



IndianOil

JOURNEY RISK MANAGEMENT (JRM) STUDY

IOCL Coimbatore Terminal to Kanan Devan Hills
Plantations

Objective of the JRM Report

This JRM report is designed to ensure compliance with the Central Motor Vehicle Rules, 1989 (CMVR), AIS 140 standards, and the Road Transport Safety Policy (RTSP). It provides a comprehensive risk assessment for the transportation of hazardous materials along specified routes. By integrating these legal frameworks, the report offers a broad strategy for identifying and mitigating route-specific risks.

Regulatory Compliance

The report complies with the Central Motor Vehicles (Eleventh Amendment) Rules, 2022, mandating safe transportation practices for N2 and N3 category vehicles carrying hazardous materials. These rules require detailed route assessments, especially regarding road conditions, speed limits, and risk areas, to ensure safety compliance.

Risk Management Strategy

This report categorizes transportation routes into high-risk and medium-risk areas, with a focus on factors such as sharp turns, accident-prone regions, and elevation changes. The goal is to provide actionable

recommendations to minimize these risks, including speed regulations, driver warnings for hazardous zones, and the option of alternate routes.

Compliance with the Road Transport Safety Policy (RTSP)

The report integrates RTSP provisions, including mandatory driving hours, rest periods, and nighttime driving restrictions. It ensures that drivers follow official guidelines, such as taking prescribed rest breaks and avoiding dangerous road conditions like poor visibility, heavy crowds, or high-traffic areas during peak hours.

Emergency Preparedness and Response

The report highlights the significance of predetermined emergency stops for refueling, rest, and overnight stays. It includes protocols for safe responses to road hazards, alternative routes, and rerouting processes if roads are closed or severe weather arises. This aligns with the RTSP emphasis on driver safety and rapid emergency response.

Environmental Considerations

The JRM report addresses environmental risks along the route, ensuring compliance with environmental protection laws in ecologically sensitive zones. It suggests strategies such as identifying areas near water bodies, forests, or populated regions and implementing safety measures to minimize environmental impacts during transport.

Journey Risk Mitigation

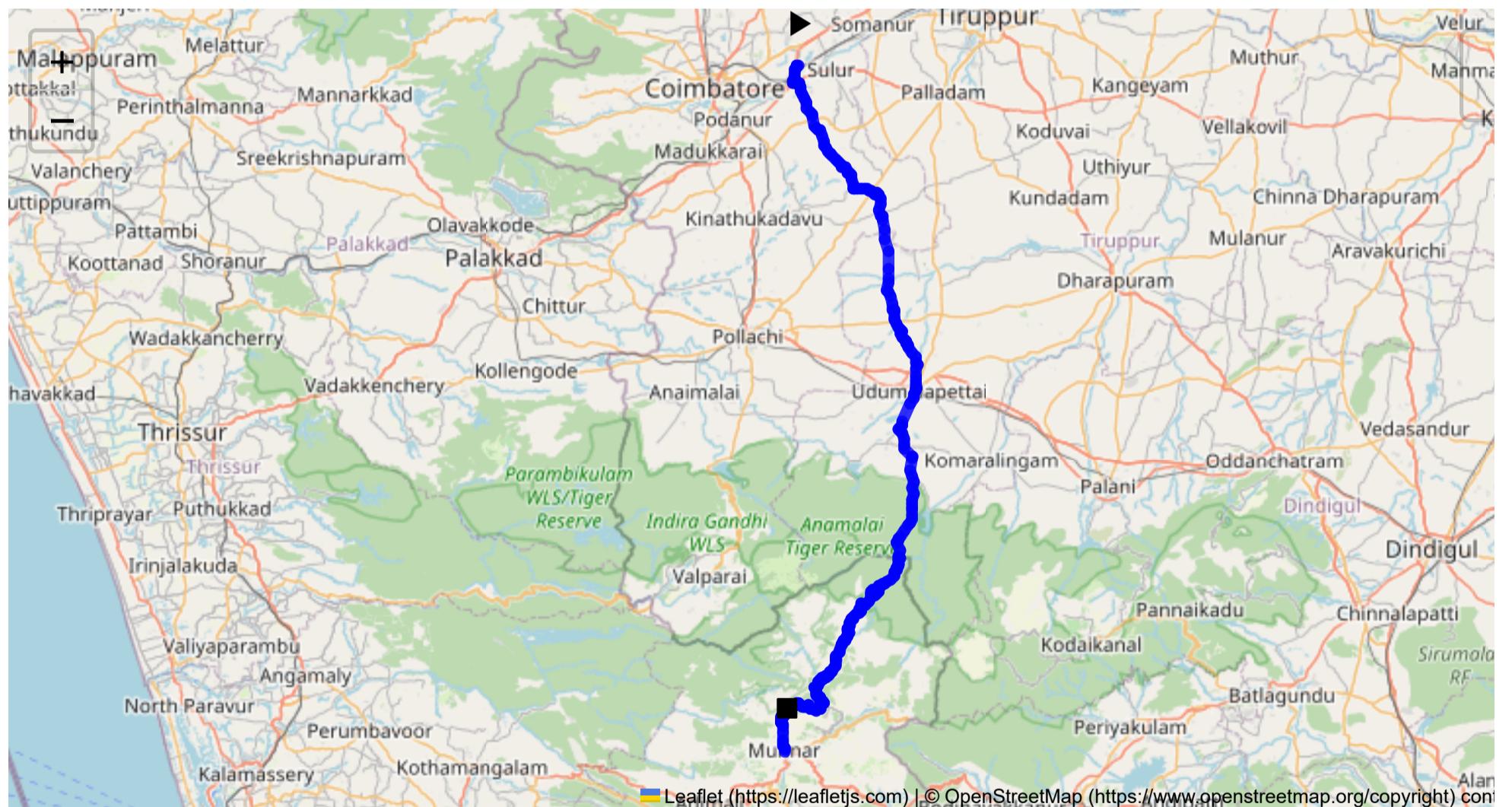
The report includes route-specific risk assessments, detailed journey charts, and defensive driving guidelines for each transport route. Integration with vehicle tracking systems guarantees real-time warnings on hazardous areas, speed limits, and mandatory stops, consistent with RTSP and CMVR safety norms.

Compliance with Government Directives

This report fully adheres to governmental directives regarding hazardous material transportation, implementing mandatory speed limits, nighttime driving restrictions, and comprehensive driver briefings and real-time alerts about route-related risks.



Route Summary:
Total Distance: 147.51 km
Estimated Duration: 4.4 hours
Adjusted Duration (Heavy Vehicle): 5.5 hours
Start: (11.0315, 77.0797)
End: (10.08539, 77.060834)



Welcome to the Journey Risk Management Study

1. Overview of the Route Map

The route from Athappagoundenpudur, Coimbatore to KDHP House, Munnar via Senjeri spans approximately 147.51 kilometers. It traverses through rural and semi-urban areas, navigating a variety of terrains, including flat lands and hilly regions as the route approaches Munnar.

2. Typical Weather Conditions and Potential Weather-related Hazards

This region experiences a tropical climate with significant rainfall during the monsoon season (June to September). Heavy rains can lead to landslides, particularly in the hilly areas near Munnar, making roads slippery and dangerous. Fog is also a concern, especially in the early morning and late evening, reducing visibility.

3. Analysis of Traffic Patterns

Traffic is typically heavier during morning and evening rush hours in and around populated areas such as Coimbatore. Rural roads might experience lighter traffic but can become congested due to slower-moving agricultural vehicles and local traffic. The approach to Munnar can be congested during tourist season (October to March).

4. Assessment of Road Quality and Infrastructure

The road quality varies, with well-paved roads near urban centers and narrower, winding roads nearing Munnar. The infrastructure in rural areas might lack regular maintenance, leading to potholes and uneven surfaces. Signage might also be limited in remote areas.

5. Suggestions for Alternative Routes for Emergencies

For detours around major traffic or if the main route is blocked, consider using minor state highways that run parallel to the primary route. However, these should be checked in advance for suitability, as smaller roads might not support heavy vehicles well.

6. Summary of Local Regulations Affecting Hazardous Material Transport

Transport of hazardous materials requires adherence to local regulations, which mandate specific permits and documentation. Restrictions on travel times and routes may also be enforced, especially through populated or environmentally sensitive areas.

7. Overview of Historical Incidents Involving Heavy Vehicles or Hazardous Materials

There have been occasional incidents of landslides causing blockages on roads leading to Munnar, sometimes involving heavy vehicles. Accidents involving hazardous material transport are rare but emphasize the need for caution on steep or winding sections of the route.

8. Environmental Considerations and Sensitive Areas

The region near Munnar is ecologically sensitive, with protected areas and wildlife sanctuaries. Transport through these areas requires minimizing noise and pollution, adhering to stricter regulations, and avoiding any activities that might harm the environment.

9. Analysis of Communication Coverage

While mobile coverage is generally good in and near urban areas, rural stretches and hilly terrains may experience dead zones where communication is unreliable. Drivers should be equipped with alternative communication methods, like satellite phones or radio systems.

10. Estimated Emergency Response Times

Emergency response times can vary significantly. In urban areas or near major junctions, response times might be around 20-30 minutes. In remote or hilly areas, especially as you approach Munnar, response times could extend to an hour or more.

12. Overall Summary of Risk Assessment

The primary risks along this route include adverse weather conditions, particularly during the monsoon, and geographical challenges such as steep and winding roads. Traffic congestion around urban areas can also pose delays. Local regulations must be strictly followed to ensure safety when transporting hazardous materials. Road infrastructure, while passable, requires careful navigation due to potential maintenance lapses in rural areas. Emergency services may have delayed response times in remote sections, heightening the importance of preparation and caution.

Overall, with thorough route planning, awareness of local conditions, and due diligence with safety regulations, the risks can be mitigated for safe transport along this route.

Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit
0	Turn	Medium	11.03167, 77.07758	30 KM/Hr
1	Turn	Medium	11.03055, 77.07622	30 KM/Hr
2	Blind Spot	Blind Spot	11.00778, 77.07085	10 KM/Hr
3	Turn	High	11.00970, 77.07926	15 KM/Hr
4	Turn	High	11.00917, 77.08041	15 KM/Hr
5	Turn	Medium	10.99738, 77.08237	30 KM/Hr
6	Turn	Medium	10.97360, 77.09184	30 KM/Hr
7	Turn	High	10.96594, 77.09921	15 KM/Hr
8	Turn	High	10.94272, 77.10720	15 KM/Hr
9	Turn	High	10.94276, 77.10941	15 KM/Hr
10	Turn	High	10.92306, 77.11552	15 KM/Hr
11	Turn	Medium	10.92028, 77.11981	30 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
12	Turn	High	10.91090, 77.12292	15 KM/Hr
13	Turn	High	10.91150, 77.12446	15 KM/Hr
14	Turn	Medium	10.89746, 77.13706	30 KM/Hr
15	Turn	Medium	10.89576, 77.13993	30 KM/Hr
16	Turn	High	10.89229, 77.14179	15 KM/Hr
17	Turn	High	10.89236, 77.14497	15 KM/Hr
18	Blind Spot	Blind Spot	10.88389, 77.14983	10 KM/Hr
19	Turn	High	10.88482, 77.15121	15 KM/Hr
20	Turn	High	10.86246, 77.15729	15 KM/Hr
21	Turn	Medium	10.86394, 77.17330	30 KM/Hr
22	Turn	High	10.85611, 77.18752	15 KM/Hr
23	Turn	High	10.85684, 77.18932	15 KM/Hr
24	Turn	High	10.85538, 77.19202	15 KM/Hr
25	Turn	Medium	10.85154, 77.19263	30 KM/Hr
26	Turn	Medium	10.84892, 77.19481	30 KM/Hr
27	Turn	Medium	10.83354, 77.19364	30 KM/Hr
28	Turn	Medium	10.69624, 77.21280	30 KM/Hr
29	Turn	High	10.69501, 77.21413	15 KM/Hr
30	Turn	Medium	10.66554, 77.22443	30 KM/Hr
31	Turn	Medium	10.66375, 77.22416	30 KM/Hr
32	Turn	High	10.64948, 77.23017	15 KM/Hr
33	Turn	High	10.64723, 77.23411	15 KM/Hr
34	Turn	Medium	10.64349, 77.23376	30 KM/Hr
35	Turn	Medium	10.63156, 77.24369	30 KM/Hr
36	Turn	High	10.58878, 77.24502	15 KM/Hr
37	Turn	High	10.58790, 77.24599	15 KM/Hr
38	Turn	Medium	10.53554, 77.22432	30 KM/Hr
39	Blind Spot	Blind Spot	10.53091, 77.22008	10 KM/Hr
40	Turn	Medium	10.52429, 77.22645	30 KM/Hr
41	Turn	Medium	10.50938, 77.22707	30 KM/Hr
42	Turn	High	10.49225, 77.24038	15 KM/Hr
43	Turn	Medium	10.42397, 77.23852	30 KM/Hr
44	Turn	Medium	10.37450, 77.21844	30 KM/Hr
45	Turn	Medium	10.36284, 77.22199	30 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
46	Blind Spot	Blind Spot	10.35329, 77.21973	10 KM/Hr
47	Blind Spot	Blind Spot	10.35338, 77.22168	10 KM/Hr
48	Turn	Medium	10.34974, 77.22149	30 KM/Hr
49	Turn	High	10.34589, 77.21916	15 KM/Hr
50	Turn	Medium	10.34366, 77.21996	30 KM/Hr
51	Turn	Medium	10.34111, 77.21962	30 KM/Hr
52	Turn	Medium	10.33726, 77.21743	30 KM/Hr
53	Turn	Medium	10.33551, 77.21759	30 KM/Hr
54	Turn	High	10.33176, 77.21414	15 KM/Hr
55	Turn	Medium	10.32965, 77.21405	30 KM/Hr
56	Turn	High	10.31458, 77.19589	15 KM/Hr
57	Turn	Medium	10.31491, 77.19414	30 KM/Hr
58	Turn	High	10.31421, 77.19243	15 KM/Hr
59	Turn	High	10.31220, 77.19201	15 KM/Hr
60	Turn	High	10.30955, 77.19383	15 KM/Hr
61	Turn	Medium	10.30331, 77.18973	30 KM/Hr
62	Turn	High	10.30224, 77.18762	15 KM/Hr
63	Turn	Medium	10.30367, 77.18641	30 KM/Hr
64	Turn	High	10.30961, 77.18665	15 KM/Hr
65	Blind Spot	Blind Spot	10.31072, 77.18509	10 KM/Hr
66	Turn	High	10.30472, 77.18193	15 KM/Hr
67	Turn	High	10.30380, 77.18259	15 KM/Hr
68	Turn	Medium	10.29806, 77.18207	30 KM/Hr
69	Turn	High	10.28807, 77.17082	15 KM/Hr
70	Blind Spot	Blind Spot	10.28974, 77.16913	10 KM/Hr
71	Turn	Medium	10.28855, 77.16806	30 KM/Hr
72	Turn	Medium	10.28577, 77.16779	30 KM/Hr
73	Blind Spot	Blind Spot	10.28339, 77.16556	10 KM/Hr
74	Turn	High	10.28194, 77.16803	15 KM/Hr
75	Turn	Medium	10.27909, 77.16682	30 KM/Hr
76	Turn	Medium	10.27653, 77.16187	30 KM/Hr
77	Blind Spot	Blind Spot	10.27009, 77.15531	10 KM/Hr
78	Blind Spot	Blind Spot	10.26897, 77.15630	10 KM/Hr
79	Turn	High	10.26923, 77.15433	15 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
80	Turn	High	10.26280, 77.15037	15 KM/Hr
81	Blind Spot	Blind Spot	10.26067, 77.15195	10 KM/Hr
82	Turn	High	10.25990, 77.15088	15 KM/Hr
83	Turn	Medium	10.25761, 77.15054	30 KM/Hr
84	Turn	High	10.25668, 77.14938	15 KM/Hr
85	Turn	High	10.25288, 77.14913	15 KM/Hr
86	Turn	High	10.25021, 77.15115	15 KM/Hr
87	Turn	High	10.24638, 77.14775	15 KM/Hr
88	Turn	Medium	10.24476, 77.14785	30 KM/Hr
89	Turn	Medium	10.23971, 77.14500	30 KM/Hr
90	Turn	Medium	10.23924, 77.14357	30 KM/Hr
91	Turn	Medium	10.23489, 77.14013	30 KM/Hr
92	Turn	Medium	10.21397, 77.13297	30 KM/Hr
93	Turn	High	10.21279, 77.13362	15 KM/Hr
94	Turn	Medium	10.21166, 77.13233	30 KM/Hr
95	Turn	Medium	10.20684, 77.13135	30 KM/Hr
96	Turn	High	10.20397, 77.13229	15 KM/Hr
97	Turn	Medium	10.19623, 77.12711	30 KM/Hr
98	Turn	Medium	10.19517, 77.12426	30 KM/Hr
99	Turn	High	10.19092, 77.12163	15 KM/Hr
100	Turn	Medium	10.19040, 77.12023	30 KM/Hr
101	Turn	High	10.19068, 77.11865	15 KM/Hr
102	Turn	High	10.18690, 77.11668	15 KM/Hr
103	Turn	Medium	10.18703, 77.11448	30 KM/Hr
104	Blind Spot	Blind Spot	10.18841, 77.11271	10 KM/Hr
105	Blind Spot	Blind Spot	10.18609, 77.11348	10 KM/Hr
106	Turn	High	10.18586, 77.11188	15 KM/Hr
107	Turn	High	10.18286, 77.10967	15 KM/Hr
108	Turn	High	10.18276, 77.10808	15 KM/Hr
109	Turn	Medium	10.18045, 77.10698	30 KM/Hr
110	Turn	Medium	10.17702, 77.10719	30 KM/Hr
111	Turn	High	10.17404, 77.10329	15 KM/Hr
112	Turn	Medium	10.16926, 77.10431	30 KM/Hr
113	Turn	High	10.16748, 77.10345	15 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
114	Turn	Medium	10.15952, 77.10900	30 KM/Hr
115	Turn	High	10.15641, 77.10915	15 KM/Hr
116	Turn	Medium	10.15590, 77.11088	30 KM/Hr
117	Turn	High	10.15644, 77.11263	15 KM/Hr
118	Blind Spot	Blind Spot	10.15387, 77.11512	10 KM/Hr
119	Turn	High	10.15385, 77.11311	15 KM/Hr
120	Turn	High	10.14571, 77.10895	15 KM/Hr
121	Turn	High	10.14490, 77.10947	15 KM/Hr
122	Turn	Medium	10.14288, 77.10482	30 KM/Hr
123	Turn	Medium	10.14460, 77.09917	30 KM/Hr
124	Turn	High	10.14435, 77.09782	15 KM/Hr
125	Turn	High	10.14574, 77.09732	15 KM/Hr
126	Turn	High	10.14594, 77.09543	15 KM/Hr
127	Turn	Medium	10.14737, 77.09471	30 KM/Hr
128	Blind Spot	Blind Spot	10.14909, 77.09484	10 KM/Hr
129	Turn	Medium	10.14905, 77.09244	30 KM/Hr
130	Turn	Medium	10.14608, 77.08760	30 KM/Hr
131	Turn	Medium	10.14645, 77.08626	30 KM/Hr
132	Turn	Medium	10.15044, 77.08179	30 KM/Hr
133	Turn	High	10.15100, 77.07964	15 KM/Hr
134	Blind Spot	Blind Spot	10.15187, 77.07916	10 KM/Hr
135	Turn	High	10.15095, 77.07837	15 KM/Hr
136	Turn	High	10.15179, 77.07646	15 KM/Hr
137	Turn	Medium	10.14930, 77.07162	30 KM/Hr
138	Turn	High	10.14356, 77.06753	15 KM/Hr
139	Turn	High	10.14365, 77.06569	15 KM/Hr
140	Turn	High	10.14289, 77.06490	15 KM/Hr
141	Blind Spot	Blind Spot	10.14122, 77.06507	10 KM/Hr
142	Turn	High	10.14162, 77.06367	15 KM/Hr
143	Turn	Medium	10.13889, 77.06255	30 KM/Hr
144	Turn	Medium	10.13699, 77.05968	30 KM/Hr
145	Turn	High	10.13420, 77.05897	15 KM/Hr
146	Turn	High	10.13381, 77.05735	15 KM/Hr
147	Blind Spot	Blind Spot	10.13423, 77.05697	10 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
148	Turn	Medium	10.13300, 77.05587	30 KM/Hr
149	Blind Spot	Blind Spot	10.12571, 77.05477	10 KM/Hr
150	Blind Spot	Blind Spot	10.12770, 77.05651	10 KM/Hr
151	Turn	High	10.12429, 77.05789	15 KM/Hr
152	Turn	Medium	10.09753, 77.05753	30 KM/Hr
153	Turn	Medium	10.09077, 77.06048	30 KM/Hr
154	Turn	Medium	10.08708, 77.06005	30 KM/Hr

Risk Assessment - Elevation Changes

	Risk Type	Specific Risk	Risk Level	Coordinates	Speed Limit
0	Elevation Change	Ascent	Medium	10.3762902285697, 77.21914810831215	30 KMS/Hr
1	Elevation Change	Ascent	Medium	10.30828094774277, 77.19298685717881	30 KMS/Hr
2	Elevation Change	Ascent	High	10.30483419513887, 77.1820033612966	15 KMS/Hr
3	Elevation Change	Ascent	Medium	10.15358881947744, 77.11295666103688	30 KMS/Hr
4	Elevation Change	Ascent	Medium	10.14370818293716, 77.10734594180778	30 KMS/Hr
5	Elevation Change	Descent	Medium	10.14462048591514, 77.06828910668273	30 KMS/Hr
6	Elevation Change	Descent	Medium	10.12144699140097, 77.05712779712333	30 KMS/Hr

Emergency Locations

	type	name		coordinates	speed_limit	risk_level
0	hospital	Saraswathi Hospital		11.0069868, 77.071368	30 km/h	Medium
1	clinic	Dr. V. Ramakrishnan Clinic		11.0086635, 77.081108	30 km/h	Medium
4	pharmacy	Apollo Pharmacy		10.5860212, 77.2456546	30 km/h	Medium
5	hospital	Anitha Hospital		10.58568, 77.248727	30 km/h	Medium
6	hospital	Government Hospital, Udumalpet		10.5836488, 77.247474	30 km/h	Medium
7	hospital	Lakshmi Hospital, Udumalai		10.5824125, 77.2476474	30 km/h	Medium
12	police	Police Station, Marayoor		10.2742943, 77.1611694	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
13	hospital	Adams Hospital	10.2752593, 77.1611909	30 km/h	Medium
14	police	Police Station , Marayoor	10.2742791, 77.1610926	30 km/h	Medium
17	police	Devikulam Police Station	10.1522359, 77.0838923	30 km/h	Medium
18	hospital	Tata Tea Hospital	10.142072, 77.064757	30 km/h	Medium
19	hospital	KDHP Estate Hospital, Periyavarai	10.1096656, 77.0604785	30 km/h	Medium
23	pharmacy	Munnar Medicals	10.0863986, 77.0608884	30 km/h	Medium
24	clinic	Aruns Hospital	10.0876059, 77.06114	30 km/h	Medium

Crowded Spots

	type	name	coordinates	speed_limit	risk_level
2	college	Kalaignar Karunanidhi Institute of Technology	10.9992121, 77.0842214	30 km/h	Medium
3	college	N.V. Polytechnic College	10.6817421, 77.2187617	30 km/h	Medium
8	school	Government High School, Marayoor	10.2778301, 77.1659084	30 km/h	Medium
9	school	St Mary's Upper Primary School, Marayoor	10.2795575, 77.1642732	30 km/h	Medium
10	school	Government Lower Primary School, Marayoor	10.2754093, 77.1598548	30 km/h	Medium
11	school	Tribal School, Puthukudi	10.2761757, 77.1613749	30 km/h	Medium
15	school	Aided Lower Primary School, Gundumalai	10.1750645, 77.1045385	30 km/h	Medium
16	school	Government Higher Secondary School, Vaguvarrai	10.1687795, 77.1016639	30 km/h	Medium
20	marketplace	Munnar vegetable market	10.0879964, 77.0606157	30 km/h	Medium
21	marketplace	Main Market	10.08797, 77.0606856	30 km/h	Medium
22	school	Aided Lower Primary School, Nadayar	10.0860626, 77.05875	30 km/h	Medium

Route Photos of Risky Spots



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.03167, 77.07758



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.03055, 77.07622



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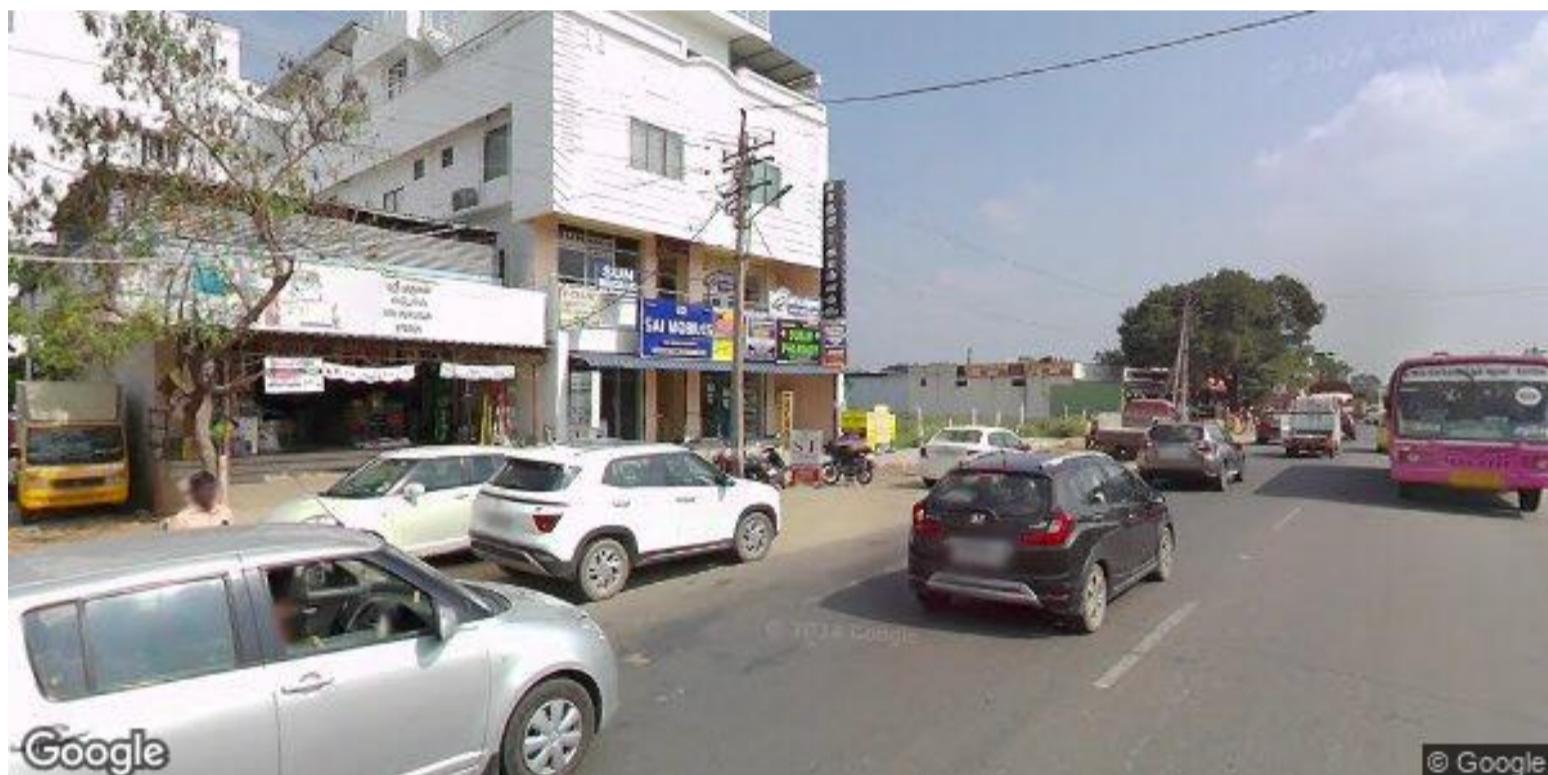
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Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 11.00778, 77.07085



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.00970, 77.07926



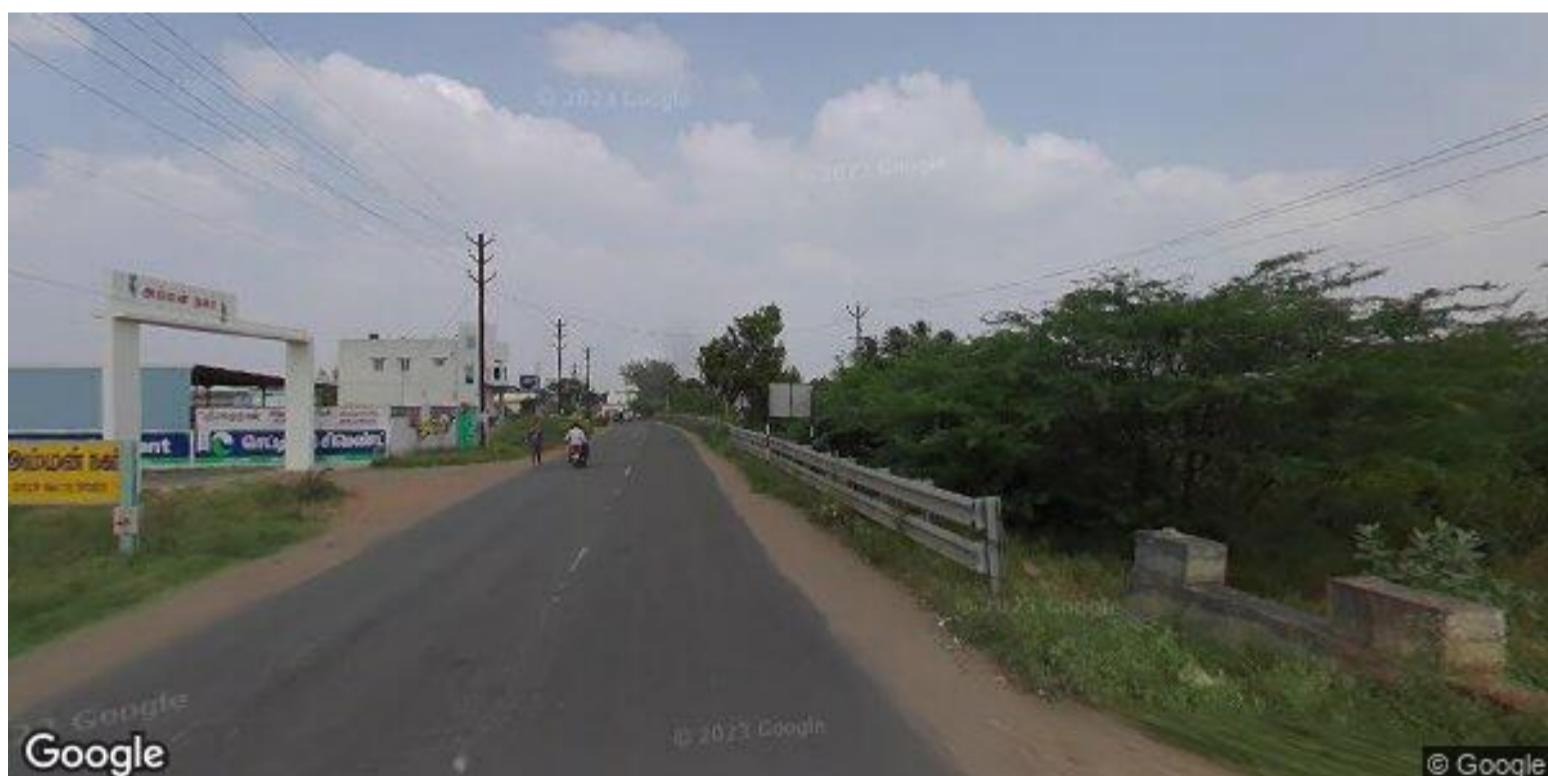
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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.00917, 77.08041



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.99738, 77.08237



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.97360, 77.09184



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.96594, 77.09921



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.94272, 77.10720



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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.94276, 77.10941



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.92306, 77.11552



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.92028, 77.11981



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.91090, 77.12292



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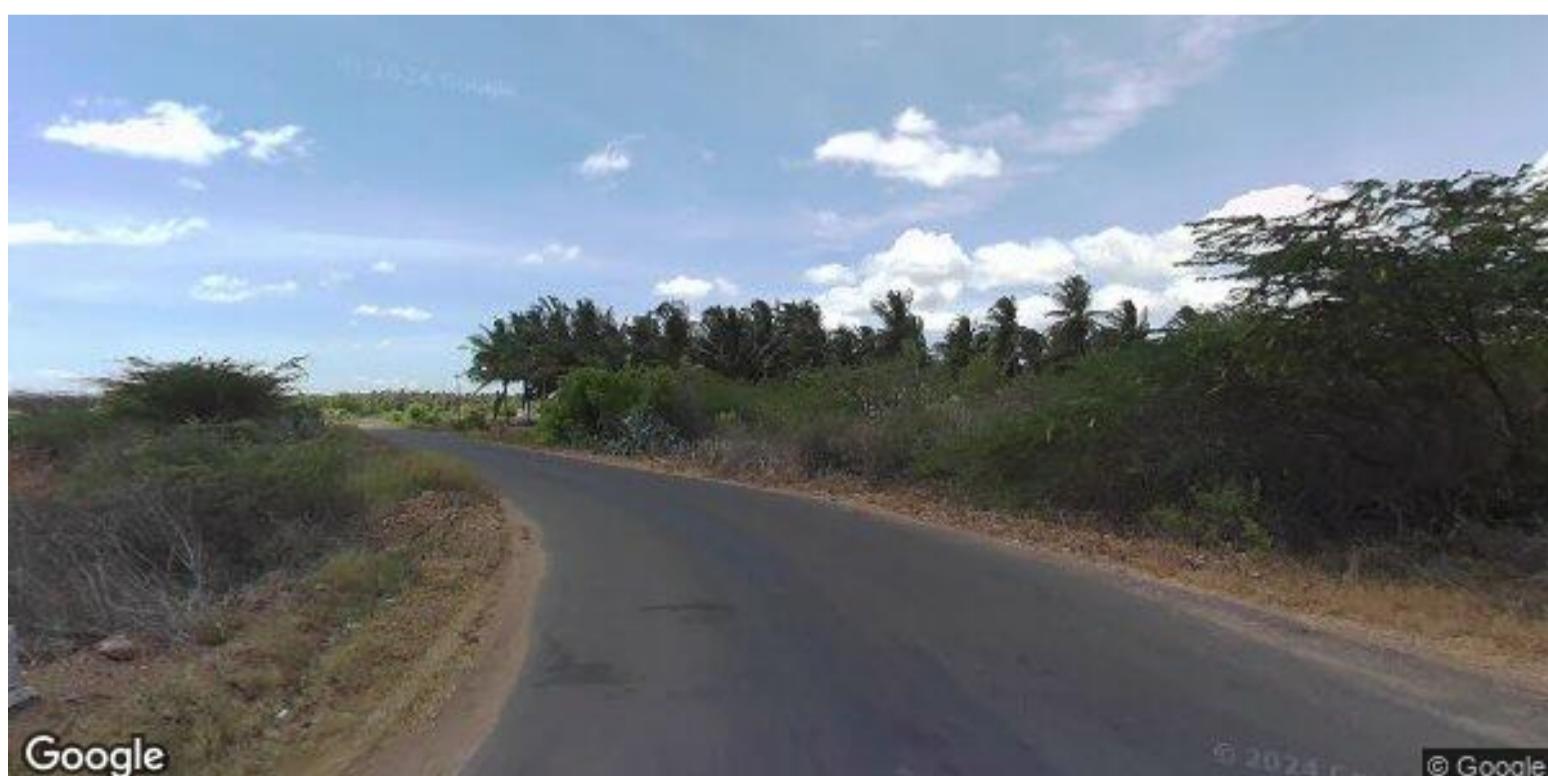
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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.91150, 77.12446



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Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.89746, 77.13706



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.89576, 77.13993



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.89229, 77.14179



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.89236, 77.14497



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Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 10.88389, 77.14983



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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.88482, 77.15121



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.86246, 77.15729



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.86394, 77.17330



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.85611, 77.18752



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.85684, 77.18932



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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.85538, 77.19202



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.85154, 77.19263



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.84892, 77.19481



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.83354, 77.19364



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.69624, 77.21280



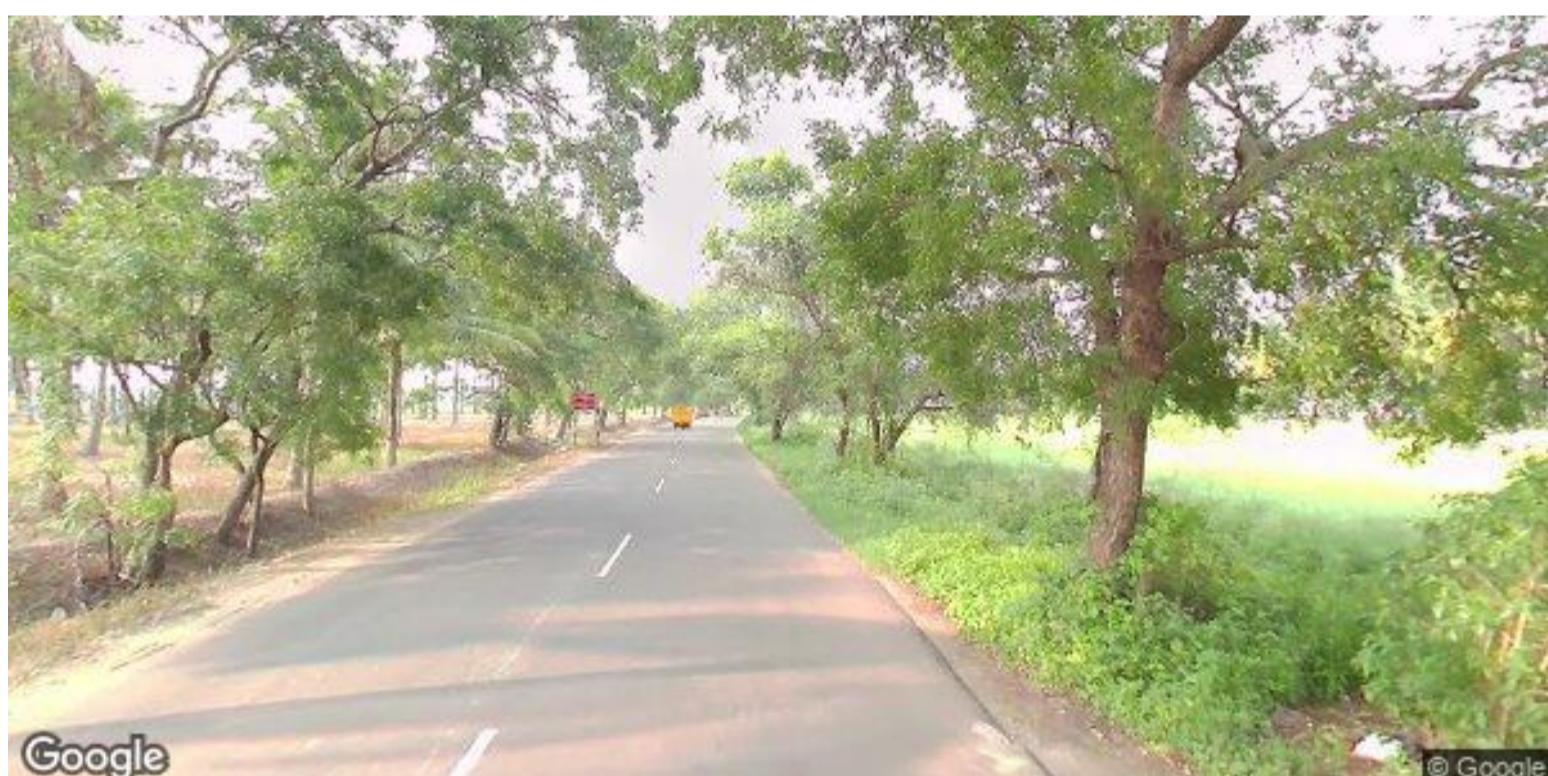
Google

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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.69501, 77.21413



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.66554, 77.22443



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.66375, 77.22416



Google

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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.64948, 77.23017



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.64723, 77.23411



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.64349, 77.23376

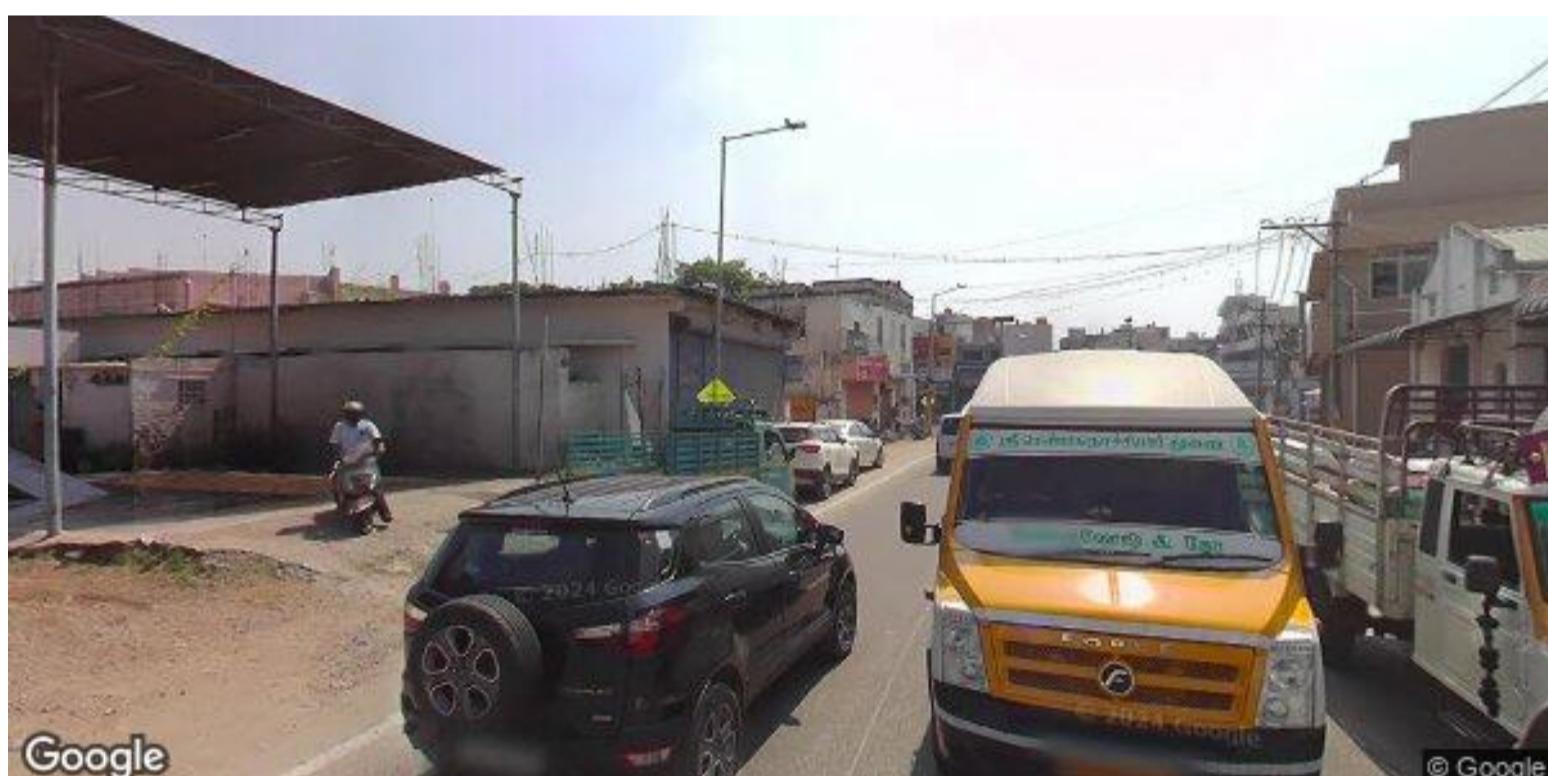


Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.63156, 77.24369



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.58878, 77.24502



Google

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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.58790, 77.24599



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.53554, 77.22432



Google

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Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.53091, 77.22008



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.52429, 77.22645



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.50938, 77.22707



Google

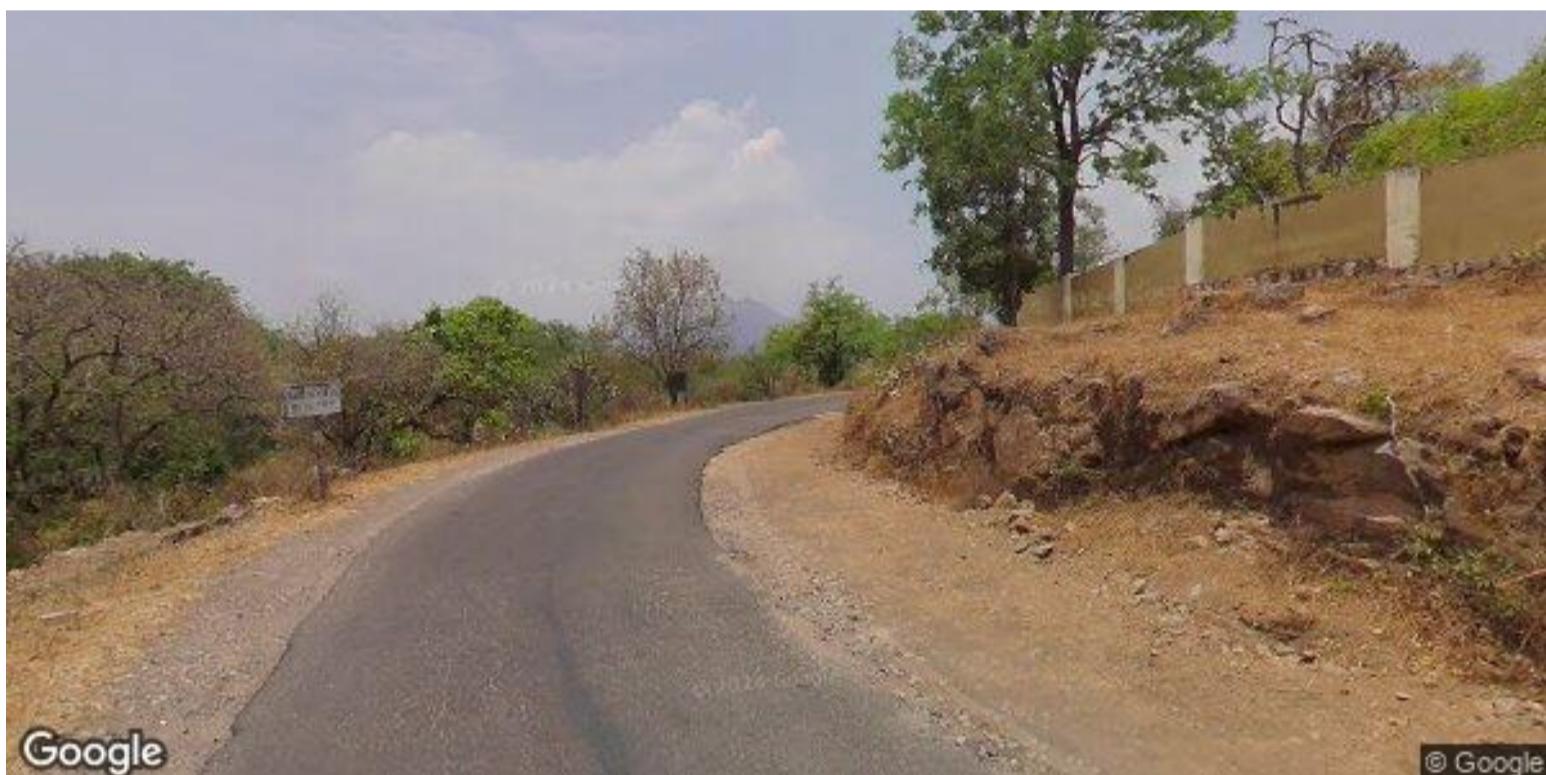
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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.49225, 77.24038



Google

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Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 10.35338, 77.22168



Google

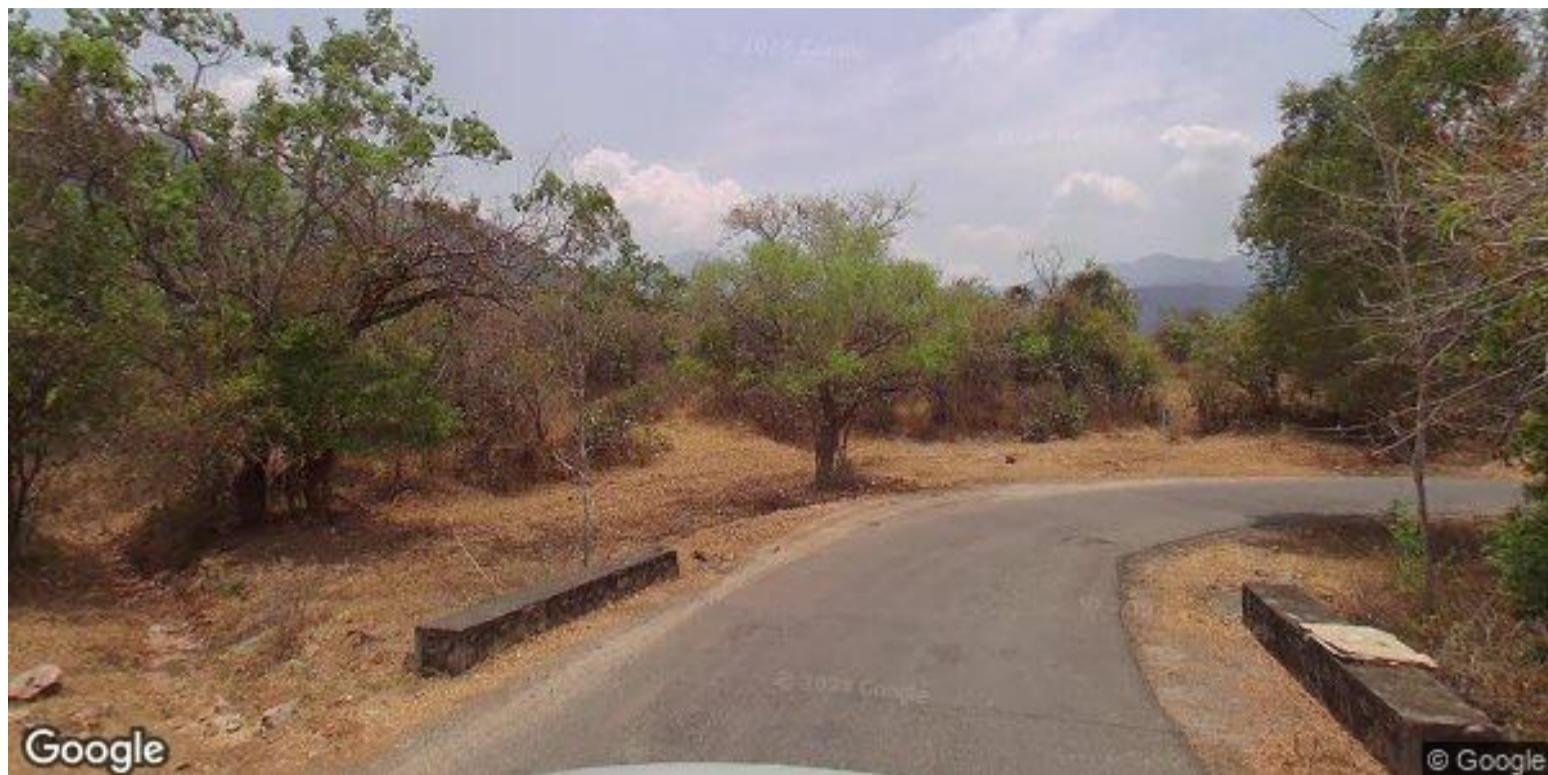
© Google

Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.34974, 77.22149



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.34589, 77.21916



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.34366, 77.21996



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.34111, 77.21962



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.33726, 77.21743



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.33551, 77.21759



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.33176, 77.21414

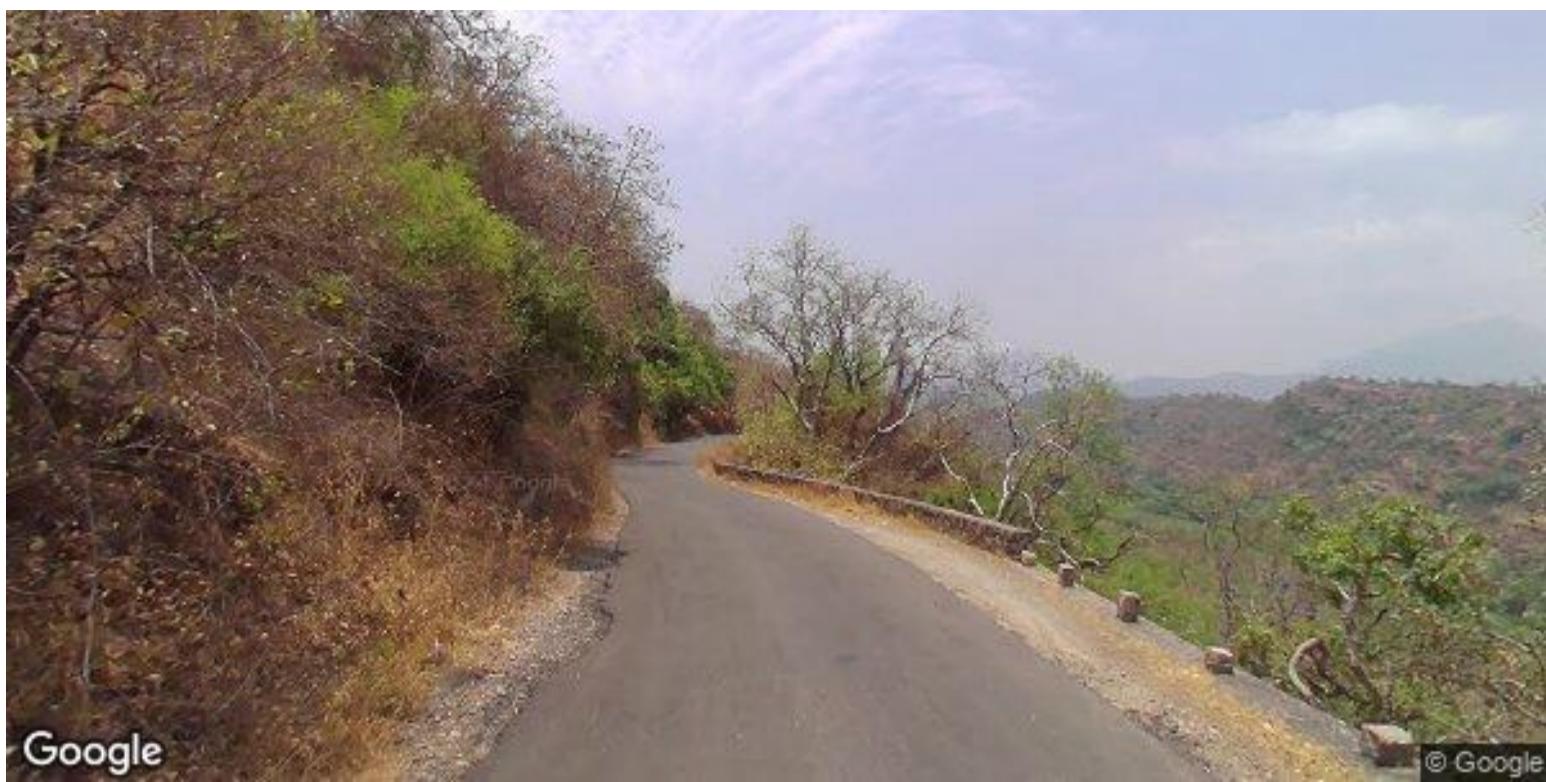


Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.32965, 77.21405



Google

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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.31458, 77.19589



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

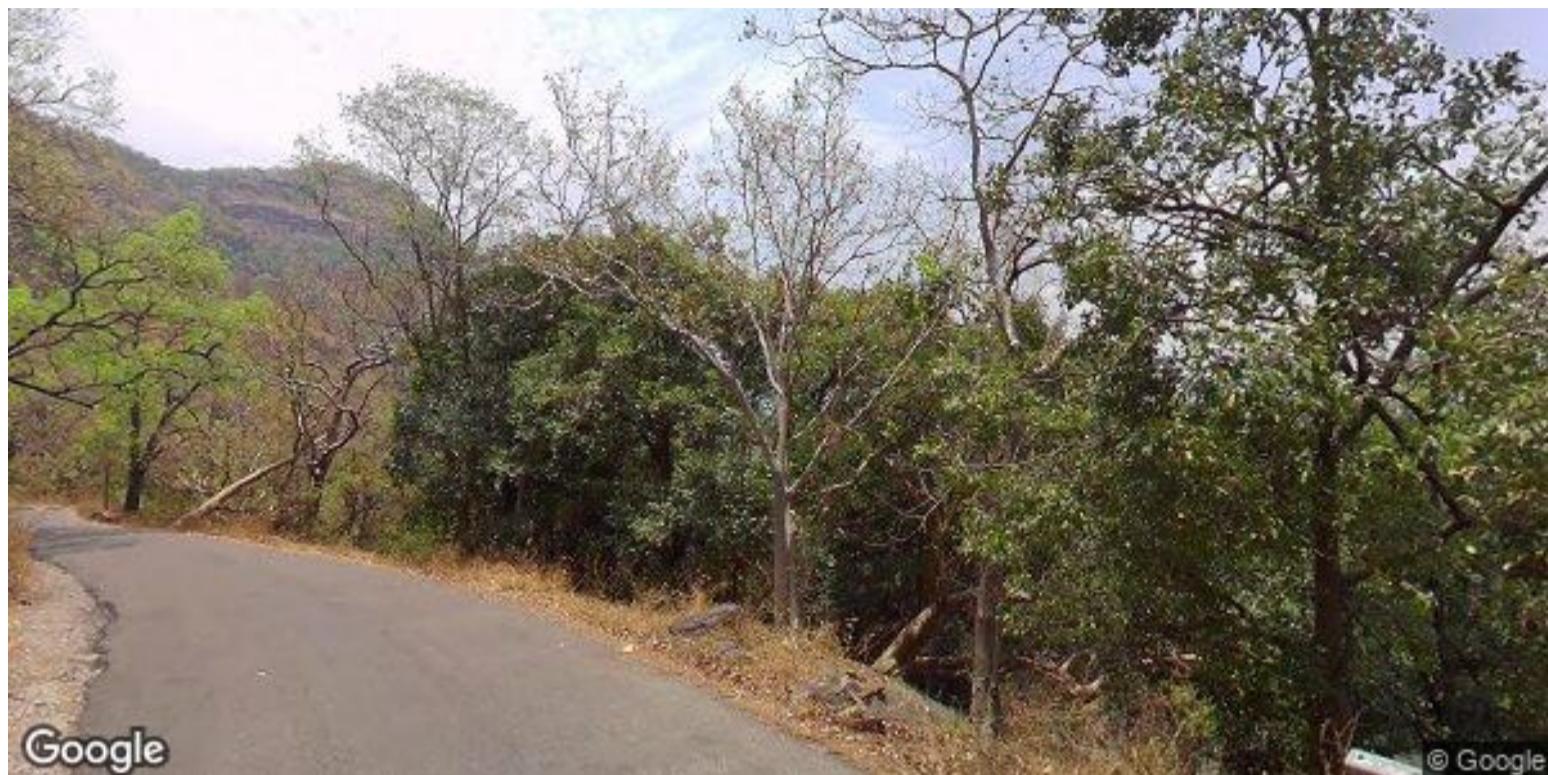
Coordinates: 10.31491, 77.19414



Google

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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.31421, 77.19243



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.31220, 77.19201



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.30955, 77.19383



Google

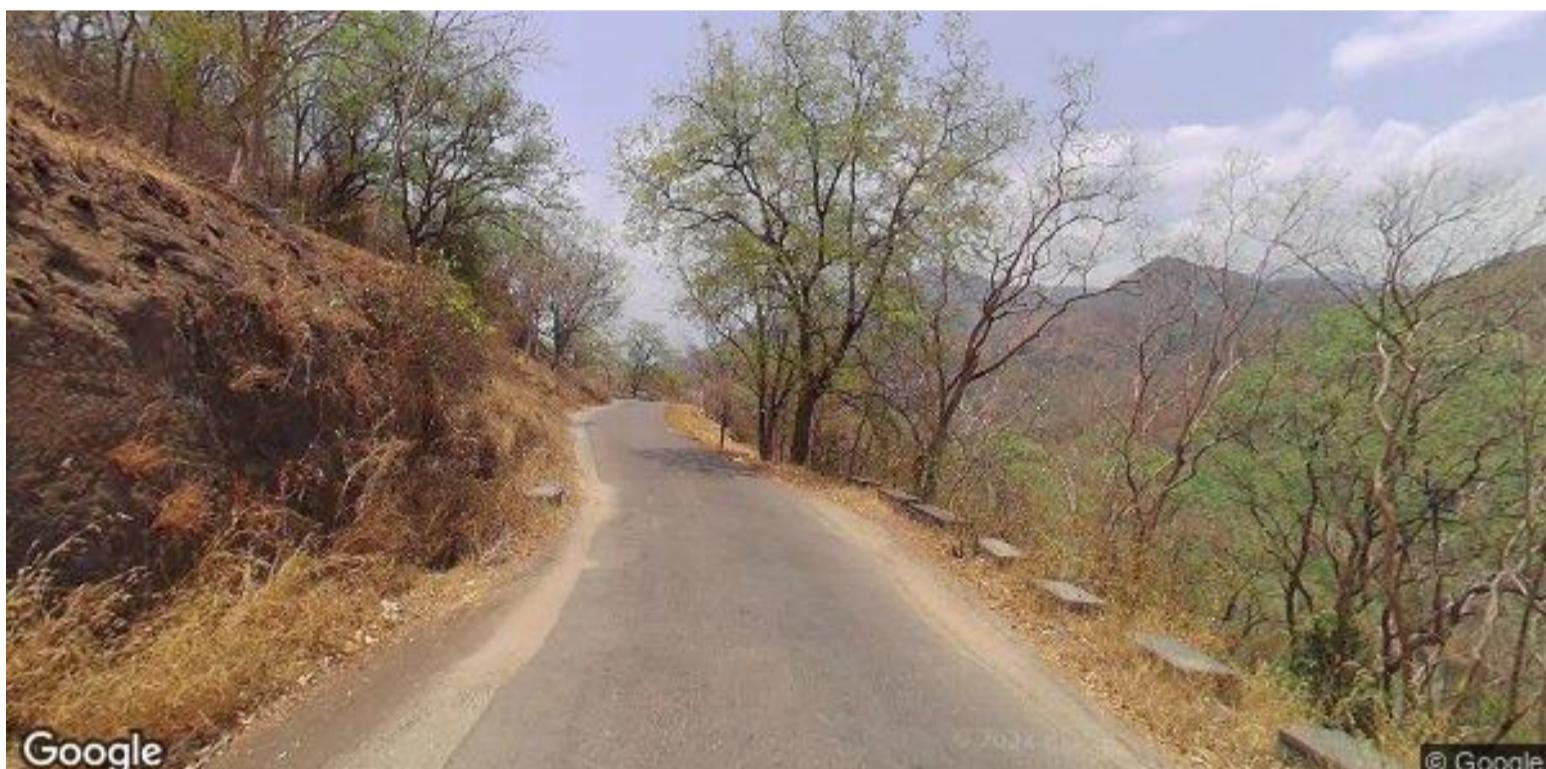
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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.30331, 77.18973



Google

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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.30224, 77.18762



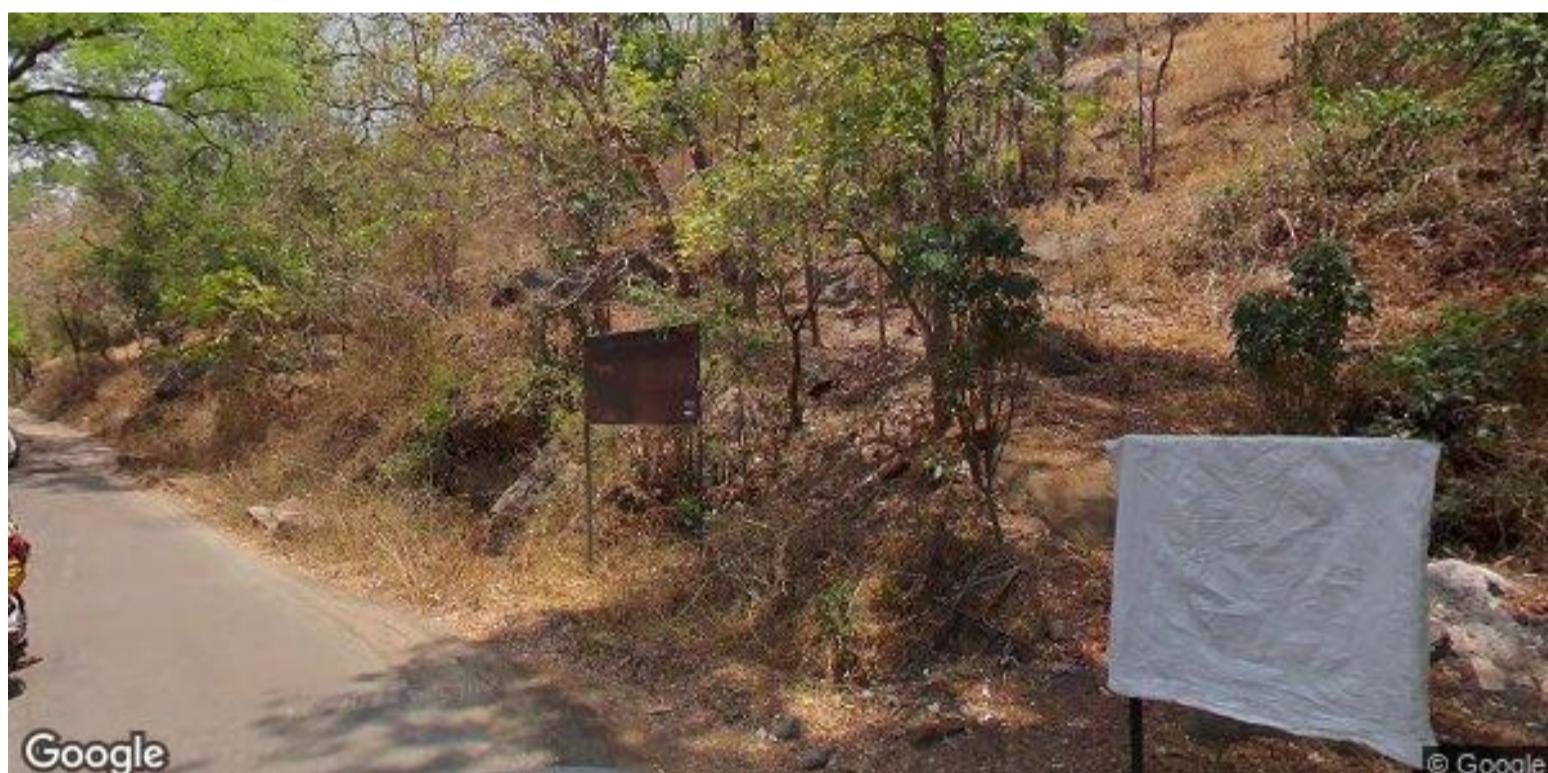
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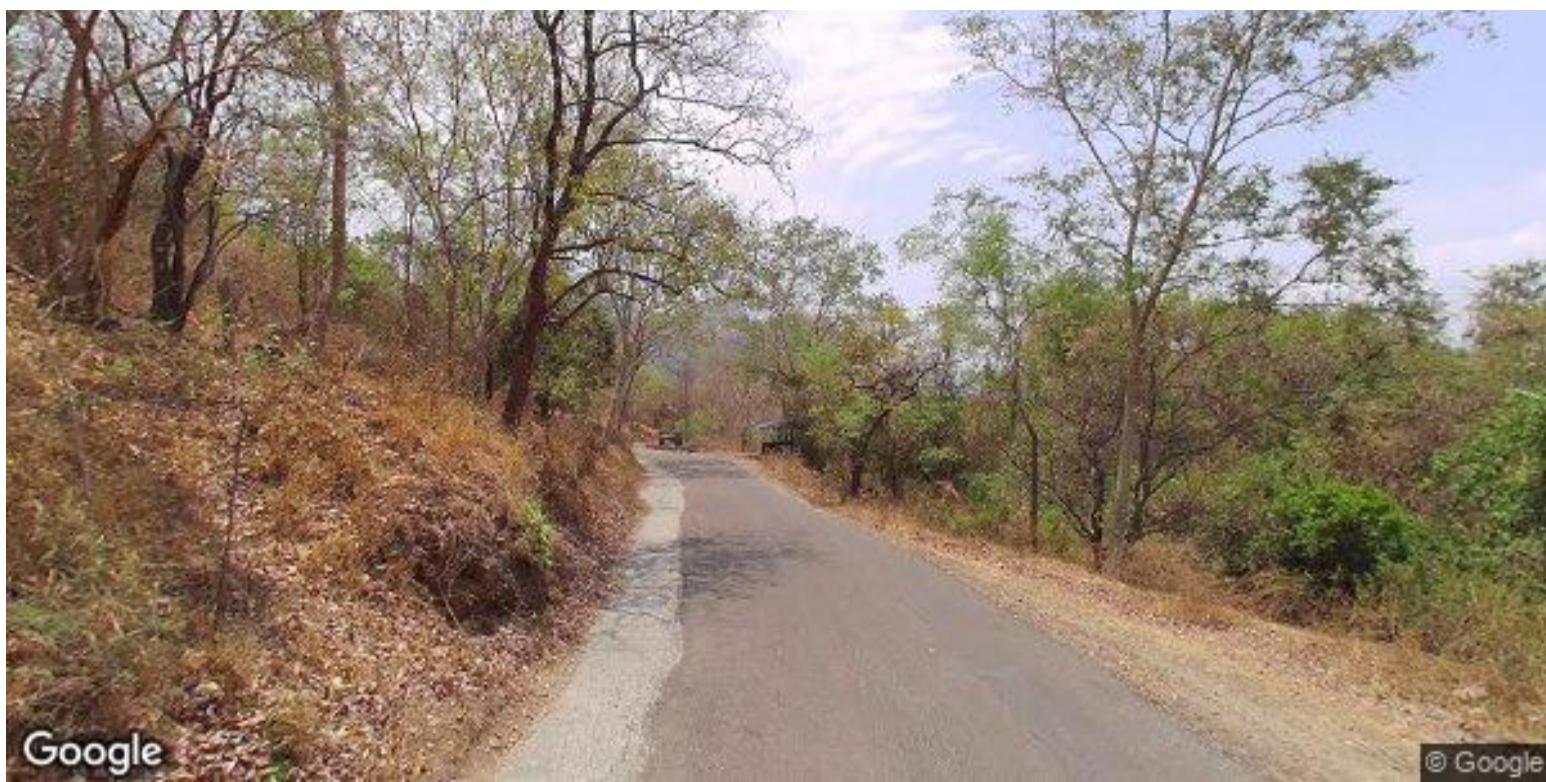
Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.30367, 77.18641



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.30961, 77.18665



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.31072, 77.18509



Google

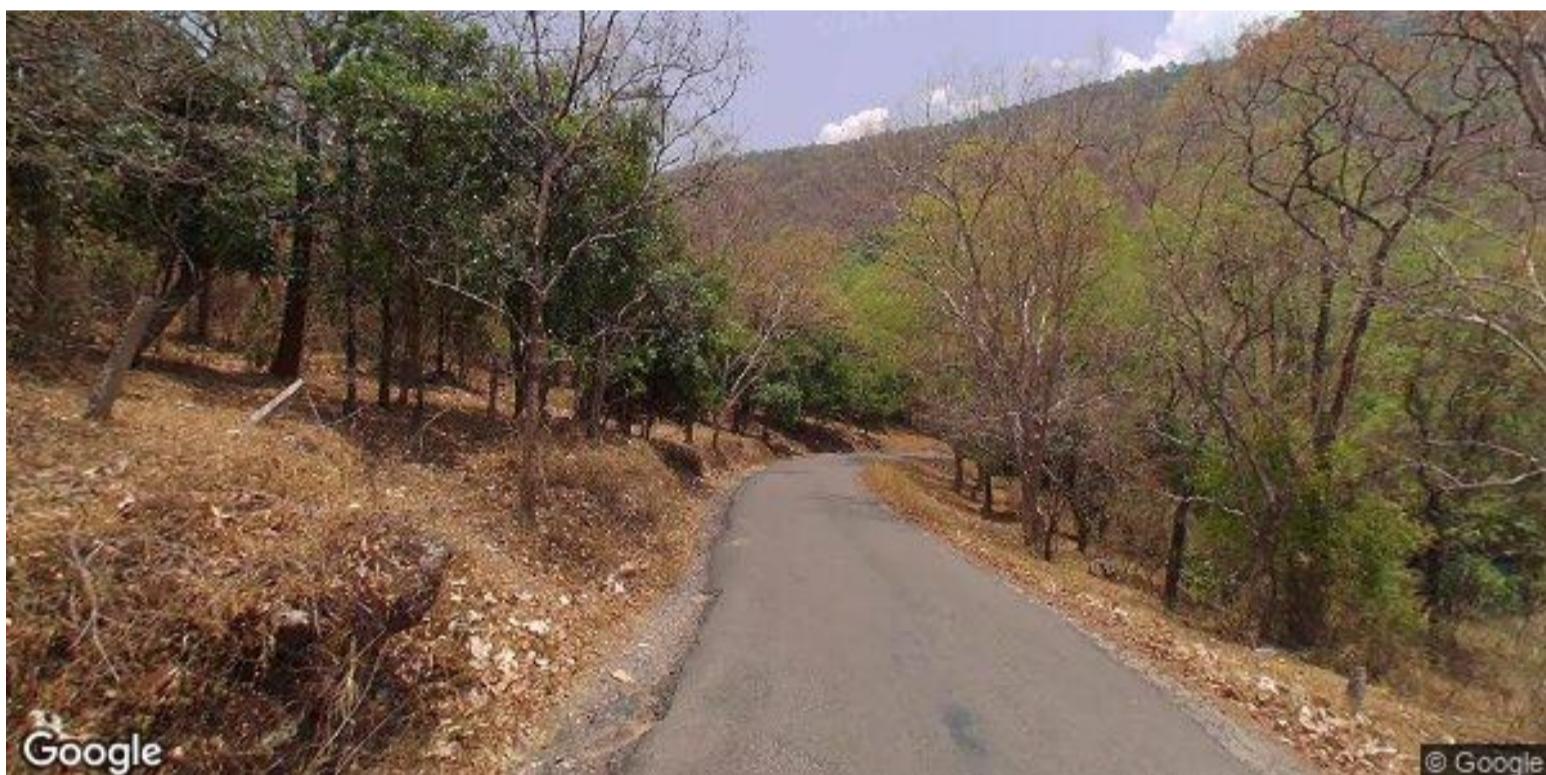
© Google

Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.30472, 77.18193



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.30380, 77.18259



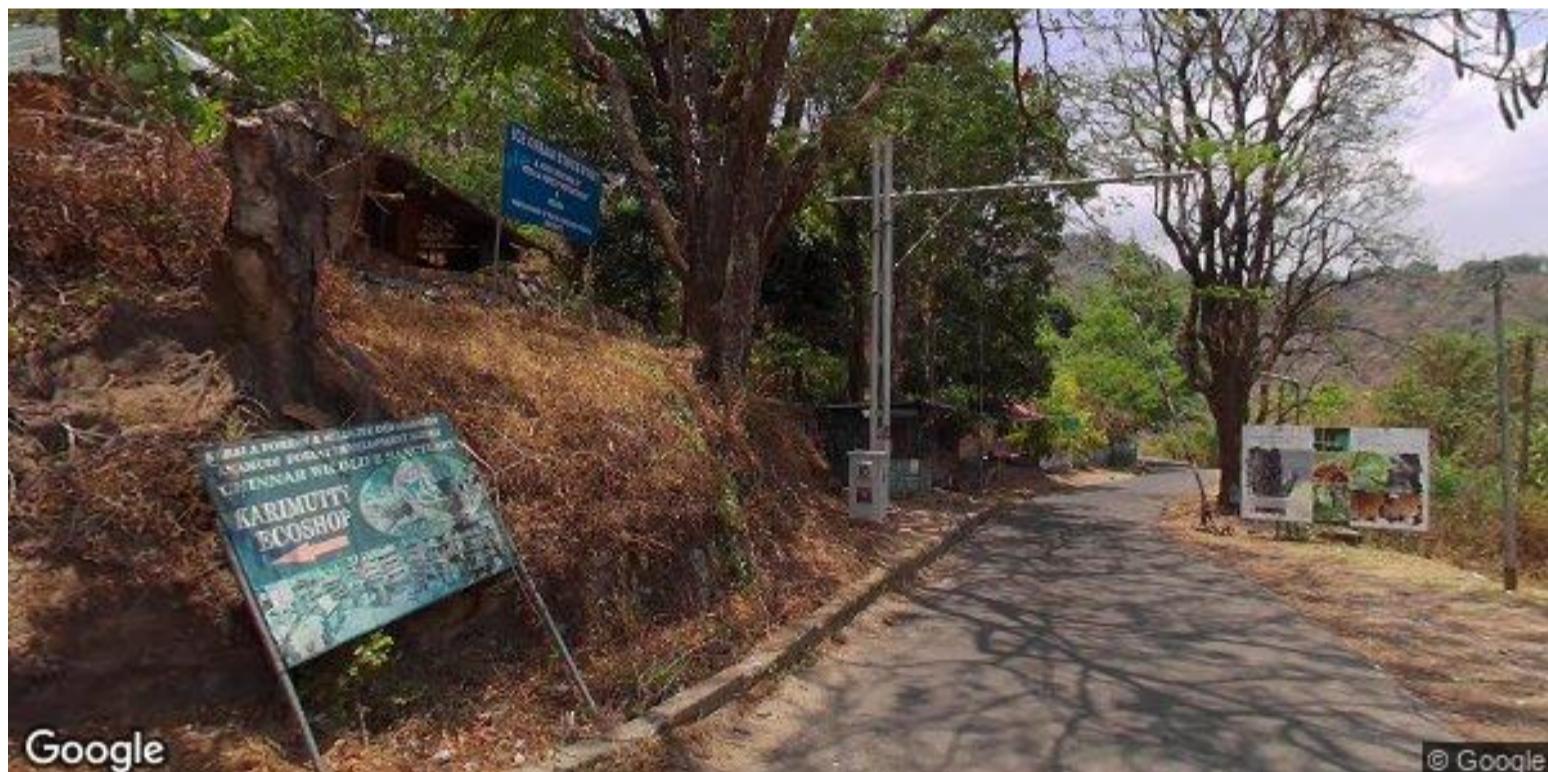
Google

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Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.29806, 77.18207



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.28807, 77.17082



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.28974, 77.16913



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.28855, 77.16806



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.28577, 77.16779



Google

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Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.28339, 77.16556



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.28194, 77.16803



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.27909, 77.16682



Google

Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.27653, 77.16187



Google

Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 10.27009, 77.15531



Google

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Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.26897, 77.15630



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.26923, 77.15433



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.26067, 77.15195



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.25990, 77.15088



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.25761, 77.15054



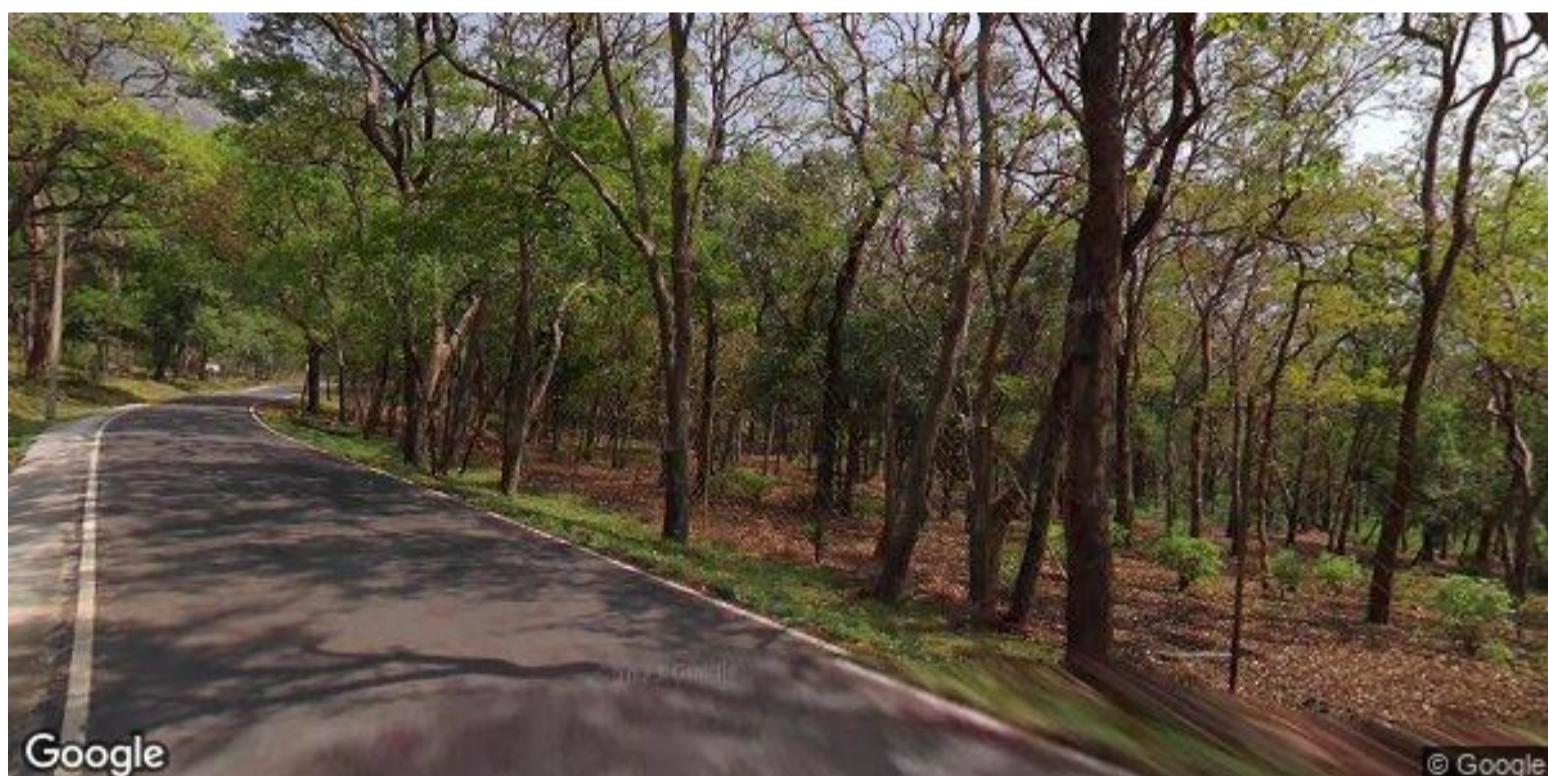
Google

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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.25668, 77.14938



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.25288, 77.14913



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.25021, 77.15115



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.24638, 77.14775



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.24476, 77.14785



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.23971, 77.14500



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.23924, 77.14357



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.23489, 77.14013



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.21397, 77.13297



Google

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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.21279, 77.13362



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.21166, 77.13233



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.20684, 77.13135



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.20397, 77.13229



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.19623, 77.12711



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.19517, 77.12426



Google

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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.19092, 77.12163



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.19040, 77.12023



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.19068, 77.11865



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.18690, 77.11668



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.18703, 77.11448



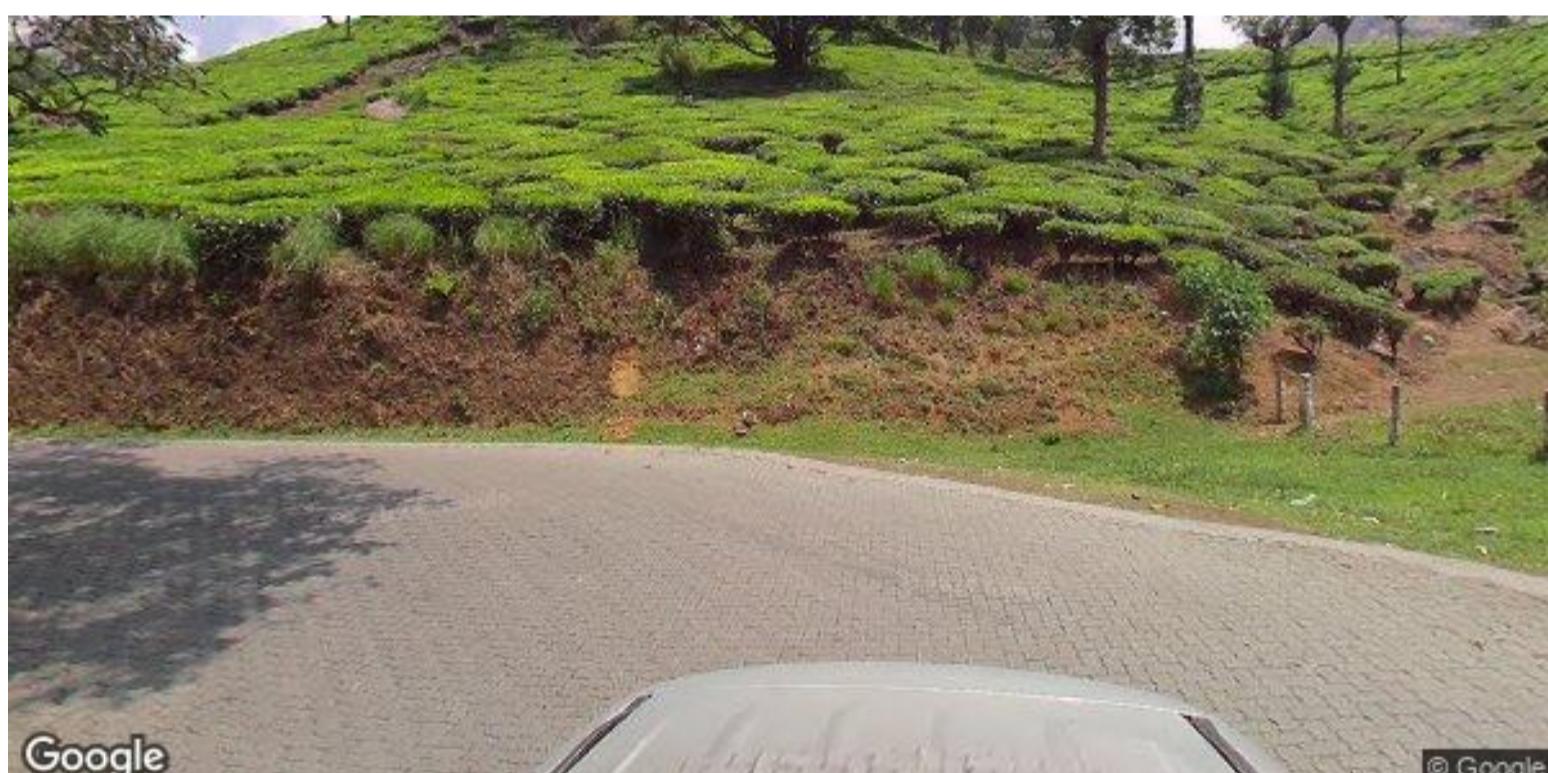
Google

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Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.18841, 77.11271



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.18609, 77.11348



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.18586, 77.11188



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.18286, 77.10967



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.18276, 77.10808



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.18045, 77.10698



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.17702, 77.10719

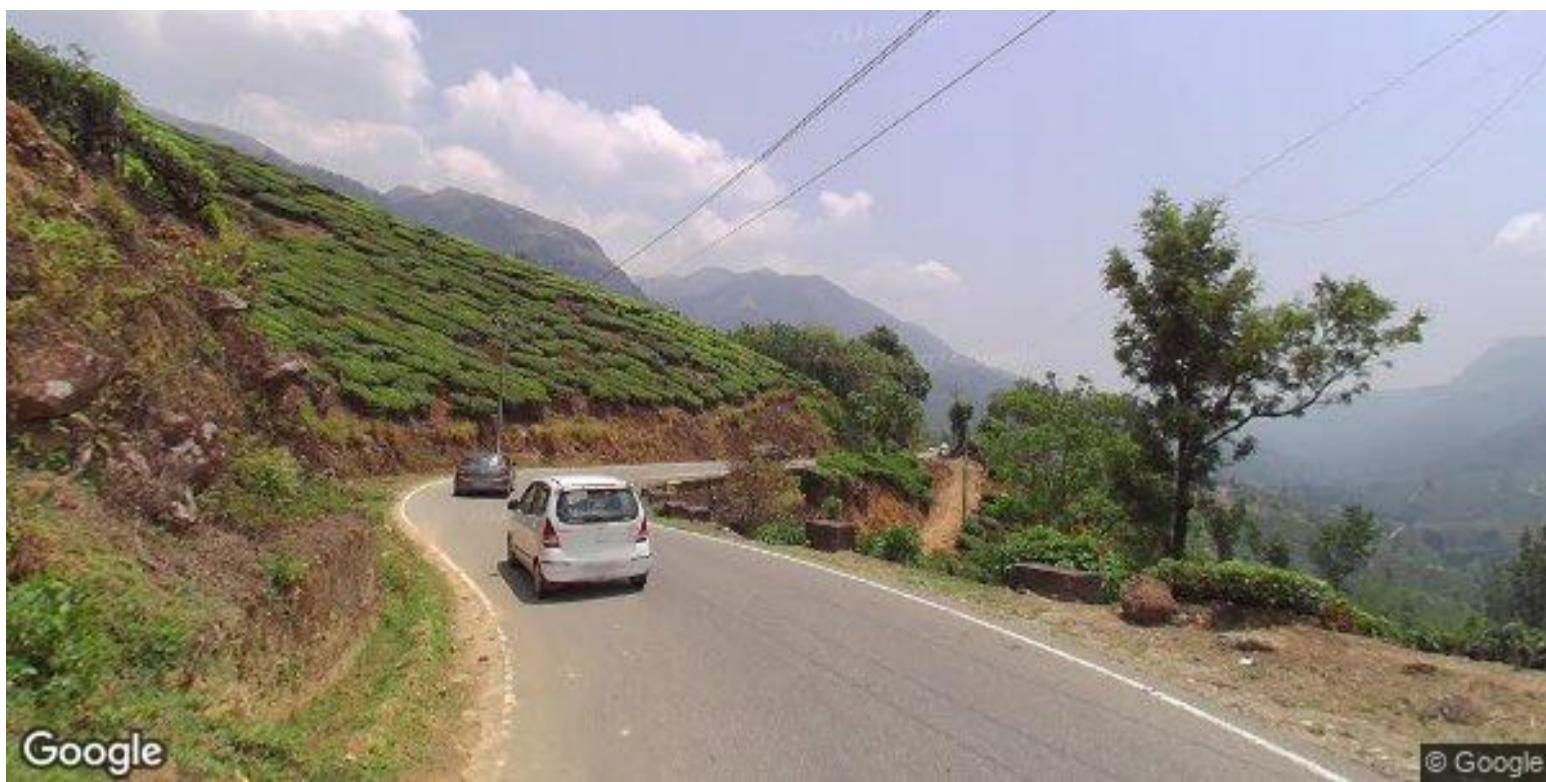


Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.17404, 77.10329



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.16926, 77.10431



Google

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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.16748, 77.10345



Google

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Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.15952, 77.10900



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.15641, 77.10915



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.15590, 77.11088



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.15644, 77.11263



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Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 10.15387, 77.11512



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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.15385, 77.11311



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.14571, 77.10895



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.14490, 77.10947



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.14288, 77.10482



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.14460, 77.09917



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.14435, 77.09782



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.14574, 77.09732



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.14594, 77.09543



Google

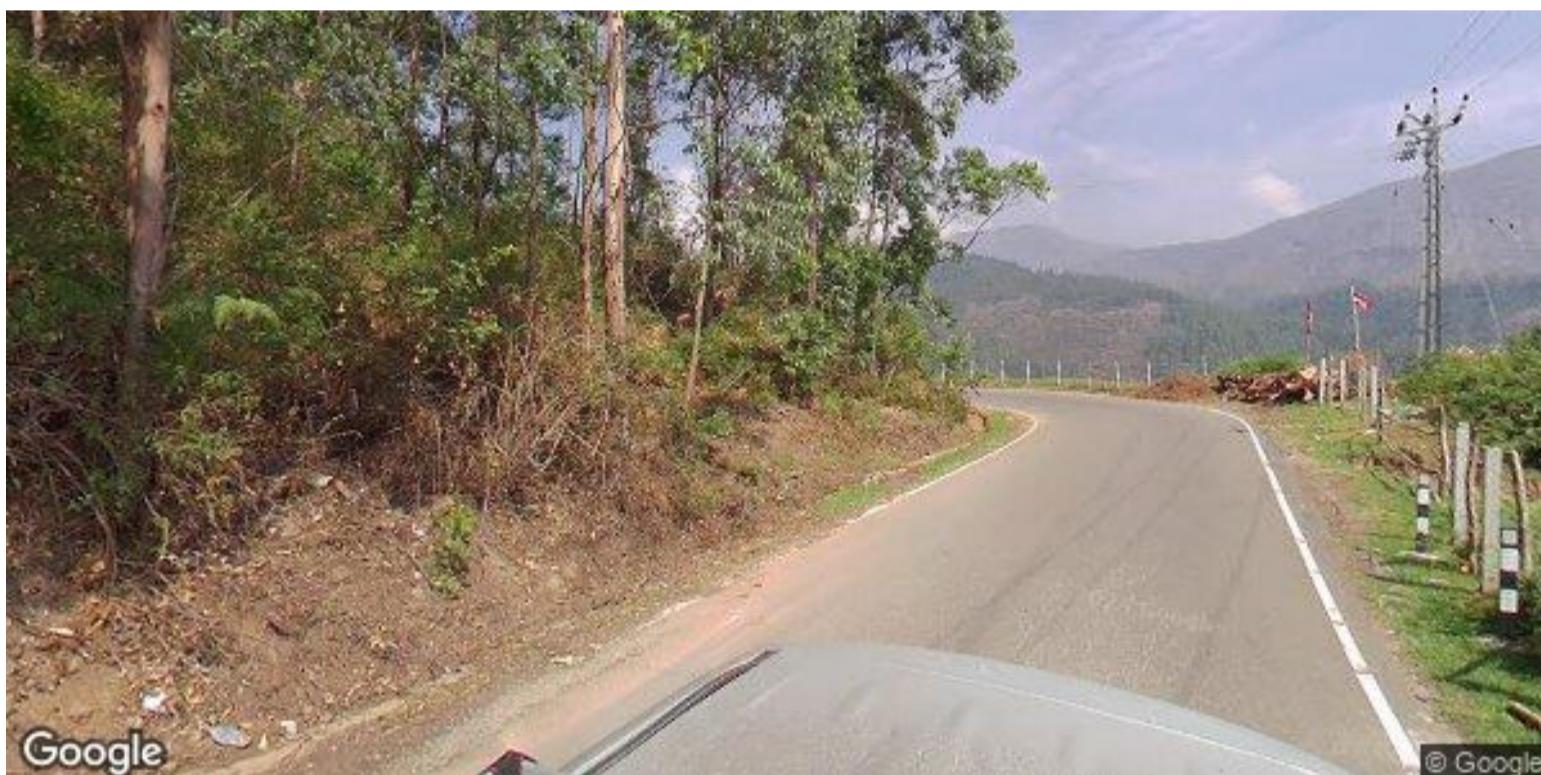
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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.14737, 77.09471



Google

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Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 10.14909, 77.09484



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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.14905, 77.09244



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.14608, 77.08760



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.14645, 77.08626



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.15044, 77.08179



Google

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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.15100, 77.07964



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Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.15187, 77.07916



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.15095, 77.07837



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.15179, 77.07646



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.14930, 77.07162



Google

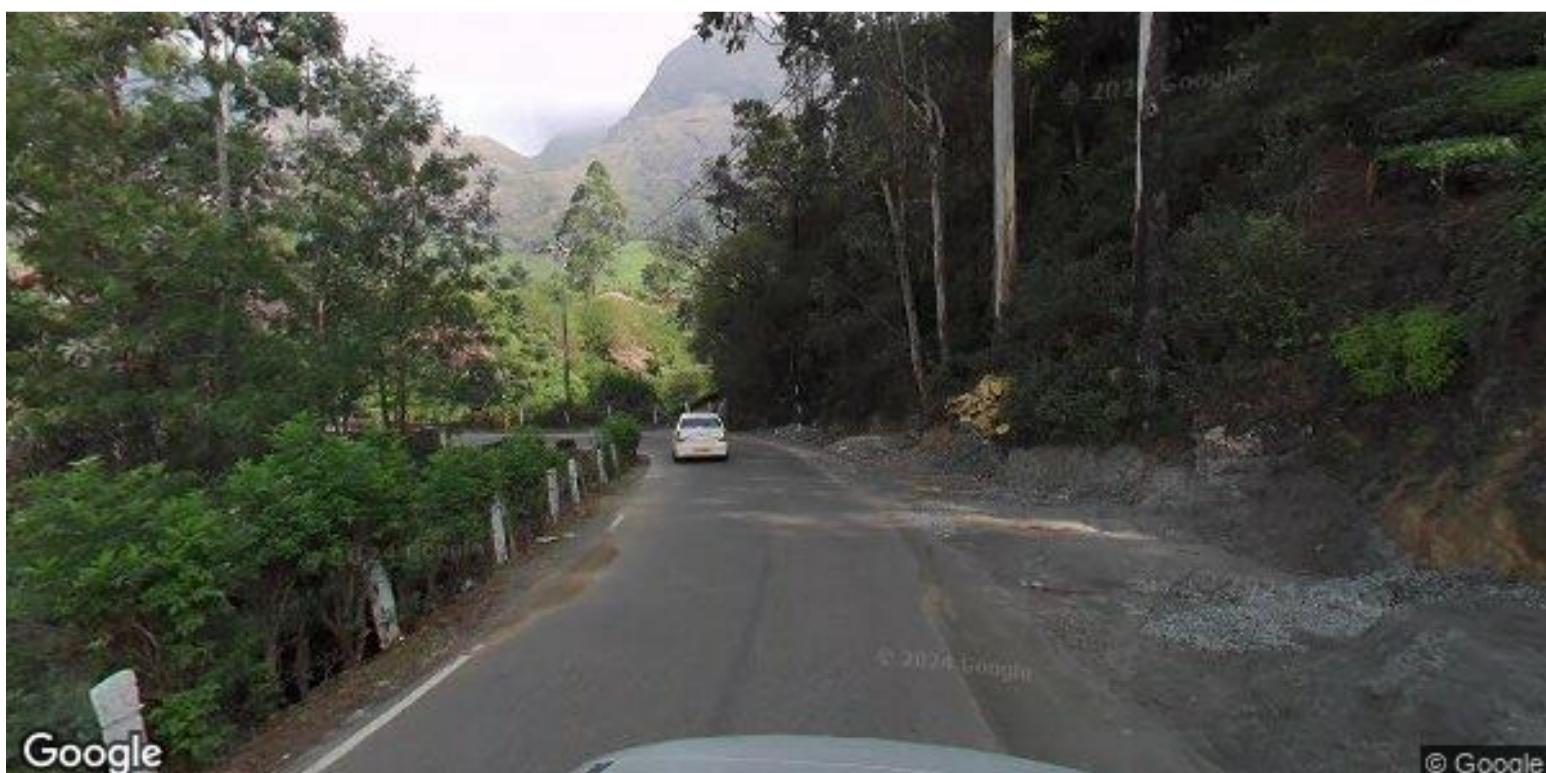
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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.14356, 77.06753



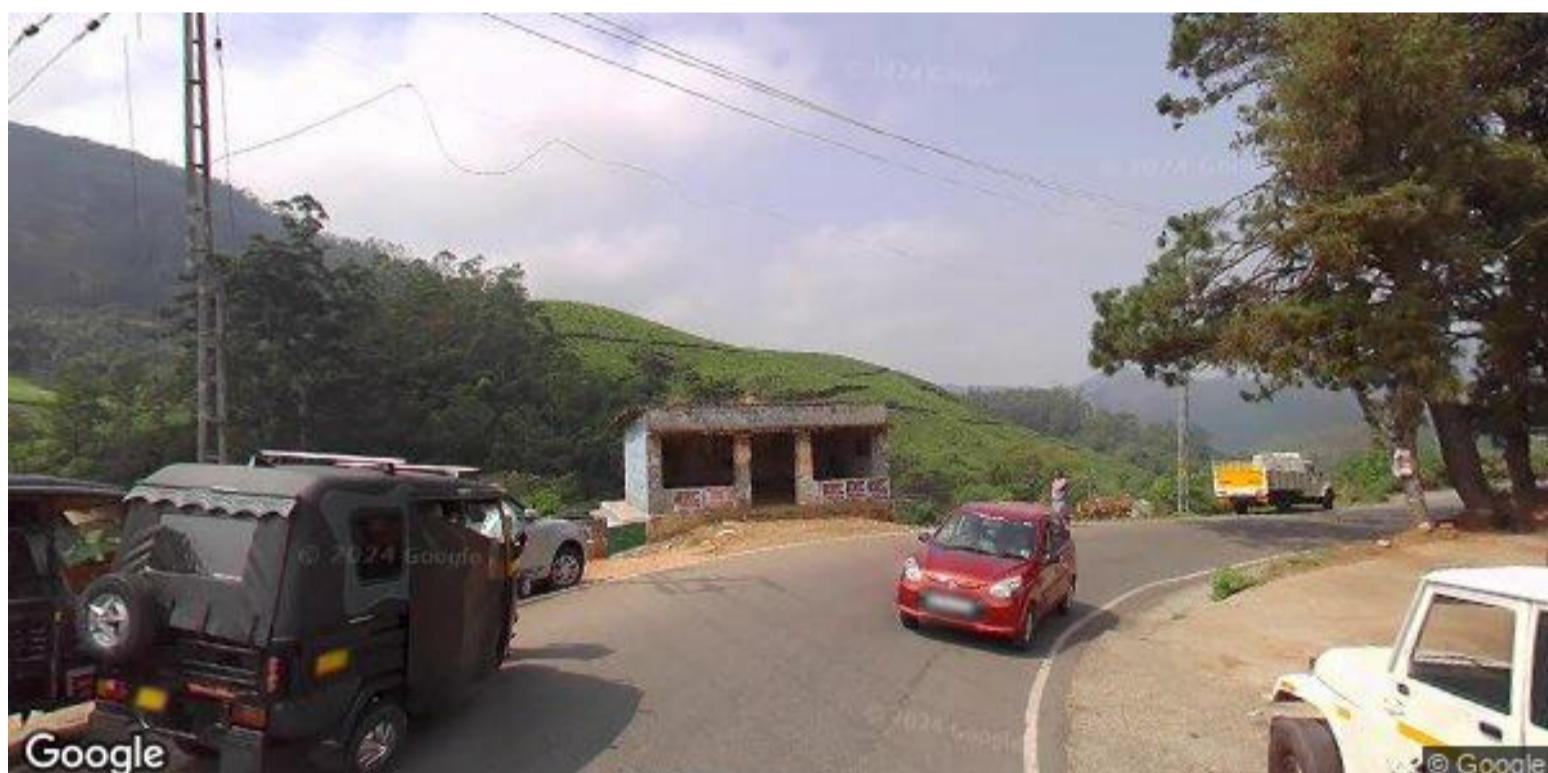
Google

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Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.14365, 77.06569



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.14289, 77.06490



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.14122, 77.06507



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Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 10.14162, 77.06367



Google

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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.13889, 77.06255



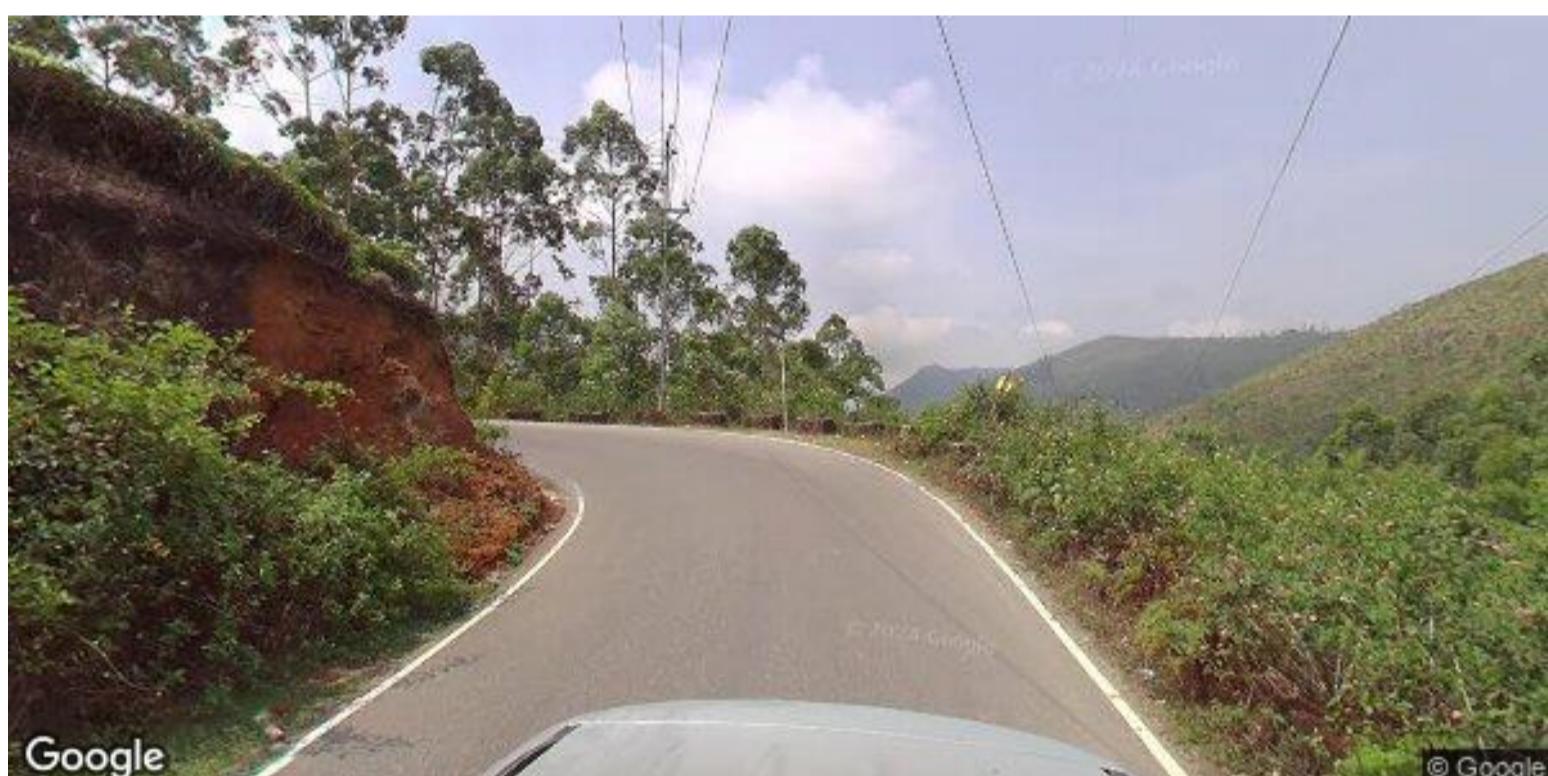
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Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.13699, 77.05968



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.13420, 77.05897



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.13381, 77.05735



Google

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Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 10.13423, 77.05697



Google

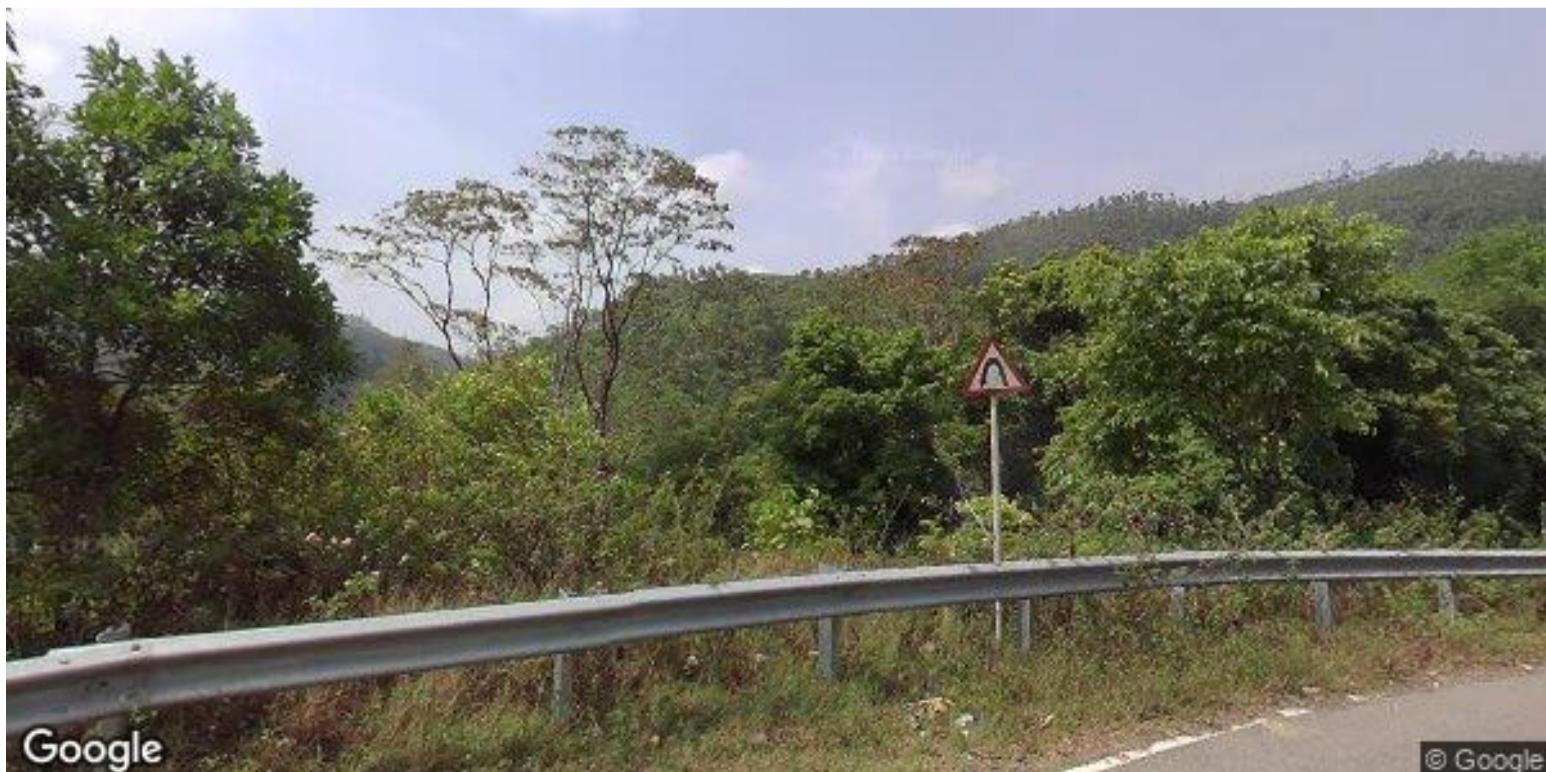
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Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.13300, 77.05587



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Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.12571, 77.05477



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 10.12770, 77.05651



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 10.12429, 77.05789



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.09753, 77.05753



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 10.09077, 77.06048



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 10.08708, 77.06005
