 and 2022-2023 (Financial statements / certificates duly certified by Chartered Accountant should be submitted as proof).
8. The bidder should have experience in supply of two similar items to the reputed Institutions (like IIT, NIT, AIIMS, Central/State Medical Colleges, Universities and Institutions/Central Research Labs)/ R&D Units in India in the last three years (2020, 2021 and 2022). **Copies of PO and installation report should be submitted as a proof for the supply.**

C. TECHNICAL SPECIFICATIONS

A	Technical Specification
	❖ Should be able to work in Lab and Field studies (Portable & easy to carry)
	❖ Should be supplied with a Charging/Receiving console that communicates with the utility software which should automatically recognize the sensor status for charging, recording and signal strength.
	❖ System should be able to record 8 channel EMG signals simultaneously and should be upgradable to 32 channels.
	❖ RF Transmitting Range: 40 meters or more.
	❖ should be able to record for at least 6 Hrs on a single charge.
	❖ Should also have Bluetooth for data transmission for portable mobile devices for field kinematic applications.
	❖ Each EMG sensor should come with in-built DOF tri-axial accelerometer, gyro and magnetometer signals.
	❖ Sensors should have illuminated indicators for video tracking purposes.
	❖ High ADC resolution of 16 Bits or more.
	❖ High sampling rate of 2 KHz or more with a facility of variable sampling rate on each channel.
	❖ Should have software controlled filtering High Pass, Low Pass filters, AC Coupling, Digital filters, band pass filter & Main filters.
	❖ The software should have built in smart analysis features for both time and frequency domain like RMS, power spectrum etc.
	❖ Export formats should allow export to Text, CSV etc.
	❖ Cyclic Measurements: Rate, period, frequency, count, minimum, maximum, height, integral, variance, derivative, etc.
	❖ Should provide Small size lightweight (not more than 15g) wireless EMG Sensors (Qty 8).
	❖ Should offer artifact free high fidelity EMG signals with fixed spacing electrodes of less than or equal to 1 cm apart to reduce the crosstalk.
	❖ Software should offer Software development kit (SDK) or Application programming interface (API) for easy integration to third party applications like MATLAB®, LabView, Google® Android based mobile devices, Windows (C or C#) and Linux.
	❖ The software should have option for video integration.
	❖ Consumables: - Adhesive strip electrodes (1000 Pc)
	❖ Company should have dedicated support personnel in India for application training and support.
	❖ Demonstration & Training free of cost at the site by company expert

Sd/-

Boby George
Head,

Department of Medical Sciences and Technology

PROFORMA FOR TECHNICAL BID
Supply of 01 No. of “Wireless EMG”
Tender No IITM/MST/2023-24/05/WIRELESSEMG

A. PRE QUALIFICATION CRITERIA:

Sl. No.	Description	Compliance (Yes / No)	Reference Page No.
I	PRE-QUALIFICATION CRITERIA		
1	The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23rd July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24th August 2020. A declaration as per format given in Annexure – D shall be submitted with the bid.		
2	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I / Class-II local suppliers should be submitted in the prescribed proforma format as per Annexure – E .		
II	BIDDER ELIGIBILITY CRITERIA		
1	Neither the tender participating firm nor any of its partners has been blacklisted / debarred /involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is pending against firm or any partner of the Firm before any Court of Law / Police. A self-declaration format given in Annexure – F .		
2	The bidders should be an OEM or authorized supplier of OEM. Necessary OEM certificate/OEM authorization letter for this particular tender should be submitted by the bidder as given in Annexure-G .		
3	The bidder must have cumulative financial turnover at least Rs. 25 Lakhs in the last three financial years i.e. 2020-2021, 2021-2022 and 2022-2023 (Financial statements / certificates duly certified by Chartered Accountant should be submitted as proof).		
4	The bidder should have experience in supply of two similar items of “Tutorial Software for Physiology” to the reputed Institutions (like IIT, NIT, AIIMS, Central / State Medical Colleges, Universities and Institutions / Central Research Labs)/ R&D Units in India in the last three years (2020, 2021 and 2022). Copies of PO and installation report should be submitted as a proof for the supply.		

PROFORMA FOR TECHNICAL BID

**Supply of 01 No. of “Wireless EMG”
Tender No IITM/MST/2023-24/05/WIRELESSEMG**

B. TECHNICAL SPECIFICATIONS COMPLIANCE:

A	ITEMS	Compliance (YES/NO)	Reference Page No.
	❖ Should be able to work in Lab and Field studies (Portable & easy to carry)		
	❖ Should be supplied with a Charging/Receiving console that communicates with the utility software which should automatically recognize the sensor status for charging, recording and signal strength.		
	❖ System should be able to record 8 channel EMG signals simultaneously and should be upgradable to 32 channels.		
	❖ RF Transmitting Range: 40 meters or more.		
	❖ should be able to record for at least 6 Hrs on a single charge.		
	❖ Should also have Bluetooth for data transmission for portable mobile devices for field kinematic applications.		
	❖ Each EMG sensor should come with in-built DOF tri-axial accelerometer, gyro and magnetometer signals.		
	❖ Sensors should have illuminated indicators for video tracking purposes.		
	❖ High ADC resolution of 16 Bits or more.		
	❖ High sampling rate of 2 KHz or more with a facility of variable sampling rate on each channel.		
	❖ Should have software controlled filtering High Pass, Low Pass filters, AC Coupling, Digital filters, band pass filter & Main filters.		
	❖ The software should have built in smart analysis features for both time and frequency domain like RMS, power spectrum etc.		
	❖ Export formats should allow export to Text, CSV etc.		
	❖ Cyclic Measurements: Rate, period, frequency, count, minimum, maximum, height, integral, variance, derivative, etc.		
	❖ Should provide Small size lightweight (not more than 15g) wireless EMG Sensors (Qty 8).		

	❖ Should offer artifact free high fidelity EMG signals with fixed spacing electrodes of less than or equal to 1 cm apart to reduce the crosstalk.		
	❖ Software should offer Software development kit (SDK) or Application programming interface (API) for easy integration to third party applications like MATLAB®, LabView, Google® Android based mobile devices, Windows (C or C#) and Linux.		
	❖ The software should have option for video integration.		
	❖ Consumables: - Adhesive strip electrodes (1000 Pc)		
	❖ Company should have dedicated support personnel in India for application training and support.		
	❖ Demonstration & Training free of cost at the site by company expert		

**Reference page number is mandatory and should be mentioned in the technical compliance*

Place:

Date:

**Signature of the bidder
Name & Address of the
Bidder with Office Stamp**

PROFORMA FOR FINANCIAL BID (BOQ)

**Supply of 01 No. of “Wireless EMG”
Tender No IITM/MST/2023-24/05/WIRELESSEMG**

Sl.No.	Detailed Description as per Annexure-B	Unit	Qty	Rate Per Unit	Total Cost (without GST)	GST (in %)	Total Cost (with GST)
1.	Supply of “Wireless EMG” as per technical specification in Annexure-A	No.	01				
	Total Cost inclusive of all*						

NOTE:

* The rate should be inclusive of Transporting, Loading and Unloading (as applicable)

Place:**Date:****Signature of the bidder**

**Name & Address of the
Bidder with Office Stamp**

(To be given on the letter head of the bidder)

Tender No IITM/MST/2023-24/005/WIRELESSEMG

Dated: _____

CERTIFICATE

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am not from such a country.

(OR)

(Bidders from Country which shares a land border with India)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am from _____ (Name of Country) and have registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and am eligible to be considered. *(Copy/ evidence of valid registration by the Competent Authority is to be attached)*

Place:
Date:

Signature of the bidder
Name & Address of the
Bidder with Office Stamp

FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA – PER ITEM

**Tender Reference Number: Tender No IITM/MST/2023-24/05/WIRELESSEMG
Name of the item / Service: Supply of 01 No. of “Wireless EMG”**

Date: _____

I/We _____ S/o, D/o, W/o, _____ Resident of _____

hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide Gol Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt. 16th September 2020 & P- 45021/102/2019-BE-II-Part(1) (E-50310) Dt. 4th March 2021 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.

Tick (✓) and Fill the Appropriate Category	
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to or more than 50% and come under “ Class-I Local Supplier ” category.
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to 20% but less than 50% and come under “ Class-II Local Supplier ” category.

The details of the location (s) at which the local value addition is made and the proportionate value of local content in percentage

Percentage of Local content : _____ % **
Location at which value addition done : _____

For and on behalf of _____ (Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)
<Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

This letter should be on the letterhead of the quoting firm and should be signed by a competent authority.

*** Services such as transportation, insurance, installation, commissioning and training and after sales service support like AMC/CMC cannot be claimed as local value addition.*

(To be given on the letter head of the bidder)

Self-Declaration that the Service Provider has not been Black listed

I

.....
S/o R/o police
station District
Director / partner / sole proprietor (Strike out whichever is not applicable) of
.....

(Firm or Company) do hereby declare and solemnly affirm:

- I. That the Firm
..... has not been Blacklisted or declared insolvent by any of the Union or
State Government / Organization.
- II. That none of the individual / firm / Company Blacklisted or any partners or shareholder
thereof has any connection directly or indirectly with or has any subsistence interest in the
deponent business / firm company.
- III. That neither the Firm nor any of its partner has been involved / convicted in any criminal
case / economic offence nor any criminal case / economic offence is pending against firm or
any partner of the Firm before any Court of Law / Police.

**Place:
Date:**

**Signature of the bidder
Name & Address of the
Bidder with Office Stamp**

OEM CERTIFICATION FORM
(in Original Letter Head of OEM)

Tender No: Dated:

We are Original Equipment Manufacturers (OEM) of..... (Name of the company) Ms..... (Name of the vendor) is one of our Distributors / Dealers / Resellers / Partners (tick one) for the and is participating in the above mentioned tender by offering our product model..... (Name of the product with model number).

..... is authorized to bid, sell and provide service support warranty for our product as mentioned above.

Name and Signature of the authorized Signatory of OEM along with seal of the company and Date

TENDER CHECKLIST

Mandatory to be filled and sent (inside the Technical Bid Cover) along with Bidding Document.

Tender No: Dated:

1.	I have registered as a Vendor. (Proof to be enclosed)	<input type="checkbox"/>
2.	Technical bid cover duly sealed and marked as "TECHNICAL BID" (Proforma as per Annexure – B)	<input type="checkbox"/>
3.	Financial Bid cover duly sealed and marked as FINANCIAL BID (Proforma as per Annexure – C)	<input type="checkbox"/>
4.	Land Border (as a part of technical bid) (Proforma as per Annexure – D)	<input type="checkbox"/>
5.	Certification of Class I / Class II Local supplier to be submitted (as a Part of technical bid) per item / service / work (proforma as per Annexure – E)	<input type="checkbox"/>
6.	Self Declaration for not been blacklisted (proforma as per Annexure – F)	<input type="checkbox"/>
7.	Authorized agent certificate from OEM is mandatory if Indian agent/Indian office of OEM is participating in this tender on behalf of OEM. (proforma as per Annexure – G)	<input type="checkbox"/>
8.	Supporting documents like catalogue, PO copies, GST, PAN, MSME, etc.	<input type="checkbox"/>

The above documents should be provided for a contractor's bid to be valid. Bidders are asked to supply and tick off the required information. Failure to provide any of the stated documents may result in the bid being considered non-compliant and rejected.

Signature of the Bidder