



कार्यालय अधीक्षण अभियन्ता  
10वां वृत्त, रा0मा0 लोक निर्माण विभाग, देहरादून



Office of the Superintending Engineer, 10<sup>th</sup> NH Circle, PWD, Dehradun  
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Letter No: 1452/111 याता (15)-शुभा 10/5/2026 Dated: 16/5/2026

To

Chief Engineer  
National Highways  
PWD Uttarakhand.

Sub:- Submission of current status of compliances on 05 critical recommendations of HPC report of July 2020.

Sir,

In the meeting of HPC on 04.05.2026, the HPC members have asked to provide the compliance of HPC report 2020. Earlier the compliance of HPC report of July 2020 had been sent to the Member Secretary HPC, Secretary Forest and Environment, Government of Uttarakhand vide Letter No:- RO/UK/Chardham/HPC dated 25.09.2020 by Chief Engineer-Regional Officer, Ministry of Road Transport and Highways.


As of now the strategic roads of Chardham Road Development Project comes under the purview of Oversight committee and non-strategic roads of Chardham Road Development Project comes under purview of HPC. The Rudraprayag-Gaurikund along with construction of Kund bypass (NH 107) and Dharasu-Jankichatti NH 134 roads are under purview of HPC being non-strategic road.

Hence as per point raised in the HPC meeting of 04.05.2026 the current status of compliance report on 5 critical recommendations of report of HPC July 2020 for NH 107 and Nh 134 is prepared and being enclosed with this.

This is also required to be sent to EinC Office for uploading in Uttarakhand PWD web portal.


Attached:

- 1- Compliance report of NH 107
- 2- Compliance report of NH 134

  
(Arun Kumar Pandey)  
Superintending engineer 16/5/26

Copy to

1. Regional officer Ministry of Road transport and Highways Dehradun.
2. Executive Engineer NH PWD Badkot and Rudraprayag.

  
Superintending engineer


# Compliance status report (2026) of 05 Nos Critical recommendations of High Power Committee Final Report (July 2020) for Char Dham Pariyojna

Two roads of Chardham Road Deveopment Pariyojna namely 1- Rudraprayag-Gaurikund M/R NH-107 and 2-Dharasu-Jankichati M/R NH 134 are under purview of High Power Committee (Non stretegic Road). The compliance status report of above two roads is as under.

S.No.	HPC Recommendation	Compliance report																								
1	The immediate priority for MoRTH and the IAs is to prepare a complete list of all the vulnerable slopes and begin implementing the required protection measures in time for the monsoon which starts in June 2020. The inventory and the proposed measures must be placed in the public domain as directed by the Hon'ble Supreme Court and also provided to the HPC for monitoring purposes. The short-term slope stabilization measures should focus on maximizing road safety and smooth traffic operation. They should be aligned with the medium-term solutions.	<p>In compliance of this both the NHs namely NH 107 and 134 has been surveyed and all locations of vulnerable points has been identified. The locations wise status as on now along with photographs and measures taken for stabilization/ proposed measures has been given in <b>Annexure-I</b>. The details are being uploaded in public domain on Uttarakhand PWD web portal.</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Stretch / Section</th> <th>Nos of identified Location</th> <th>Sanctioned</th> <th>Completed</th> <th>Ongoing</th> <th>Tender Stage</th> <th>DPR Stage</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NH 107</td> <td>46</td> <td>25</td> <td>11</td> <td>10</td> <td>4</td> <td>21</td> </tr> <tr> <td>2</td> <td>NH 134</td> <td>50</td> <td>34</td> <td>7</td> <td>11</td> <td>16</td> <td>16</td> </tr> </tbody> </table>	S.No.	Stretch / Section	Nos of identified Location	Sanctioned	Completed	Ongoing	Tender Stage	DPR Stage	1	NH 107	46	25	11	10	4	21	2	NH 134	50	34	7	11	16	16
S.No.	Stretch / Section	Nos of identified Location	Sanctioned	Completed	Ongoing	Tender Stage	DPR Stage																			
1	NH 107	46	25	11	10	4	21																			
2	NH 134	50	34	7	11	16	16																			
2	MoRTH, the implementing agencies and the state/district agencies must immediately conduct a survey along all the CD Pariyojana routes to identify the hazardous MDSs and implement necessary stabilization measures before the onset of the monsoons. A copy of the inventory and the proposed measures must be placed in the public domain and provided to the HPC for monitoring purposes.	<p>In compliance of this muck dumping places of both the NHs namely NH 107 and 134 has been surveyed and toe protection of all the dumping zones has been done. Further stabilisation work will be done after completions of the project with slope stabilization works. The details of Muck dumping zones are given in <b>Annexure-2</b> The details are being uploaded in public domain on Uttarakhand PWD web portal.</p>																								











3	<p>Immediate action must be taken before the 2020 monsoons to clear all natural drains/streams blocked with dumped muck, so that the expected runoff from a particular watershed is safely disposed of to the main river system. To check scouring in these natural drains suitable structures (check dams) should be constructed at the locations of steep fall. A copy of the inventory and the proposed measures must be provided to the HPC for monitoring purposes.</p>	<p>No excavated muck has been disposed off outside the designated MDS thereby ensuring that no natural drain, stream, or river course has been obstructed. Regular inspections are being carried out before and during the monsoon season to maintain free flow of natural drainage channels and safe disposal of runoff into the main river system. During construction adequate engineering measures such as surface drains, culverts, catch-water drains, retaining walls, gabion structures works have been implemented to prevent erosion and scouring. At vulnerable landslide locations site specific protective measures are being implemented. Periodic clearance and monitoring of drainage systems and muck disposal sites are also being undertaken in compliance with HPC recommendations.</p>
4	<p>MoRTH and the IAs must list all the locations where the downhill slopes are threatened with toe-cutting by rivers and streams and the location-wise protection measures taken/proposed. This information is to be provided to the HPC at the earliest and placed in the public domain.</p>	<p>A detailed assessment of vulnerable downhill slope locations affected by toe erosion/scouring due to river action has been carried out on both the NHs. These are included in the list of vulnerable points given in compliance of point number 1. Separate details of vulnerable points due to toe erosion has been attached as Annexure 3.</p>
5	<p>It also recommended that the endangered Catamixis population identified in Chapter VII should be immediately rehabilitated with the help of the Narendranagar Forest Division, with the population intact in its rocks, in a nearby locality as the species is habitat specific.</p>	<p>NH 07 being strategic road is now outside the purview of HPC.</p>






  
**Superintending Engineer**  
 NH 10<sup>th</sup> Circle, PWD, Dehradun 16/5/28







## Annexure-1





### Details of Identified Vulnerable Landslide Points on Rudraprayag-Gaurikund NH-107






Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
1	0.180 to 0.300	30°16'56.69" N, 78°58'7.99"E,  Sinking	Gabion Wall	Work completed (Stable)	-	
2	2.130 to 2.260	30°17'15.14" N, 78°58'25.19"E, Sinking	Jute Mat, Soil nailing and River protection works	Work Completed	-	
3	4.800 to 4.950	30°18'12" N, 78°58'55"E,  Landslide	Loose scaling, netting with SDRA, shotcrete with sandwiched chainlink fabric with rock anchor, sub surface drainage, CC gravity wall, CC cladding wall, box culvert, valley side RCC cantilever wall over anchored cc cladding wall, river toe protection by articulated grouted concrete mattress	DPR has been sent for sanction		-


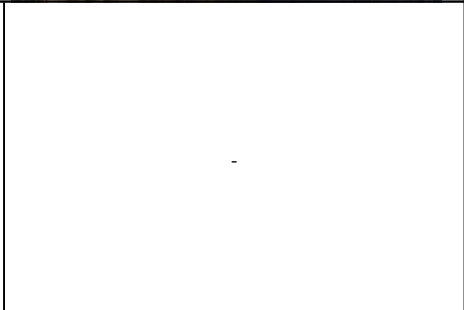



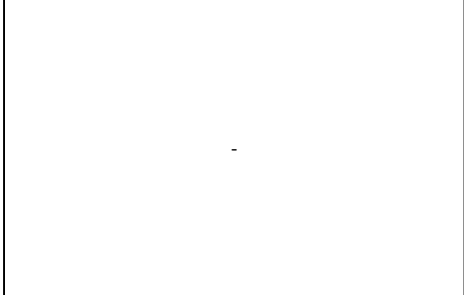


Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
4	7.590 to 7.690	30°19'06.48" N, 78°58'09.30"E Landslide	Loose scaling, soil nailing with HT mesh to prevent rock fall. Gravity wall for slope toe protection	Work completed		
5	11.447 to 11.690	30°20'44" N, 78°58'35"E Landslide	Scaling, net with DT mesh, SDRA, geo-jute mat, CC gravity wall on a raft foundation with bundled SDRA anchors and semi-perforated drainage pipes wrapped in non-woven geotextile.	Work in progress		
6	13.000 to 13.450	30°21'46.12" N, 78°58'45.84"E Landslide	Scaling, netting with SDRA, 3D net with hydroseeding, anchored CC gravity wall, valley side -anchored RCC cantilever wall Over anchored CC cladding wall, rockfall barrier, sub surface drainage semi perforated pipe wrapped with non woven geotextile	Tender Stage		-





Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
7	23.950 to 24.270	30°21'46.12" N, 78°58'45.84"E Landslide	Scaling, shotcrete (two layers) with chain link fabric, anchors, netting with SDRA, CC cladding wall, road-side drain, Gabion wall with spurs and concrete Jacketing and CC wall over anchored raft foundation.	Work in progress		
8	28.900 to 29.300	30°15'57.24" N, 79°02'36.60"E Landslide	Shotcrete, Rock Anchors, Cable Netting, Sub-surface Drainage, Stepped Channel, CC Cladding and Gravity Wall	Work in progress		
9	30.100 to 30.500	30°16'22.08" N, 79°02'36.96"E Landslide	Scaling, valley side anchored CC cladding wall, slope protection by netting with SDRA, anchored CC gravity wall and anchored CC cladding wall, sub surface drainage by PVC semi perforated pipe	Breast wall has been constructed for Immediate measures.  Full treatment work is sanctioned now at Tender Stage		




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
10	34.000 to 34.200	30°17'29.04" N, 79°03'2.52"E Landslide	Loose scaling, netting with SDRA, anchored CC cladding over raft, rockfall barrier, CC gravity wall supported on micropile, gabion wall, CC channel with box culvert and catchpit, attracting gabion spurs connecting with RCC cantilever wall, 3D net with hydro seeding	Breast wall has been constructed for Immediate measures.  DPR has been sent for sanction		
11	35.210 to 35.265	30°30'25.25"N 79° 5'8.08"E Sinking	RCC wall with raft on bundled anchor and lateral SDRA.	Work completed		
12	35.900 to 36.400	30° 30' 54" N 79° 05' 05" E Sinking	Toe- Articulated concrete block mattress & launching apron, gravity wall, RCC wall Slope- Soil nailing Sinking stretches on road- RCC slab on SDRA bars Drain channel for channelization, sub surface drainage pipe for sub surface water	Work completed		




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
13	36.800 to 37.300	30° 30' 51" N 79° 05' 03" E Sinking	Toe- Articulated concrete block mattress & launching apron, gravity wall, RCC wall Slope- Soil nailing Sinking stretches on road- RCC slab on SDRB bars Drain channel for channelization, sub surface drainage pipe for sub surface water.	Work completed		
14	38.000 to 38.300	30° 30' 45" N 79° 04' 54" E Sinking	Toe- Articulated concrete block mattress & launching apron, gravity wall, RCC wall Slope- Soil nailing Sinking stretches on road- RCC slab on SDRB bars Drain channel for channelization, sub surface drainage pipe for sub surface water.	Work completed		




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
15	39.500 to 40.000	30° 31' 27" N 79° 05' 01" E Sinking	Toe- Articulated concrete block mattress & launching apron, gravity wall, RCC wall  Slope- Soil nailing Sinking stretches on road- RCC slab on SDRA bars Drain channel for channelization, sub surface drainage pipe for sub surface water.	Work completed		
16	40.700 to 41.000	30° 31' 31" N 79° 04' 55" E Sinking	Toe- Articulated concrete block mattress & launching apron, gravity wall, RCC wall  Slope- Soil nailing Sinking stretches on road- RCC slab on SDRA bars Drain channel for channelization, sub surface drainage pipe for sub surface water.	Work completed		
17	42.490 to 42.550	30°30'29.91" N, 79°03'23.62"E Sinking	Toe protection will be done to check sinking	Sinking observed  In DPR stage		




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
18	48.940 to 49.020	30°19'9.48" N, 79°03'0.12" E Sinking	Toe protection will be done to check sinking	Sinking observed  DPR stage		
19	48.640 to 48.760	30° 31' 47.18" N 79° 05'02.41" E Sinking	Hill Side Toe Protection, RS Wall, Anchored CC walls and Toe Protection with gabion wall	Work in progress		
20	50.950 to 50.970	30° 32' 27" N 79° 04'30" E Sinking	Toe protection will be done to check sinking	Sinking /Sliding observed  DPR stage		
21	53.290 to 53.600	30° 19' 57.36" N 79° 02'17.16" E Sinking	Hill Side Stabilization, Valley Side Stability, Edge & Road Protection and Drainage & Anchoring	Work in progress		





Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
22	54.750 to 54.950	30° 19' 57.36" N 79° 02'17.16" E Landslide	Gabion wall, RCC wall for river toe protection, CC cladding on hill side, SDRA with sandwiched chainlink and double layer shortcrete, Erosion Control: Geo-Jute Matting combined with high-strength wire mesh and deep SDRA.	Work completed.		
23	54.350 to 54.580	30° 34' 39.47"N 79° 2' 52.57" E Landslide	Loose scaling, netting with SDRA, 3D net with hydro seeding, contour drain, anchored CC gravity wall, anchored CC cladding wall	Tender Stage		-
24	54.900 to 55.275	30° 34' 42.35" N 79° 2' 36.91" E Landslide	Loose Scaling, hill cutting, netting with SDRA, anchored CC cladding wall, anchored CC gravity wall, for road work anchored RCC cantilever wall over anchored CC cladding wall. Contour drain, box culvert	DPR prepared		-





Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
25	54.630 to 55.300	30° 19' 57.72" N 79° 01'59.28" E Sinking	Toe protection will be done to check sinking	Sinking observed  DPR stage		
26	55.100 to 55.300	30° 19' 53.76" N 79° 01'53.34" E Landslide	Hill Side Protection, micro-pile, SDRA, Road Level Stabilization, Valley Side Protection with CC gravity wall and RCC box culvert.	Work in progress		
27	56.050 to 56.140	30° 33' 36.11" N, 79° 03' 11.94" E Sinking	SDRA, Netting and Clading wall	Work in progress		




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
28	56.328 to 56.432	30° 33' 32.32" N, 79° 03' 18.27" E Landslide	Gabion wall for road protection, netting with SDRA, RCC road over micropile, CC wall over micropile.	Tender Stage		-
29	58.940 to 59.020	30°34'28.34"N, 79°03'23.19"E Landslide	Toe protection will be done to check sinking	Sinking observed DPR stage		-
30	63.010 to 63.040	30°21' 3.24" N 79°0'55.08" E Landslide		Landslide observed		-




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
31	64.240 to 64.340	30° 35' 01" N 79° 01' 23" E Sinking	Toe protection will be done to check sinking	Sinking observed  DPR stage		-
32	65.410 to 65.460	30°35'28.877" N 79°1'47.869" E Landslide	Rocky strata, already stabilized	Breast wall Constructed. Now slope is Stable	-	
33	65.520 to 65.560	30°35'30.23" N 79°1'46.02" E Landslide	Breast wall with gabbion constructed	Now Stable	-	

Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
34	66.300 to 66.540	30° 35' 37" N 79° 01'18" E Sinking	Toe protection will be done to check sinking	Sinking observed  DPR stage		
35	68.930 to 69.000	30° 36' 19" N 79° 01'09" E Sinking	Toe protection will be done to check sinking	Sinking observed  DPR stage		
36	69.850 to 69.980	30° 36' 42.69" N 79° 0'55.43" E Landslide	Hill side- soil nailing, with chainlink and shortcrete , CC gravity wall with raft with SDRA cluster, cladding wall with lateral SDRA. Gabion cascade for water channelisation, RCC Road on SDRA cluster Valley side- gabion matteress with geocell, hydroseeding and mulching.	Work completed		




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
37	70.540 to 70.610	30°36'50.00"N 79° 0'52.00"E Sinking	Hill side- RCC Raft with SDRA, High Tensile Steel Wire Mesh, SDRA Valley Side- Gabion wall. 200mm thick Geocell application covering. Installation of 6m deep SDRA. CC Wall with lateral SDRA. CC Cladding with lateral SDRA.	Work completed		 Latitude: 30.61500 Longitude: 79.01500 Elevation: 1643.1444 m Accuracy: 1.6 m Time: 03.01.2025 14:07 img_02
38	71.400 to 71.520	30°37'08.27"N 79° 00'34.92"E Sinking	Hill side- RCC Raft with SDRA clusters, Double-twisted mesh over Geo-Jute and Hydroseeding. Road Stability: New CC road on RCC Raft with deep SDRA Toe Protection CC wall on RCC Raft with lateral anchors for toe support. River-Side Protection. CC Retaining Wall on RCC Raft with deep clusters and lateral SDRA	Work completed		 Latitude: 30.61958 Longitude: 79.00771 Elevation: 1722.0749 m Accuracy: 1.515 m Time: 22.08.2024 17:20




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
39	71.220 to 72.380	30°38'8.52"N 79°0'3.33"E Landslide	Benching, Netting with hydroseeding, SDRA, CC gravity wall on RCC Raft on anchor clusters, Rockfall barrie, contour drain Valley Side & Toe Protection Gravity walls on RCC rafts, reinforced with deep anchor clusters. Articulating Grouted Concrete Mattress over dental concrete.	work in progress		 Latitude: 30.635732 Longitude: 79.00362 Elevation: 1722.12116 m Accuracy: 2.65 m Time: 02-08-2024 11:13 Powered by HiCam
40	70.510 to 70.540	30° 36' 49" N 79° 00' 51" E Sinking	Toe protection will be done to check sinking	Sinking observed Immediate measures adopted. For full treatment DPR is being prepared.		-
41	72.870 to 72.890	30° 37' 23" N 79° 00' 11" E Sinking	Toe protection will be done to check sinking	Sinking observed DPR stage	 Latitude: 30.623185 Longitude: 79.005272 Elevation: 1717.000000 m Accuracy: 3.8m Time: 05-10-2024 10:32 Phone: 7214916169	-




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
42	Exist Ch. 71.900 to 72.000	30° 38' 58.2"N 79° 1' 28.32"E Landslide	Slope treatment will be done.	DPR stage		-
43	Exist ch 73.360 to 73.480	30° 39' 45.5"N 79° 2' 8.14"E Landslide	Breat wall with Gabbions constructed. For remaining treatment DPR is being framed.	Site inspection done by THDC. DPR awaited.		-
44	Exist ch 73.880 to 73.960	30° 39' 52.8"N 79° 2' 14.5"E Landslide	Breat wall with Gabbions constructed. For remaining treatment DPR is being framed.	Site inspection done by THDC. DPR awaited		-




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph	
					Before	After
1	2	3	4	5	6	
45	Exist ch 74.366 to 74.471	30° 38' 58.2"N 79° 1' 28.32"E Landslide	Hill cutting, SDRA, Hydroseeding, geo jute mat, Anchored CC gravity wall over raft with micro-pile, anchored cc gravity Wall over raft after dismantling of bulged gabion wall and CC cladding	Work in progress		-
46	Exist ch 74.590 to 74.650	30° 39' 5.54" N 79° 1' 28.94" E Landslide	shotcrete sandwiched, semi perforated sub-surface drain, CC cladding wall over raft, RCC cantilever wall, articulating grouted concrete mattress and Anchored CC cladding wall over raft	Work in progress		




## Details of Identified Vulnerable Landslide Points on Dharasu – Jankichatti NH-134




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
1	0.150 to 0.310	30.62830000 78.32009167  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh, 4. Anchored RCC Toe Wall.	Work Completed	
2	5.260 – 5.480	30.64194444 78.30666667  Landslide	1. Scaling / removal of loose debris, 2. HT Wire mesh 3. Anchoring with SDRA 4. CC Channel	Bid Invited	
3	5.700 – 5.780	30.64555556 78.30666667  Landslide	1. Terracing and Benching 2. HT Wire mesh. 3. RR Drain at Toe 4. RCC Toe Wall	Bid Invited	


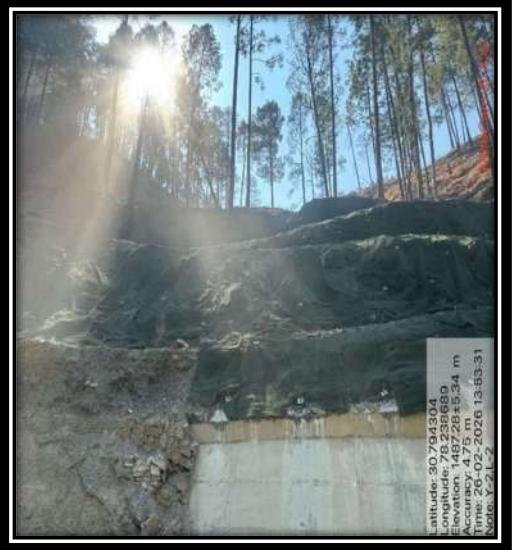

Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
4	7.000 – 7.180	30.65278556 7830215528  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh, 4. Anchored RCC Toe Wall over micropile. 5. Terracing and Benching	Bid Invited	
5	7.435 – 7.525	30.655 78.30333333  Landslide	1. Scaling / removal of loose debris, 2. HT wire mesh, 3. Anchored RCC Toe Wall over bundled anchors 4. Shotcrete	Bid Invited	
6	7.600- 7.800	30.656688 78.302363  Landslide	-	DPR Stage	





Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
7	7.940 – 8.070	30.65861111 78.30250000  Landslide	1. Terracing and Benching 2. HT Wire mesh. 3. Longitudinal Drain 4. RCC Toe Wall over micropiles	Bid Invited	
8	8.260 – 8.340	30.66111111 78.30277778  Landslide	1. Terracing and Benching 2. HT Wire mesh. 3. Anchoring with SDRA 4. RCC Toe Wall over micropiles 5. Anchored CC Cladding.	Bid Invited	
9	8.700 – 8.780	30.66361111 78.30000000  Landslide	1. Terracing and Benching 2. HT Wire mesh. 3. Gabion toe wall with CC drain 4. RCC Toe Wall over micropiles	Bid Invited	




Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
10	8.900 - 9.030	30.66715442 78.29920917  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh, 4. Anchored RCC Toe Wall.	Work In Progress	
11	9.700 – 9.770	30.67000000 78.29972222  Landslide	1. Removal and offloading of overburden 2. HT Wire mesh. 3. CC Gravity wall wall with CC drain 4. Anchored Gabion blocks and channel	Bid Invited	
12	10.850 - 11.035	30.867805333 78.29950889  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh, 4. Anchored RCC Toe Wall	Work In Progress	


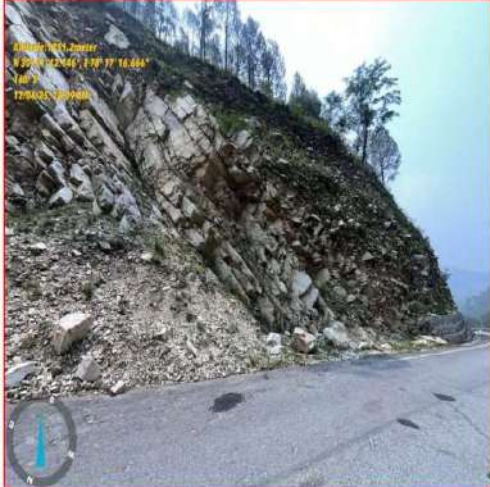

Location No.	Chainage	Latitude / Longitude / Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
13	11.820 - 11.900	30.68269-78.298552  Landslide	-	Survey stage	
14	13.100-13.280	30.691837 78.300548  Landslide		Survey stage	
15	14.890 - 14.970	30.69848194 78.23004533  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh, 4. Anchored Cladding RCC Toe Wall 5. Shotcrete	Work In Progress	

Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
16	15.220-15.280	30.700158 78.30009  Landslide		Survey stage	
17	15.450-15.530	30.69959 78.298837  Landslide		Survey stage	
18	16.900 - 17.050	30.70873389 78.32924822  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. Wire mesh, 4. Anchored RCC Toe Wall 5. Terracing and Benching 6. Geojute and Seeds	Work In Progress	





Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
19	49.395 to 49.455	30.79440414 78.23925944  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh, 4. RCC Toe Wall, 5.Hydroseeding.	Work Completed	
20	49.468 to 49.535	30.794304 78.238689  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh, 4. RCC Toe Wall, 5.Hydroseeding	Work Completed	
21	53.160 to 53.330	30.80542083 78.23854097  Landslide	RR Breast Wall	Work Completed	





Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
22	53.450 to 53.500	30.80542083 78.23854097  Landslide	RR Breast Wall	Work Completed	
23	53.670 - 53.810	30.80928831 78.22056583  Landslide	1. Offloading of Mass 2. Geojute and seeds 3. Anchored RCC Toe Wall over raft	Work In Progress	
24	56.822 – 57.161	30.8030138889 78.2221777778  Landslide	1. Terracing and Benching 2.DT Mesh and Hydroseeding. 3. CC Channel with SDRA 4. RCC Toe Wall over micropiles 5. Rockfall barrier.	Bid Invited	
25	58.850 – 58.950	30.8194805556 78.2383305556  Landslide	1. Removal and offloading of overburden 2. Gabion Channel 3. CC Drain 4. Anchored RCC Toe wall	Bid Invited	






Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
26	62.150 - 62.350	30.84613056 78.27745278 Landslide	1. Scaling of loose rock mass. 2. Application of HT wire mesh. 3. Anchoring with SDRA 4. Anchored CC Channel. 5. Anchored CC Gravity Tow wall	Work Completed	
27	63.815 – 63.840	30.8241861111 78.2490694444 Landslide	1. Removal of rock mass and debris. 2. HT rolled cable net with anchors. 3. CC gravity wall over RCC raft. 4. CC wall for toe support. CC channel	Bid Invited	
28	64.820 - 64.900	30.86014167 78.28715833 Landslide	1. Scaling of loose rock mass. 2. Application of HT wire mesh. 3. Anchoring with SDRA	Work Completed	



Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
29	65.250-65.380	30.86014167 78.28715833 Landslide	1. Scaling of loose rock mass. 2. Application of HT wire mesh. 3. Anchoring with SDRA 4. Shotcrete	Work Completed	
30	65.510 – 65.700	30.8855694444 78.3086527778 Landslide	1. Scaling/removal of loose boulders. 2. HT rolled cable net with DT mesh and anchors. 3. Anchored CC gravity wall. 4. Anchored CC cladding. 5. Shotcrete work with anchors.	Bid Invited	
31	65.890 - 65.920	30.85964686 78.2873015 Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh, 4. Anchored Cladding RCC Toe Wall. 5. Shotcrete	Work In Progress	

Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
32	66.140 - 66.210	30.86245697 78.29422147  Landslide	1. Scaling / removal of loose debris, 2. Geojute and seeds 3. HT Wire mesh 4. . Anchoring with SDRA, 5. Rockfall barrier	Work In Progress	
33	66.860 to 67.020	30.86809542 78.29804100  Landslide	1. Scaling / removal of loose debris, 2. Anchoring with SDRA, 3. HT wire mesh,	Work Completed	
34	68.005- 68.760	30.87708611 78.306075  Landslide	1. Terracing and Benching. 2. HT wire mesh 3. Anchoring with SDRA 4. CC Cut Drain 5. RCC Anchored Toe wall.	Bid Invited	
35	68.760 – 68.835	30.8551138889 78.2866944444  Landslide	1. Removal of debris. 2. Anchored CC cladding work. 3. Anchored stepped RCC wall over micropiles. 4. RCC road over friction micropiles.	Bid Invited	

Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
36	69.085 – 69.345	30.87708611 78.306075  Landslide	1. Terracing and Benching. 2. HT wire mesh 3. Anchoring with SDRA 4. CC Cut Drain 5. RCC Anchored Toe wall.	Work Completed	
37	70.458 – 70.558	30.8875611111 78.309175  Landslide	1. Removal of overburden and debris. 2. Provision of CC gravity wall over bundled SDRA. 3. Strengthening of existing CC wall with SDRA.	Bid Invited	
38	71.185 – 71.260	30.8619138889 78.2883416667  Landslide	1. Strengthening of existing CC cladding. 2. HT rolled cable net with SDRA. 3. Provision of CC gravity wall over micropiles. 4. Semi-perforated drainage pipe system.	Bid Invited	
39	73.700 – 73.900	30.89838004 78.32622733	-	DPR Stage	

Location No.	Chainage	Latitude / Longitude/ Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
40	79.850 - 80.300	30.90592778 78.34515556  Landslide	1. Scaling of loose rock mass 2. Threaded rock anchored 3. Anchoring with SDRA 4. HT wire mesh 5. Rockfall barrier.	Work in progress	
41	84.550 - 84.750	30.92270362 78.38421862	-	DPR Stage	
42	85.200 – 85.800	30.92783544 78.39278296	-	DPR Stage	
43	86.400 – 86.600	30.92921256 78.39686624	-	DPR Stage	

Location No.	Chainage	Latitude / Longitude / Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
44	88.100 – 88.600	30.94054784 78.40490138	-	DPR Stage	
45	88.700 – 89.000	30.9381322 78.4018192	-	DPR Stage	
46	89.900 – 90.000	30.95008333 78.41329167  Sinking	-	DPR Stage	
47	91.500 – 91.600	30.95814666 78.42041722	-	DPR Stage	
48	91.800 – 92.000	30.9543997 78.417458	-	DPR Stage	

Location No.	Chainage	Latitude / Longitude / Type of Vulnerability	Proposed / Adopted Treatment Measures	Current Status	Photograph
1	2	3	4	5	6
49	92.300 – 92.600	30.95990635 78.42587173	-	DPR Stage	
50	93.550 – 93.750	30.96416313 78.43065452	-	DPR Stage	

# **Dumping Zone Details with Photographs**

**NH-107**

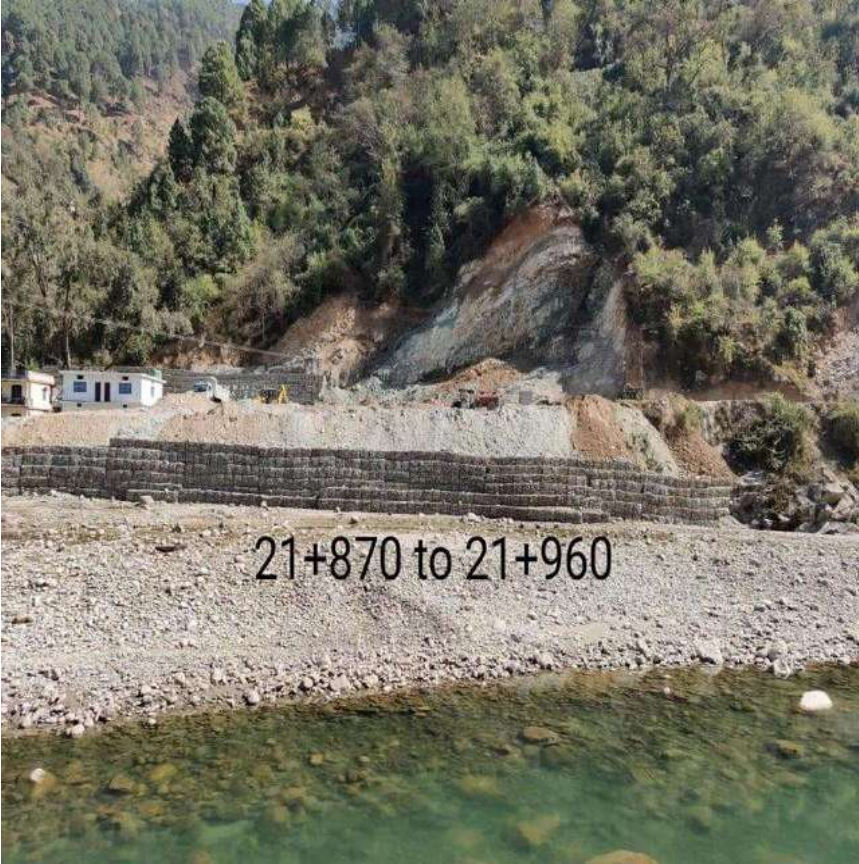
**(Including Kund Bypass)**

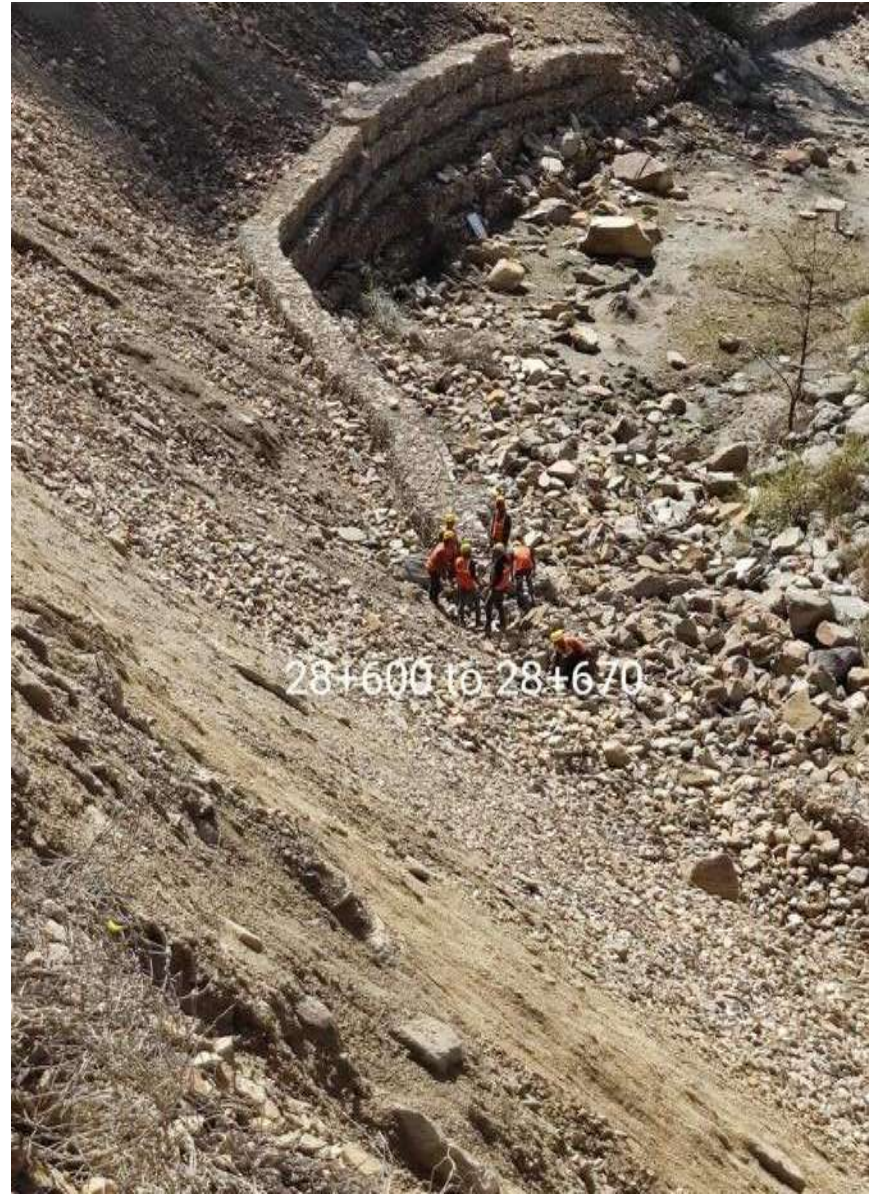
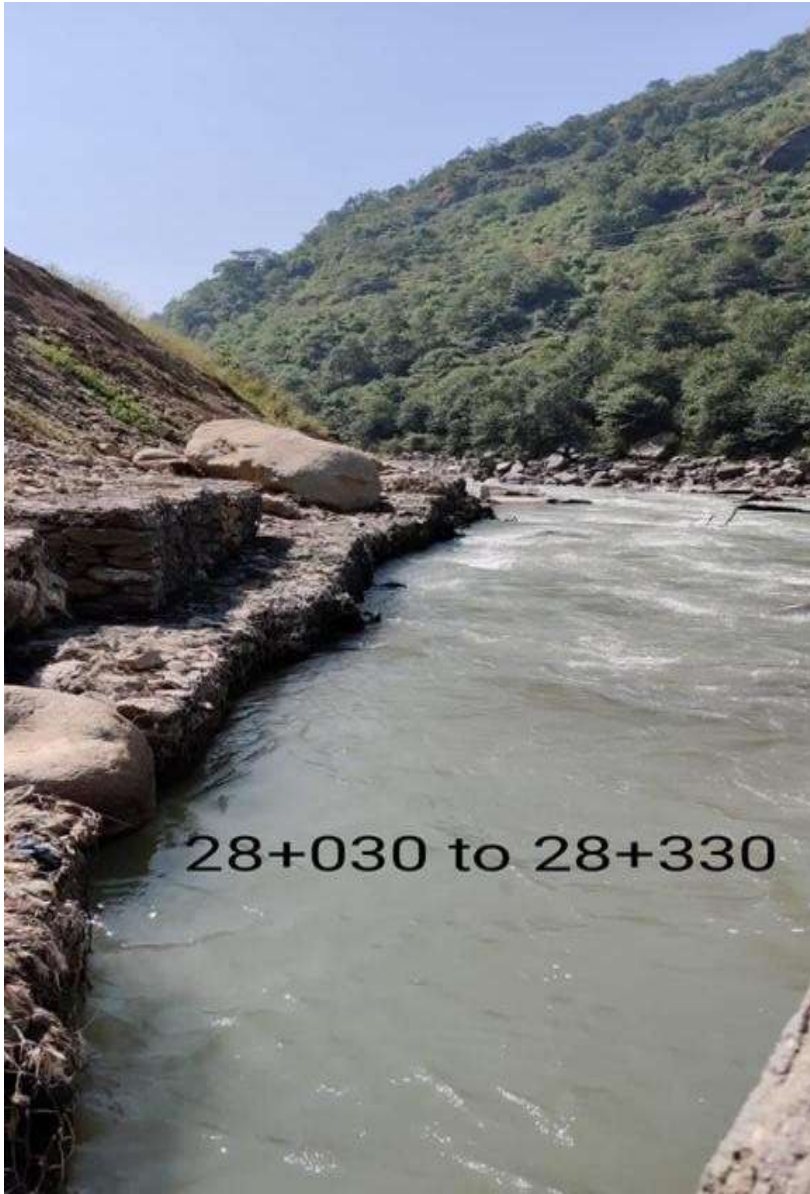
**Annexure-II**  
**List of Approved Muck Dumping Sites (MDS) on NH107 under CharDham Pariyojna**

S.No.	Stretch/ Section	Project Name	Details of Dumping zone		Description of Proposed Protective Measures at MDS's
			Location (Chainage)	Capacity(In HA)	
1	Rudraprayag to Gaurikund (Km 0 to 76)	Widening and strengthening of existing intermediate/2 lane to 2 lane with paved shoulder configuration from Km 0.000 (Design km 0.000) to Km 16.440 (Design Km 18.700) including existing 3.470 km of Rudraprayag Bypass of NH-109 in the State of Uttarakhand on EPC mode	Km1	0.8842	Not used
2			Km18.700		Toe protection work with gabion wall is completed. Upon reaching full capacity MDS's will be properly leveled and stabilized.
3		Reconstruction with geometric improvement of existing single/intermediate lane to 2 lane with earthen shoulder configuration from Existing Km 16.545 to Km 33.130 & Km 41.260 to Km 57.975 (design chainage 18.700 to Km 35.130 & km 47.700 to Km 63.700) of NH-109 (New NH-107) in the State of Uttarakhand on EPC Mode under improvement to NH Connectivity	32.200 to 32.260	0.240	Not used
4			32.26 to 32.400	0.560	
5			48.750 to 48.900	0.750	
6			48.900 to 49.050	0.750	
7			52.22 0to 52.250	0.150	
8			52.250 to52.270	0.100	
9			52.270 to 52.400	0.650	
10		Construction of 2 lane with paved shoulder of Kund Bypass from Design Km 35.130 to Km 47.700 (existing Km 33.130 to Km 41.260) of NH-109 in the State of Uttarakhand	44.165 to44.215	1.000	Muck Dumping in progress and simultaneously toe protection is being done with gabion wall. The muck dumping zones have achieved stability over time, while the development of indigenous vegetation cover has further enhanced stability through erosion control and soil reinforcement.
11			44.215 to44.375		
12		Widening and strengthening of existing single/2 lane to 2 lane with earthen shoulder configuration from Design Km 63.700 to Km 73.600 (Km 57.975 to Km 68.600) on NH-109 in the State of Uttarakhand on EPC mode	67.600 to 67.700	0.600	

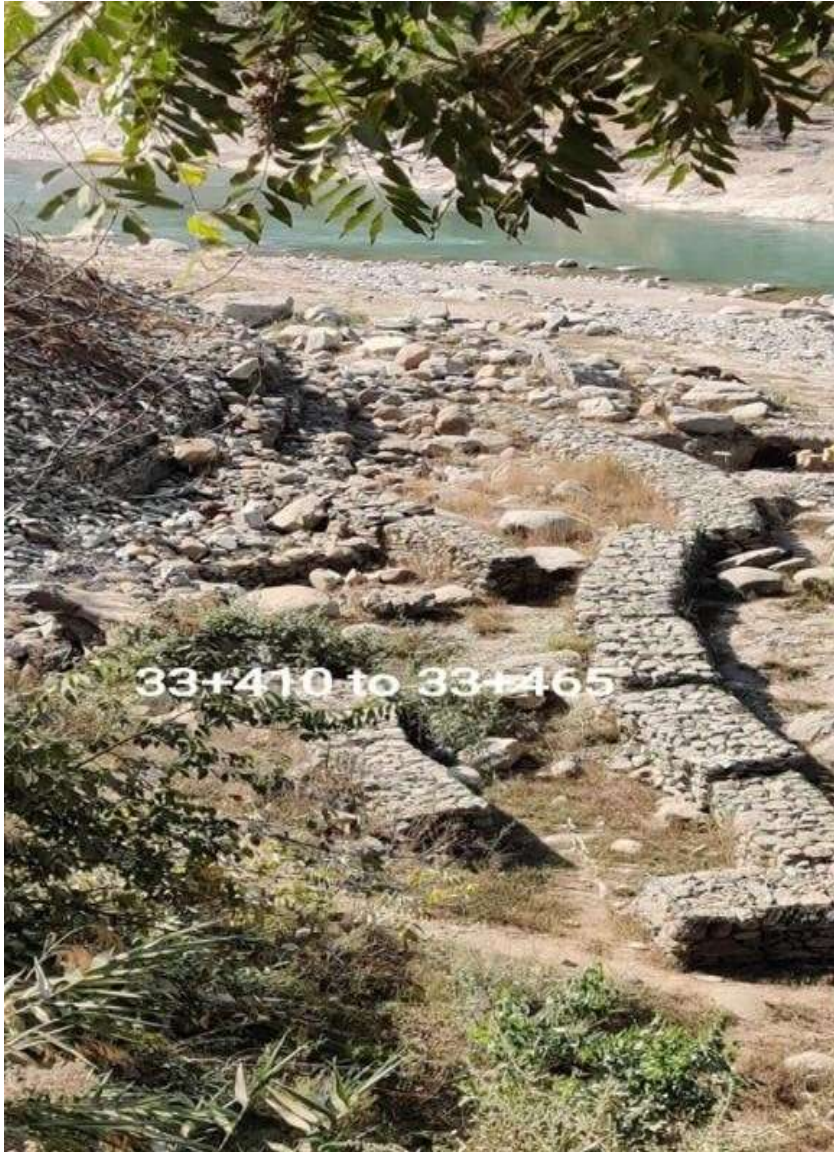
**Annexure-II**  
**List of Approved Muck Dumping Sites by District Magistrate, Rudraprayag for NH-107**

S.No.	Stretch/ Section	Project Name	Details of Dumping zone	Description of Proposed Protective Measures at MDS's
			Location(Chainage)	
13	Rudraprayag to Gaurikund (Km 0 to 76)	Reconstruction with geometric improvement of existing single/intermediate lane to 2 lane with earthen shoulder configuration from Existing Km 16.545 to Km 33.130 & Km 41.260 to Km 57.975 (design chainage 18.700 to Km 35.130 & km 47.700 to Km 63.700) of NH-109 (New NH-107) in the State of Uttarakhand on EPC Mode under improvement to NH Connectivity	21.870to21.960	Toe protection work with gabion wall is completed.
14			23.650	Toe protection work with gabion wall is completed. The muck dumping zones have achieved stability over time while the development of indigenous vegetation cover has further enhanced stability through erosion control and soil reinforcement.
15			25.960to26.010	Toe protection work with gabion wall is completed.
16			28.030to28.330	
17			28.600to28.670	
18			29.850to30.450	Toe protection work with gabion wall is completed. The muck dumping zones have achieved stability over time while the development of indigenous vegetation cover has further enhanced stability through erosion control and soil reinforcement.
19			33.410to33.465	Toe protection work with gabion wall is completed.
20			55.220to55.330	Toe protection work with gabion wall is completed. The muck dumping zones have achieved stability over time, while the development of indigenous vegetation cover has further enhanced stability through erosion control and soil reinforcement.
21			56.850to56.950	Toe protection work with gabion wall is completed.









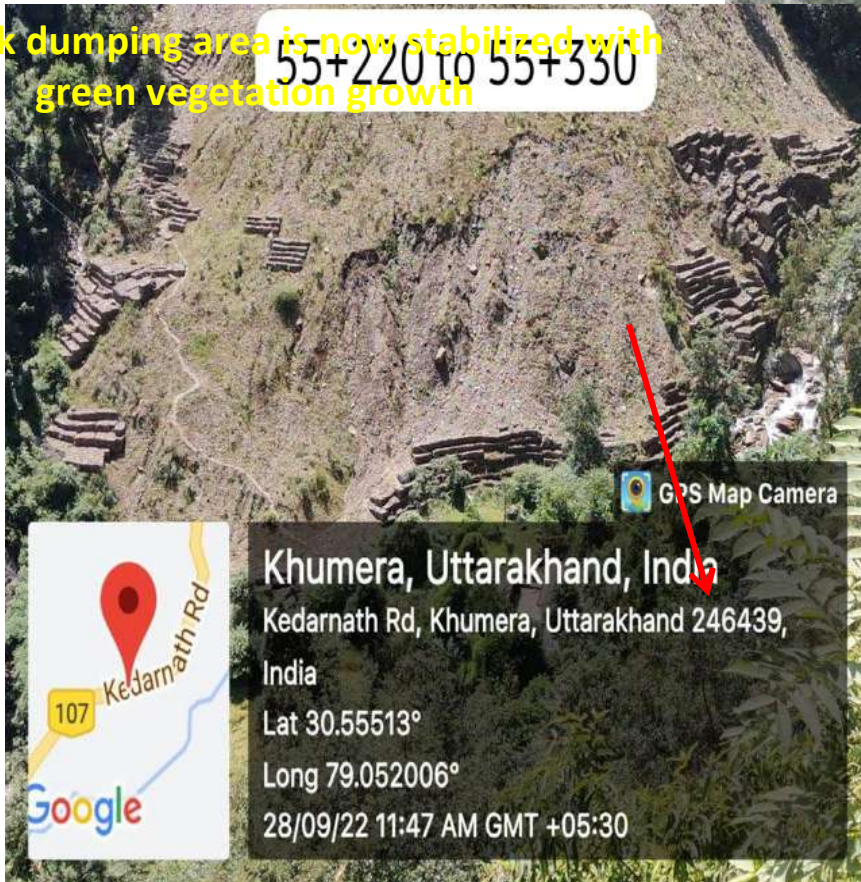
**KM 44 NH 107**

The muck dumping area is now stabilized with green vegetation growth

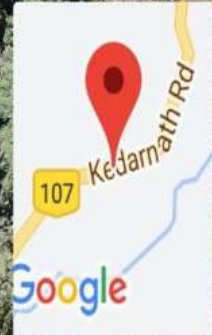


The muck dumping area is now stabilized with green vegetation growth

55+220 to 55+330



GPS Map Camera



Khumera, Uttarakhand, India  
Kedarnath Rd, Khumera, Uttarakhand 246439,  
India  
Lat 30.55513°  
Long 79.052006°  
28/09/22 11:47 AM GMT +05:30

56+850 to 56+950



**The muck dumping area is now  
stabilized with green vegetation growth**

**Muck Dumping Ch. 67.600**

Latitude: 30.602187  
Longitude: 79.022244  
Elevation: 1672.71m  
Accuracy: 3.8m  
Time: 05-16-2026 12:33  
Note: Badasu dumping 67+600



# **Dumping Zone Details with Photographs**

**NH-134**

**(Dharasu – Jankichatti)**

**Annexure-II**  
**List of Approved Muck Dumping Sites (MDS) on NH 134 under Char Dham Pariyojna**

S.No.	Stretch / Section	Details of Dumping zone			Description of Proposed Protective Measures at MDS's
		Location (Chainage)	Longitude	Latitude	
1	Dharasu Bend to Silkyara Bend (Km 0.00 to 24.30)	1+100	30°37.24'	78°19.525'	Toe protection work with gabion wall is completed. Upon reaching full capacity MDS's will be properly levelled and stabilised.
2		2+800	30°37'29.3"	78°19'37.6"	
3		3+300	30°37.712'	78°18.891'	
4		5+300	30°38.566'	78°18.401'	
5		5+900	30°38'.49.96"	78°18'26.04'''	
6		7+550	30° 39' 18.69"	78° 18' 14.64"	
7		10+300	30°40.551'	78°18.040'	
8		13+150	30° 41' 30.2"	78° 18' 01.2"	
9		13+900	30° 41' 37.34"	78° 18' 7.01"	
10		20+300	30°43.885'	78°16.818'	
11		22+370	30° 44' 29.72"	78° 16' 9.31"	
12		22+900	30°45.047'	78°15'26.04"	
1	Paulgaon to Paligad (Km 49.300 to 71.380)	49+350	30°37.712'	78°18.891'	Toe protection work with gabion wall is completed. Upon reaching full capacity MDS's will be properly levelled and stabilised.
2		50+500	30°37.24'	78°19.525'	
3		56+300	30°38.566"	78°18.401'	
4		63+850	30°40.551"	78°18.040'	
5		66+300	30°43.885"	78°16.818'	
6		69+620	30°45.047"	78°15.931'	
1	Paligad to Janki chatti	72+850	30°53'44.29"	78°19'24.20"	

<b>2</b>		78+150	30°54'20.04"	78°20'55.37"	Muck Dumping in progress and simultaneously toe protection is being done with gabion wall.
<b>3</b>		83+500	30°55'10.43"	78°22'32.99"	
<b>4</b>		85+400	30°55'10.22"	78°23'22.72"	
<b>5</b>		90+150	30°57'15.05"	78°24'53.31"	

**Ch. 49.350**



**Ch. 56.300**



**Ch. 63.850**



**Ch. 66.300**



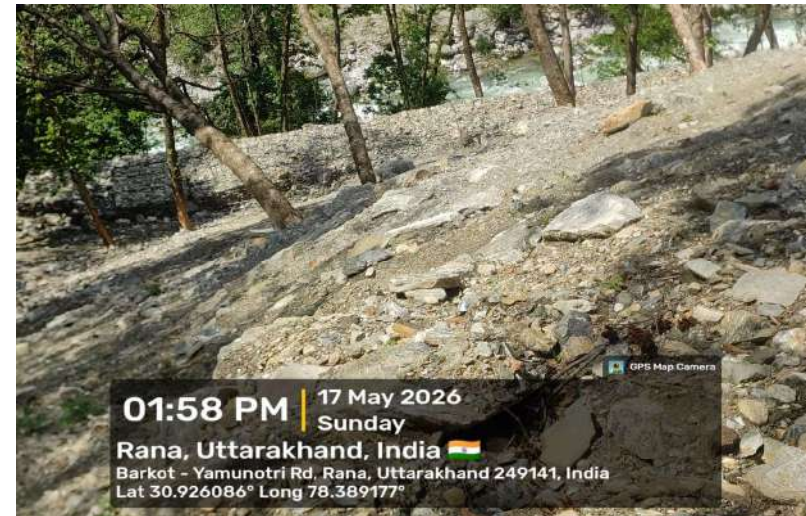
**Ch. 69.620**








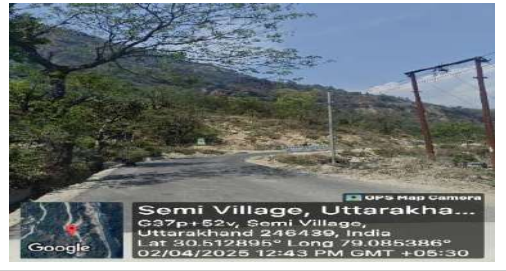


**Ch. 83.500**









**Ch. 85.500**



**Annexure-III**  
**Detail of Vulnerable Downhill Slope Locations Affected by Toe Erosion/Scouring due to River on NH-107**

S.No.	Stretch / Section	Details of Vulnerable Downhill Slope							Photographs	
		Location (Chainage)			Length (m)	Longitude	Latitude	Remark	Before	After
		Location Name	From	To						
1	Rudraprayag to Gaurikund Section NH-107	Kund Barrage	35.210	35.265	0.055	30°30'25.25"N	79° 5'8.08"E	Slope Stabilization work has been completed in all locations.		
2		Semi I	35.900	36.400	0.500	30° 30' 54" N	79° 05' 05" E			
3		Semi II	36.800	37.300	0.500	30° 30' 51" N	79° 05' 03" E			
4		Semi III	38.000	38.300	0.300	30° 30' 45" N	79° 04' 54" E			

5	Rudraprayag to Gaurikund Section NH-107	Bhainsari I	39.500	40.000	0.500	30° 31' 27" N	79° 05' 01" E	Slope Stabilization work has been completed in all locations.		
6		Bhainsari II	40.700	41.000	0.300	30° 31' 31" N	79° 04' 55" E			
7		Rampur	71.400	71.520	0.120	30°37'08.27"N	79° 00'34.92"E			

**Executive Engineer**  
**NH Division, Rudraprayag**

**Annexure-III NH 134**

**Detail of Vulnerable Downhill Slope Locations Affected by Toe Erosion/Scouring due to River**

S.No.	Stretch / Section	Details of Vulnerable Downhill Slope						
		Location (Chainage)			Length (m)	Longitude	Latitude	Remark
		Location Name	From	To				
1	Paligad to Jankichatti (Km 71.380 to 95.606)	Silai Bend	73300	74450	1150	30°53'47.61"N	78°19'23.49"E	For preparation of suitable stabilization and protection measures, THDC India Limited has been engaged for detailed investigation and DPR preparation. Topographical survey work has been completed, while detailed geological, geotechnical, and slope stability investigations are presently under progress.
2		Jhajargad	84550	84750	200	30°55'21.56"N	78°23'3.17"E	
3		Badiya-I	85200	85800	600	30°55'38.95"N	78°23'29.33"E	
4		Badiya-II	86400	86600	200	30°55'44.97"N	78°23'48.42"E	
5		Junglechatti-I	88100	88600	500	30°56'24.04"N	78°24'18.90"E	
6		Junglechatti-II	88600	89200	600	30°56'32.02"N	78°24'23.23"E	
7		Banas	89900	90000	100	30°56'0.12"N	78°24'48.04"E	
8		Phoolchatti	92300	92750	450	30°57'33.71"N	78°25'31.34"E	
9		Krishnachatti	93400	93750	350	30°57'50.98"N	78°25'50.25"E	