



भारतीय उष्णदेशीय मौसम विज्ञान संस्थान

(पृथ्वी विज्ञान मंत्रालय, भारत सरकार का एक स्वायत्त संस्थान)

डॉ. होमी भाभा मार्ग पाषाण, पुणे- ४११ ००८

INDIAN INSTITUTE OF TROPICAL METEOROLOGY

(An Autonomous Institute of the Ministry of Earth Sciences, Govt. of India)

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. पीएस/PS/125/16/2025/EOI

दिनांक -26 नवंबर 2025

सेवा में / To,

विषय- आईआईटीएम, पुणे में क्लाउड चैंबर अनुसंधान सुविधा और इसके बुनियादी ढांचे के डिजाइन, विकास, स्थापना और कमीशनिंग के लिए टर्नकी जॉब के रूप में रुचि की अभिव्यक्ति (ईओआई) के लिए निमंत्रण के संदर्भ में।

Sub – Invitation For Expression Of Interest For “Design, Development, Installation and Commissioning of the Cloud Chamber Research Facility and its Infrastructure at IITM, Pune as a Turnkey Job”.

संदर्भ - इस संस्थान का दिनांक 01/10/2025 समसंख्यक ईओआई निविदा जांचपत्र

Ref - This Institute's EOI Tender enquiry of even number dated 01/10/2025

प्रिय महोदय/ Dear Sirs,

ईओआई प्रस्तुत करने की अंतिम तिथि 27 नवंबर, 2025 से 18 दिसंबर 2025 को 1500 बजे तक बढ़ाई जाती है।

The last date of submission of the EOI is extended from 27th November, 2025 to 18th December, 2025 upto 1500 hrs.

ईओआई उसी दिन 1530 बजे ऑनलाइन पद्धति द्वारा खोली जाएगी।

EOIs will be opened on the same day at 1530 hrs. through online mode only.

बोलीदाता जो उपर्युक्त निविदा में भाग लेना चाहते हैं, उन्हें वेब पोर्टल <https://moes.euniwizarde.in> पर उपलब्ध सूचना के अनुसार पंजीकृत करना होगा।

Bidders willing to participate for the above EOI tender, has to get registered themselves on web portal <https://moes.euniwizarde.in> as per the instruction available at there.

धन्यवाद / Thanking you.



(श्रीमती योगिता कड / Smt. Yogita Kad)
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भारतीय उष्णदेशीय मौसम विज्ञान संस्थान, आईआईटीएम

Indian Institute of Tropical Meteorology, IITM

Minutes of second (02) Eol Pre-submission Meeting for (PS/125/16/2025/Eol) - Invitation of Expression of Interest (Eol) for “Design, Development, Installation and Commissioning of the Cloud Chamber Research Facility and its Infrastructure at IITM, Pune as a Turnkey Job”

The second (02) Eol pre-submission meeting for the Eol tender (PS/125/16/2025/Eol) “Design, Development, Installation and Commissioning of the Cloud Chamber Research Facility and its Infrastructure at IITM, Pune as a Turnkey Job” was convened by the Purchase and Stores Section at Monsoon Mission Hall on November 12, 2025, from 1200 hrs in hybrid mode (online + offline).

Agenda for the meeting:

To discuss the queries and requests received from interested participants, as well as any additional points raised during the meeting.

Participants for the meeting:

Two (02) companies/firms, Gopalan Aerospace India Pvt. Ltd. and Kyathi Climate Modification Consultants LLP (KCMC) attended the meeting. Each participating company/firm was asked to indicate their specific queries/requests related to administrative and technical aspects.

Queries/Requests by the Participating Companies/Firms:

1. On the administrative side, both companies/firms raised a concern regarding Intellectual Property (IP) protection to safeguard the designs submitted during the Eol process.
2. Also, both companies/firms stated that the present project is unique with no precedence and therefore working out reasonably detailed performance and technical specifications, and provisional/broad design concept would require some more time. As such, both companies/firms requested an extension of one more month to submit their Eols.
3. On the technical side, both the companies/firms pointed out that submitting a detailed design of the entire project is not feasible at the Eol stage since this is a developmental project with no precedence and the design of the entire facility must therefore be carried out in consultation with the IITM team and experts in the field, and would involve several rounds of meetings, PDR/CDR stages etc. However, both the companies/firms indicated that reasonably detailed performance specifications and technical specifications could be submitted at the Eol stage along with the provisional/broad design concept.
4. Both the companies/firms also requested one (01) additional (in-person/online) meeting for detailed discussions and better understanding of the requirements before submitting their Eols.

Recommendations by the Scientific and Technical Committee:

Based on the discussions in the meeting and the requests by the participating companies/firms, the Scientific and Technical Committee recommends the following:

1. The committee recommends that a suitable Non-Disclosure Agreement (NDA) may be signed at the Eol submission stage with each participating company/firm to ensure confidentiality and a two-way protection of the IP of the tentative proposals/design concepts being submitted by the company/firm as well as inputs provided to them by the IITM team. The committee however notes that IITM shall reserve the full and exclusive rights to the IP of the final design of the entire project (including any/all of its parts/components) and the firm executing the project shall not have any rights whatsoever on the design, specifications, execution, concepts etc. of any part of the project or the complete project. These IP related points must be clarified in the RFP document.
2. After considering the request from the two companies/firms that participated in the second Eol pre-submission meeting and with the consideration of promoting a fair competition from any more firms that might be interested in participating in the present Eol tender process, the committee recommends a second extension of three (03) weeks in the Eol submission deadline. Therefore, the last date of submitting the Eols may be revised from 27 November 2025 to 18 December 2025.
3. Given the unique nature of the present developmental project, the committee finds that the request by the participating companies to submit, at the Eol stage, "Preliminary performance and technical specifications, design concepts, project execution methodology, etc." instead of the "detailed technical specifications, design and drawings, complete BoM and BoQ, and appropriate certifications of the design of the Cloud Chamber" is justified and acceptable. The committee therefore recommends that the invitation for Eols be corrected accordingly as indicated in Annexure-I. This is to be included in the corrigendum to the invitation for Eols.
4. The committee recommends that the corrigendum may also include links to important reference materials (research papers, existing cloud chamber facilities across the globe, etc.) that could assist the participants in the design process. These links are given in Annexure-II.
5. The committee recommends that IITM team may hold separate meetings with both the companies/firms to further discuss technical points that merit more clarifications.

The meeting ended with thanks to the Chair of the Scientific and Technical Committee, and all the members and participants.

Enclosures:

Annexure-I: Table of corrections in the Eol

Annexure-II: Links to relevant reference material

Table of corrections in the EoI

Sr. No.	Page No. and Line No. In the original EOI	Wording in the original EOI ((PS/125/16/2025/EO)	Corrected and to be read as
1	Pg 7, Para 2	detailed technical specifications, BoQs, layouts, plans, designs, drawings, certifications etc. of the complete project	preliminary performance and technical specifications, design concepts, project execution methodology, etc. of the complete project
2	Pg 23, Point (ii)(a)	“Detailed” technical specifications, design and drawings, complete BoM and BoQ, and appropriate certifications of the design of the Cloud Chamber	Preliminary performance and technical specifications, design concepts, project execution methodology, etc. for the design of the Cloud Chamber
3	Pg 23, Point (ii)(b)	“Detailed” technical specifications, design and drawings, complete BoM and BoQ, and appropriate certifications of the design of the Fabricated Supporting Structure.	Preliminary performance and technical specifications, design concepts, project execution methodology, etc. for the design of the Fabricated Supporting Structure
4	Pg 23, Point (ii)(c)	“Detailed” technical specifications, architectural layouts, structural design and drawings, complete BoM and BoQ, and appropriate certifications of the design of the Infrastructure for housing the Cloud Chamber.	Preliminary performance and technical specifications, design concepts, project execution methodology, etc. for the design of the infrastructure for housing the Cloud Chamber.
5	Pg 27, Point (b), Bullet No. 3	Detailed specifications of the proposed technology and components	Preliminary performance and technical specifications of the proposed technology and components
6	Pg 27, Para 3	Detailed technical specifications, design and drawings, complete BoM and BoQ, and appropriate certifications of the design of the Cloud Chamber and its Fabricated Supporting Structure	Preliminary performance and technical specifications, design concepts, project execution methodology, etc. for the design of the Cloud Chamber and its Fabricated Supporting Structure
7	Pg 27, Para 3	Detailed technical specifications, architectural layouts, structural design and drawings, complete BoM and BoQ, and appropriate certifications of the design of the Infrastructure for housing the Cloud Chamber should also be prepared in a comprehensive manner and presented	Preliminary performance and technical specifications, design concepts, project execution methodology, etc. for the design of the Infrastructure for housing the Cloud Chamber should also be prepared in a comprehensive manner and presented
8	Pg 27, Para 4	detailed specifications of all aspects of the projects	preliminary performance and technical specifications, and design concepts of all aspects of the projects

9	Pg 29, Sub-criterion 1, Third Bullet	detailed specifications of the proposed technology and components	preliminary performance and technical specifications, and design concepts of the proposed technology and components
10	Pg 29, Sub-criterion 2	Detailed technical specifications, design and drawings, complete BoM and BoQ, and appropriate certifications of the design of the Cloud Chamber and its Fabricated Supporting Structure	Preliminary performance and technical specifications, design concepts, project execution methodology, etc. of the Cloud Chamber and its Fabricated Supporting Structure
11	Pg 29, Sub-criterion 3	Detailed technical specifications, architectural layouts, structural design and drawings, complete BoM and BoQ, and appropriate certifications of the design of the Infrastructure for housing the Cloud Chamber	Preliminary performance and technical specifications, design concepts, project execution methodology, etc. of the Infrastructure for housing the Cloud Chamber

Annexure-II

Website Links to Relevant Cloud Chamber Facilities across the Globe:

<https://phy.sites.mtu.edu/cloudchamber/>

(Convection-type cloud chamber having a significant publication and research record)

https://www.imkaaf.kit.edu/AIDA_facilities.php

(Expansion-type cloud chamber, different in terms of the working principle as compared to the convection-type cloud chamber being planned at IITM, but could give a broad idea of the engineering aspects involved in the construction of large cloud chambers)

Links to the Research Papers:

<https://journals.ametsoc.org/view/journals/bams/97/12/bams-d-15-00203.1.xml>

<https://journals.ametsoc.org/view/journals/bams/106/4/BAMS-D-25-0027.1.xml>

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2023MS003734>

<https://journals.aps.org/prfluids/abstract/10.1103/PhysRevFluids.7.020501>

<https://www.sciencedirect.com/science/article/pii/S0169809525002364>

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2024MS004562>

<https://par.nsf.gov/servlets/purl/10131260>

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2022MS003304>

<https://journals.ametsoc.org/view/journals/atsc/77/3/jas-d-19-0216.1.xml>

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2021MS002895>