

GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS
RAJYA SABHA
STARRED QUESTION NO -261
ANSWERED ON – 12/08/2026

ROAD CONSTRUCTION AND LANDSLIDE RISK IN MOUNTAIN AREAS

261. SHRI VIVEK K. TANKHA:

Will the Minister of ROAD TRANSPORT AND HIGHWAYS be pleased to state:

- (a) the number of landslides attributed to road construction and blasting in mountain States in each of the last three years, and the resultant loss of life, property, and forest cover;
- (b) whether geological impact assessments are mandatory before sanctioning road projects in landslide-prone zones, if so, the number approved without such assessments in the last three years; and
- (c) the standards prescribed for slope stabilisation and drainage in mountain road construction and the agency responsible for enforcement?

ANSWER

THE MINISTER OF ROAD TRANSPORT AND HIGHWAYS

(SHRI NITIN JAIRAM GADKARI)

- (a) to (c) A statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF RAJYA SABHA
STARRED QUESTION NO. 261 ANSWERED ON 12.08.2026 ASKED BY SHRI VIVEK K.
TANKHA REGARDING ROAD CONSTRUCTION AND LANDSLIDE RISK IN
MOUNTAIN AREAS

(a) Government in Ministry of Road Transport and Highways is primarily responsible for development and maintenance of National Highways (NHs). Generally, Himalayan Region and Western Ghat sections have witnessed frequent landslides causing large scale damage to infrastructure including NH sections. Landslides on NH sections in mountain States have been reported mainly due to extreme rainfall and flash flood conditions including some attributed also due to improper construction practices / techniques, etc. leading to some loss of life, property, and forest cover.

Removal of debris, formation cutting and other necessary measures for restoration of NH sections to traffic-worthy condition are taken on an immediate basis by the concerned executing agencies. Long-term Remedial Measures of Landslide Prone Areas on NHs are also taken up from time-to-time based on detailed study and investigations.

State / Union Territory (UT) – wise details of major incidents of landslides on NH stretches reported during the last three years and attributed to various reasons are at Annexure.

(b) and (c) Aspects of rainfall, high flood level, climate, type of terrain, soil category etc. are invariably taken into consideration during preparation of Detailed Project Report (DPR) for all NH development / upgradation projects. Further, based upon the learnings from failures of hill slopes during construction, Government has taken various initiatives for developing disaster resilient NHs infrastructure, which includes: -

- i. Consultants to include slope studies and stabilization as part of Detailed Project Report preparation. Geological and geotechnical investigation are to be carried out covering both within and beyond Right of Way (ROW) to prevent damages to property and infrastructure. Also, due emphasis to be given for construction of catch water drains, side drains with catch pits, cut off drains, cross drainage, etc.
- ii. Implementation of standardized parameters for investigating hill slope stability & selecting cost-effective long-term stabilization measures for landslide-prone areas in hilly regions.

- iii. Hill construction methodology refined which mandates initial construction only for hill cutting & slope protection and subsequent highway construction only post stabilized cutting formation and protection work.
- iv. Amendments made, for NH works in hilly regions, in the Standard Request for Proposal (RFP) Document for DPR Consultants and Standard Engineering, Procurement, and Construction (EPC) Contract Document, with modifications to incorporate provisions of the Expert Committee Report for hilly regions.
- v. DPR Consultants directed to mandatorily include analysis based on National Disaster Emergency Management (NDEM) Portal datasets, duly covering aspects of route alignment optimization, floodplain and drainage planning, risk and vulnerability assessment, environmental and social screening, landslide risk mapping in case of hill roads. The NDEM portal contains very important geospatial layers of pattern of flood history of last thirty years, Drainage layers, & river basin networks (for cross-drainage structure design and hydraulic analysis), Flood plain and inundation zones (for identifying flood-prone areas), Soil and geotechnical layers (for geotechnical feasibility and pavement design considerations) etc.
- vi. Implementation of sustainable bio-engineering measures such as coir/jute mat hydroseeding, interlinked chain mesh with green strips, bamboo piling by stepped berms and erosion control with Vetivar grass plantation on jute matting etc. for stabilizing hilly and landslide prone areas, thereby enhancing safety on NHs in such areas.
- vii. Standard Operating Procedure issued along with delegation of powers to field officers in case of Emergent Repair Works during flood, Glacial Lake Outburst Flood (GLOF), Landslides, Avalanche or any other Natural Calamity etc. or Disaster.

Drainage systems on NHs are designed keeping in mind expected traffic, importance and configuration of road, sources of water, hydrology and hydro-geologic conditions of catchment area, geometric characteristics of the road, presence of extreme gradients and cross slope, areas of excavation and landfill, existing drainage systems, etc. Also, provision of additional culverts and upgradation of discharge capacity of existing drainage system is made duly considering the site conditions.

Accordingly, construction activities on NH sections, including drainage systems and provisions / measures for slope protection / stabilisation, are carried out as per scope of contract for the project by the Contractor / Concessionaire as per standard specifications and Indian Roads Congress (IRC) codes.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF RAJYA SABHA STARRED QUESTION NO. 261 ANSWERED ON 12.08.2026 ASKED BY SHRI VIVEK K. TANKHA REGARDING ROAD CONSTRUCTION AND LANDSLIDE RISK IN MOUNTAIN AREAS

State / UT – wise details of major incidents of landslides on NH stretches reported during the last three years and attributed to various reasons: -

State	S. No.	Stretch / Project	Year(s)	Details of Incident	Corrective Action
Arunachal Pradesh	1	Lalpul-Manmao-Changlang – NH-215	2025, 2026	Landslides occurred at Ch. 67+200, 19+200 and 7+800, with affected lengths up to 100 m.	Debris cleared and road opened to traffic.
	2	Khonsa–Tissa–Longding Section (LTK Road) – NH-215	2024	Landslide-prone locations at Ch. 21.440, 24.690 and 28.295 (Luthong Point), including pavement sinking.	Slope protection and landslide mitigation work taken up.
	3	Hukanjuri–Khonsa Road (HK Road) – NH-315A	2025	Flash flood washed out road formation from Ch. 10.088 to 10.170 and major landslide occurred at Ch. 12.900 to 12.990.	Slope protection and landslide mitigation taken up.
	4	Changlang–Khonsa Road (CK Road) – NH-215	2025, 2026	Major landslide-cum-sinking area at Ch. 41.495–41.540 and landslide at Ch. 7.000.	DPR prepared for permanent slope protection/mitigation; temporary restoration and clearance undertaken.
	5	Pasighat-Pangin Road Section – NH-13	2024, 2025, 2026	Landslide-prone locations reported at several points along the Pasighat-Pangin Road; formation breaches also occurred at Km 6.100, 7.200, 20.200, 43.200 and 47.100, with approach breach at Km 57.300.	Slope protection/mitigation completed.
	6	Pasighat-Singer Section – NH-513	2023, 2025, 2026	Landslide-prone locations reported at several points between Km 3.900 and 18.000.	Temporary restoration completed, slope protection and landslide mitigation taken up.
	7	Singer-Sijhon Section – NH-513	2025, 2026	Landslide locations reported at Km 22.500, 25.200, 25.780, 27.980, 33.780, 33.880, 34.500 and 37.485.	Temporary restoration completed, slope protection and landslide mitigation taken up.
	8	Sijhon-Gobuk Section – NH-513	2023, 2025	Landslide-prone locations reported at several points between Km 44.005 and 79.900; formation breach at Km 51.000.	Slope protection and landslide mitigation taken up.
	9	Gobuk-Yingkiong Section – NH-513	2023, 2025, 2026	Landslide locations reported at Km 87.824, 88.470, 90.774, 96.000, 101.814 and 112.500.	Slope protection and landslide mitigation taken up; debris cleared.
	10	NH-113 – Arrowa-Khupa-Hayuliang	2024, 2025, 2026	Landslides occurred at Ch. 77+500, 84+400, 82+600 and 87+650.	Repair work carried out at Ch. 77+500; road opened to traffic.
	11	NH-13 – Demwe-Brahmakund (OTI)	2026	Landslides occurred at Ch. 740+840 and 742+050.	Landslide cleared. Repair work underway after road washout.

State	S. No.	Stretch / Project	Year(s)	Details of Incident	Corrective Action
	12	Nrimbanglo–Jatinga Junction–Harangajao, NH-27	2026	Multiple landslides at Ch. 24+300, 43+100 and 44+600 causing slope failures, debris deposition and traffic disruption.	Debris cleared; slope benching, pile and gabion retaining wall works undertaken.
	13	Hathikali–Nrimbanglo, NH-27	2024	Rainfall-induced mud/debris flow and hill slips at Ch. 97+280 and 122+500.	Debris removed; drains and pavement restored.
	14	Balachera–Silchar, NH-27	2025	Heavy landslide debris between Ch. 292+350–292+900 damaged drains and pavement.	Debris removed; drains and pavement restored.
	15	Tarajuli–Doloihat Tiniali–Lakhimpur–Charaimoria–Balijan–Gogamukh, NH-15	2025, 2026	Landslide, muck and mud flow at Km 308.800–310.000 causing partial traffic blockage.	Landslide removed.
	16	Km 315.315–344.000, NH-715 (Old NH-37)	2025, 2026	Landslide, muck and mud flow at Km 336.620–338.450 causing partial traffic blockage.	Landslide removed.
	17	NH-27 – Balachera to Harangajao	2025, 2026	Landslides occurred at multiple locations due to heavy rainfall, affecting LHS in 2025 and RHS in 2026.	Clearance of slush, earth and debris undertaken.
Goa	18	Patradevi–Karaswada, NH-66	2024	Landslide at Km 486+825–487+095 near Malpe, covering carriageway and damaging retaining wall.	Stepped benching, hydroseeding, wire mesh with geosynthetic mat and U-pin anchors; drainage provided.
	19	Zuari Bridge Approaches, NH-66	2024	Landslide at Km 532+300–532+600 near Zuari Bridge, covering service road with debris.	Gabion wall, geogrid, structural backfill, berm drains and perforated drainage provided.
	20	Km 84–143 of NH-748	2025	Landslide at Km 87 near Anmod Ghat; half lane dislodged and slipped into valley.	Retaining wall using micropiles and grouted soil nailing.
Himachal Pradesh	21	Parwanoo–Solan, NH-22	2023	Heavy rainfall damaged the highway at 29 locations.	Restoration works completed.
	22	Shimla–Daseran, NH-205	2025	Heavy rainfall damaged 8 retaining walls and 1 breast wall.	Restoration completed.
	23	Kiratpur–Nerchowk, NH-21 (Packages I & II)	2025	Natural calamity – landslides occurred along the Kiratpur–Nerchowk stretch.	Debris removed and traffic restored.
	24	NerChowk–Pandoh including Pandoh Bypass, NH-21	2023, 2025	Natural calamity – landslide.	Debris removed and traffic restored.
	25	Pandoh Bypass–Takoli, NH-21	2025	Natural calamity – landslide/flash flood/cloudburst.	Debris removed and traffic restored.
	26	Takoli–Kullu, NH-21	2023, 2025	Natural calamity – landslide/flash flood/cloudburst.	Debris removed and traffic restored.
	27	Kullu–Manali, NH-21 (New NH-3)	2023, 2024, 2025	Natural calamity – landslide/flash flood/cloudburst during the respective years.	Debris removed and traffic restored.
	28	Bhangbar–Kangra Bypass	2025	Heavy rainfall caused boulders to slip and damage slope stabilization works.	Debris removed and traffic restored; slope stabilization works taken up.

State	S. No.	Stretch / Project	Year(s)	Details of Incident	Corrective Action
	29	Punjab/HP Border–Mo, NH-20 (New NH-154)	2025	Heavy rainfall washed out road shoulders at Ch. 23+500 LHS and 32+050 RHS.	Debris removed and traffic restored.
	30	Thanpuri–Paror, NH-20 (New NH-154)	2023	Landslide occurred at old Ch. 85+300 during monsoon.	Restoration completed by providing gabion wall.
	31	Km 284.00 to 286.00 of NH-05	2023	Washing out of road due to cloudburst.	Restoration works completed and traffic restored.
Jammu & Kashmir	32	Udhampur–Ramban, NH-44	2025, 2026	2025: Cloudbursts/heavy rainfall caused landslides at Bali Nallah and Tharad, and muck/slush accumulation at Karol and Kowbagh. 2026: Massive landslide at Dewal near Samroli, Km 79, blocked both carriageways and damaged retaining wall.	Restoration/clearance completed.
	33	Ramban–Banihal, NH-44	2025, 2026	2025: Cloudburst caused heavy slush/debris at Seri, muck in Tunnel T-2 and a slide at Kela Mor. 2026: Landslide blocked both carriageways.	Restoration/clearance completed.
	34	Marog–Digdol, Ramban–Banihal, NH-44	2025	Landslide at Marog due to cloudburst.	Restoration/clearance completed.
	35	NH-244 – Chenani-Sudhmahadev Road	2025	Landslides occurred at multiple locations between Km 1+650 and Km 14+200 due to rainfall, flash floods and cloudbursts.	Landslides cleared and traffic restored.
	36	NH-1 – Sonamarg Tunnel Project	2023	One landslide incident was reported.	Audit conducted and slope protection measures installed.
Karnataka	37	Hassan–Maranahally, NH-48	2024	Landslide at Km 227+900 during monsoon, with minor slope failures at other locations.	Debris cleared; slope protection works taken up.
	38	Goa-Karnataka Border–Kundapur, NH-66	2024	Landslide due to heavy mass collapse at Shirur, Km 147+900 LHS.	Gabion wall construction taken up.
Kerala	39	Existing NH-85	2025	Landslide at Km 96+500 LHS due to heavy rainfall;	Rectification completed.
Maharashtra	40	Vadape–Gonde	2023	120 m valley-side embankment subsidence.	Piling, rock anchoring and gabion wall constructed.
	41	Mirya–Hathkhamba & Pali–Ambaghat, NH-166	2025, 2026	2025: Minor landslide at Ch. 61+650–61+700. 2026: Minor landslides at Ch. 63+700 and 64+100.	Debris cleared; retaining walls and breast wall construction taken up.
	42	Ratnagiri–Kolhapur, NH-166	2026	Heavy rainfall caused distress and cracking in the vulnerable valley section between Km 69.500–69.700.	Area barricaded; traffic diverted; heavy vehicles proposed for diversion to alternate routes.
	43	Varunapuri–Sada Junction & MPT Connectivity, NH-566	2024	Landslide due to rainfall and unstable slope.	100 m gabion wall constructed and slope protection works completed.

State	S. No.	Stretch / Project	Year(s)	Details of Incident	Corrective Action
	44	Ahmednagar Bypass–Kharvandi Kasar, NH-61	2025	Landslide in ghat section causing failure of one lane.	Retaining wall construction taken up.
	45	Lonand–Shirval–Bhor–Mandangad–Pachral, Hirdoshi–Varandha Ghat, NH-965DD	2023, 2024, 2025, 2026	Landslides at various locations in Varandha Ghat due to heavy rainfall; debris deposition.	Debris cleared; slope mitigation/construction of retaining structures taken up.
	46	Indapur–Wadpale, NH-66	2023, 2024, 2025, 2026	Recurrent landslides in Kashedi Ghat due to heavy rainfall.	Debris cleared; Immediate traffic management and slope protection measures undertaken.
	47	Kashedi Ghat, NH-66	2023, 2024, 2025	Recurrent landslides in old and new alignment due to heavy rainfall.	Debris cleared; Immediate traffic management and slope protection measures undertaken.
	48	Kashedi–Parshuram Ghat, NH-66	2023, 2024, 2025, 2026	Recurrent landslides in Parshuram Ghat due to heavy rainfall.	Debris cleared; HT wire mesh and rock nailing undertaken. Retaining/slope protection works proposed.
	49	Rajewadi–Mandangad, NH-965DD	2026	Landslide and damage to roadside railing.	Debris cleared; railing temporarily restored; retaining wall and cladding proposed.
	50	Varandh–Varandha Ghat, NH-965DD	2023, 2024, 2025, 2026	Recurrent landslides due to heavy rainfall; debris deposition.	Debris cleared; retaining structures and slope protection proposed.
	51	Kalyan–Murbad–Malshej Ghat, NH-61	2023, 2024, 2025	Recurrent landslides at various locations in Malshej Ghat.	Landslide debris removed
	52	Mokhada–Jawhar–Vikramgad–Manor–Palghar, NH-160A	2023, 2025	Landslides at various locations.	Debris removed.
	53	Arawali–Kante, NH-66	2023, 2024, 2025, 2026	Landslide and rockfall.	Debris removed; DPR for landslide protection taken up.
	54	Talere–Gaganbawda Ghat, NH-166G	2024, 2025, 2026	Landslide and rockfall.	Debris removed; DPR for landslide protection taken up.
Meghalaya	55	NH-51 – Tura-Dalu Section	2025	Landslide occurred	Protection work taken up.
	56	NH-206 – Shillong-Dawki Section, Package-II	2026	Landslides occurred between Ch. 10.670 and 37.550 due to incessant rainfall, resulting in downward flash-flood type conditions.	IIT Guwahati appointed for vulnerability assessment, detailed investigation and long-term remedial measures.
	57	Jowai–Meghalaya/Assam Border, NH-44	2025	Recurrent major and minor landslides affected the roadway during monsoon.	Landslide mitigation and slope protection works taken up.
Mizoram	58	NH-102B – Keifang-Tuivai (Packages I &	2026	Landslides at multiple locations including Ch. 03+230–03+270,	Landslide clearance taken up.

State	S. No.	Stretch / Project	Year(s)	Details of Incident	Corrective Action
		II)		17+100–17+150, 24+450–24+500, 38+650–38+700 and 57+420–57+480.	
	59	NH-302 – Lunglei-Tlabung (Packages A & B)	2026	Landslides/slope failures at Ch. 2+600–2+730, Ch. 3+700 and Ch. 70+600–70+700.	Landslide clearance taken up.
	60	NH-02 – Aizawl-Tuipang (Packages 2, 5, 6 & 7)	2026	Landslides at multiple locations including Ch. 107+480, 227+600–227+710, 230+700–230+780, 262+920, 280+900, 328+540–328+590 and 328+960–329+080.	Landslide clearance taken up.
	61	NH-54/6	2025	Road fully blocked due to landslide.	Landslide fully cleared.
	62	NH-44A / NH-108	2026	Road fully blocked due to landslide.	Landslide fully cleared.
	63	Km 0–38, NH-502A	2023, 2024	Recurrent landslides blocking road.	Landslides cleared.
	64	Km 38–71, NH-502A	2023, 2024	Recurrent landslides blocking road.	Landslides cleared.
	65	Km 71–99.83, NH-502A	2023, 2024	Recurrent landslides blocking road.	Landslides cleared.
Manipur	66	Km 89–105, NH-06	2025	Landslides blocking road at Ch. 95.720 and 97.300.	Landslides cleared.
	67	NH-129A – Maram-Peren Section (Packages 1A, 1B, 2A, 2B & 3)	2024, 2025	Multiple landslides occurred between Ch. 0.000 km and 109.494 km due to incessant rainfall and weak geological strata.	Clearance of landslides completed.
	68	NH-129A – Maram-Peren Section (Package-2B)	2026	Landslide occurred from Ch. 67+080 to 67+400 (320 m) due to continuous rainfall and recurring slides.	Clearance completed and repair works taken up.
	69	NH-02 – Mao-Senapati Section	2024	Multiple landslides occurred between Ch. 212.325 km and 260.000 km due to incessant rainfall and weak geological strata.	Clearance of landslides completed.
	70	NH-02 – Imphal-Kohima Road, Taphukuki-Daili, Daili-Kuraopokpi & Kuraopokpi-Sekmai Sections (Packages 4A, 4B & 5A)	2024	Multiple landslides occurred between Ch. 262+175 and 297+700 due to incessant rainfall and weak geological strata.	Clearance of landslides completed.
	71	NH-102A – Ukhrul-Tolloi-Tadubi Section (Packages III & IV)	2024, 2025	Multiple landslides occurred between Ch. 50.850 km and 105.825 km due to incessant rainfall and weak geological strata.	Clearance of landslides completed.
	72	NH-137 – Tamenglong-Mahur (Packages 3 & 5)	2025, 2026	Multiple landslides occurred due to unprecedented rainfall.	Clearance completed and repair works taken up.
Nagaland	73	NH-37 – Imphal-Jiribam (Package-4)	2024	Multiple landslides occurred due to unprecedented rainfall; locations affected under COS.	Clearance completed and repair works taken up.
	74	NH-29 – 4-lane Dimapur-Kohima	2024	landslide occurred from Km 164+000 to Km 164+060 due to seepage and	Damaged stretches restored.

State	S. No.	Stretch / Project	Year(s)	Details of Incident	Corrective Action
		Road		dislodging of saturated hill mass.	
	75	NH-702 – 2-Lane Changtongya-Longleng Road	2024	Landslides with mudslides occurred in Packages-I and II.	Damaged stretches restored.
	76	Jotsoma Bypass Junction–Lerie Welcome Gate, NH-29	2026	Recurrent landslides.	Landslide cleared.
	77	Km 185–220, NH-02	2026	Major landslide caused carriageway heaving/buckling, debris obstruction and pavement failure.	Restoration taken up.
Odisha	78	Singara–Binjabahal, NH-49	2025	Landslides at multiple locations between Ch. 382+000–384+750 due to continuous rainfall.	Debris cleared and slope protection measures taken up.
Rajasthan	79	Beawar–Gomti, Package-III, NH-58	2023, 2024, 2025, 2026	Recurring monsoon landslides in high rock-cut sections (25–35 m high).	Debris cleared.
Sikkim	80	NH-717A – Rhenock-Rorathang-Pakyong	2023, 2024, 2025, 2026	Multiple landslides reported annually. 05 locations during 2022 to 2024, 07 during 2025 and 09 during 2026.	Clearance of landslides undertaken. DPR work for mitigation measures for landslide/sinking zones taken up.
	81	NH-717A – Ranipool-Pakyong	2026	02 landslides occurred at Km 1+520 and Km 15+010.	Landslides cleared and road opened to traffic.
	82	NH-717B – Rongli Bazar to Rongli Bypass	2023, 2024, 2025, 2026	Landslides reported under Packages-IIA and IIB at various locations. 01 in 2023, 01 in 2024, 01 in 2025 and 04 in 2026.	Landslides cleared and road opened to traffic.
	83	NH-717B – New Rolep to Barapathing	2023, 2024, 2025, 2026	01 landslide in 2023 and 2024; 02 each in 2025 and 2026.	Landslides cleared and road opened to traffic.
	84	NH-510 – Singtam-Tarku	2024, 2025, 2026	05 landslides reported annually at Km 3+800, 4+200, 7+810, 7+925 and 15+820.	Clearance of landslides undertaken. DPR work for mitigation measures taken up.
	85	NH-510 – Ravangla to Legship	2024, 2025	01 landslide reported at Km 60+400 in each year.	Landslides cleared and road opened to traffic.
	86	NH-510 – Legship to Gyalshing	2024, 2025	03 landslides reported at Km 55+400, 58+200 and 88+200 in each year.	Landslides cleared and road opened to traffic.
	87	NH-10 – STMC Rangpo-Ranipool	2023, 2024, 2025	01 landslide in 2023, 03 in 2024 and 02 landslide/sinking locations in 2025.	Clearance undertaken; mitigation works taken up at identified locations.
	88	Old NH-510 – One Time Maintenance of Existing 510	2026	02 landslides occurred at Km 5+540 and Km 6+647.	Landslides cleared and road opened to traffic.
	89	Melli–Manpur–Namchi Road, NH-710	2023, 2024, 2025	Recurrent landslides at several locations during monsoon.	Restoration completed and road opened to traffic.

State	S. No.	Stretch / Project	Year(s)	Details of Incident	Corrective Action
	90	Tarku–Damthang–Namchi Road, NH-710	2023, 2024, 2025	Recurrent landslides at several locations during monsoon.	Restoration completed and road opened to traffic.
Tripura	91	Churaibari–Agartala section, Km 397.00–422.00 (Design Km 388.650–410.439), NH-08	2024	Subsidence of formation and landslide.	Restoration completed and road opened to traffic.
Uttarakhand	92	NH-07 – Lameri-Karanprayag Section (Package-1)	2023	At Kameda, about 100 m of road from Km 384+650 to 384+750 was washed out during cloudburst. At Chitwapipal, massive debris flow damaged road from Km 393+600 to 393+650.	Restoration works completed.
	93	NH-07 – Karanprayag-Chamoli Section (Package-2)	2024, 2025	2024: Cloudburst/excessive rainfall/landslides at Nandprayag, with debris accumulation at Km 418+900 to 419+150. 2025: Heavy landslide at Umatta (Badrish).	Temporary restoration completed. DPR for permanent restoration taken up.
	94	NH-07 – Chamoli-Paini Section (Package-3)	2023	Landslides at Banerpani-1, Pagalnallah and Tangani-1 & 2; road washed out at Gadora due to flooding and debris flow.	Hill-side treatment at Banerpani completed; valley-side restoration taken up. Temporary restoration at Pagalnallah taken up. Tangani and Gadora restoration completed.
	95	NH-07 – Patalganga Landslide / Slope Protection & Tunnel Work	2024	Tunnel breached at Patalganga landslide location.	Restoration work completed.
	96	NH-58 – Nandprayag, Maithana, Birahi & Gulabkoti Landslide Treatment	2023, 2025	Recurring sinking reported at identified locations.	Temporary restoration completed. DPR for permanent restoration taken up.
	97	NH-07 – Mitigation Measures for 5 Landslides & 5 Sinking Zones (SPW-II)	2025	Heavy landslide and road washout at Banerpani-2.	Restoration work taken up.
	98	Gangotri–Uttarkashi, NH-34	2023, 2024, 2025, 2026	Landslide near Netala (Km 87) with major hill-side slope failure.	Debris cleared and permanent slope protection work taken up.
	99	Uttarkashi–Rishikesh, NH-34	2023, 2024, 2025	Landslides at Barethi, Nalupani, Bandarkot, Raturisera, Jaskot, Dhuandhar, Bagaddhar, Narendranagar and Jajal, causing slope failures, debris flow and traffic disruption.	Debris cleared; tunnel and slope protection works taken up.
	100	Rishikesh–Mana, NH-7	2023, 2024, 2025, 2026	Heavy landslides/debris at Sirobagad, Totaghati, Farasu, Teendhara, Singtoli, Lambagarh, Devprayag, Saknidhar and Hatipahad; river-induced valley-side slope instability at Hatipahad.	Debris cleared; tunnel and slope protection works taken up.

State	S. No.	Stretch / Project	Year(s)	Details of Incident	Corrective Action
	101	Jyolikot–Karnaprayag, NH-109	2022, 2023	Heavy landslide near Qwarab (Km 55) on hill and valley sides.	Debris cleared; landslide mitigation and slope protection works taken up.
	102	Herbertpur–Barkot, NH-507	2023, 2024, 2025	Heavy landslide near Bosan (Km 25) on hill and valley sides.	Debris cleared; landslide mitigation and slope protection works taken up.
	103	Tyuni–Maletha, NH-707A	2023, 2024, 2025	Heavy landslide and sinking near Jeevan Ashram (Km 138) and Mussoorie Bend (Km 136).	Debris cleared; landslide mitigation and slope protection works taken up.
	104	Kotdwar–Pauri, NH-534	2022, 2023, 2024, 2025	Heavy landslide near 5th Mile.	Debris cleared; slope protection work taken up.
	105	Dharasu Bend–Yamunotri, NH-134	2023, 2024, 2025	Heavy landslides and boulders near Dabarkot (Km 79) and Dharasu Bend (Km 0).	Debris cleared; slope protection work taken up.
	106	Rudraprayag–Gaurikund, NH-107	2023, 2024, 2025	Road washout near Kund and landslides near Medanpur, Kund Barrage, Munkutiya and Guptkashi.	Road and embankment restored; slope protection works taken up.
	107	Pithoragarh–Lipulekh, NH-9	2023, 2024, 2025, 2026	Heavy landslides near Elagad (Km 102), Tintola (Km 113) and Jumma (Km 101).	Debris cleared; slope protection taken up.
West Bengal	108	NH-717A – Package-IVA	2025	Landslide and road shrinkage affecting 0.210 km.	Restoration work taken up.
	109	NH-10 – STMC (Coronation Bridge-Rangpo) / Army Cantonment-Coronation & PBMC (Coronation-Rangpo)	2025, 2026	2025: 11 landslides at multiple locations between Km 0.900 and 45.500, affecting 1.640 km. 2026: 18 landslides at multiple locations between Km 3.7 and 51.80, affecting 3.530 km.	Restoration completed.
	110	NH-110 PBMC/STMC, Darjeeling More-Kurseong-Kurseong-Darjeeling	2025, 2026	2025: 3 landslides at Km 46.00, 53.00 and 54.00, affecting 0.100 km. 2026: 4 landslides at Km 24.850, 25.500, 38.000 and 39.900, affecting 0.190 km.	Restoration completed.
