

REVISED MUCK DISPOSAL PLAN

In compliance of REC observations during the site visit on 21st to 23rd Nov, 2016, the muck disposal plan has been revised. The "Revised Muck Disposal Plan" is as under.

Total quantity of muck to be generated from tunnels is approx. 11,758,880 cum including a swell factor of 10%. **Table-1** gives the details of muck to be generated from tunnels. The generated muck, 11,758,880 cum is proposed to be disposed off in total 30 sites. **Table-2** gives details of 30 dumping sites and their capacities. Out of which 52,61,010 cum muck will be used for filling in embankment of the alignment, station areas and bridge approaches in 15 sites which are within the right of way (ROW) of the proposed Railway line (**Table-3**). Balance 64,97,870 cum will be dumped in 16 muck dumping sites exclusively identified for muck dumping purpose (**Table-4**).

The muck disposal area would be developed in a series of terraces with retaining and gabion walls. In between the terraces, catch water drains will also be provided. The terraces of the muck disposal area will be ultimately covered with fertile soil and suitable plants (native) would be planted adopting suitable bio-engineering measures. In addition drainage and land levelling measures shall also be undertaken as applicable.

Maps of muck disposal areas super imposed on satellite imageries are enclosed.


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रेल विकास निगम लि०
अधिकार (30/10)

Table-1:- Quantity of muck to be generated

Code	Chainage		Length (m)	Total (Cum)	Remarks
Tunnel-1	Start	6.800	10850.00	1215200.00	
	End	17.650			
Tunnel-2	Start	18.670	6470.00	724640.00	
	End	25.140			
Tunnel-3	Start	25.860	6720.00	752640.00	
	End	32.580			
Tunnel-4	Start	33.240	2200.00	246400.00	
	End	35.440			
Tunnel-5	Start	35.620	9760.00	1093120.00	
	End	45.380			
Tunnel-6	Start	45.640	220.00	24640.00	
	End	45.860			
Tunnel-7	Start	45.950	1230.00	137760.00	
	End	47.180			
Tunnel-8	Start	47.600	15100.00	1691200.00	
	End	62.700			
Tunnel-9	Start	63.600	2800.00	313600.00	
	End	66.400			
Tunnel-10	Start	67.260	4120.00	461440.00	
	End	71.380			
Tunnel-11	Start	73.800	9000.00	1008000.00	
	End	82.800			
Tunnel-12	Start	83.940	7080.00	792960.00	
	End	91.020			
Tunnel-13	Start	91.220	9420.00	1055040.00	
	End	100.640			
Tunnel-14	Start	101.420	6460.00	723520.00	
	End	107.880			
Tunnel-15	Start	108.640	7160.00	801920.00	
	End	115.800			
Tunnel-16	Start	117.420	6400.00	716800.00	
	End	123.820			
Total			104990.00	11,758,880.00	


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Table-2:-Revised Muck Disposal Plan.

S. No.	Code	Location	Chainage	Capacity (Cum)	Type of land	Use of muck	Remarks
1	D-1	Rishikesh station	4+800	577,600.00	RF	Filling in Station area	
2	D-2	Chandrabaga bridge	6+300	30,000.00	RF	Filling in Alignment	
3	D-3	Shivpuri station	18+300	469,920.00	Govt., Pvt. & RF	Filling in Station area	
4	D-4	Shivpuri Dumping yard	-	500,000.00	RF	Muck Dumping	
5	D-5	Gullar bridge	25+500	738,640.00	RF	Filling in Alignment	
6	D-6	Byasi-1 (Malakunti) Dumping yard	-	184,345.00	RF	Muck Dumping	Reassessed and Qty enhanced as per potential capacity.
7	D-7	Byasi-2 (Malakunti) Dumping yard	-	82,000.00	RF	Muck Dumping	Reassessed and Qty enhanced as per potential capacity.
8	D-7A	Byasi-3 Dumping yard	32+800	162,000.00	RF	Muck Dumping	New site.
9	D-11	Kaudiyala-1 (Nr. alignment bridge) Dumping yard	35+500	565,935.00	RF	Muck Dumping	Reassessed and Qty enhanced as per potential capacity.
10	D-12	Kaudiyala-2 Dumping yard	-	175,000.00	Govt.	Muck Dumping	Reassessed and qty reduced.
11	D-13	Bharpur Dumping yard	-	273,280.00	Govt. & Pvt.	Muck Dumping	Reassessed and qty reduced.
12	D-13A	Toll Village	45+300	273,280.00	Pvt.	Filling in Alignment	Available land within ROW at Toll village will now be used for filling as a part of alignment.
13	D-14	Podi bridge	45+950	81,200.00	Govt.	Filling in Alignment	Reassessed and qty reduced.
14	D-15	Devprayag station	47+300	341,200.00	Govt. & Pvt.	Filling in Station area	Reassessed and qty enhanced as per the design.
15	D-16	Chilgarh TallaMalla Dumping yard. (Adj to power house)	62+200	650,000.00	Govt. & Pvt.	Muck Dumping	
16	D-17	Janasu Dumping yard	62+700	868,080.00	Govt. & Pvt.	Muck Dumping	Reassessed and Qty enhanced as per potential capacity.
17	D-18	Lachmoli	63+500	156,800.00	Govt. & Pvt.	Filling in Alignment	
18	D-19	Maletha station	67+000	40,000.00	Govt. & Pvt.	Filling in Station area	
19	D-20	Maletha-2 Dumping yard	67+600	260,640.00	Govt. & Pvt.	Muck Dumping	Reassessed and qty reduced.
20	D-21	Srinagar station	72+000	734,720.00	Govt. & Pvt.	Filling in Station area	
21	D-23	Dhari station	83+400	677,730.00	Govt. & Pvt.	Filling in Station area	
22	D-24	Dhari Dumping yard	84+000	222,750.00	Govt. & Pvt.	Muck Dumping	
23	D-25	Khankra Dumping yard	88+400	572,000.00	Govt. & Pvt.	Muck Dumping	
24	D-27	Narkota Dumping yard	91+100	352,000.00	Govt. & Pvt.	Muck Dumping	
25	D-28	Tilani Dumping yard	100+400	769,280.00	Govt. & Pvt.	Muck Dumping	
26	D-29	Tilani (Rudraprayag) station	101+000	120,000.00	Govt. & Pvt.	Filling in Station area	
27	D-32	Gholtir station	108+000	120,000.00	Govt. & Pvt.	Filling in Station area	
28	D-33	Gholtir (Kothgi) Dumping yard	109+500	642,720.00	Govt. & Pvt.	Muck Dumping	
29	D-34	Gauchar station	116+500	759,360.00	Govt. & Pvt.	Filling in Station area	Filling as a part of alignment.
30	D-35	Sivai (Karnaprayag) station	124+500	358,400.00	Govt. & Pvt.	Filling in Station area	
Total				11,758,880.00			


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 नवीकोट (उ०प्र०)

Table-3:- Quantity of muck proposed to be used in filling

S. No.	Code	Location	Chainage	Capacity (Cum)	Type of land	Use of muck	Remarks
1	D-1	Rishikesh station	4+800	577,600.00	RF	Filling in Station area	
2	D-2	Chandrabaga bridge	6+300	30,000.00	RF	Filling in Alignment	
3	D-3	Shivpuri station	18+300	469,920.00	Govt., Pvt. & RF	Filling in Station area	
4	D-5	Gullar bridge	25+500	738,640.00	RF	Filling in Alignment	
5	D-13A	Toll Village	45+300	273,280.00	Pvt.	Filling in Alignment	Available land within ROW at Toll village will now be used for filling as a part of alignment.
6	D-14	Podi bridge	45+950	81,200.00	Govt.	Filling in Alignment	Reassessed and qty reduced.
7	D-15	Devprayag station	47+300	341,200.00	Govt. & Pvt.	Filling in Station area	Reassessed and qty enhanced as per the deisign.
8	D-18	Lachmoli	63+500	156,800.00	Govt. & Pvt.	Filling in Alignment	
9	D-19	Maletha station	67+000	40,000.00	Govt. & Pvt.	Filling in Station area	
10	D-21	Srinagar station	72+000	734,720.00	Govt. & Pvt.	Filling in Station area	
11	D-23	Dhari station	83+400	677,730.00	Govt. & Pvt.	Filling in Station area	
12	D-29	Tilani (Rudraprayag) station	101+000	120,000.00	Govt. & Pvt.	Filling in Station area	
13	D-32	Gholtir station	108+000	120,000.00	Govt. & Pvt.	Filling in Station area	
14	D-34	Gauchar station	116+500	759,360.00	Govt. & Pvt.	Filling in Station area	Filling as a part of alignment.
15	D-35	Sivai (Karnaprayag) station	124+500	358,400.00	Govt. & Pvt.	Filling in Station area	
Total				5,478,850.00			

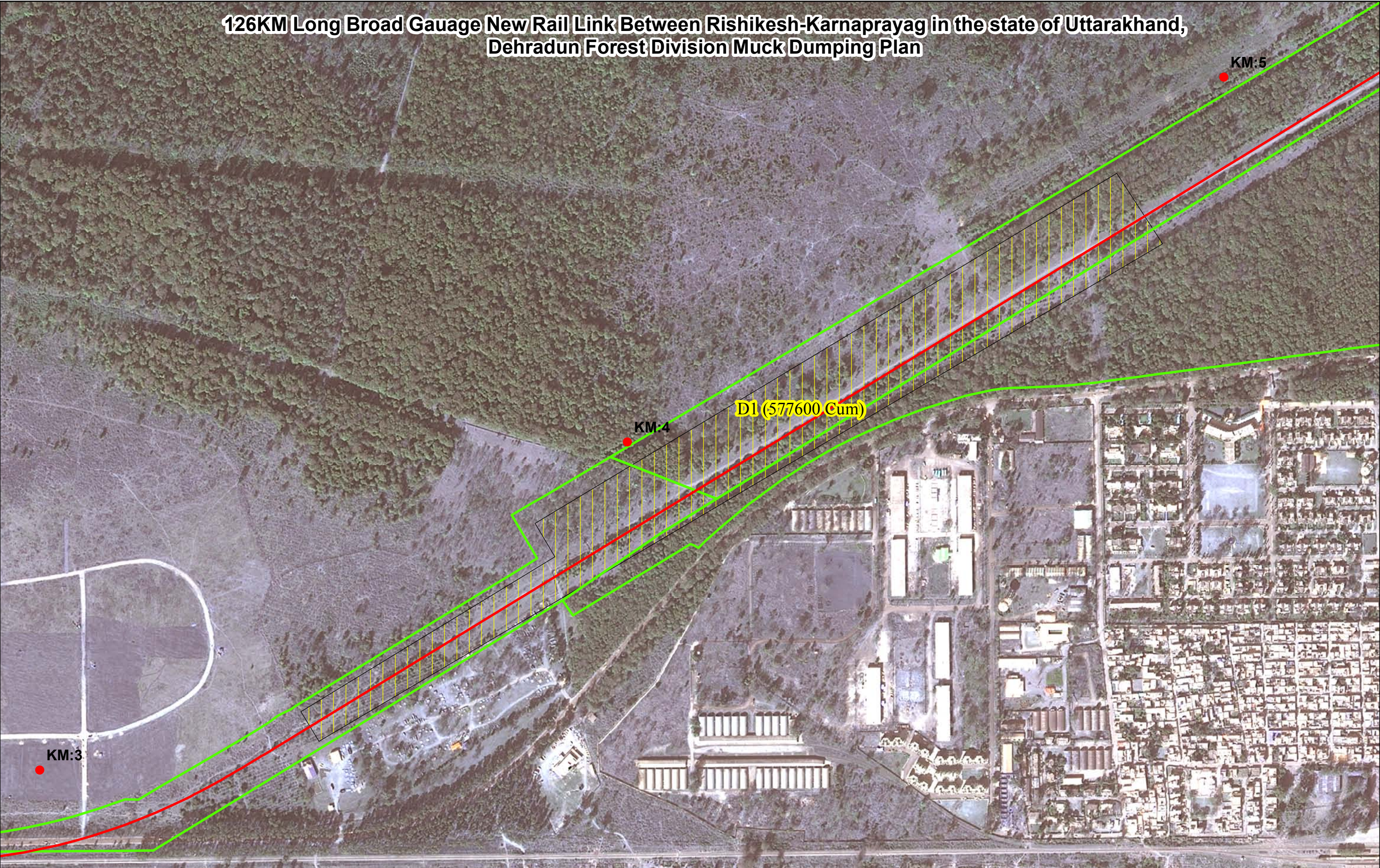

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 ऋषिकेश (उ०प्र०)

Table-4:- Quantity of muck proposed to be dumped in dumping sites.

S. No.	Code	Location	Chainage	Capacity (Cum)	Type of land	Use of muck	Remarks
1	D-4	Shivpuri Dumping yard	-	500,000.00	RF	Muck Dumping	
2	D-6	Byasi-1 (Malakunti) Dumping yard	-	184,345.00	RF	Muck Dumping	Reassessed and Qty enhanced as per potential capacity.
3	D-7	Byasi-2 (Malakunti) Dumping yard	-	82,000.00	RF	Muck Dumping	Reassessed and Qty enhanced as per potential capacity.
4	D-7A	Byasi-3 Dumping yard	32+800	162,000.00	RF	Muck Dumping	New site.
5	D-11	Kaudiyala-1 (Nr. alignment bridge) Dumping yard	35+500	565,935.00	RF	Muck Dumping	Reassessed and Qty enhanced as per potential capacity.
6	D-12	Kaudiyala-2 Dumping yard	-	175,000.00	Govt.	Muck Dumping	Reassessed and qty reduced.
7	D-13	Bharpur Dumping yard	-	273,280.00	Govt. & Pvt.	Muck Dumping	Reassessed and qty reduced.
8	D-16	Chilgarh TallaMalla Dumping yard. (Adj to power house)	62+200	650,000.00	Govt. & Pvt.	Muck Dumping	
9	D-17	Janasu Dumping yard	62+700	868,080.00	Govt. & Pvt.	Muck Dumping	Reassessed and Qty enhanced as per potential capacity.
10	D-20	Maletha-2 Dumping yard	67+600	260,640.00	Govt. & Pvt.	Muck Dumping	Reassessed and qty reduced.
11	D-24	Dhari Dumping yard	84+000	222,750.00	Govt. & Pvt.	Muck Dumping	
12	D-25	Khankra Dumping yard	88+400	572,000.00	Govt. & Pvt.	Muck Dumping	
13	D-27	Narkota Dumping yard	91+100	352,000.00	Govt. & Pvt.	Muck Dumping	
14	D-28	Tilani Dumping yard	100+400	769,280.00	Govt. & Pvt.	Muck Dumping	
15	D-33	Gholtir (Kothgi) Dumping yard	109+500	642,720.00	Govt. & Pvt.	Muck Dumping	
Total				6,280,030.00			

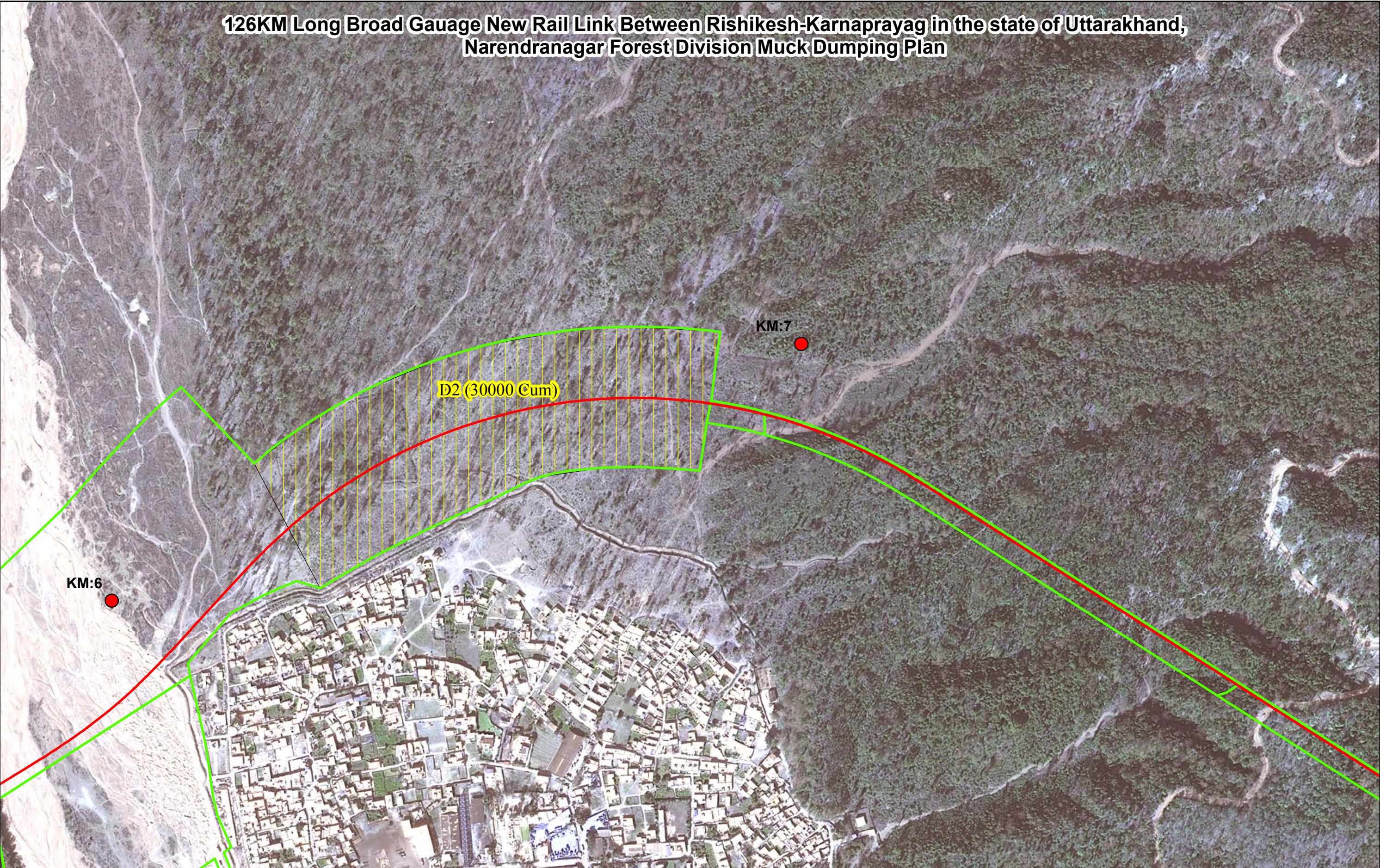

मुख्य परियोजना प्रबंधक
रेल विकास निगम लि०
अधिकारी (अ०००)

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Dehradun Forest Division Muck Dumping Plan



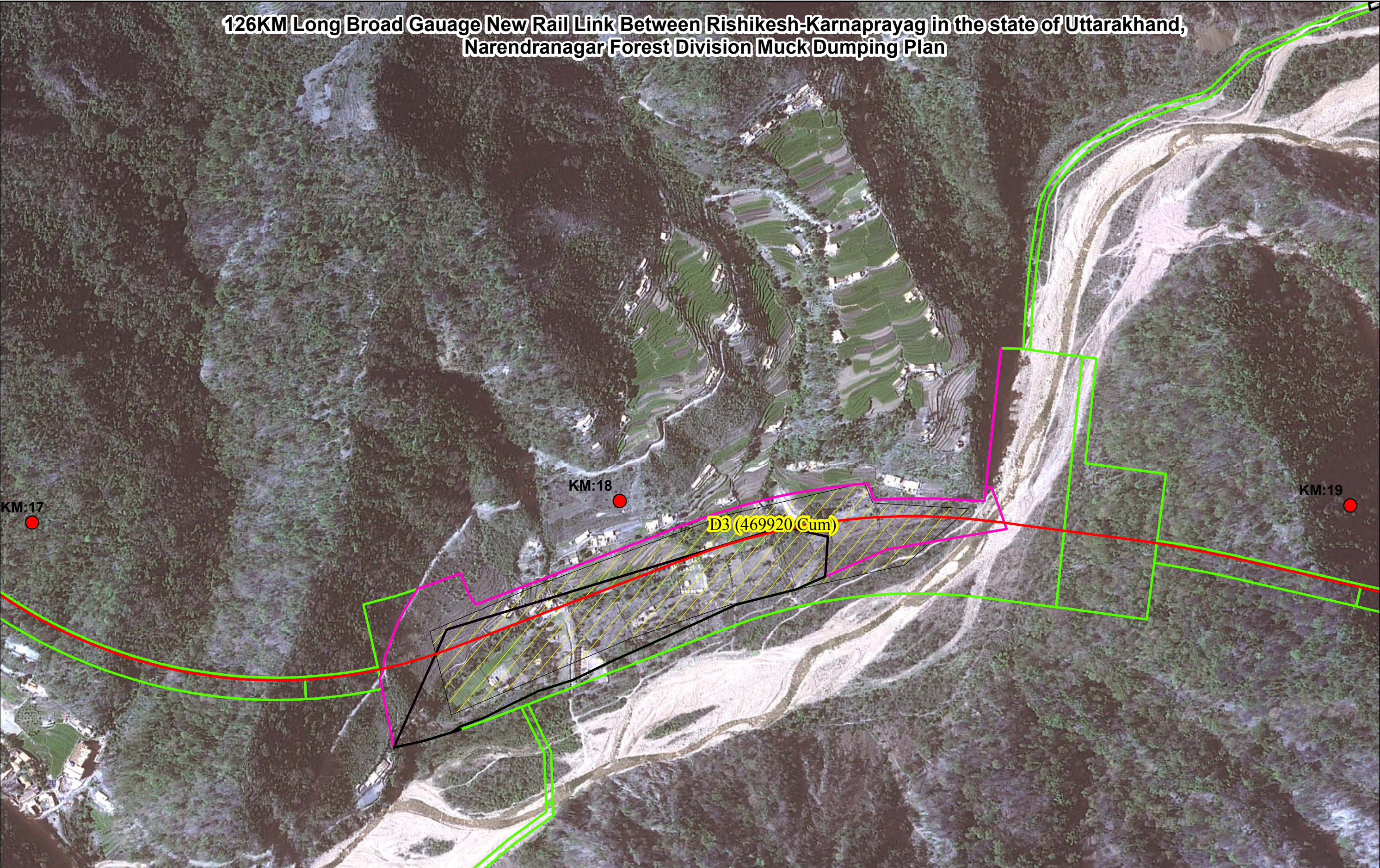
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**126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan**



User Agency:  Indian Railways	Executing Agency:  रेल विकास निगम लिमिटेड (भारत सरकार का उपक्रम) Rail Vikas Nigam Limited (A Government of India Enterprise)	Legend  Chainage in Km  CL  Reserve Forest  Non Forest  DS  Revenue Forest
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126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



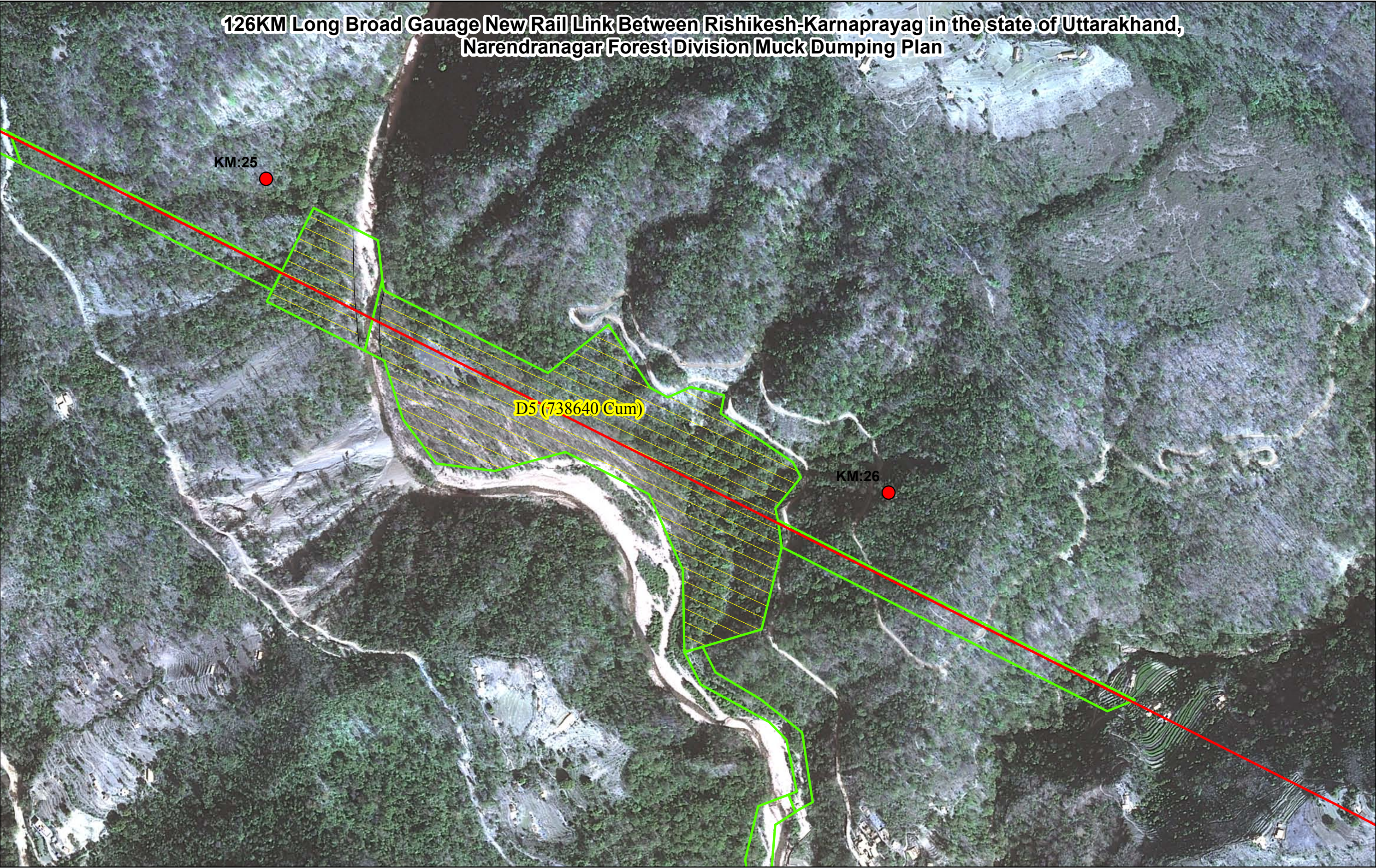
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Revenue Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



User Agency:  Indian Railways	Executing Agency:  Rail Vikas Nigam Limited (A Government of India Enterprise)	Legend <table border="0"><tr><td> Chainage in Km</td><td> Reserve Forest</td><td> DS</td></tr><tr><td> CL</td><td> Non Forest</td><td> Revenue Forest</td></tr></table>	 Chainage in Km	 Reserve Forest	 DS	 CL	 Non Forest	 Revenue Forest	 Scale 1:5,000 0 0.045 0.09 0.18 Kilometers SHEET-3
 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Revenue Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



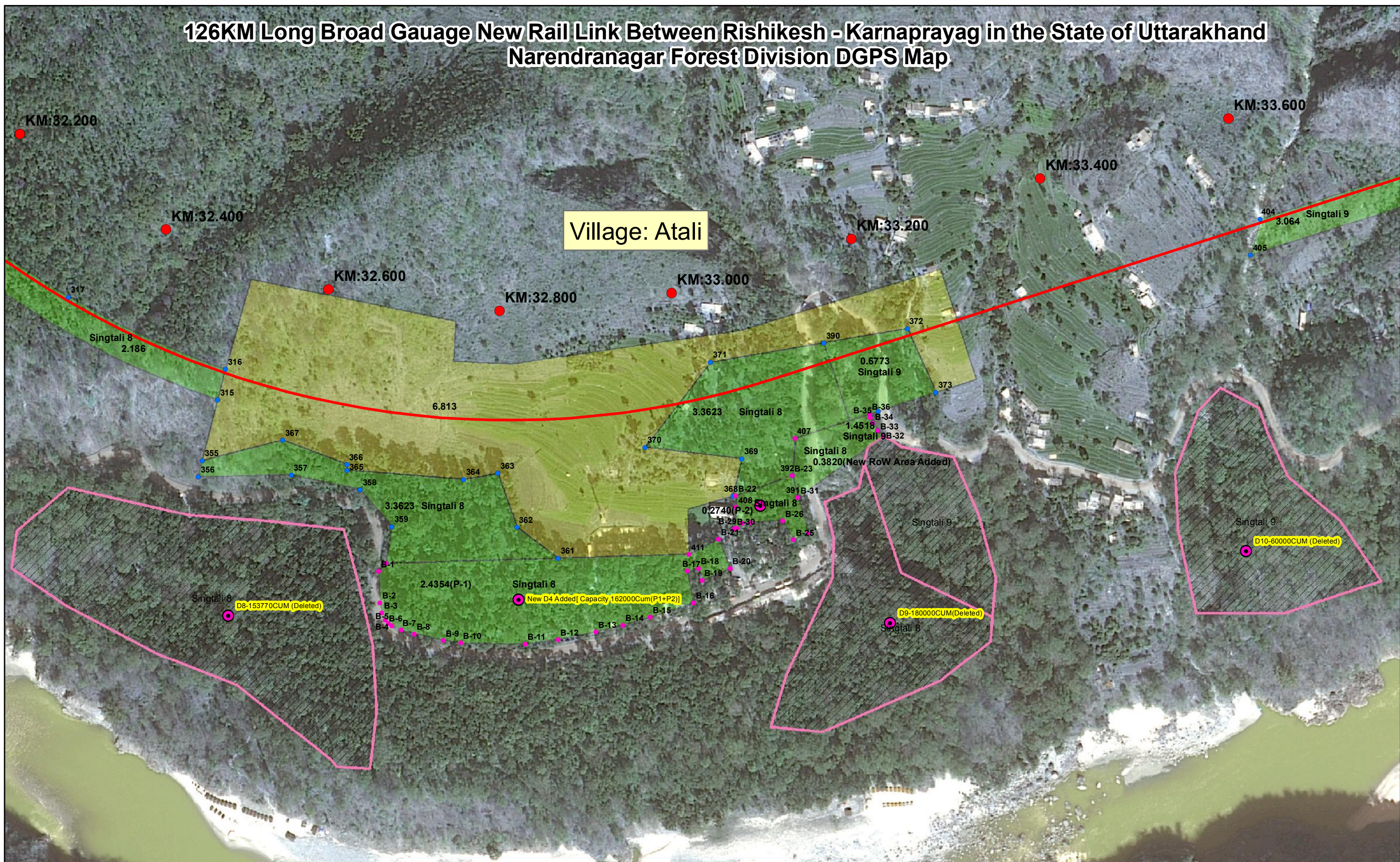
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Revenue Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



User Agency:  Indian Railways	Executing Agency:  Rail Vikas Nigam Limited (A Government of India Enterprise)	Legend <table border="0"><tr><td> Chainage in Km</td><td> Reserve Forest</td><td> DS</td></tr><tr><td> CL</td><td> Non Forest</td><td> Revenue Forest</td></tr></table>	 Chainage in Km	 Reserve Forest	 DS	 CL	 Non Forest	 Revenue Forest	 Scale 1:5,000 0 0.045 0.09 0.18 Kilometers SHEET-5
 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Revenue Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh - Karnaprayag in the State of Uttarakhand Narendranagar Forest Division DGPS Map



User Agency:



Indian Railways

Executive Agency:



Legend

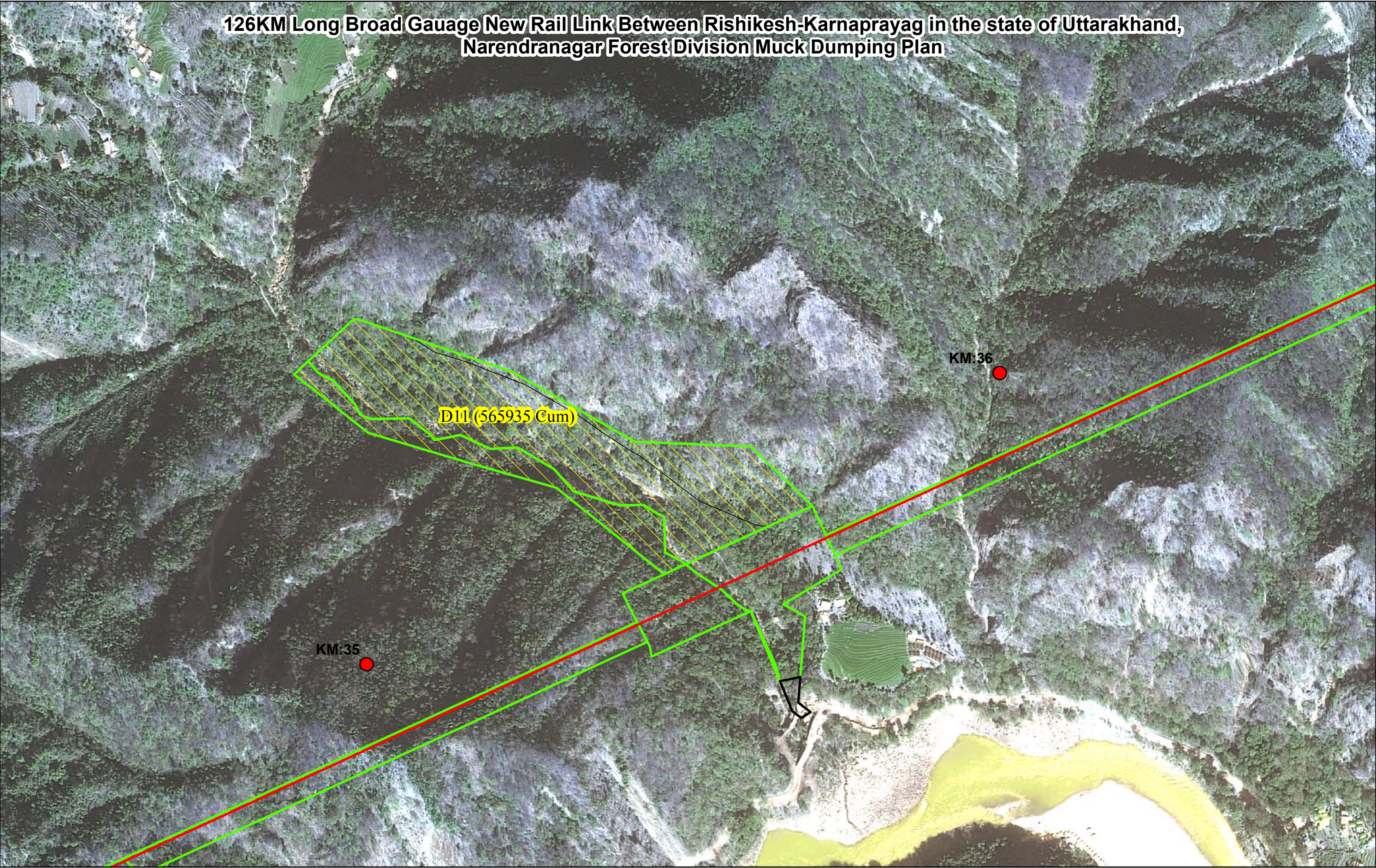
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- DGPS Points
- CL
- Non Forest
- Reserve Forest
- Revenue Forest



Scale 1:3,500
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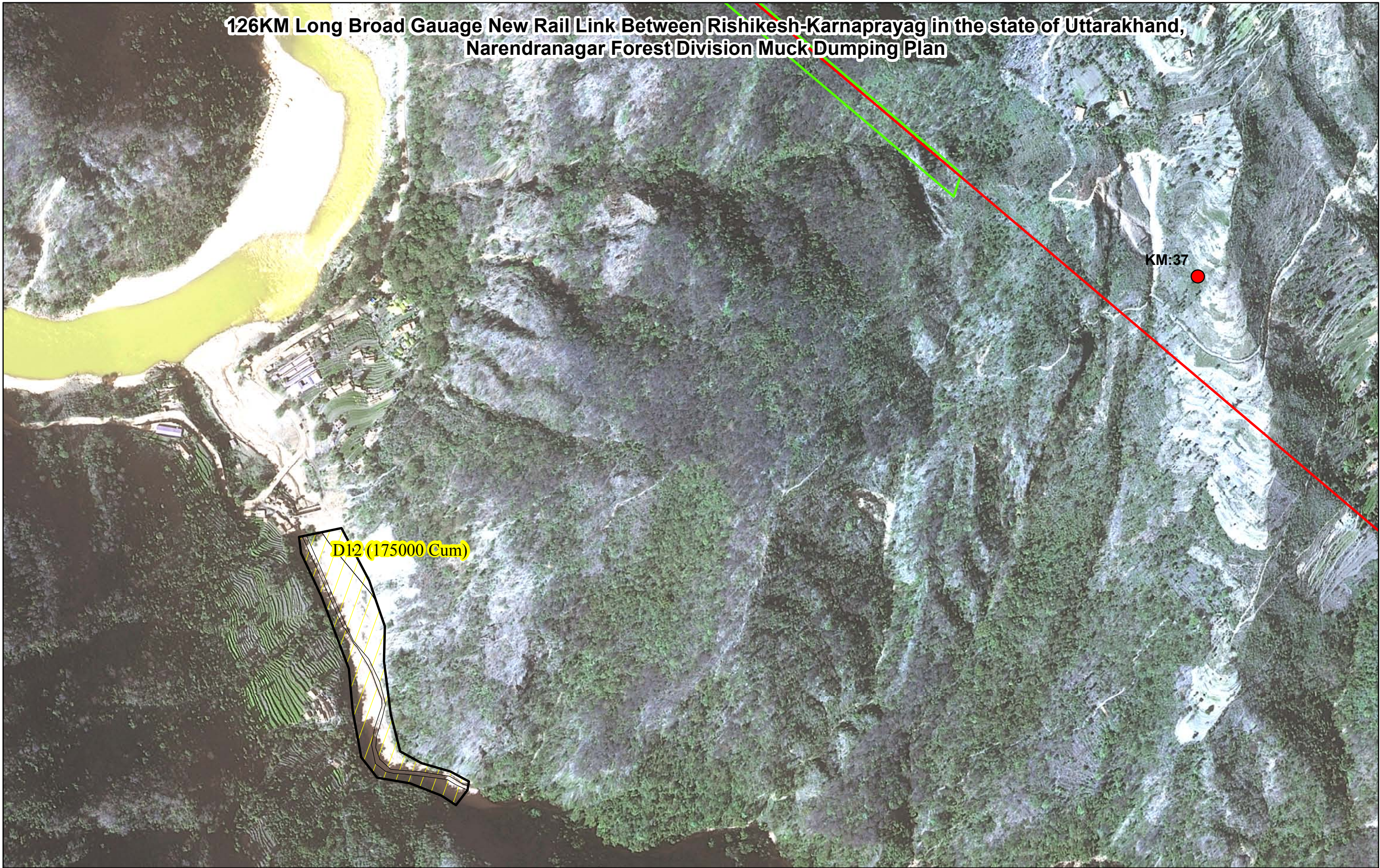
abcd: Village Name/Block - Compartment
1234: Village Name/Block - Compartment Area in Hectare

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



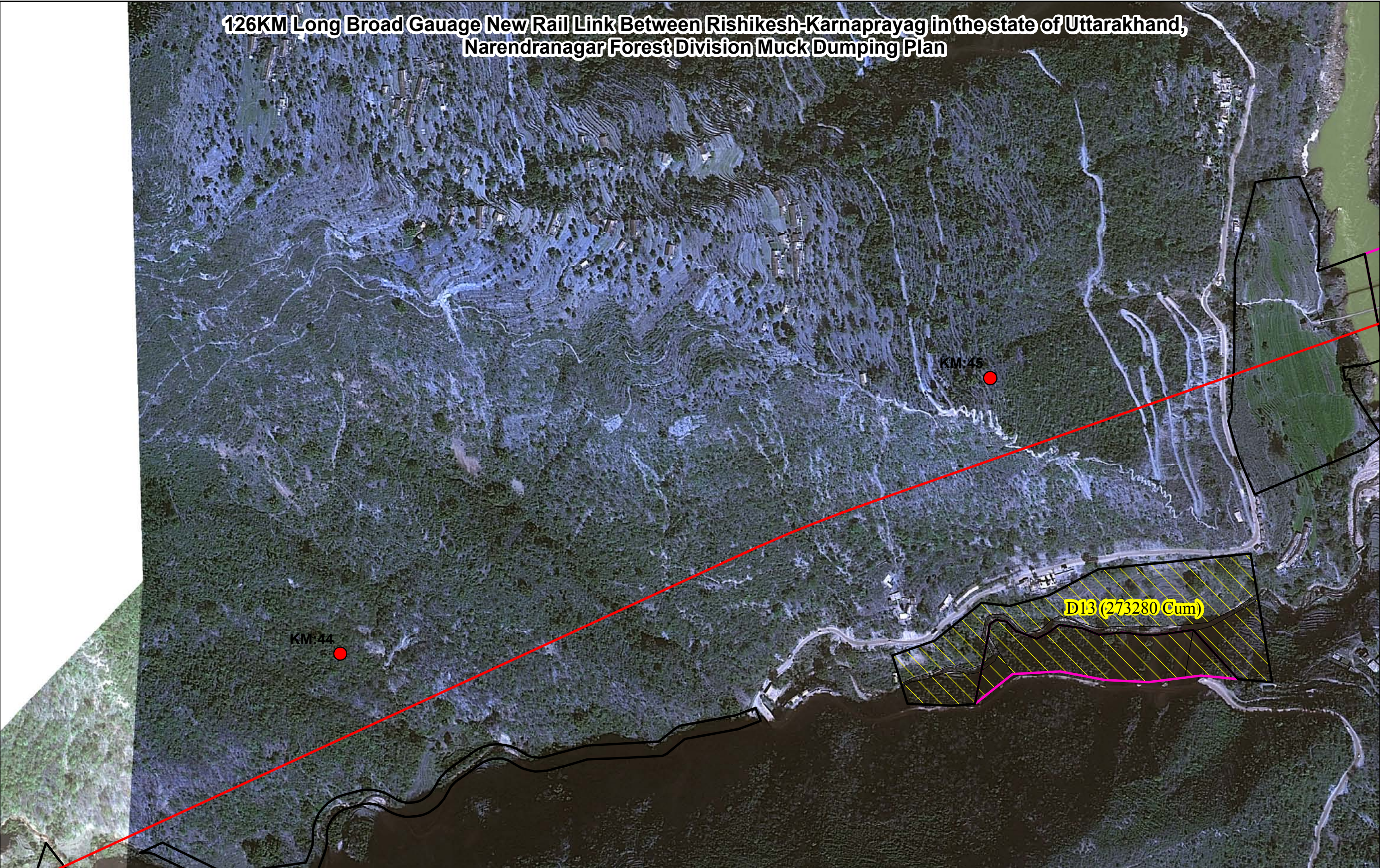
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126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



User Agency:  Indian Railways	Executing Agency:  रेल विकास निगम लिमिटेड (भारत सरकार का उपक्रम) Rail Vikas Nigam Limited (A Government of India Enterprise)	Legend  Chainage in Km  CL  Reserve Forest  Non Forest  DS  Revenue Forest	 Scale 1:5,000 0 0.045 0.09 0.18 Kilometers SHEET-8
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126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



User Agency:  Indian Railways	Executing Agency:  Rail Vikas Nigam Limited (A Government of India Enterprise)	Legend  Chainage in Km  CL  Reserve Forest  Non Forest  DS  Revenue Forest	 Scale 1:5,000  0 0.045 0.09 0.18 Kilometers SHEET-9
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Tol

Pokhari Lagga Kharkola

D-13/A
D13A (273280 Cum)

Tilwal Gaon

Deyprayag Pauri Rd

44+600

44+800

CS: 44+740.48

SC: 44+613.67

ST: 44+800.48

TS: 44+553.67

44+400

45+200

BH56-80

BH57-35

BH58-35

45+800

BH59-35

46+000

BH60-35

46+200

CS: 45+841.43

SC: 45+680.9

ST: 45+901.43

SC: 46+058.27

TS: 45+620.90

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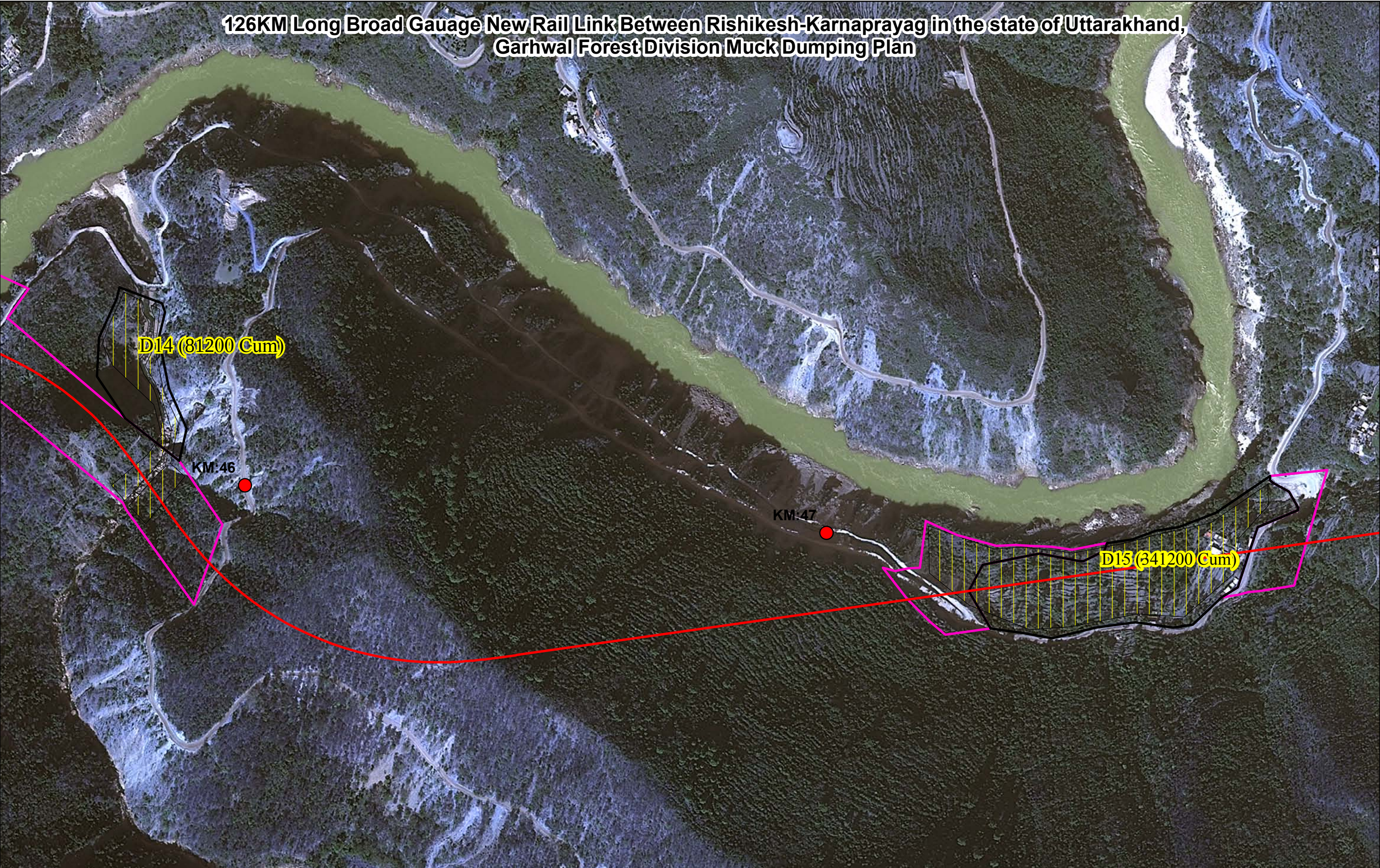
Umrasu

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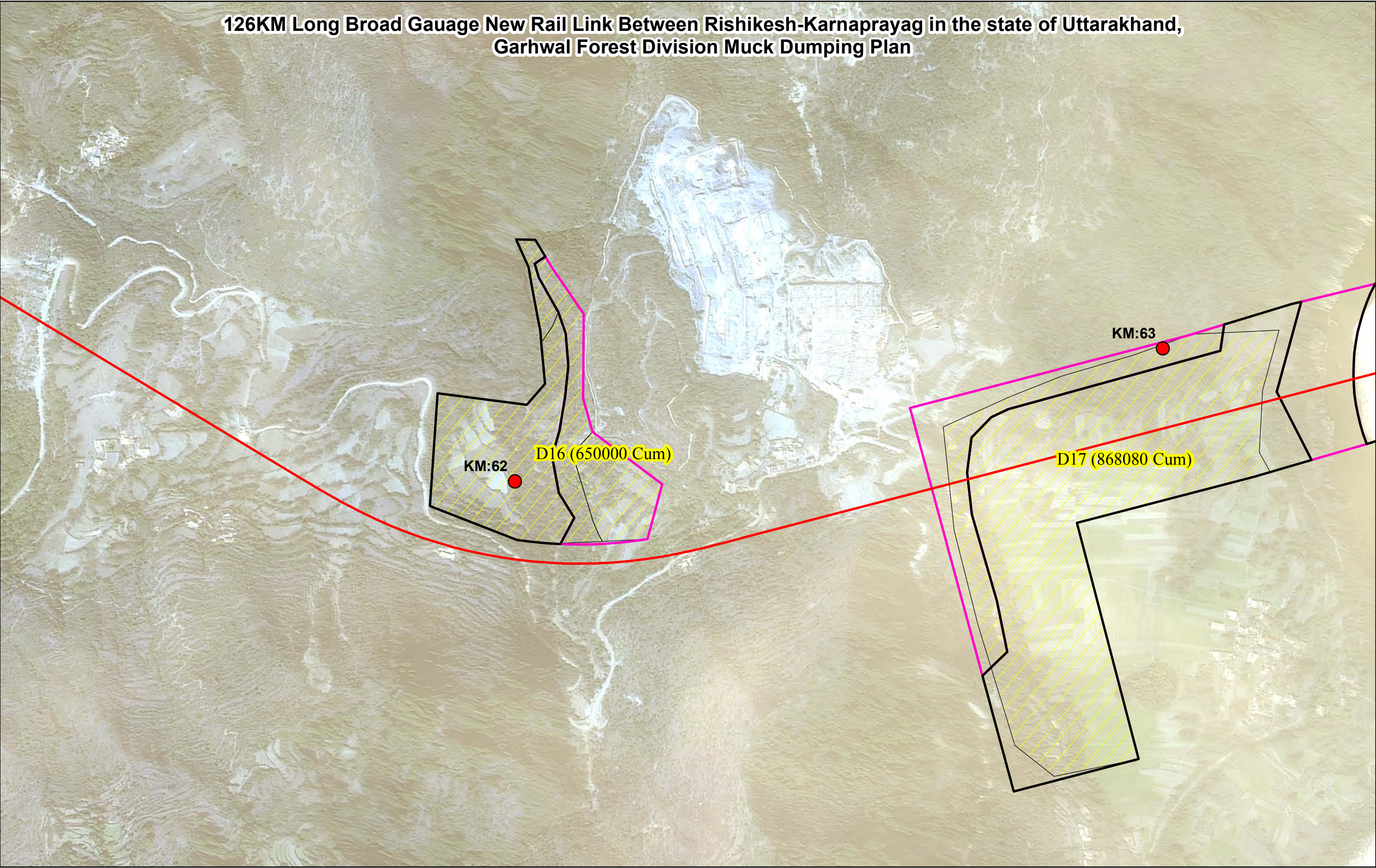
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126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Garhwal Forest Division Muck Dumping Plan



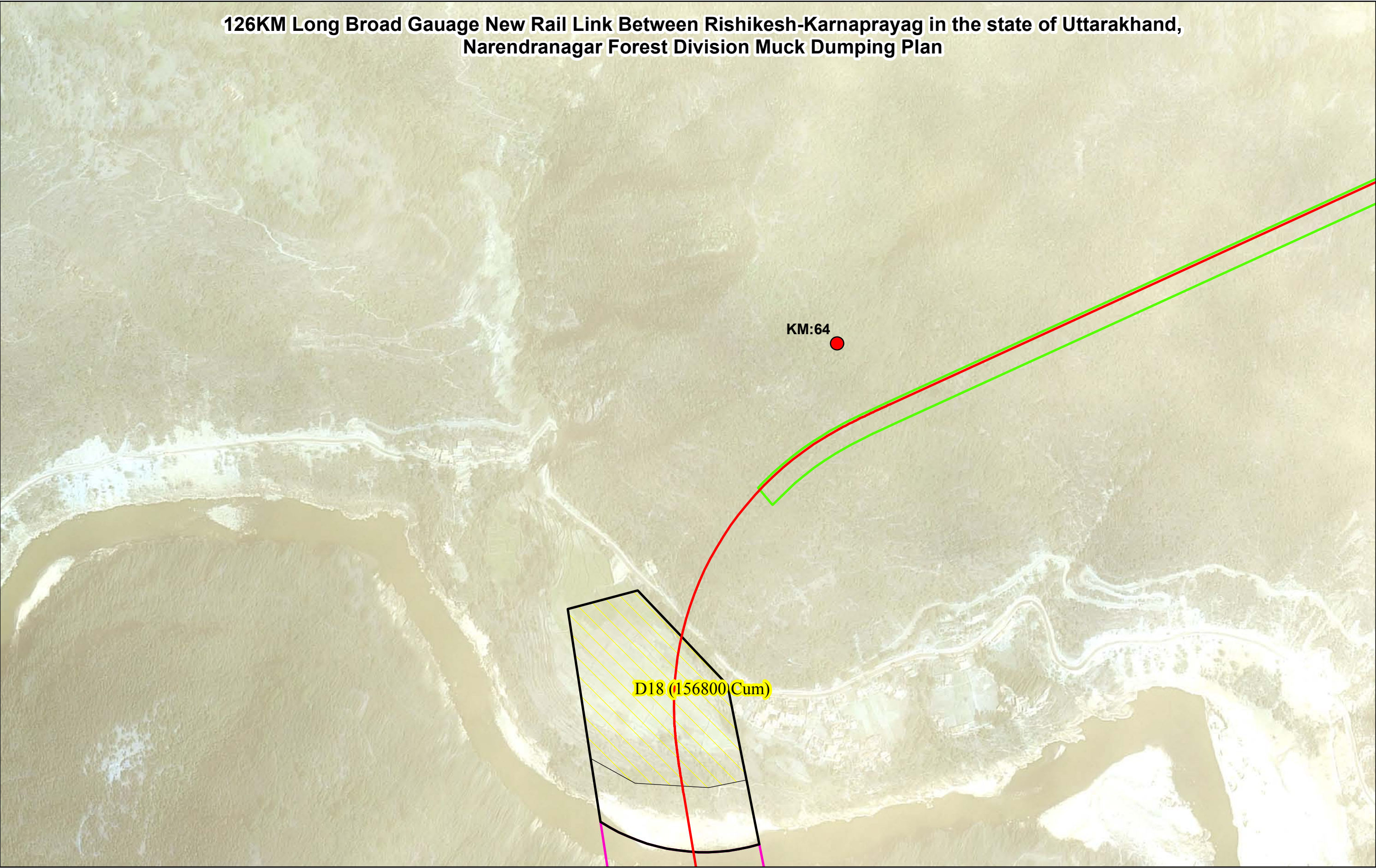
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126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Garhwal Forest Division Muck Dumping Plan



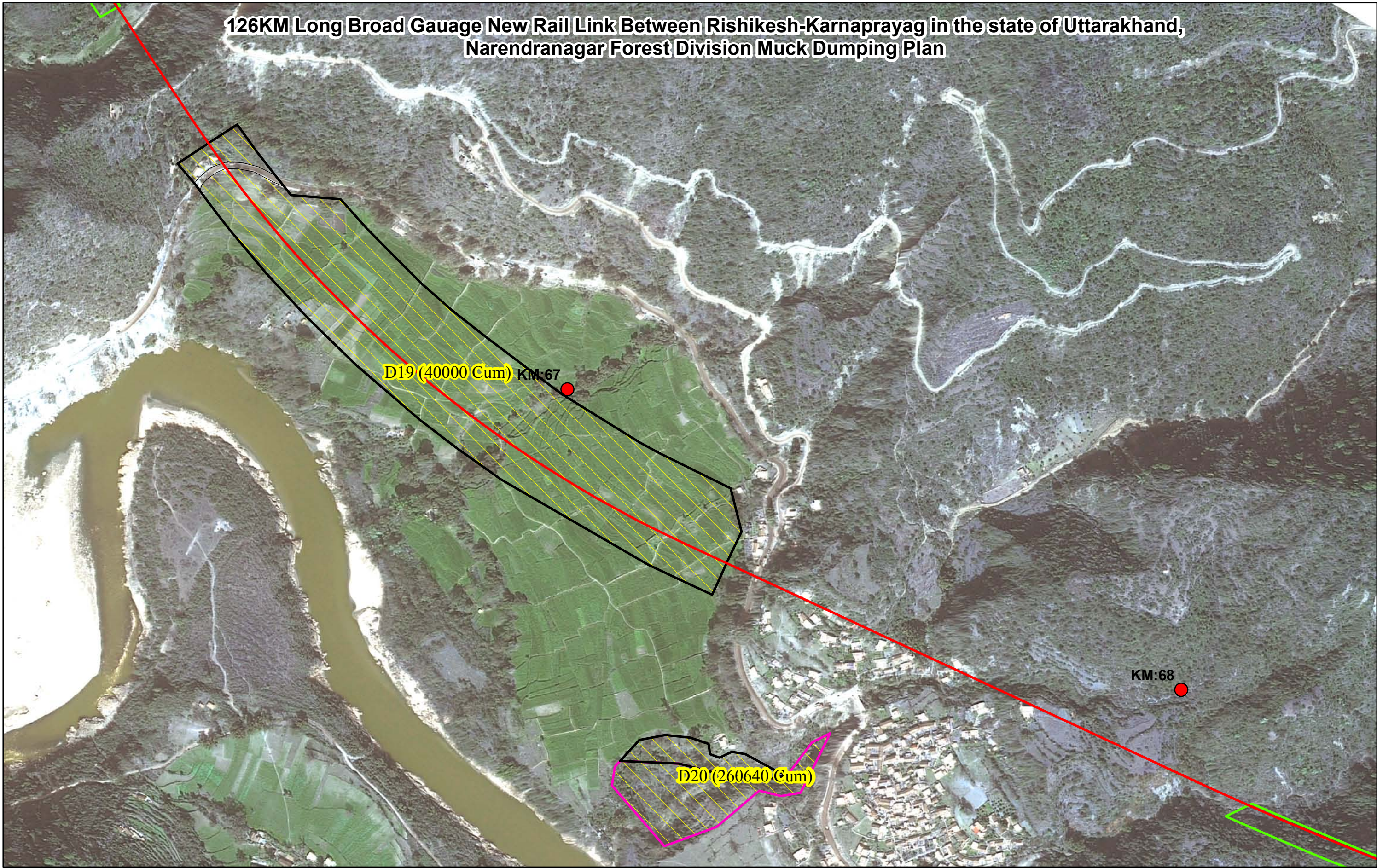
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126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



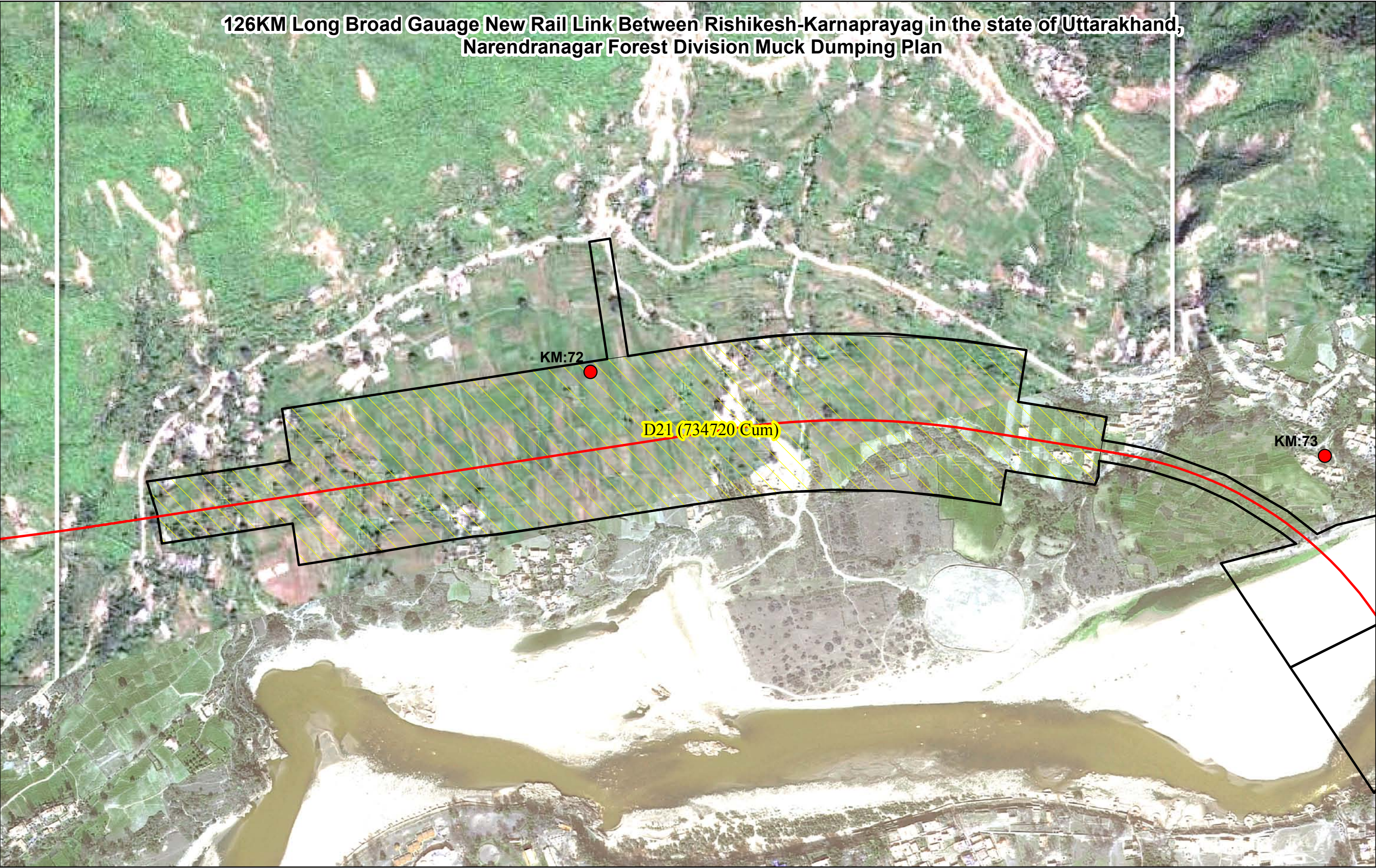
User Agency:  Indian Railways	Executing Agency:  Rail Vikas Nigam Limited (A Government of India Enterprise)	Legend <table border="0"><tr><td> Chainage in Km</td><td> Reserve Forest</td><td> DS</td></tr><tr><td> CL</td><td> Non Forest</td><td> Revenue Forest</td></tr></table>	 Chainage in Km	 Reserve Forest	 DS	 CL	 Non Forest	 Revenue Forest	 Scale 1:5,000 0 0.045 0.09 0.18 Kilometers SHEET-10
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 CL	 Non Forest	 Revenue Forest							

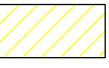
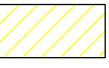
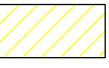
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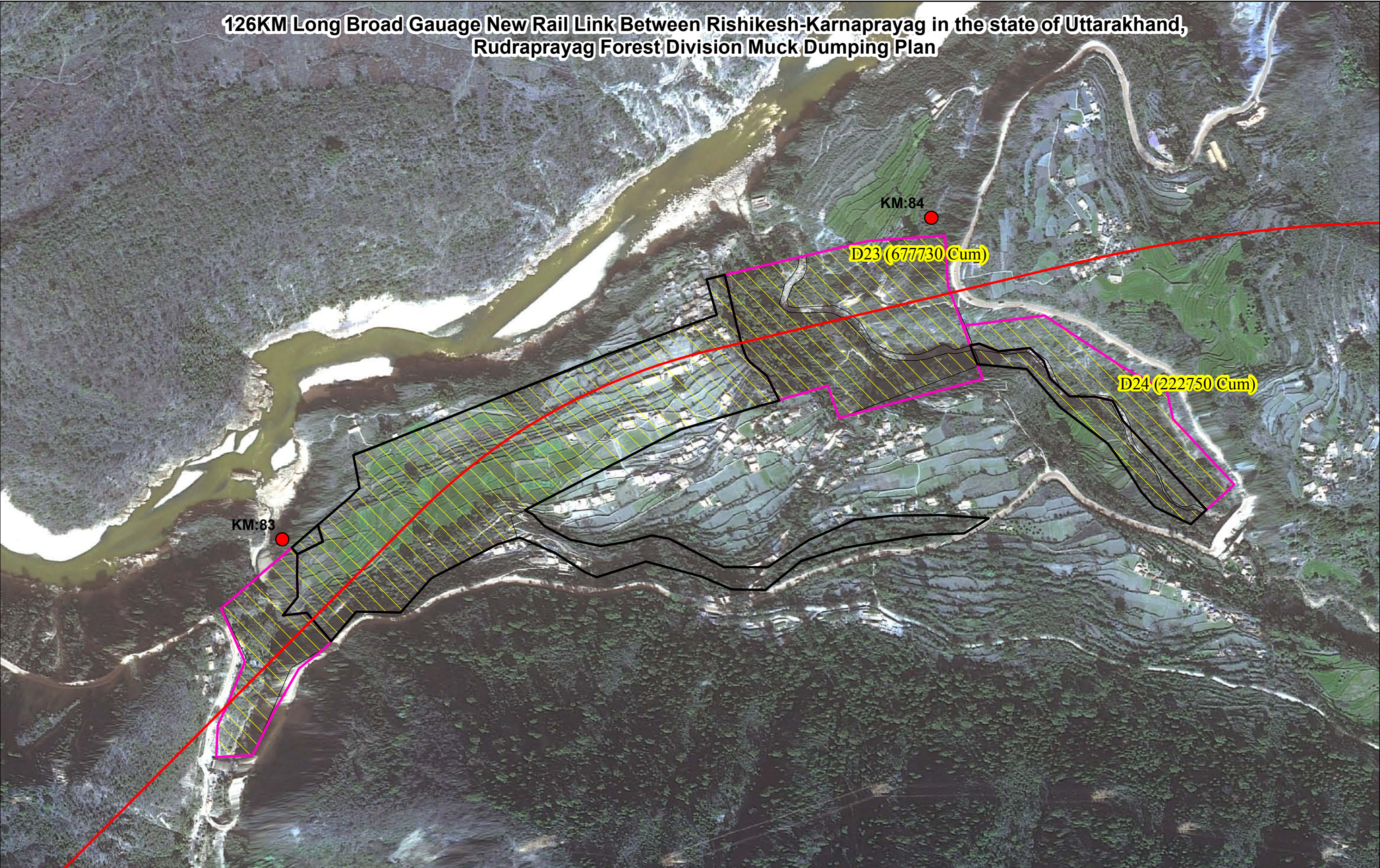
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Revenue Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Narendranagar Forest Division Muck Dumping Plan



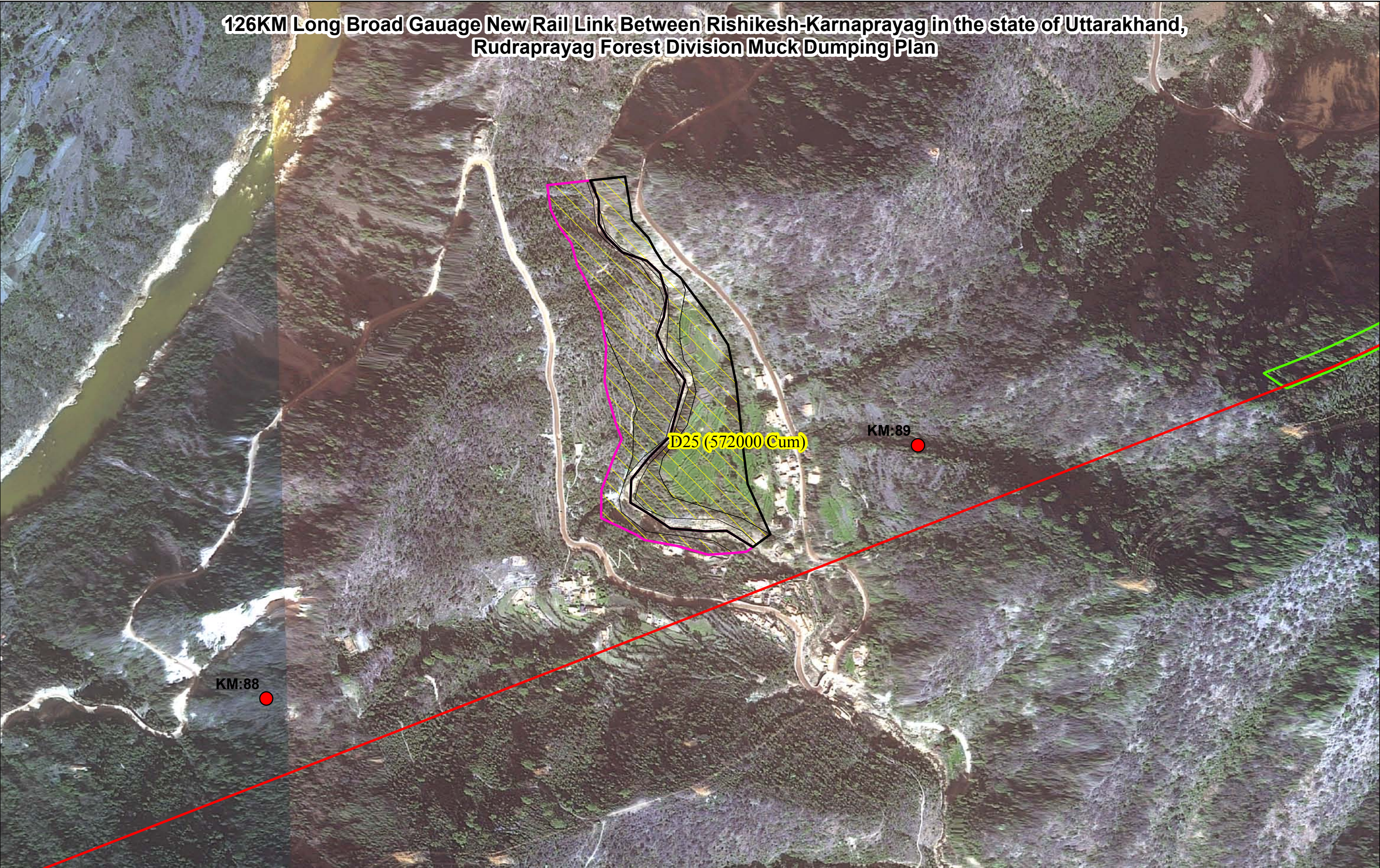
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Revenue Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Rudraprayag Forest Division Muck Dumping Plan



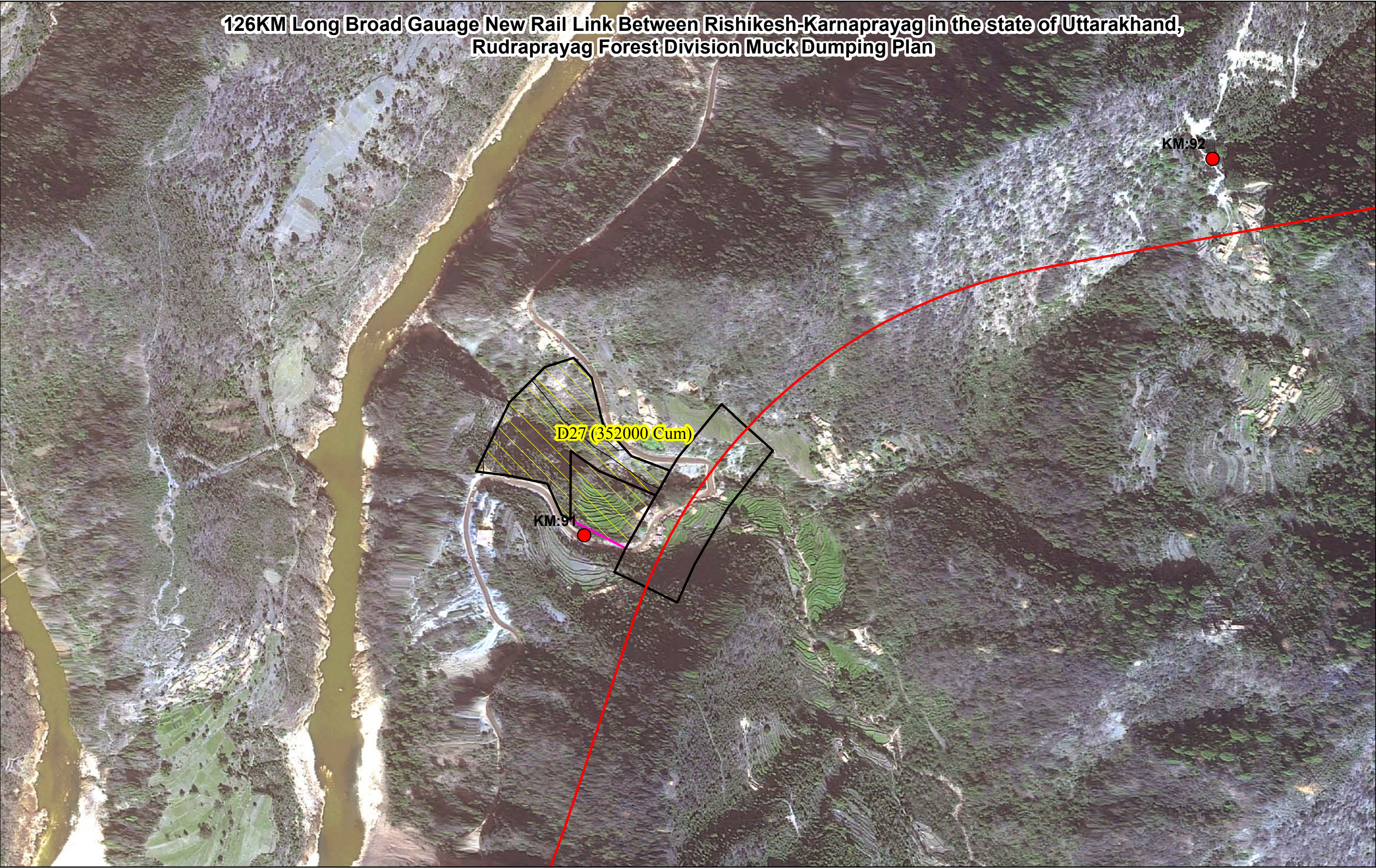
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Reserve Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Rudraprayag Forest Division Muck Dumping Plan



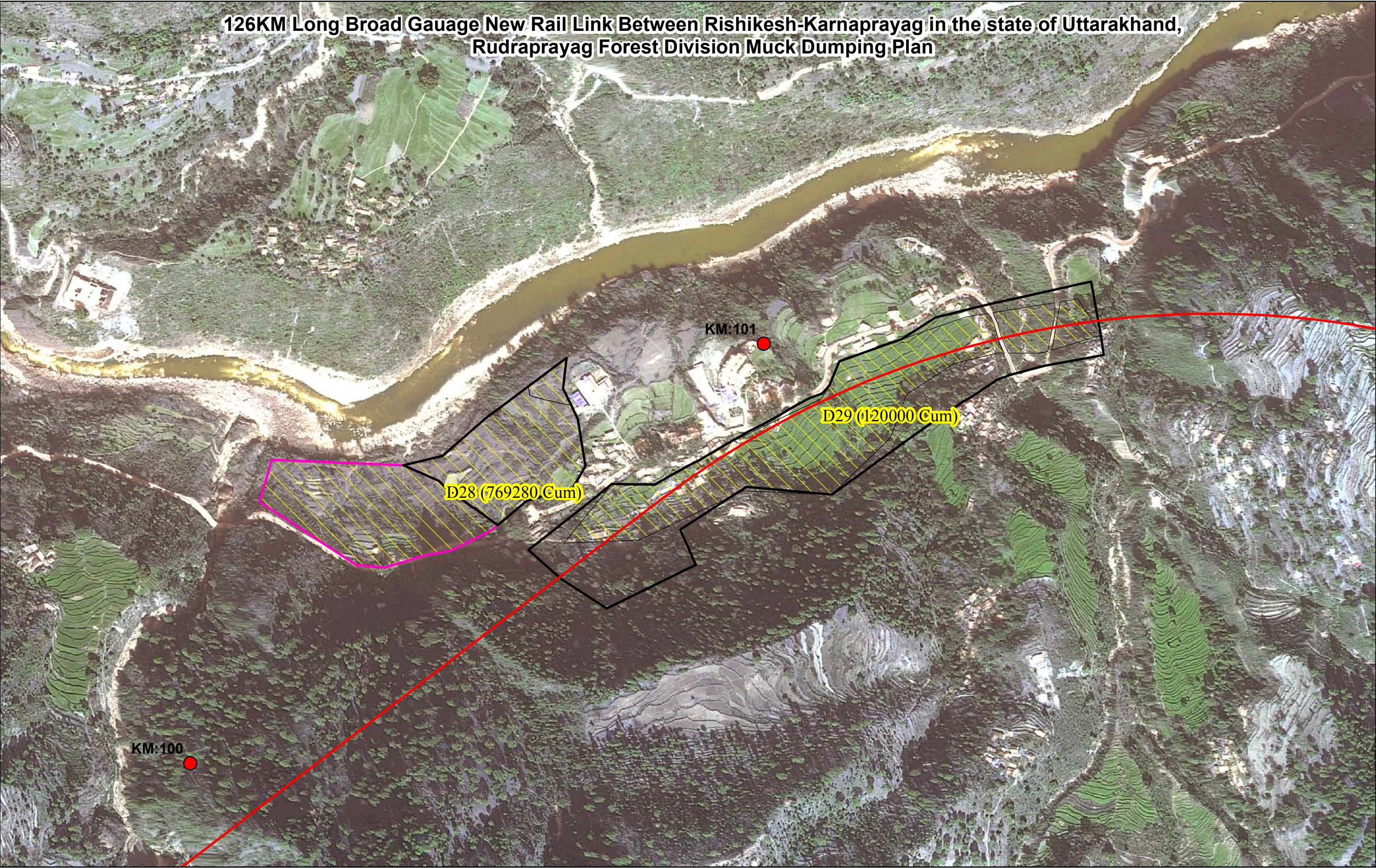
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Reserve Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Rudraprayag Forest Division Muck Dumping Plan



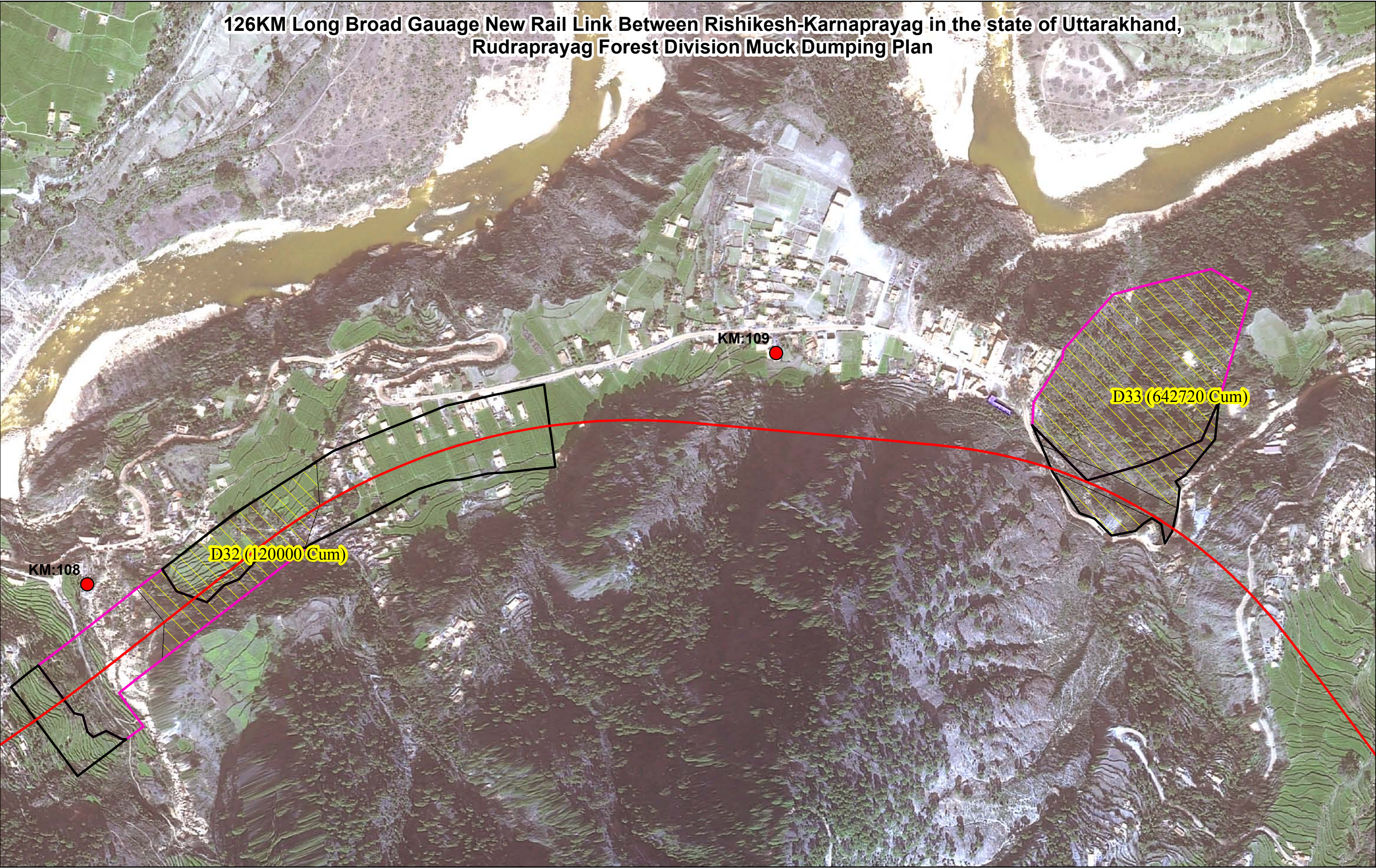
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Reserve Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Rudraprayag Forest Division Muck Dumping Plan



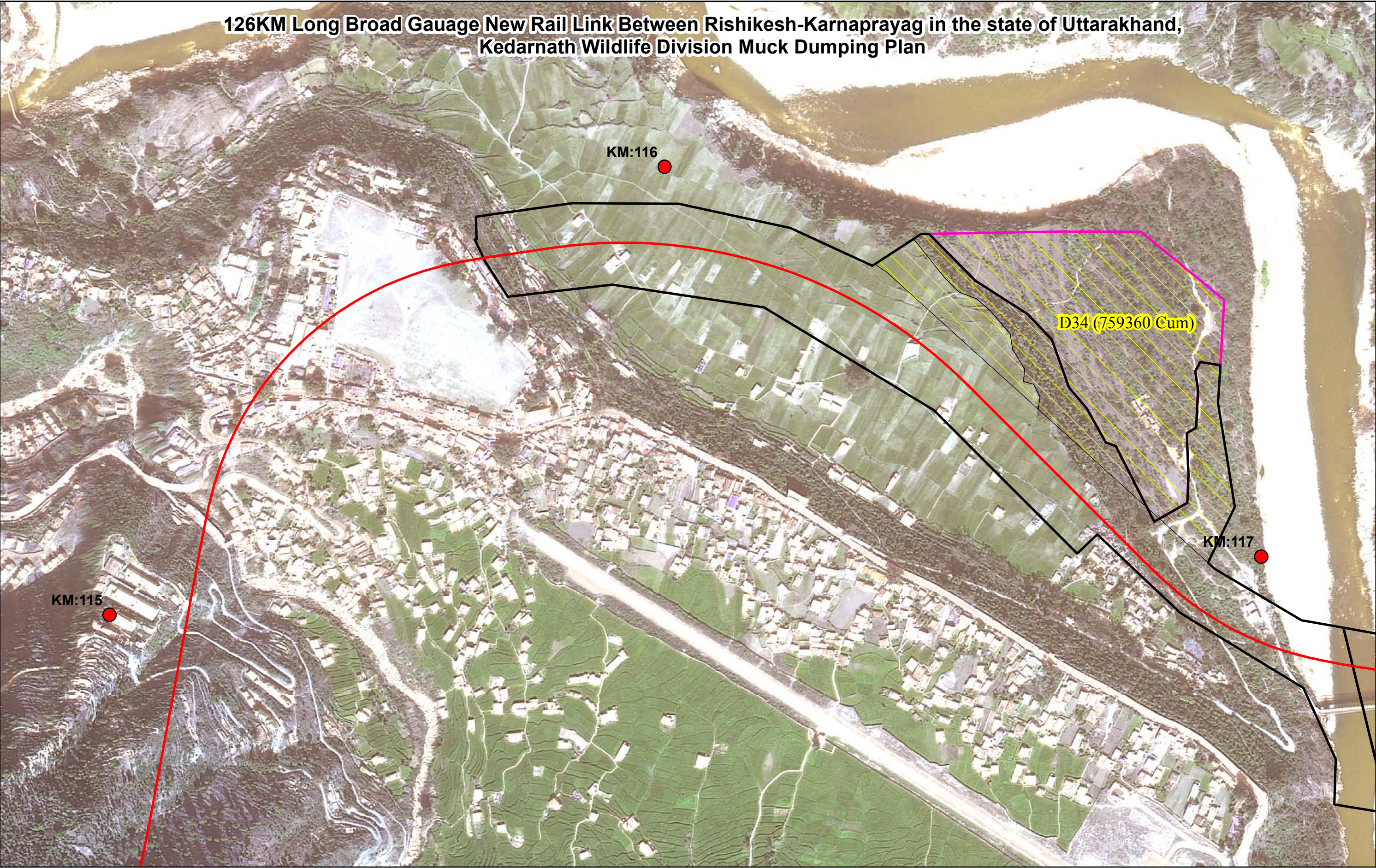
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Reserve Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Rudraprayag Forest Division Muck Dumping Plan



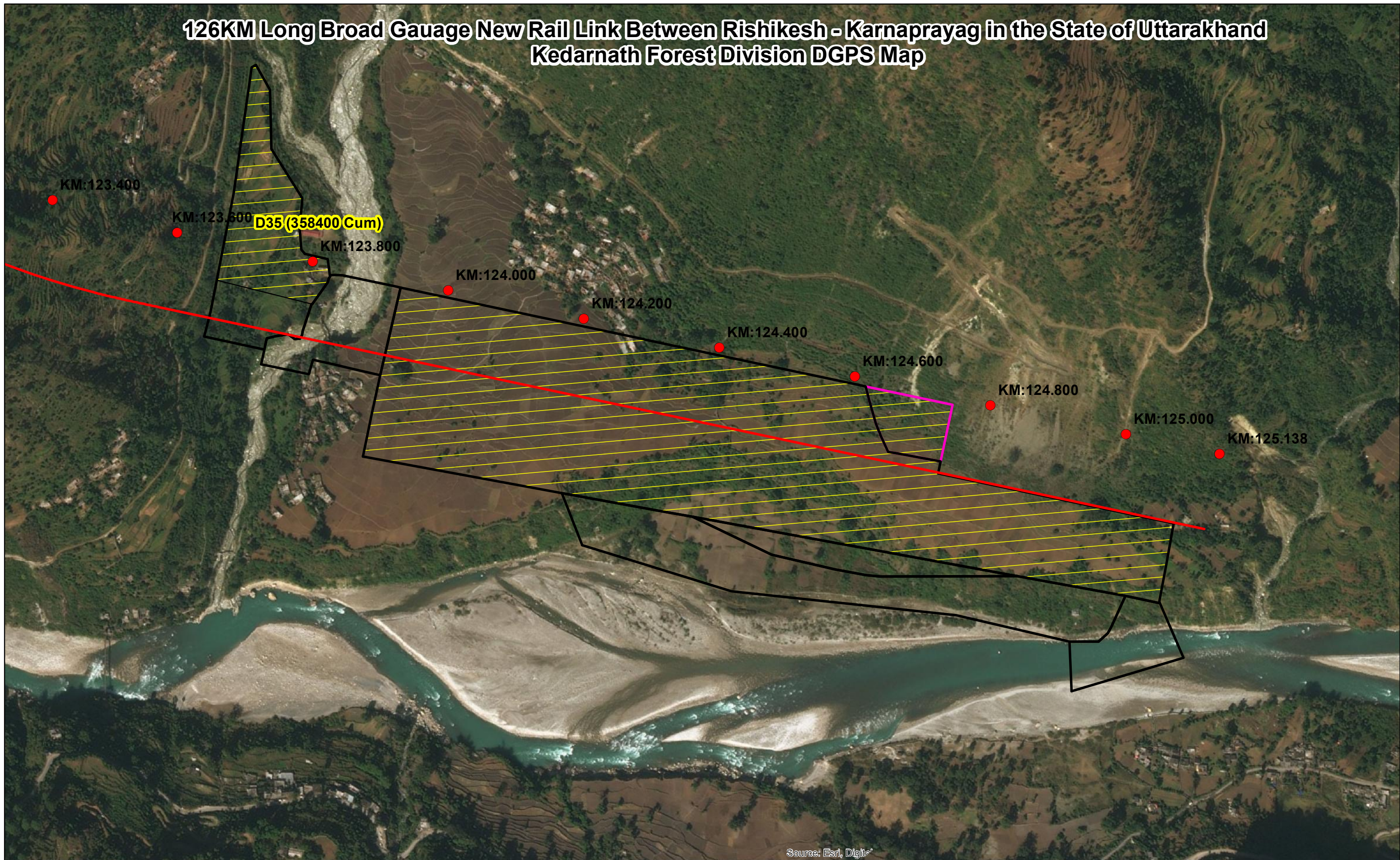
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 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Reserve Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh-Karnaprayag in the state of Uttarakhand,
Kedarnath Wildlife Division Muck Dumping Plan



User Agency:  Indian Railways	Executing Agency:  रेल विकास निगम लिमिटेड (भारत सरकार का उपक्रम) Rail Vikas Nigam Limited (A Government of India Enterprise)	Legend <table><tr><td> Chainage in Km</td><td> Reserve Forest</td><td> DS</td></tr><tr><td> CL</td><td> Non Forest</td><td> Revenue Forest</td></tr></table>	 Chainage in Km	 Reserve Forest	 DS	 CL	 Non Forest	 Revenue Forest	 Scale 1:5,000 0 0.045 0.09 0.18 Kilometers SHEET-1
 Chainage in Km	 Reserve Forest	 DS							
 CL	 Non Forest	 Revenue Forest							

126KM Long Broad Gauge New Rail Link Between Rishikesh - Karnaprayag in the State of Uttarakhand Kedarnath Forest Division DGPS Map



User Agency:



Indian Railways

Executive Agency:



Legend

- Chainage_in_KM
- CL
- DS
- Non Forest
- Revenue Forest



Scale 1:5,000

0.15 0.075 0 0.15 Kilometers