

MEMORANDUM OF UNDERSTANDING

Between



Indian Academy of Highway Engineers

&



National Institute of Disaster Management

For
Collaboration
On

**“Capacity Development for Disaster Risk Reduction, Recovery &
Reconstruction for Highway Infrastructure”**

Memorandum of Understanding (MoU)

This Memorandum of Understanding (from now on called the "MoU") is entered into on 30th day of December 2025, between:

Indian Academy of Highway Engineers (IAHE), an apex training institute imparts training to Road/Highway Professionals which is under the administrative control of the Ministry of Road Transport & Highways, Government of India, located at A-5, NH-24 Bypass, Institutional Area, Sector 62, Noida, Uttar Pradesh - 201309, represented by the **Director IAHE**, from now on referred to as "**IAHE**".


And

The **National Institute of Disaster Management (NIDM)** was constituted under an Act of Parliament with a vision to play the role of a premier institute for capacity development in India and the region. The efforts in this direction that began with the formation of the National Centre for Disaster Management (NCDM) in 1995. Gained impetus with its redesignation as the National Institute of Disaster Management (NIDM) for training and capacity development. Under the Disaster Management Act 2005, NIDM has been assigned nodal responsibilities for human resource development, capacity building, training, research, documentation and policy advocacy in the field of disaster management. **NIDM**, an apex training institute on Disaster Management under the Ministry of Home Affairs, Government of India, is represented by **Executive Director, NIDM**, from now on referred to as "**NIDM**".

From now on, the above two organizations will be jointly referred to as "the Parties."

Background:

- The Ministry of Road Transport & Highways, Government of India, vide Office Memorandum No. 15017/37/2019-P&M(Mon)-DMP dated 19 August 2025, has inter alia assigned to IAHE the role and responsibility of collaborating with NIDM to develop training calendars, modules, etc.. for imparting disaster-specific training on policies, guidelines, and other measures aimed at effectively mitigating and managing various disasters during the pre-, during-, and post-disaster stages, as well as supporting the effective "build back better" reconstruction of infrastructure damaged by disasters.


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Indian Academy of Highway Engineers
(सड़क परिवहन एवं राजमार्ग मंत्रालय)
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- Both parties recognize the need for collaboration to develop disaster-specific training modules, calendars, and programs for the road sector, including pre-disaster mitigation, response, recovery, and resilient reconstruction.
- This MoU aims to formalize cooperation in line with the directives in MoRTH's Office Memorandum No. 15017/37/2019-P&M(Mon)-DMP dated 19 August 2025.
- The parties acknowledge that the Ministry is separately preparing a manual on resilient road systems in the Himalayan Region in collaboration with the Japan International Cooperation Agency (JICA), which will provide additional resources and best practices to support the objectives of this MoU.

NOW, THEREFORE, the parties have reached the following MoU:

Article 1

Objective:

The primary objective of this MoU is to collaborate on capacity building initiatives for Disaster Risk Reduction (DRR) in the road and highways sector, including but not limited to:

- Development of training modules on disaster risk assessment, resilient design, mock drills, and technology integration (e.g., GIS, early warning systems, etc.).
- Conducting joint workshops, seminars, and training programs for highway professionals including engineers, contractors, consultants and officials.
- Promoting research, knowledge sharing, and international best practices.

Article 2

Area of Co-operation:

The Parties herein will provide each other's endeavor to carry out the collaboration in training pertaining to Disaster Management to meet the evolving needs for Safe, Sustainable & Efficient development of the Highway Infrastructure of India.

The purpose of this collaboration is the capacity building of highway professionals of the country through training modules on preparedness, response and recovery as well as build back disaster resilient infrastructure and early warning systems. It also aims for enhancing capacity at institutional as well as individual levels to ensure that the investment planning incorporates preparedness measures.

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Given the need for disaster resilient highway networks, collaboration between the parties is essential to develop comprehensive disaster management capabilities for the highway sector through the following:

(i) Jointly develop the Calendar Training programs on Disaster Management:

- Develop integrated calendar for training programs incorporating disaster management modules specifically tailored for highway infrastructure
- Create progressive training modules covering pre-disaster preparedness, during-disaster response, and post-disaster recovery phases
- Establish training, conferences as and when needed to review and update training requirements based on emerging disaster patterns and infrastructure vulnerabilities
- Integrate disaster risk reduction concepts into existing highway engineering courses at IAHE
- Develop specialized certification program for "Disaster-Resilient Highway Engineers" combining IAHE's infrastructure expertise with NIDM's disaster management knowledge
- Conduct mock drills and evaluations as per DMP guidelines.

(ii) Pre-Disaster Preparedness Training

- **Risk Assessment and Planning:** Joint training modules on **Hazard Vulnerability and Risk Analysis (HVRA)** for highway infrastructure
- Training on disaster-resilient highway design principles incorporating climate change adaptation measures
- Capacity building for developing **Highway Disaster Management Plans** aligned with state and national disaster management frameworks
- Training programs on integrating early warning systems with highway operations and maintenance protocols
- Development of standard operating procedures for highway closures, diversions, and emergency response protocols

(iii) During-Disaster Response Training

- Joint training exercises for coordinated response during highway-related disaster scenarios following the emergency response protocols
- Training on emergency evacuation procedures, traffic management during disasters, and coordination with disaster response agencies

- **Multi-Agency Coordination:** Capacity building programs for seamless coordination between highway authorities, disaster response agencies, and local administration

(iv) Post-Disaster Recovery and Build Back Better

- Training modules on **rapid damage assessment** techniques for post-disaster highway infrastructure
- Capacity building on **Build Back Better (BBB) principles** specifically applied to highway reconstruction
- Training on policy/guidelines for resilient highway reconstruction incorporating multi-hazard considerations
- Advanced training on disaster-resilient highway design standards and engineering solutions
- Capacity building on **nature-based solutions** and **climate-resilient infrastructure** for highways

(v) Research and Development

- Collaborative research on highway infrastructure resilience and disaster risk reduction
- Joint publication of research findings, training manuals, and policy recommendations

(vi) Capacity Building Commission (CBC) Integration

- Align training programs with Mission Karmayogi objectives for comprehensive civil services capacity building
- Coordination with CBC for standardized competency frameworks across government training institutions

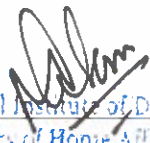
(vii) International Collaboration

- Joint training programs for international participants from SAARC, ITEC, Afro-Asian countries, etc.
- Knowledge exchange with international best practices in disaster-resilient highway infrastructure
- Participation in national and international forums and conferences on resilient infrastructure

Article 3

Scope, Roles & Responsibilities:

Scope:


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The collaboration between the parties may include, but is not limited to, the following activities:

- a) The Parties shall hold periodical consultations as necessary to implement this MoU.
- b) Conduction of various mutually planned and agreed training programs for Highway Professionals. These programs may be conducted at the IAHE campus in Noida or the NIDM campus in Delhi.
- c) Both parties will exchange faculty members and Subject Matter Experts to effectively achieve the objective of this MoU.
- d) Both institutes will share the infrastructure required for training, making this collaboration impactful.
- e) Both institutes may participate in national and international conferences, symposiums, and other academic events to showcase collaborative efforts and disseminate knowledge.

The scopes above are intended to enhance the impact of this collaboration, as both institutes, IAHE & NIDM, have the potential to reach nationwide coverage.

Roles & Responsibilities of IAHE & NIDM:

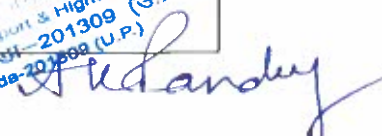
- a) The nomination of participants, timing, duration, etc., of training programs will be determined through mutual consultation between both institutes.
- b) If the training program is organized by IAHE or is held at IAHE's Noida campus, IAHE will provide all necessary training infrastructures for NIDM faculty members and participants.
- c) If the training program is organized by NIDM or is held at NIDM campus in Delhi, NIDM will provide all required training infrastructure for IAHE faculty members and participants.
- d) Being the apex training institute in Disaster management, NIDM will offer DRR expertise, facilitate access to national and international networks, and lead on policy alignment. Whereas, IAHE shall provide domain expertise in highway engineering.
- e) Both parties shall nominate coordinators for implementation of various training programs.
- f) Any financial implications arising out of the exchange of faculty or facilities in each party's premises shall be decided by mutual consent and agreement of both parties. No financial commitments are implied herein.



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- g) Both institutions will adhere to all relevant laws, regulations, and institutional policies governing collaborative activities.

Article 4

Validity of MoU:

This MoU shall come into effect on the date of its signing by both institutes and shall remain in force for three years unless terminated earlier by mutual agreement. The MoU may be renewed upon expiration with mutual consent from both institutes.

Article 5

Amendment:

Any amendment or modification to this MoU shall be made in writing and duly signed by authorized representatives of both parties by mutual consent during its validity. Any difference arising from the MoU's interpretation, implementation, or application shall be resolved amicably through consultation between the Parties, represented by the respective Competent Authorities.

Article 6

Termination:

Either party may terminate this MoU by providing a written notice to the other party at least 60 days before the intended termination date. Termination of this MoU shall not affect any ongoing collaborative training programs or commitments unless otherwise agreed upon by both institutes.

Article 7


Confidentiality and Intellectual Property:


Both Institutes agree to maintain the confidentiality of any proprietary or sensitive information shared during this collaboration and use such information solely for the purposes outlined in this MoU. Furthermore, Intellectual property developed jointly shall be co-owned.

Article 8

Dispute Resolution:

Any disputes arising on account of this MOU shall be resolved amicably through discussions between both the parties.

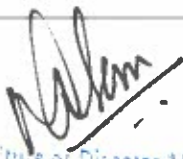




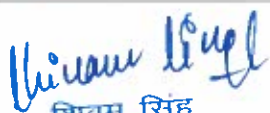

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IN THE WITNESS, the undersigned, duly authorized by the respective parties, have signed this MoU.

This MoU is executed in duplicate, with each institute retaining one original copy.

Signed on behalf of NIDM:	Signed on behalf of IAHE:
 National Institute of Disaster Management Name: Col. Manoram Yadav, SM Designation: Joint Director, NIDM, Delhi Rohini, Delhi-110042	 आलोक कुमार पांडेय Name: Shri Alok Kumar Pandey Designation: Director भारतीय राजमार्ग अभियंता अकादमी Indian Academy of Highway Engineers (सड़क परिवहन एवं राजमार्ग मंत्रालय) (Ministry of Road Transport & Highways) ए-5, सेक्टर-62, नोएडा-201309 (उ.प्र.) A-5, Sector-62, Noida-201309 (U.P.)
Witness #1:  Name: Pankaj Kumar Designation: Assistant Professor	Witness #1:  Name: Dinesh Kumar Sharma Designation: संयुक्त निदेशक/Joint Director भारतीय राजमार्ग अभियंता अकादमी Indian Academy of Highway Engineers (सड़क परिवहन एवं राजमार्ग मंत्रालय) (Ministry of Road Transport & Highways) ए-5, सेक्टर-62, नोएडा-201309 (उ.प्र.) A-5, Sector-62, Noida-201309 (U.P.)
Witness #2:  Name: AMIR ALI KHAN. Designation: Associate Professor NIDM	Witness #2:  Name: Shivam Singh Designation: उपनिदेशक/Deputy Director भारतीय राजमार्ग अभियंता अकादमी Indian Academy of Highway Engineers (सड़क परिवहन एवं राजमार्ग मंत्रालय) (Ministry of Road Transport & Highways) ए-5, सेक्टर-62, नोएडा-201309 (उ.प्र.) A-5, Sector-62, Noida-201309 (U.P.)