



Centre for Materials for Electronics Technology (C-MET)
Athani PO, M.G. Kavu, Thrissur – 680 581, Kerala, India

NOTICE OF INVITATION OF EXPRESSION OF INTEREST

Notification No: CMET/TH/ADM/005/2026

Subject: Invitation for Expression of Interest from interested parties for the identification of Industry partners for the project proposal on “Centre for Sensors and MEMS Devices (C-SMD)” planned to be initiated by C-MET, Thrissur

1. The objective of the Expression of Interests (EoI)

The objective of this notice inviting Expression of Interest (EoI) is to identify and empanel suitable Indian Industries, Start-ups, MSMEs, OEMs, System Integrators, and End Users for participation as Industry partners in the proposed project entitled “Centre for Sensors and MEMS Devices (C-SMD)” planned to be initiated by C-MET, Thrissur.

2. EoI Issuing Authority

Centre for Materials for Electronics Technology (C-MET)
(An Autonomous Scientific Society under the Ministry of Electronics and Information Technology (MeitY), Government of India)
Athani PO, M.G. Kavu, Thrissur – 680 581, Kerala, India

It is intended to identify suitable industry partners through EoI, for a project proposal to establish a Centre for Sensors and MEMS devices at C-MET Thrissur. Based on the EoI submitted by parties, through a selection process, C-MET will identify suitable industry partners. C-MET, Thrissur, reserves the right to reject any and all of the EoIs without assigning any reason and the decision of C-MET, Thrissur on selection of industry partner shall be final.

3. Details of the project

Micro-Electro-Mechanical Systems (MEMS) sensors are of paramount importance to the advancement of modern automation, smart healthcare, and efficient industrial systems due to their ability to provide high-precision, realtime data from an incredibly compact footprint. These sensors can dramatically reduce power consumption and material costs by replacing traditional bulk sensors with micro-machined silicon elements and enable seamless integration directly onto electronic circuit boards. Their ultra-fast response and high reliability under harsh conditions are critical for life-saving medical devices like ventilators, automotive safety features like airbag deployment, and energy-efficient HVAC systems. The swift advancement of sensor networks and IoT technologies is propelling the growth of MEMS sensor applications and thereby expanding market capacity.

The conventional industry relies on individual MEMS sensors in which each sensor is dedicated

to a single measurement. This approach often increases system complexity, board footprint, and power consumption as application demands grow. In this context, multimodal sensors, which can integrate diverse sensing capabilities onto a single sensor platform are gaining more industry attention in order to overcome the spatial and energetic limitations of conventional MEMS sensors. The multimodal sensors can streamline multi-parameter data acquisition, minimize inter-sensor latency, and optimize manufacturing economies. By facilitating fusion of multisensory capabilities, multimodal devices empower next-generation applications like autonomous driving, advanced robotics, and personalized healthcare diagnostics with unprecedented contextual awareness and operational reliability.

In this context, Centre for Materials for Electronics Technology (C-MET), Thrissur envisions a project to establish a Centre for Sensors and MEMS Devices (C-SMD) to cater to the ever-growing industry requirements for MEMS sensors in the country. This proposed project aims to carry out research and development of next generation miniaturized high-performance sensors with the establishment of the required facilities.

The major objectives of the project include

- To establish 4-inch wafer processable MEMS line
- To develop indigenous sensor technology for high-performance next generation sensors in the following domains
 - Multimodal MEMS sensors
 - MEMS-based inertial sensors
- To develop electronic system for the MEMS sensor modules with inbuilt communications.
- To implement innovative products and solutions for the industry those are specifically tuned to cater the industry needs.
- To provide business and mentorship support to Start-up companies in MEMS sensors
- To accelerate innovation and entrepreneurship through design challenges, outreach programs and incubation grants.

The proposed project is envisaged to create indigenous technologies for next generation MEMS sensors, develop integrated MEMS sensor modules for various applications including electronics and strategic applications, establish an incubation facility that nurtures new ideas and connects with investors, capacity building in MEMS sensors through a variety of training programs, provide end-to-end product quality management service and organize and conduct grant challenges to promote research and innovation in MEMS sensors. Through this centre it is intended to strengthen India's semiconductor manufacturing capabilities especially in the passive components and devices. Through the establishment of wafer-level fabrication and packaging processes, prototype development, compliance of the standards and validation, the proposed program seeks to bridge the gap between laboratory research and industrial deployment.

In order to bridge the critical gap between laboratory-scale research and scalable commercial production, C-MET would like to involve suitable Industry partners from the beginning of the project itself. By involving industry partners in the project, we expect to utilize the invaluable domain expertise of the industries and to ensure that experimental prototypes meet rigorous market standards, regulatory compliances, and specific end-user requirements. This partnership will create a MEMS sensor ecosystem in the country which benefits Indian industries. It will help the partner

industries with a distinct competitive edge by granting early access to breakthrough innovations and disruptive technologies. Moreover, this will help to reduce industry's internal R&D costs, streamline supply chains, and accelerate time-to-market strategies. Industry partners can help to transform innovative micro-machined concepts into reliable, cost-effective, and commercially viable technological products.

C-MET is inviting expression of interest (EoI) to identify and empanel suitable Indian Industries, Start-ups, MSMEs, OEMs, System Integrators, and End Users for participation as Industry partners in this project.

3.1. How Industries can Contribute

The industries can contribute in multiple ways. Some of the areas where industries can contribute are given below. These are indicative only and not limited to.

- **Use-Case Definition and Application Road mapping:** The industries can share real world application challenges in various sectors. They can support in framing the required performance benchmarks for the multimodal sensors meet market demands.
- **Access to resources:** The industries can support with extending access to their resources like facilities, expertise, testing instrumentation, packaging, or specialized characterization setups.
- **Extending Design Licenses:** The industries can extend industry-standard software licenses and process design kits (PDKs) for accurate simulation and layout design.
- **Prototyping, Pilot Lines, and Testing Support:** The industries can support with industrial pilot lines or commercial fabrication facilities to scale up successful laboratory-scale prototypes.
- **Reliability Testing and Field Trials:** The industries can validate the multimodal MEMS architectures in real life scenarios through field trials for specific end use applications and reliability studies.
- **Capacity building:** The industries can support through involvement in industrial training, supporting through industrial internships and fellowships to build work force, Co-mentorship, industry-led workshops etc.
- **Commercialization and Technology Transfer:** Industries can partner by commercializing intellectual property (IP) generated within the center through non-exclusive licensing agreements.
- **Ecosystem development:** Industries can support developing a MEMS sensor ecosystem in the country through assisting startup incubation, providing venture mentoring, and integrating breakthrough sensor innovations directly into global supply chains.

- **Co-Funding and Sponsored R&D:** The industries can provide direct grants for long-term or short-term research initiatives, contract research etc.

While submitting the EoI, the parties should submit a technical writeup in their letter head, how they plan to collaborate in the project. They also need to mention their in-cash and/or in-kind contribution with offered allocation in different heads.

3.2. Opportunities for the industries

Collaborating with an initiative like this in the advanced sensor technology will offer substantial strategic, technical, and commercial advantages to the industries.

Here are some of the key benefits for industry partners. These are indicative only and not in any case to be considered as guaranteed. All industry collaborations will be only as per Government of India rules and regulations.

- **Early Access to Intellectual Property (IP) and Technology Transfer:** The industry partners will often get a first-mover advantages through non-exclusive licensing of cutting-edge sensor technologies. However, this will be entirely guided by the Government of India rules and regulations.
- **Co-Creation of Standards and Specifications:** The participation from the beginning of the project itself will provide the industries an opportunity to define testing standards, protocols, and interoperability frameworks for multimodal sensors.
- **Access to high end infrastructure:** Collaborating with the project will provide preference for paid access to the facilities of the centre on mutually agreed terms and conditions during the project period.
- **Opportunities for Pilot Testing:** Participating industries get an opportunity to co-test prototypes in real-world environments and validating the products market readiness.
- **Local supply chain establishment:** By partnering in the project, industries can contribute in developing a local supply chain and reduce import dependencies.
- **Skilled Workforce Development:** Partnering industries gain access to specialized talent pools and trained researchers.

These opportunities mentioned above are indicative only and will be entirely controlled by Government of India rules and regulations. Detailed IPR ownership, licensing, technology transfer, commercialization rights, and revenue-sharing mechanisms shall be finalized at subsequent stages in accordance with applicable policies and mutually agreed terms and conditions.

4. Terms and Conditions

- a) Participation in this EoI is voluntary.

- b) Submission of EoI does not guarantee selection.
- c) C-MET may seek additional information at any stage.
- d) All information provided shall be treated in accordance with applicable confidentiality requirements.
- e) Selected partners may be required to execute Non-Disclosure Agreements (NDAs) and other legal documents.
- f) EoI is invited from only Indian Industries, Start-ups, MSMEs, OEMs, System Integrators
- g) The company should be a registered Indian company having relevant experience/business activity in the field.
- h) The details and supporting documents to prove the experience and capability in sensor manufacturing, marketing, etc. should be provided along with the EoI.
- i) The details required in Annexure – I with supporting documents shall be submitted along with the letter of EoI
- j) While submitting the EoI, the parties should submit a technical writeup in their letter head, how they plan to collaborate in the project. The contribution in cash and/or in kind (In INR) should be clearly indicated with offered allocation in different heads.
- k) The company must not have been declared insolvent/ bankrupt or should not have filed for insolvency/ bankruptcy or in the process of being declared bankrupt before any designated authority (A declaration in this regard needs to be submitted in company letter head).
- l) The company should not have been blacklisted by any of the State/Central Government or organizations of the State/Central Government in India in the past three years (A declaration in this regard needs to be submitted in company letter head).
- m) The company should have valid Registration Certificate, GST Registration Certificate and PAN. Documentary evidence should be submitted.

5. Disclaimers

- a) This information is not intended to be exhaustive and interested parties are required to make their own inquiries in order to submit the EoI. Submission of an EoI in response to this request for EoI shall be deemed to have been done after careful study and examination of the requirements and scope of the industry partner, if selected. Any clarification in this regard can be obtained from the contact person given in this notification inviting EoI.
- b) C-MET reserves the right to cancel this EoI and/ or invite afresh with or without amendments, without liability or any obligation for such EoI and without assigning any reason. Information provided at this stage is indicative and C-MET reserves the right to amend/add any further details in the EoI, as may be desired by the Competent Authority of C-MET and duly notified on its website.
- c) C-MET further reserves the right to decline to discuss the EoI further with any party submitting an EoI.
- d) C-MET will not be liable to pay / reimburse any cost / losses / expenses / penalties / damages of whatsoever nature to any person (s) / entity (ties) submitting the EoI.
- e) This EoI Document is neither an agreement nor an offer and is only an invitation by C-MET to the entities that are qualified to submit their Expression of Interest as stated in this notification inviting EoI.
- f) The issue of this notification inviting EoI does not imply that C-MET is bound to select any partner.

- g) All the processes, procedures, opportunities offered, engagement modalities, exchange of information, etc. are governed by applicable rules, regulations and directives of Government of India (GoI). If any part of this notice inviting EoI deviates from any relevant GoI rules/regulations/guidelines, that part only will be considered severed from the remainder of this notice and the other parts will be considered valid.

6. Evaluation Process

- a) The EoIs so received will be evaluated by a Committee constituted by the competent authority of C-MET. Companies will be shortlisted based on their experience, offered contribution and capability in the relevant field.
- b) Discussions with the shortlisted industries will be carried out by the Committee. The selection of the industry partner will be based on the selection criteria laid down by the committee. The decision of the committee on selection of the industry partner will be final and binding.
- c) Detailed terms and conditions, IPR ownership, licensing, technology transfer, commercialization rights, and revenue-sharing mechanisms shall be finalized at subsequent stages in accordance with applicable policies and mutually agreed terms and conditions and a Memorandum of Understanding/Agreement and an NDA will be entered with the selected industries.

7. How to submit the EoI

EoI responses should be submitted in a sealed envelope clearly marked with: Expression of Interest for the identification of Industry partner for the project “Centre for Sensors and MEMS Devices (C-SMD)”. Interested parties may submit their EoI along with the details requested in Annexure – I with supporting documentary proofs to the address given below

The Centre Head

**Centre for Materials for Electronics Technology (C-MET)
(Scientific Society under Ministry of Electronics and IT, Govt. of India)
Athani P.O., M.G.Kavu, Thrissur – 680 581**

A soft copy of the same may be sent to muralidharan@cmet.gov.in

For any technical queries please contact:

Dr. Muralidharan M. N. (Scientist C), C-MET Thrissur – 680 581, Kerala, India
Email: muralidharan@cmet.gov.in; Phone: +91-487-2201156 – 57, Four Lines (Ext. 212)
Mob: +91 8075165853

For any Administrative queries please contact:

Administrative Officer
C-MET Thrissur – 680 581, Kerala, India
Email: cmett@cmet.gov.in; Phone: +91-487-2201156 – 57, Four Lines (Ext. 104)

Office Hours: Monday to Friday, 9:00 AM to 5:30 PM (Excluding Public Holidays)

8. Last Date

The EoI should reach the above address on or before **21st September, 2026 (e-mail/hard copy)**. The industry should ensure that the EoI has been delivered before the last date. C-MET will not be responsible for any delays due to postal or otherwise.

9. Submission Requirements

Interested Industry Partners shall submit:

1. Completed Annexure-I
2. Letter of EoI with technical contribution write up and in-cash/in-kind contribution details (in INR)
3. Company profile with experience and capability
4. Financial information (Last Three Years)
5. Non bankruptcy and Non-blacklisting declaration in letter head
6. Supporting technical and commercial documents

10. Disqualification Criteria

An EOI may be rejected if:

- i. Required information is incomplete.
- ii. False or misleading information is provided.
- iii. Eligibility criteria are not satisfied.
- iv. Required declarations are not furnished.
- v. The organization is blacklisted, insolvent, or under legal restrictions.
- vi. Submission is received after the prescribed deadline.

11. Appeal / Grievance Mechanism

Aggrieved Interested Industry Partners may submit a written representation to the Centre Head, C-MET Thrissur, within 7 days of the result declaration. The decision of the Centre Head, C-MET Thrissur, shall be final.

Note: This is an Expression of Interest only and does not constitute an offer or commitment by C-MET. C-MET reserves all rights to modify, cancel, or reissue this EoI at its sole discretion

Date of Issue:

Place: Thrissur

Centre Head, C-MET, Thrissur

Details to be furnished with EoI

EoI for Industry Partner for the proposed project on “Centre for Sensors and MEMS Devices (C-SMD)”		
1	Name of the Company	
2	Type of the Company PSU/Public Ltd/Private Ltd/Registered Partnership firm/Others (specify)	
3	Certificate of Registration /Incorporation No. <i>(Attach a copy of the Certificate)</i>	
4	Address of the Registered Office	
5	Name & Designation of Contact Person	
6	Address with telephone No. & Email ID of Contact Person	
7	Website address	
8	Products/Service handled by the Company	
9	No. of years of experience in the related area of Activity (sensor manufacturing, product development and marketing). <i>(Attach documentary support)</i>	
10	Experience in sensors manufacturing/ marketing <i>(Attach documentary support)</i>	
11	In which area and how planned to contribute to/collaborate with the project <i>(Attach separate technical write up)</i>	
12	In cash/ In kind support offered to the project in INR (provide head wise details separately)	
13	Annual Turnover for the last three years <i>(Attach copy of the audited statements)</i>	2025-2026 2024-2025 2023-2024

14	Details of Income Tax Registration, Sales Tax registration, Service Tax registration, Excise Duty Registration	
15	PAN number	
16	Available Manpower	<i>Managerial</i> : <i>Engineers/Scientists</i> : <i>Technical skilled</i> : <i>Semi-Skilled</i> : <i>Un –skilled</i> :
17	Manufacturing and Testing Facilities available with the industry (Infrastructure and Equipments)	
18	ISO certification/ In-house QA if any	
19	Any other information, the Organization wishes to provide	
Declaration I/We hereby, declare that the information given in the EoI and documents attached herewith are true & correct to the best of my/our knowledge and belief. I/We agree that in case any particulars are found incorrect at any time, C-MET has the right to cancel EoI for industry partner for proposed project on “Centre for Sensors and MEMS Devices (C-SMD)” and all the payments, if any, to the C-MET shall stand forfeited. Date : Place: Authorized Signatory (with official seal)		

Enclosures:

1. Letter of EoI with technical contribution write up and in-cash/in-kind contribution details (in INR)
2. Company profile with experience and capability
3. Financial information (Last Three Years)
4. Non bankruptcy and Non-blacklisting declaration in letter head
5. Supporting technical and commercial documents