

No. NH-12037/02/2019/Chardham/Zone-I  
Government of India  
Ministry of Road Transport & Highways  
(Zone-I)

Transport Bhawan, 1, Parliament Street, New Delhi-110001

Dated, the 17<sup>th</sup> March, 2021

To

1. The Chief Secretaries of all State Governments/UTs
2. The Principal Secretaries/ Secretaries of all States/ UTs of Public Works Department dealing with National Highways, other Centrally Sponsored Schemes & State Schemes.
3. The Engineers-in-Chief and Chief Engineers of all States/UTs of Public Works Department dealing with National Highways, other Centrally Sponsored Schemes.
4. The Chairman, NHAI.
5. The Director General, Border Road Organisation.
6. The Managing Director, NHIDCL.

**Subject:- Memorandum of Understanding (MoU) between DRDO and MoRTH for Geo-hazards mitigation measures on National Highways (NHs).**

Sir,

A memorandum of understanding (MoU) has been signed between the Ministry of Road transport & Highways (MoRTH) and Defence Research and Development Organisation (DRDO) on 20<sup>th</sup> January, 2021 to utilize the expertise of DRDO in providing sustainable landslide, avalanches and other geo-hazard mitigation measures on National Highways. Defence Geo-informatics Research Establishment (DGRE), a premier laboratory of DRDO, is known for its expertise in the area of landslide and snow Avalanche mitigation techniques. The role and charter of the DGRE is mapping, forecasting, monitoring, control and mitigation of landslides and avalanches in Indian Himalayas. The general framework of technical collaboration between MoRTH and DGRE as under.

- i. Detailed investigation of the existing critical avalanches/geo hazards such as landslides, slope instability, sinking problems etc.

- ii. Planning, designing and formulation of sustainable mitigation measures for geo-hazards for NHs including tunnels.
- iii. Supervision or monitoring during implementation of the mitigation measures.

2. The initiative is expected to evolve a long term strategy for sustainable geo-hazard mitigation measures on National Highways, which will result in safer transportation for commuters on National Highways.

3. In view of the above, it is requested that proposals of Roads/Tunnels on National Highways requiring specialized investigation/mitigation measures related to geo-hazards may be referred to Director General (Road Development) & Special Secretary.

4. This issues with the approval of Competent Authority.

Yours faithfully,



(Shashank S Rai)  
Executive Engineer

Copy to:

- 1. All Technical Officers at the Headquarters
- 2. All ROs and ELOs of MoRT&H

Copy for information to:

- 1. PPS to Secretary (RT&S), PPS to DG (RD) & SS, PS to AS&FA, PS to AS and PS to ADGs.
- 2. NIC- with the request to upload in the Ministry's portal.