

# MEMORANDUM OF UNDERSTANDING

BETWEEN



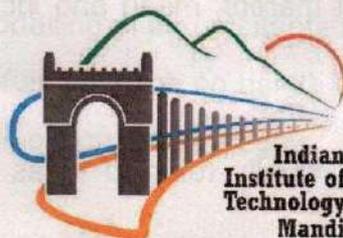
## INDIAN INSTITUTE OF TROPICAL METEOROLOGY

An Autonomous Institute under the

MINISTRY OF EARTH SCIENCES

GOVERNMENT OF INDIA

AND



## INDIAN INSTITUTE OF TECHNOLOGY MANDI

Himachal Pradesh, INDIA

An Autonomous Institute under the

MINISTRY OF EDUCATION

GOVERNMENT OF INDIA

2025

MEMORANDUM OF UNDERSTANDING

This memorandum of understanding is reached on the 2<sup>nd</sup> day of February, 2026 by & between:

The Indian Institute of Tropical Meteorology (IITM), a research organization under the Ministry of Earth Sciences (MoES), Government of India, having its office at Dr. Homi Bhabha Road, Pashan, Pune 411 008, (hereinafter referred to as "IITM") represented herein by its Director, Dr A Suryachandra Rao (which expression shall unless repugnant to the context thereof, mean and include its successors and assigns), herein referred to as 1<sup>st</sup> party,

and

The Indian Institute of Technology, Mandi, Himachal Pradesh India, an autonomous academic and research institute under the Ministry of Education (MoE), Government of India having its office at Kamand, Himachal Pradesh 175005 (hereinafter referred to as "IIT Mandi") represented herein by its Director, Prof. Laxmidhar Behera (which expression shall unless repugnant to the context thereof, mean and include its successors and assigns), herein referred to as 2<sup>nd</sup> party.

"IITM" and "IIT Mandi" are individually referred to as a "Party" and collectively as the "Parties".

WHERE AS:

1. IITM is a premier scientific research institute in the country working at the frontiers of science and technology in various aspects of the Ocean-Atmosphere system required for the improvement of weather and climate forecasts, having the Ministry of Earth Sciences as its administrative ministry.
2. IIT Mandi is a premier academic and research institute in the country and is instrumental in promoting research in the fields of Engineering, Science, Management, and Social Sciences, including the Atmospheric and Climate systems

for the betterment of Air Quality, Climate Adaptation and Mitigation, having the Ministry of Education as its administrative ministry.

- 3. The parties wish to have institutional collaborative associations between IITM and IIT Mandi to the mutual benefit of both.
- 4. The Parties wish to establish collaboration between IITM and IIT Mandi for research related to Air Quality Monitoring and assessment, Chemical Transport Modelling, Climate Change, and Mitigation Strategies for Air Pollution.

NOW THEREFORE, the parties hereby reach an understanding on the following terms:

- 1. IIT Mandi and the IITM will endeavour to enhance research activities by supporting the other Party's research efforts under the principle of respecting mutual autonomy. In particular, both Parties will contribute to the development of integrated modelling and monitoring systems for effective air pollution assessment and applied research, both at the regional and national scale.
- 2. Areas for collaboration between the Parties will involve integrated monitoring and assessment modelling for air quality evaluation, impacts and planning, including:
  - Regular monitoring of all major air pollutants along with meteorological fields,
  - 3-D chemical-transport modelling of air pollutants and climate change,
  - Evaluation of the impact of air pollution on health and critical population exposure,
  - Optimization of air pollution mitigation strategies.
- 3. (a) The Parties agree for reciprocal exchange of staff and associated students for study, visits, research, conferences, and will favour the exchange of scientific experience and knowledge.  
 (b) The Parties will share information about conferences, symposium and seminars organised at national level.  
 (c) The Parties will provide the basic infrastructural facilities to the visiting researchers for carrying out research activity in their organization /University /institute.
- 4. (a) The Air Quality Monitoring System (AQMS) (includes expensive and sophisticated scientific instruments and related accessories) will be fully sponsored, and procured

by IITM. The IITM will also install and commission it in IIT Mandi and will also maintain it regularly through CAMC (Comprehensive Annual Maintenance Contract) by deputing one contract engineer. IITM will also deploy an Aethalometer and a Particulate matter (PM) sampler. All the instruments provided by IITM, shall remain the property of IITM and will be returnable after the expiry of the MOU.

(b) IIT Mandi will provide infrastructural facilities for the installation of an AQMS, an Aethalometer, and PM sampler systems with necessary free electricity supply, free internet connection etc. Guest House accommodation shall be provided to visiting scientists and students at the respective location on a reciprocal basis.

5. The scientific data product of the project may be utilized by both parties in mutual collaboration for maximum scientific benefit. The dissemination of the data shall be made with the consent of both parties.
6. This MOU is non-exclusive, and both parties are free to enter into cooperative arrangements with any other parties to suit their organizational needs.
7. The Parties undertake to ensure that members involved in the collaboration group to maintain confidentiality during the validity of this MoU.

Provided that:

(a) When publishing results/data that stems from the scientific program of a particular Party, proper reference shall be made to the collaborative group and the relevant Party.

(b) When publishing results stemming from project information, data, or software, the name of the Party that developed the results is always to appear in the publications as an author/co-author.

8. (a) This MoU shall remain in force for a period of 5 years unless terminated or extended otherwise, on consent.

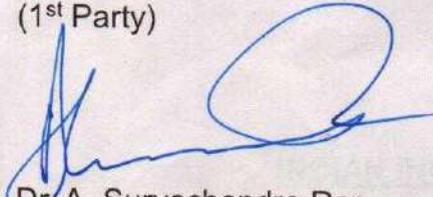
(b) Both parties may terminate the agreement by issuing 'two months' prior notice to that effect, however, without disturbing ongoing activity to reach to its logical end.

9. This MoU has no financial implications on either side. Parties will bear their own expenditure for any activity under this MoU.

## 10. SEAL OF THE PARTIES

In witness whereof the parties hereto have caused this MoU executed in two originals, one to be retained by IITM and the other by IIT Mandi, on 2<sup>nd</sup> day of February 2026.

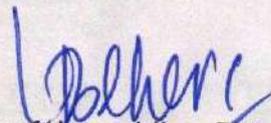
For and on Behalf of IITM  
(1<sup>st</sup> Party)



Dr. A. Suryachandra Rao  
Director  
Indian Institute of Tropical Meteorology,  
Ministry of Earth Science

Place:  
Date:

For and on Behalf of IIT Mandi  
(2<sup>nd</sup> Party)

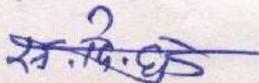


Prof. Laxmidhar Behera  
Director  
Indian Institute of Technology, Mandi  
Ministry of Education

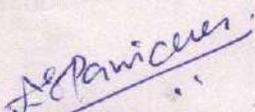
Director  
IIT Mandi (H.P.)  
Pin - 175075

Place:  
Date:

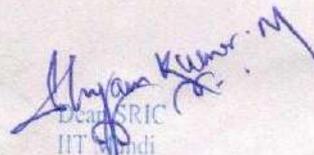
**Witness:**



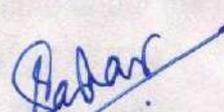
Dr. Sachin Ghude  
Project Director, MAQWS,  
Scientist-F, IITM, Pune,  
Dr. Homi Bhabha Road, Pashan,  
Pune 411008, Maharashtra, India

  
Dr. Abhilash S. Panicker  
Deputy Project Director, MAQWS  
Scientist-F, IITM, Pune,  
Dr. Homi Bhabha Road, Pashan,  
Pune 411008, Maharashtra, India

**Witness:**

  
Dean, SRIC  
IIT Mandi  
Kamand - 175005,  
H.P., India

Prof. Shyam Kumar Masakapalli  
Dean (Sponsored Research and Industrial  
Consultancy),  
IIT Mandi,  
Kamand 175005, Himachal Pradesh, India

  
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