



IndianOil

JOURNEY RISK MANAGEMENT (JRM) STUDY

IOCL Coimbatore Terminal to Wheels India Ltd

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

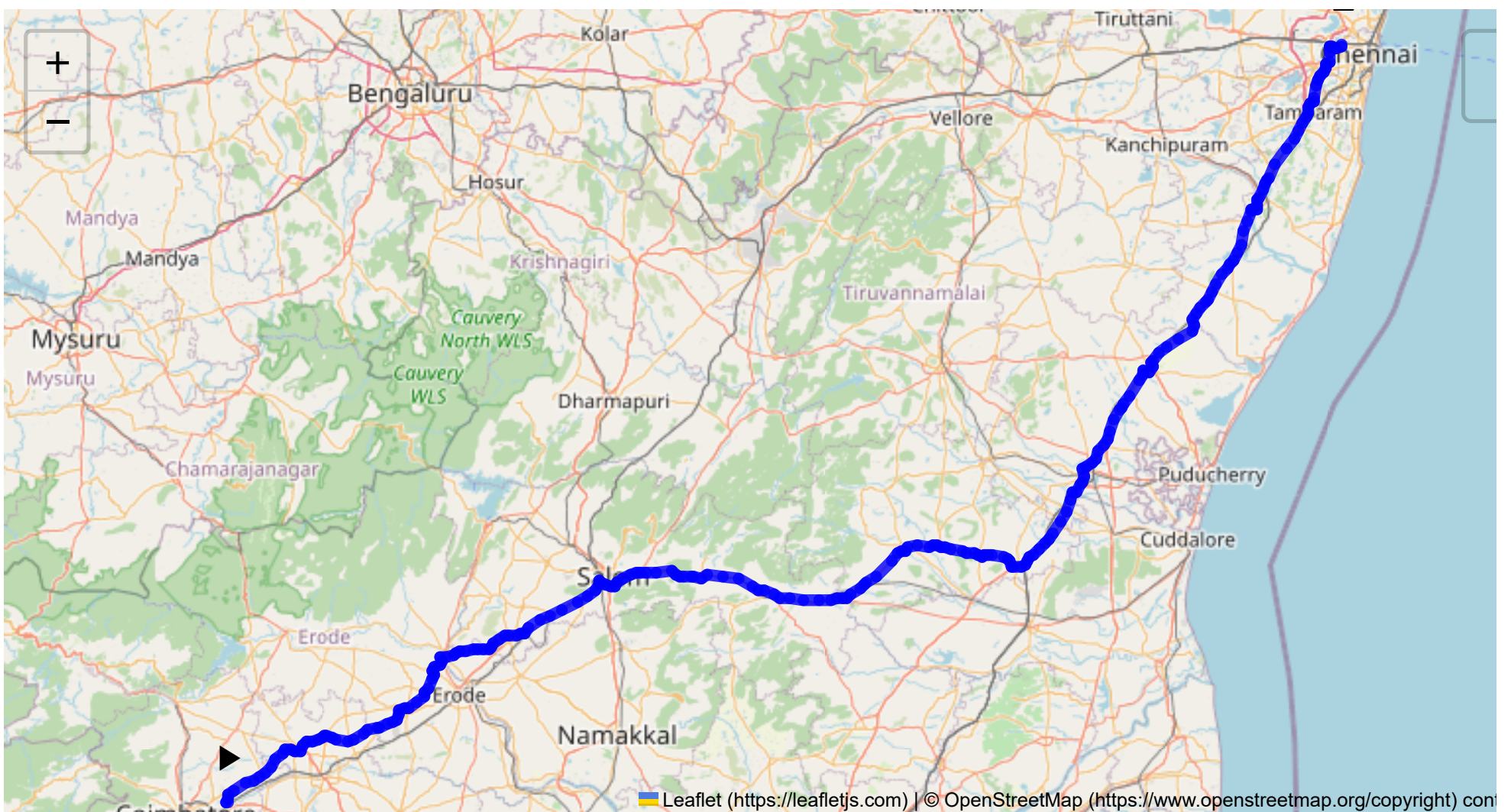
The report includes route-specific risk assessments, detailed journey charts, and defensive driving guidelines for each transport route. Integration with vehicle tracking systems guarantees real-time warnings on hazardous areas, speed limits, and mandatory stops, consistent with RTSP and CMVR safety 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: 492.65 km
Estimated Duration: 8.4 hours
Adjusted Duration (Heavy Vehicle): 10.5 hours
Start: (11.0315, 77.0797)
End: (13.104748, 80.193288)



Welcome to the Journey Risk Management Study

1. Overview of the Route Map

The route from Athappagoundenpudur, Coimbatore to TVS Industries, Padi, Chennai, via Ambattur Industrial Estate follows major highways, primarily the NH544 and NH48, before traversing through the urban areas of Chennai. This route is approximately 492.65 kilometers and includes both rural and densely populated urban sections.

2. Typical Weather Conditions and Potential Weather-Related Hazards

- **Seasonal Monsoon Rains** (June to September): Expect heavy rains, which can lead to waterlogging and reduced visibility.
- **Summer Heat** (March to May): High temperatures may affect vehicle performance and driver endurance.
- **Occasional Fog**: In the early mornings, especially during winter months (December to February).

3. Analysis of Traffic Patterns

- **Peak Hours**: Morning (8:00 - 10:00 AM) and evening (5:00 - 8:00 PM), especially around urban areas like Coimbatore and Chennai.
- **Congestion-Prone Areas**:
 - Inner-city areas of Coimbatore and Chennai.
 - Highway toll booths often have significant backups during peak travel times.

4. Assessment of Road Quality and Infrastructure

- **Highways**: Generally well-maintained, but vigilance is required for sudden potholes post-rains.
- **Urban Roads**: Varied quality; some sections prone to wear and require careful navigation.

5. Suggestions for Alternative Routes for Emergencies

- **Coimbatore Bypass via NH83**: Useful to avoid city traffic when entering or exiting Coimbatore.
- **Chennai Bypass (NH32/NH4)**: Bypasses the central city congestion but check traffic in Ambattur as it can become heavily congested.

6. Summary of Local Regulations Affecting Hazardous Material Transport

- Compliance with the Motor Vehicles Act, 1988 is mandatory.
- Ensure proper labeling and documentation of hazardous materials.
- Restrictions on hazardous material transport in certain urban areas during peak hours.

7. Overview of Historical Incidents

- Reports of heavy vehicle accidents have been noted, especially in the initial segments of NH544 due to speeding.
- Areas around Ambattur Industrial Estate have seen incidents involving poorly maintained trucks causing mishaps.

8. Environmental Considerations and Sensitive Areas

- **Reserved Forest Areas:** On some parts of NH544, wildlife crossing warning zones are common.
- **Urban Pollution:** Heavy vehicle traffic contributes to air quality issues in Chennai.

9. Analysis of Communication Coverage

- **Rural Segments:** Potentially patchy mobile network coverage, notably around less populated areas.
- **Urban Areas:** Generally strong network coverage, but congestion may affect signal quality.

10. Estimated Emergency Response Times

- **Rural Areas:** Response time may exceed 30-45 minutes due to distance and accessibility.
- **Urban Areas:** Typically faster at 15-20 minutes, dependent on traffic conditions.

11. An Overall Summary of Risk Assessment

This route involves a mix of highway and urban driving. Primary risks include adverse weather conditions, city-related congestion, and sporadic road quality issues. Emergency response is slower in rural areas, requiring extra precaution and preparedness. Adherence to regional regulations and timely route updates are critical for safe transport of hazardous materials. Communication reliability varies across the route, emphasizing the need for equipped vehicles with satellite communication possibilities in dead zones. Overall, this route demands meticulous planning and vigilance, particularly during high-risk weather conditions and peak traffic hours.

Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit
0	Roundabout	High	11.63303, 78.12713	15 KM/Hr
1	Roundabout	High	11.67754, 79.27301	15 KM/Hr
2	U-Turn	High	13.1030554, 80.1581111	10 KM/Hr
3	Turn	High	11.03255, 77.07645	15 KM/Hr
4	Turn	Medium	11.05288, 77.08013	30 KM/Hr
5	Turn	Medium	11.17621, 77.24067	30 KM/Hr
6	Turn	High	11.17552, 77.28070	15 KM/Hr
7	Turn	Medium	11.19154, 77.29068	30 KM/Hr
8	Turn	Medium	11.19813, 77.30088	30 KM/Hr
9	Turn	Medium	11.20367, 77.33503	30 KM/Hr
10	Turn	High	11.21586, 77.34724	15 KM/Hr
11	Turn	Medium	11.21621, 77.35657	30 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
12	Turn	Medium	11.19878, 77.41414	30 KM/Hr
13	Turn	Medium	11.24024, 77.49505	30 KM/Hr
14	Turn	High	11.23691, 77.50375	15 KM/Hr
15	Turn	Medium	11.25950, 77.55055	30 KM/Hr
16	Turn	Medium	11.28555, 77.55974	30 KM/Hr
17	Turn	Medium	11.29241, 77.58804	30 KM/Hr
18	Turn	Medium	11.32649, 77.62791	30 KM/Hr
19	Turn	Medium	11.33623, 77.62987	30 KM/Hr
20	Turn	Medium	11.34449, 77.63937	30 KM/Hr
21	Turn	Medium	11.38110, 77.65432	30 KM/Hr
22	Turn	Medium	11.39320, 77.65138	30 KM/Hr
23	Turn	Medium	11.40562, 77.65851	30 KM/Hr
24	Turn	Medium	11.41212, 77.67226	30 KM/Hr
25	Blind Spot	Blind Spot	11.43091, 77.67598	10 KM/Hr
26	Turn	Medium	11.44496, 77.71970	30 KM/Hr
27	Turn	Medium	11.45687, 77.81754	30 KM/Hr
28	Turn	Medium	11.49066, 77.85203	30 KM/Hr
29	Turn	Medium	11.49371, 77.90075	30 KM/Hr
30	Turn	Medium	11.62870, 78.11612	30 KM/Hr
31	Blind Spot	Blind Spot	11.64223, 78.11904	10 KM/Hr
32	Turn	Medium	11.62831, 78.13326	30 KM/Hr
33	Turn	Medium	11.62796, 78.16364	30 KM/Hr
34	Turn	Medium	11.66619, 78.31973	30 KM/Hr
35	Turn	Medium	11.64950, 78.40313	30 KM/Hr
36	Turn	Medium	11.65735, 78.42000	30 KM/Hr
37	Turn	Medium	11.64905, 78.50804	30 KM/Hr
38	Turn	Medium	11.60602, 78.60973	30 KM/Hr
39	Turn	High	11.59250, 78.62266	15 KM/Hr
40	Turn	Medium	11.63675, 78.86531	30 KM/Hr
41	Turn	Medium	11.71695, 78.95331	30 KM/Hr
42	Turn	Medium	11.72479, 78.97457	30 KM/Hr
43	Turn	Medium	11.73439, 78.98251	30 KM/Hr
44	Turn	Medium	11.70801, 79.18881	30 KM/Hr
45	Turn	Medium	11.71320, 79.20703	30 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
46	Turn	Medium	11.69273, 79.26867	30 KM/Hr
47	Turn	High	11.68695, 79.31298	15 KM/Hr
48	Turn	High	11.88172, 79.44447	15 KM/Hr
49	Turn	Medium	11.88333, 79.45192	30 KM/Hr
50	Turn	Medium	11.90337, 79.46640	30 KM/Hr
51	Turn	Medium	11.92629, 79.47450	30 KM/Hr
52	Turn	High	11.94690, 79.47219	15 KM/Hr
53	Turn	Medium	11.95553, 79.47920	30 KM/Hr
54	Turn	Medium	11.96195, 79.49665	30 KM/Hr
55	Turn	Medium	11.99676, 79.51414	30 KM/Hr
56	Turn	High	12.21445, 79.64208	15 KM/Hr
57	Turn	High	12.21381, 79.65493	15 KM/Hr
58	Turn	High	12.22962, 79.66575	15 KM/Hr
59	Turn	Medium	12.23573, 79.66354	30 KM/Hr
60	Turn	Medium	12.32635, 79.77465	30 KM/Hr
61	Turn	Medium	12.34063, 79.78131	30 KM/Hr
62	Turn	Medium	12.35534, 79.77954	30 KM/Hr
63	Turn	Medium	12.40621, 79.81432	30 KM/Hr
64	Turn	High	12.40815, 79.82087	15 KM/Hr
65	Turn	High	12.65676, 79.94058	15 KM/Hr
66	Turn	High	12.65858, 79.95959	15 KM/Hr
67	Turn	Medium	12.68361, 79.95861	30 KM/Hr
68	Turn	Medium	12.91698, 80.10131	30 KM/Hr
69	Turn	Medium	12.93621, 80.09926	30 KM/Hr
70	Turn	High	12.95270, 80.11748	15 KM/Hr
71	Turn	Medium	13.03035, 80.14769	30 KM/Hr
72	Turn	High	13.05141, 80.15078	15 KM/Hr
73	Turn	High	13.05787, 80.16018	15 KM/Hr
74	Turn	High	13.10139, 80.16206	15 KM/Hr
75	Blind Spot	Blind Spot	13.10163, 80.15968	10 KM/Hr
76	Turn	Medium	13.09801, 80.17974	30 KM/Hr
77	Turn	High	13.10257, 80.19263	15 KM/Hr

Emergency Locations

	type	name	coordinates	speed_limit	risk_level
3	hospital	Vijayamangalm Government Hospital	11.2382827, 77.501687	30 km/h	Medium
4	hospital	Gen Siddha Hospital	11.2375033, 77.5059797	30 km/h	Medium
5	hospital	Irt Hospital	11.2803603, 77.5644118	30 km/h	Medium
7	clinic	Erode Cancer Centre	11.3732, 77.649152	30 km/h	Medium
8	hospital	Thanish Siddha Hospital	11.430003, 77.674964	30 km/h	Medium
9	clinic	Harshitha Clinic	11.4313207, 77.674718	30 km/h	Medium
10	hospital	Sri Kaalangi Siddhar Mooligai Vaithiya Nilayam	11.432369, 77.674894	30 km/h	Medium
11	clinic	G.K Clinic	11.4297244, 77.6749715	30 km/h	Medium
13	hospital	Shri Sathyanarayana Hospital	11.4291297, 77.6913408	30 km/h	Medium
14	hospital	Dhanvantri Multi Speciality Hospital	11.451362, 77.766602	30 km/h	Medium
15	hospital	Government Hospital	11.4525596, 77.7749426	30 km/h	Medium
21	hospital	Vinayaka Mission's Kirupananda Variyar Medical College	11.5977669, 78.0850992	30 km/h	Medium
25	hospital	Rps Hospital	11.6260528, 78.1474921	30 km/h	Medium
26	hospital	Akitha Hospital	11.6256027, 78.1489875	30 km/h	Medium
27	hospital	Deepam Speciality Hospital	11.6269734, 78.1476357	30 km/h	Medium
29	clinic	Sudha Polyclinic	11.647825, 78.508537	30 km/h	Medium
33	police	Melmaruvathur Police Station	12.4316923, 79.831919	30 km/h	Medium
35	hospital	Melmaruvathur Adhiparasakthi Institute of Medical Sciences and Research	12.4339441, 79.8279342	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
36	hospital	Private Hospital	12.5103701, 79.8832905	30 km/h	Medium
37	hospital	Paranur Hospital	12.7370085, 79.9883446	30 km/h	Medium
39	clinic	S.K.S. Clinic	12.84604, 80.061486	30 km/h	Medium
40	clinic	Dr. V. Arunagiri Nathan Clinic	12.8507219, 80.0656915	30 km/h	Medium
41	clinic	Dakshan Skin Clinic	12.8499003, 80.0651148	30 km/h	Medium
42	clinic	Agaram Siddha Clinic	12.8483415, 80.0631272	30 km/h	Medium
43	clinic	Sabari Clinic	12.8467277, 80.0613827	30 km/h	Medium
44	clinic	Aram Poly Clinic	12.8470635, 80.0609595	30 km/h	Medium
45	hospital	Deepam Hospital	12.8471514, 80.0632047	30 km/h	Medium
46	clinic	Biswas Clinic	12.8487115, 80.0634034	30 km/h	Medium
47	clinic	Ortho and Neuro Physiotherapy Clinic	12.8469882, 80.0629364	30 km/h	Medium
48	hospital	Nithya Gurru Hospital	12.867641, 80.0760446	30 km/h	Medium
50	clinic	Prithvi Clinic	12.908513, 80.094856	30 km/h	Medium
56	pharmacy	Medplus Pharmacy	13.0999545, 80.1569836	30 km/h	Medium
57	clinic	Mohan Clinic	13.095401, 80.1814241	30 km/h	Medium

Crowded Spots

	type	name	coordinates	speed_limit	risk_level
0	college	PSG Institute of Technology and Applied Research	11.0677118, 77.0945744	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
1	marketplace	Thekkalur Weekly market	11.1537037, 77.2126685	30 km/h	Medium
2	marketplace	Thekalur weekly market	11.1547211, 77.2140187	30 km/h	Medium
6	college	Government polytechnic college	11.2907053, 77.5698726	30 km/h	Medium
12	school	SSM Matriculation Higher Secondary School	11.4321653, 77.6880046	30 km/h	Medium
16	marketplace	Monday market	11.452863, 77.775989	30 km/h	Medium
17	college	Vivekanandha Engineering College	11.4589312, 77.7899284	30 km/h	Medium
18	school	KRP Matric. Hr. Sec School	11.4546193, 77.8142445	30 km/h	Medium
20	school	Vinayaka Missions Annapoorani Matric School	11.5971662, 78.0839876	30 km/h	Medium
22	university	Vinayaka Missions Vinayaka Missions Research Foundation	11.5974056, 78.0843617	30 km/h	Medium
23	school	DIET - Salem	11.6144158, 78.1025078	30 km/h	Medium
24	school	Diamond Rays Matric HR Sec School	11.6385629, 78.1206259	30 km/h	Medium
28	school	Thangam ZEE public school	11.6653353, 78.251641	30 km/h	Medium
30	school	Vani Vikas Matric Hr.sec school	11.6212713, 78.5462658	30 km/h	Medium
31	college	Bharathiyar Educational Institure	11.5863463, 78.7364793	30 km/h	Medium
32	school	Government Model Residential School A. Kumaramangalam	11.7099438, 79.22221	30 km/h	Medium
34	school	Adhiparasakthi Matriculation Higher Secondary School	12.4311585, 79.8337948	30 km/h	Medium
38	university	SRM Institute of Science and Technology	12.8235936, 80.0463139	30 km/h	Medium
49	motorway_junction	Vandalur	12.8926966, 80.0859421	30 km/h	Medium
51	motorway_junction	Irumbiliyur Interchange	12.9149338, 80.103455	30 km/h	Medium
52	motorway_junction	Irumbiliyur Interchange	12.917804, 80.1013753	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
53	school	SV High School	13.0539345, 80.1484837	30 km/h	Medium
54	school	Green Valley School	13.0832627, 80.1643263	30 km/h	Medium
55	traffic_signals	Ambattur Telephone Exchange Junction	13.1015048, 80.1620958	30 km/h	Medium
58	school	Singaram Pillai School	13.1019963, 80.1958986	30 km/h	Medium
59	school	Singaram Pillai Hr Sec School	13.1014828, 80.1958137	30 km/h	Medium

Route Photos of Risky Spots



Risk Type: Roundabout

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.63303, 78.12713



Risk Type: Roundabout
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.67754, 79.27301



Risk Type: U-Turn
Risk Level: High
Speed Limit: 10 KM/Hr
Coordinates: 13.1030554, 80.1581111



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.03255, 77.07645



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.05288, 77.08013



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.17621, 77.24067



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.17552, 77.28070



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.19154, 77.29068



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.19813, 77.30088



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.20367, 77.33503



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.21586, 77.34724



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.21621, 77.35657



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.19878, 77.41414



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.24024, 77.49505



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.23691, 77.50375



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.25950, 77.55055



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.28555, 77.55974



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.29241, 77.58804



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.32649, 77.62791



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.33623, 77.62987



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.34449, 77.63937



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.38110, 77.65432



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.39320, 77.65138



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.40562, 77.65851



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.41212, 77.67226



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 11.43091, 77.67598



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.44496, 77.71970



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.45687, 77.81754



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.49066, 77.85203



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.49371, 77.90075



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.62870, 78.11612



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 11.64223, 78.11904



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.62831, 78.13326



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.62796, 78.16364



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.66619, 78.31973



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.64950, 78.40313



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.65735, 78.42000



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.64905, 78.50804



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.60602, 78.60973



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.59250, 78.62266



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.63675, 78.86531



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.71695, 78.95331



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.72479, 78.97457



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.73439, 78.98251



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.70801, 79.18881



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.71320, 79.20703



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.69273, 79.26867



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.68695, 79.31298



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.88172, 79.44447



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.88333, 79.45192



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.90337, 79.46640



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.92629, 79.47450



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.94690, 79.47219



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.95553, 79.47920



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.96195, 79.49665



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.99676, 79.51414



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 12.21445, 79.64208



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 12.21381, 79.65493



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 12.22962, 79.66575



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 12.23573, 79.66354



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 12.32635, 79.77465



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 12.34063, 79.78131



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 12.35534, 79.77954



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 12.40621, 79.81432



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 12.40815, 79.82087



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 12.65676, 79.94058



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 12.65858, 79.95959



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 12.68361, 79.95861



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 12.91698, 80.10131



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 12.93621, 80.09926



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 12.95270, 80.11748



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 13.03035, 80.14769



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 13.05141, 80.15078



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 13.05787, 80.16018



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 13.10139, 80.16206



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 13.10163, 80.15968



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 13.09801, 80.17974
