

	<p align="center">INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036 STORES & PURCHASE SECTION Email: adstores@iitm.ac.in Telephone : (044) 2257 8285/8287/8290 FAX: (044) 2257 8292 GSTIN: 33AAAAI3615G1Z6</p>	
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P K Sheba Sabari
Assistant Registrar (Stores & Purchase)

Date: 22.11.2023

Tender No. IITM/SPS/OE-WHMA/018/2023-24

Due Date: 13.12.2023

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, Tenders are invited in two bid system namely Technical bid and Financial bid, for

SUPPLY OF WAVE HEIGHT MEASURING AMPLIFIER, WAVE GAUGE & CABLE AND STANDARD CABINET WITH POWER SUPPLY MODULE

conforming to the specifications enclosed.

No manual bids will be accepted. All tender documents including Technical and Financial bids should be submitted in **Government e-Market Place (GeM) portal through Custom Catalogue Based Bid**

1	LAST DATE & TIME for receipt of Tender	:	13.12.2023 @ 02.00 p.m. as per the GeM bid document
	Date & Time of opening of Tender	:	13.12.2023 @ 02.30 p.m. as per the GeM bid document

GUIDELINES FOR TENDER SUBMISSION IN GOVERNMENT E-MARKET PLACE (GEM) PORTAL THROUGH CUSTOM CATALOGUE BASED BID

Bidders are requested to go through the GeM Handbook for instructions, preparation of bids and submission of bid.

General instructions to the Bidders:

The tenders will be received online in GeM portal through Custom Catalogue Based Bid. In the Technical Bids, the bidders are required to upload all the documents in single pdf file.

Assistance to Bidders:

Any queries relating to the process of Custom Catalogue Based Bid submission or queries related to GeM Portal, contact the portal by email helpdesk-gem@gov.in or toll free nos. **1800-419-3436 / 1800-102-3436.**

2	Pre-bid meeting	<p>The Pre-bid Meeting will be conducted via Google Meet on 29.11.2023 @ 03:00 p.m. Please see the below link to join the meeting</p> <p>https://meet.google.com/mgj-fjsp-ztn</p> <p>Prospective bidders are requested to register their participation by sending an email to adstores@iitm.ac.in, with name/designation of the representative who will attend the meeting along with queries on or before 28.11.2023.</p>
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निविदा के निबंधन व शर्तें / TERMS AND CONDITIONS OF TENDER

<p>3</p>	<p>बयाना जमा (ईएमडी) / Earnest Money Deposit (EMD)</p>	<p>i. EMD of INR 1,05,000 (Rupees One Lakh and Five Thousand only) should be transferred through NEFT/RTGS to the following bank account on or before due date 13.12.2023 before 2:00 p.m.</p> <p style="padding-left: 40px;"> Name : Registrar IIT Madras Bank : State Bank of India Account No. : 10620824305 Branch : IIT MADRAS IFSC CODE : SBIN0001055 </p> <p>i. As per O.M. No.F.1/2/2022-PPD Dated 01.04.2022, the EMD will be returned to the unsuccessful Bidder(s), within 30 days after declaration of result of first stage i.e. technical evaluation etc. The EMD shall be forfeited if any Bidder withdraws the offer before finalization of the tender.</p> <p>ii. The EMD amount should not be sent through DD.</p> <p>iii. Non-submission of EMD details on or before the due date and time will result in rejection of the e-bid.</p> <p>iv. As per Rule 170 of GFR 2017, exemption of EMD will be given subject to submission of undertaking by the firm seeking such exemption. Copies of relevant orders/ documents regarding such exemption should be submitted along with the tender document.</p> <p>The successful bidder shall submit a Performance Guarantee of 3% of the purchase order value by way of DD/Bank Guarantee/FDR/ Insurance surety bonds in favour of “The Registrar, IIT Madras” to be obtained from any commercial bank, within 14 (Fourteen) days from the date of issue of order by IIT Madras, which would be released 60 days after the successful completion of the warranty period after the adjustment dues if any without interest.</p> <p>In case of successful bidder, the EMD will be adjusted towards the Performance Guarantee on request.</p> <p>v. The amount of EMD is liable to be forfeited if the bidder withdraws the offers after submission of the tender or after the occupation of the offer and fails to remit the Performance Guarantee.</p>
<p>4</p>	<p>तकनीकी बोली पर मार्किंग /Marking on Technical Bid</p>	<p>i. The pre-qualification criteria, technical specification of the item for this tender is given in Annexure A. The Bidders shall go through the pre-qualification criteria, technical specification and submit the technical bid in the proforma given in Annexure B in the tender document along with the supporting documents.</p> <p>ii. The Technical bid should be submitted in pdf format only through online (e-tender). No manual submission of bid will be entertained.</p> <p>iii. The technical bid should have the page-wise heading as “Technical Bid” and page no. in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents.</p> <p>iv. The technical bid should consist of</p> <ol style="list-style-type: none"> a) Document proof for EMD payment b) Technical Compliance sheet as per proforma given in Annexure-B c) Document proof for pre-qualification criteria, technical details along with catalogue / brochure and other technical, commercial terms and conditions.

5	वित्तीय बोली पर मार्किंग / Marking on Financial Bid	Financial bid should be submitted in the prescribed proforma format given in Annexure- C through GeM portal. No manual or other form of submission of Financial Bid will be entertained.
6	निविदा की तैयारी / Preparation of Tender: <ul style="list-style-type: none"> • The bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately. • 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. • The bids of the agency/firm/company not in possession of valid statutory license / registrations are liable for rejection. • 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. • No bidder will be allowed to withdraw / alter / modify the bid during the bid validity period. 	
7	निविदा पर हस्ताक्षर / Signing of Tender: <p>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.</p> <p>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.</p> <p>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.</p>	
8	वह अवधि जिसके लिए ऑफर खुला रहेगा / Period for which the offer will remain open: <p>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.</p>	
9	कीमत / Prices: <ul style="list-style-type: none"> • The prices quoted should be Net considering all terms & conditions and as per the technical specification mentioned in Annexure A. The prices quoted by the bidders should be inclusive of GST and other charges. • All conditional tenders will be summarily rejected. • Quote should be in INR only. 	
10	आपूर्ति के लिए कोई अग्रिम भुगतान नहीं किया जाएगा / No Advance Payment will be made. Payment will be made only after supply and satisfactory installation	

11	<p>निबंधन व शर्तें / Terms and Conditions: Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will lead to rejection of offers.</p>
12	<p>सुपुर्दगी / Delivery: Items should be delivered and installed within 60 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.</p>
13	<p>दायरा SCOPE: The scope includes design, procurement, assembly, testing, supply, commissioning and handover including operating manual of all equipment for the measurement of wave data in the lab as mentioned below:</p> <ol style="list-style-type: none"> 1. Wave Gauge 2. Amplifier 3. Connecting Cable <p>The Specification for the above items are included in the technical bid</p>
14	<p>गारंटी/Warranty: 1 Year from commissioning of the equipment.</p>
15	<p>स्वीकृति का अधिकार / 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.</p>
16	<p>स्वीकृति की सूचना / Communication of Acceptance: Letter of Intimation and acceptance will be communicated by email to the successful bidder to the address indicated in the bid.</p>
17	<p>बोलीदाता को इस निविदा के साथ जमा करना होगा / Bidder shall submit along with this Tender: Name and full address of the Banker & their swift code, PAN No. and GSTIN number.</p>
18	<p>क्षेत्राधिकार / 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.</p>
19	<p>जुर्माना & परिसमापन क्षति / 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.</p> <p>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.</p>
20	<p>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.</p>
21	<p>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.</p>
22	<p>I. Pre-Qualification Criteria:</p> <ol style="list-style-type: none"> 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. 28 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 similar WAVE MEASURING SYSTEM IN LABORATORY to the reputed Institutions (like IIT,NIT and Central/State University/Central Research Labs)/ R&D Units / Industries in India in the last three years (2020, 2021 and 2022) as detailed below:
 - i) Three (3) supplies of similar equipment *each costing not less than Rs.14 Lakhs
(Or)
 - ii) Two (2) supplies of similar equipment *each costing not less than Rs.21 Lakhs
(Or)
 - iii) One (1) supply of similar equipment *costing not less than Rs.28 Lakhs

* For the purpose of this tender Similar equipment means, Wave Gauge, Amplifier for wave height measurement and associated accessories in Laboratory environment.

Copies of the documents listed below should be submitted as a proof for the above supply:

- i. Purchase Order
- ii. Work Completion Certificates with Performance

23 बोलियों की संख्या और उनका प्रस्तुतीकरण / **Number of Bids and their Submission:**

The bidders should submit the bids in two bid system as detailed below:

Bid I Technical Bid

The technical bid should consist of proof of EMD transfer, Pre-Qualification Criteria, Bidder Eligibility Criteria and Technical Specification compliance sheet (proforma given in **Annexure-B**) along with all 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

Financial bid should be enter and submit only in GeM Portal as per Proforma for Financial bid format given in **Annexure (C)**. No manual or other form of submission of Financial bid will be entertained.

Bidder should quote prices only in the Financial bid in GeM portal, bids indicating rates anywhere else shall be liable for rejection.

24	<p>बोलियों का मूल्यांकन Evaluation of Bids:</p> <p>Stage I: Technical Bid evaluation</p> <p>Technical Bid Evaluation will be done in two stages.</p> <ol style="list-style-type: none"> 1. In the 1st stage, Bidder will be evaluated first for conformity with Pre-Qualification Criteria and those bidders who have complied with Pre-Qualification criteria will alone be evaluated further. 2. In the 2nd stage, Bidder Eligibility Criteria and 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, Bidders Eligibility Criteria and Technical Specification will be considered for Financial bid evaluation. <p>Stage II: Financial Bid Evaluation</p> <p>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).</p>
25	<p>सफल बोलीदाता का चयन और आदेश प्रदान करना / Selection of successful bidder and Award of Order</p> <p>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 and other subsequent orders issued therein.</p>
26	<p>The bidders will not be entertained to participate in Opening of Bids, since the tender is online through GeM portal, the opening of the bids may be checked using the respective logins of the bidders.</p>
27	<p>The pre-bid meeting will be conducted online. Bidders can submit their queries and doubts to the email id: adstores@iitm.ac.in on or before 28.11.2023. Clarification to the queries and doubts raised by the bidders will be issued as a corrigendum/addendum in the e-tenders portal and Institute Website (tenders.iitm.ac.in). For the bidders, submitting bids on downloaded tender documents, it is 'bidders' responsibility to check for any amendment/corrigendum on the website of IIT Madras or check for the same GeM Portal before submitting their duly completed bids. After the pre-bid meeting, queries/ clarification if any will not be considered.</p>

Sd/-
P.K. Sheba Sabari
Assistant Registrar
Stores & Purchase

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 WAVE HEIGHT MEASURING AMPLIFIER, WAVE GAUGE & CABLE AND STANDARD CABINET WITH POWER SUPPLY MODULE

Tender No. IITM/SPS/OE-WHMA/018/2023-24

Name of Organization	Indian Institute of Technology Madras
Tender Type (Open/Limited/EOI/Auction/Single)	OPEN
Tender Category (Services/Goods/Works)	Goods
Type/Form of Contract (Work/Supply/Auction/Service/ Buy/ Empanelment/ Sell)	Supply
Name of the Tender	SUPPLY OF WAVE HEIGHT MEASURING AMPLIFIER, WAVE GAUGE & CABLE AND STANDARD CABINET WITH POWER SUPPLY MODULE
Source of Fund (Institute/Project)	IIT Madras
Is Multi Currency Allowed	No
Date of Issue/Publishing	22.11.2023
Document Download Start Date	22.11.2023
Pre-Bidding Date	29.11.2023 @ 03.00 p.m.
Document Download End Date	13.12.2023
Last Date and Time for Uploading of Bids	13.12.2023 @ 02.00 p.m.
Date and Time of Tender Opening	13.12.2023 @ 02.30 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 Assistant Registrar Stores & Purchase Section IIT Madras Chennai – 600 036 Phone No. 044 2257 8287 Email: adstores@iitm.ac.in

TECHNICAL BID

SUPPLY OF WAVE HEIGHT MEASURING AMPLIFIER, WAVE GAUGE & CABLE AND STANDARD CABINET WITH POWER SUPPLY MODULE

Tender No. IITM/SPS/OE-WHMA/018/2023-24

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

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. 28 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 similar WAVE MEASURING SYSTEM IN LABORATORY to the reputed Institutions (like IIT,NIT and Central/State University/Central Research Labs)/ R&D Units / Industries in India in the last three years (2020, 2021 and 2022) as detailed below:
 - i) Three (3) supplies of similar equipment *each costing not less than Rs.14 Lakhs
(Or)
 - ii) Two (2) supplies of similar equipment *each costing not less than Rs.21 Lakhs
(Or)
 - iii) One (1) supply of similar equipment *costing not less than Rs.28 Lakhs

* For the purpose of this tender Similar equipment means, Wave Gauge, Amplifier for wave height measurement and associated accessories in Laboratory environment.

Copies of the documents listed below should be submitted as a proof for the above supply:

- i. Purchase Order
- ii. Work Completion Certificates with Performance

C. TECHNICAL SPECIFICATIONS

Sl. No.	Description of WAVE HEIGHT MEASURING AMPLIFIER AND WAVE GAUGE & CABLE - 10 Sets	
1	WAVE HEIGHT MEASURING AMPLIFIER	
1.1	Supply voltage/current	±15 VDC/±30mA
1.2	Output voltage	Maximum ±10V (RI>2 kohm)
1.3	Output impedance	<1 ohm
1.4	Linearity Better than	: 0.1% F.S.
1.5	Output offset vs temperature	<10 µV/ °C RTI
1.6	Frequency response	0-100 Hz, -3 dB
1.7	Gain ranges	1/1, 1/2, 1/5
1.8	Gain adjustment	2.5 times with 10 turn dial
1.9	Step response	5 Ms
1.10	Zero suppression Coarse	±45% of gauge length Fine: ±0.9% of gauge length
1.11	Carrier frequency	2,800 Hz ±100 Hz
1.12	Water conductivity	0.1-1.2 ms/cm at 15°C
1.13	Noise on output	<1mV pp
1.14	Ambient conditions	10°C to 40°C, <95% non-condensing RH
1.15	Wave Gauge Input Terminal	6-pole LEMO
1.16	Signal output	BNC on front or multiconnector on rear side.
1.17	Cable Signal Adoption	The system automatically adjusts for cable length sensitivity.
2.	WAVE GAUGE & CABLE SPECIFICATION	
2.1	Transducer type	Conductivity of liquid between stainless steel electrodes.
2.2	Length	70 cm (For future to be available 25 to 100cm customer specified)
2.3	Effective range	Total length minus 2cm at each end
2.4	Resolution	<1mm
2.5	Temperature sensitivity	<2.5% F.S. /°C
2.6	Time stability	<0.5% F.S. /24 hours
2.7	Operating temperature	5°C to 40°C
2.8	Connector	4-pole Standard LEMO.
2.9	Protection class	IP 65
2.10	Cable	6 core Shielded / 30m as standard; up to 100m length upon request. The system automatically adjusts for cable length sensitivity.
3	STANDARD CABINET WITH POWER SUPPLY – 2 Sets	
3.1	Power requirement	230 VAC ±10%, 35 VA at full load, 50 Hz (or 115 VAC, 60 Hz if specified) For Wave Amplifier Add-on Power supply ±15 VDC ±1A
3.2	Output current	Maximum ±1A
3.3	Ripple at max Lout	<1mV pp
3.4	Ambient conditions	10°C to 40°C, <95%, non-condensing at 40°C
3.5	Rear side connector's	Main socket and multi-connector (D-25 female) with output signals
3.6	Material	Aluminum

Sd/-
P.K. Sheba Sabari
Assistant Registrar (S&P)

PROFORMA FOR TECHNICAL BID**SUPPLY OF WAVE HEIGHT MEASURING AMPLIFIER, WAVE GAUGE & CABLE AND STANDARD CABINET WITH POWER SUPPLY MODULE**

Tender No. IITM/SPS/OE-WHMA/018/2023-24

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. 28 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 similar WAVE MEASURING SYSTEM IN LABORATORY to the reputed Institutions (like IIT,NIT and Central/State University/Central Research Labs)/ R&D Units / Industries in India in the last three years (2020, 2021 and 2022) as detailed below: i) Three (3) supplies of similar equipment *each costing not less than Rs.14 Lakhs (Or) ii) Two (2) supplies of similar equipment *each costing not less than Rs.21 Lakhs (Or) iii) One (1) supply of similar equipment *costing not less than Rs.28 Lakhs		

	<p>* For the purpose of this tender Similar equipment means, Wave Gauge, Amplifier for wave height measurement and associated accessories in Laboratory environment.</p> <p>Copies of the documents listed below should be submitted as a proof for the above supply:</p> <p style="margin-left: 40px;">i) Purchase Order</p> <p style="margin-left: 40px;">ii) Work Completion Certificates with Performance</p>		
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B. TECHNICAL SPECIFICATIONS:

Sl.No	Description		
1	WAVE HEIGHT MEASURING AMPLIFIER :		Compliance (Yes / No)
			Reference Page No.
1.1	Supply voltage/current	±15 VDC/±30mA	
1.2	Output voltage	Maximum ±10V (RI>2 kohm)	
1.3	Output impedance	<1 ohm	
1.4	Linearity Better than	: 0.1% F.S.	
1.5	Output offset vs temperature	<10 µV/ °C RTI	
1.6	Frequency response	0-100 Hz, -3 dB	
1.7	Gain ranges	1/1, 1/2, 1/5	
1.8	Gain adjustment	2.5 times with 10 turn dial	
1.9	Step response	5 Ms	
1.10	Zero suppression Coarse	±45% of gauge length Fine: ±0.9% of gauge length	
1.11	Carrier frequency	2,800 Hz ±100 Hz	
1.12	Water conductivity	0.1-1.2 ms/cm at 15°C	
1.13	Noise on output	<1mV pp	
1.14	Ambient conditions	10°C to 40°C, <95% non-condensing RH	
1.15	Wave Gauge Input Terminal	6-pole LEMO	
1.16	Signal output	BNC on front or multiconnector on rear side.	
1.17	Cable Signal Adoption	The system automatically adjusts for cable length sensitivity.	
2	WAVE GAUGE & CABLE SPECIFICATION :		
2.1	Transducer type	Conductivity of liquid between stainless steel electrodes.	
2.2	Length	70 cm (For future to be available 25 to 100cm customer specified)	
2.3	Effective range	Total length minus 2cm at each end	
2.4	Resolution	<1mm	
2.5	Temperature sensitivity	<2.5% F.S. /°C	
2.6	Time stability	<0.5% F.S. /24 hours	
2.7	Operating temperature	5°C to 40°C	
2.8	Connector	4-pole Standard LEMO.	
2.9	Protection class	IP 65	
2.10	Cable	6 core Shielded / 30m as standard; up to 100m length upon request. The system automatically adjusts for cable length sensitivity.	

3	STANDARD CABINET WITH POWER SUPPLY :			
3.1	Power requirement	230 VAC ±10%, 35 VA at full load, 50 Hz (or 115 VAC, 60 Hz if specified) For Wave Amplifier Add-on Power supply ±15 VDC ±1A		
3.2	Output current	Maximum ±1A		
3.3	Ripple at max Lout	<1mV pp		
3.4	Ambient conditions	10°C to 40°C, <95%, non-condensing at 40°C		
3.5	Rear side connector's	Main socket and multi-connector (D-25 female) with output signals		
3.6	Material	Aluminum		

****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 WAVE HEIGHT MEASURING AMPLIFIER, WAVE GAUGE & CABLE AND STANDARD CABINET WITH POWER SUPPLY MODULE**

Tender No. IITM/SPS/OE-WHMA/018/2023-24

Sl.No.	Detailed Description as per Annexure-B	Unit	Qty	Rate Per Unit	Total Cost (without GST)	GST (in %)	Total Cost (with GST)
1	i) WAVE HEIGHT MEASURING AMPLIFIER as per technical specification mentioned in Annexure-A	Sets	10				
	ii) WAVE GAUGE & CABLE as per technical specification mentioned in Annexure-A						
2	STANDARD CABINET WITH POWER SUPPLY MODULE as per technical specification mentioned in Annexure-A	Sets	2				
Total Cost inclusive of all*							

NOTE:

* The rate should be inclusive of Transporting, Loading and Unloading.

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/SPS/OE-WHMA/018/2023-24

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 PUBLIC PROCUREMENT POLICY
(PREFERENCE TO MAKE IN INDIA) 2017**

Tender Reference Number: Tender No. IITM/SPS/OE-WHMA/018/2023-24

**Name of the item / Service: SUPPLY OF WAVE HEIGHT MEASURING AMPLIFIER, WAVE GAUGE & CABLE
AND STANDARD CABINET WITH POWER SUPPLY MODULE**

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 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 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 or more than 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