



IndianOil

JOURNEY RISK MANAGEMENT (JRM) STUDY

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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

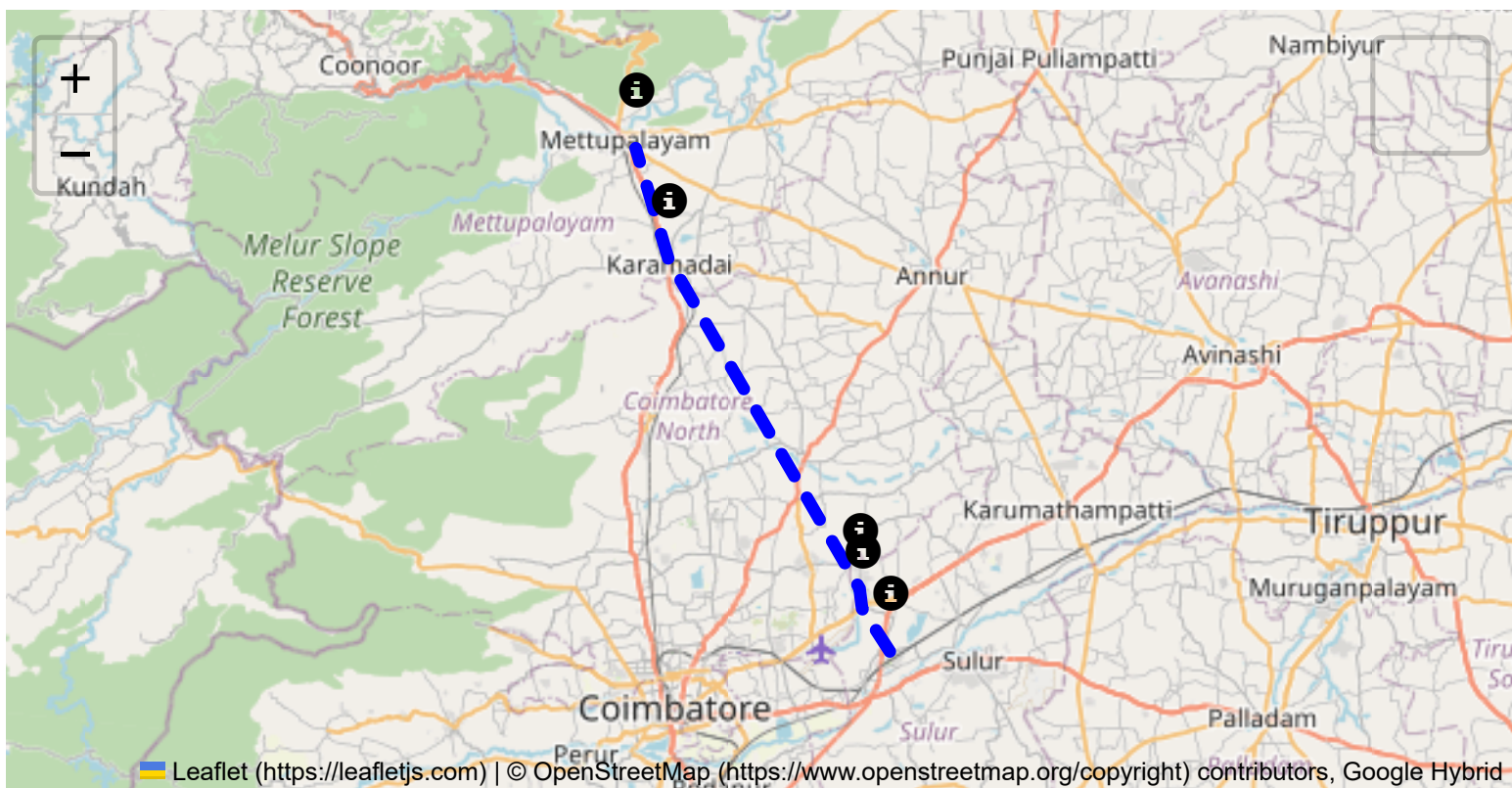
The JRM report addresses environmental risks along the route, ensuring compliance with environmental protection laws in ecologically sensitive zones. It suggests strategies such as identifying areas near water bodies, forests, or populated regions and implementing safety measures to minimize environmental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

Journey Risk Mitigation

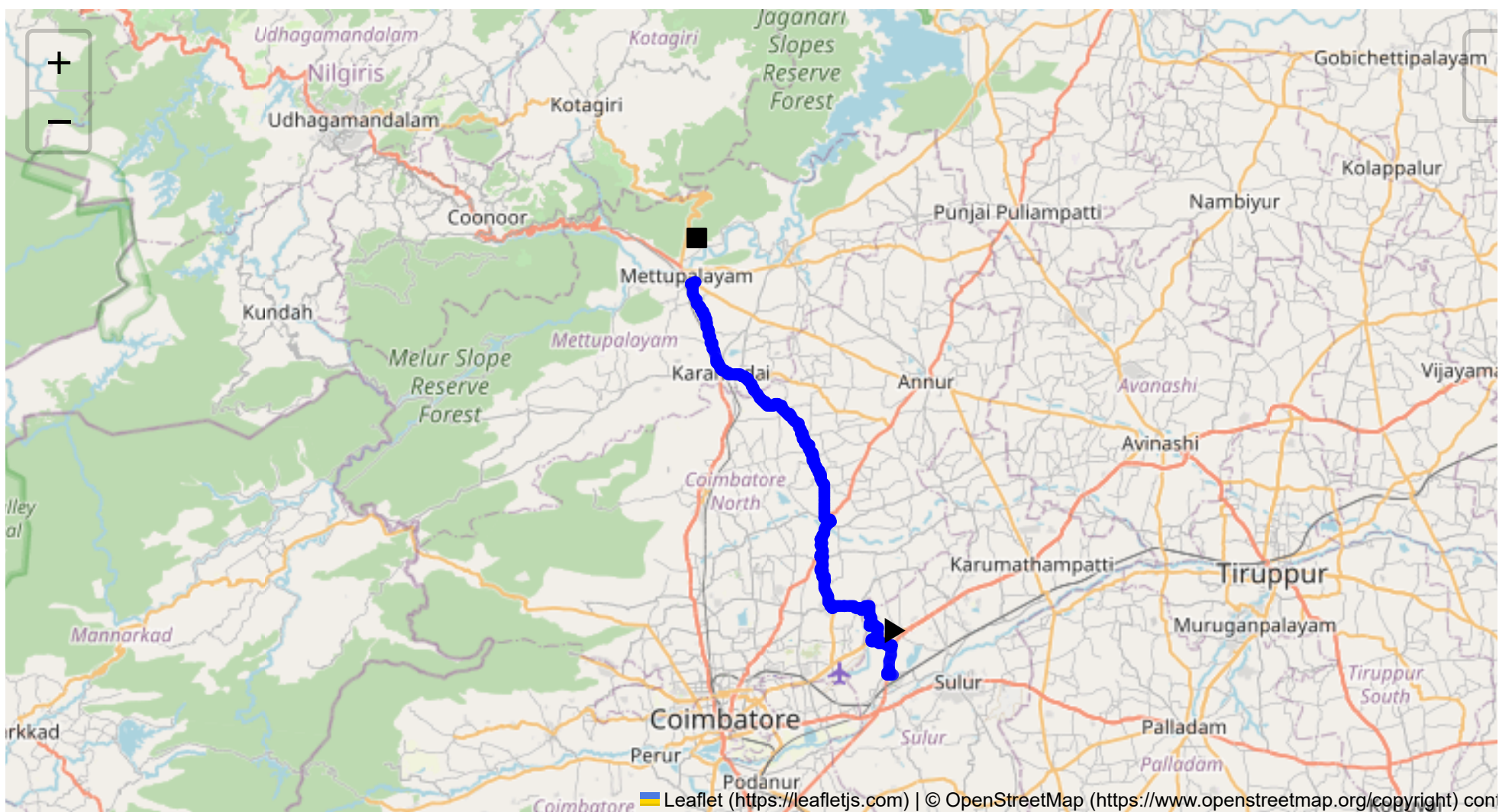
The report includes route-specific risk assessments, detailed journey charts, and defensive driving guidelines for each transport route. Integration with vehicle tracking systems guarantees real-time warnings on hazardous areas, speed limits, and mandatory stops, consistent with RTSP and CMVR safety 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: 41.55 km
Estimated Duration: 1.3 hours
Adjusted Duration (Heavy Vehicle): 1.6 hours
Start: (11.0315, 77.0797)
End: (11.30073, 76.940726)



Welcome to the Journey Risk Management Study

Route Overview

The route from Athappagoundenpudur, Coimbatore to Mettupalayam in Tamil Nadu via Chinniyampalayam, GEM Nagar, and Karamadai spans approximately 41.55 kilometers. The journey typically takes around 1.26 hours for heavy vehicles, especially those carrying hazardous materials. The

route is primarily rural with stretches of highway, passing through smaller towns and peripheral urban areas.

Weather Conditions

- **Typical Weather:** The region generally experiences a tropical climate, with significant monsoon influence.
- **Potential Hazards:** Heavy rainfall during the monsoon season (June to September) can lead to waterlogging and reduced visibility, impacting road safety. High temperatures in the summer (March to May) can affect vehicle performance and increase the likelihood of tire blowouts.

Traffic Patterns

- **Peak Hours:** Traffic congestion is typically higher during morning (7:30 AM - 9:30 AM) and evening (5:00 PM - 7:00 PM) rush hours, particularly around town intersections.
- **Congestion-Prone Areas:** The vicinity of marketplaces and intersections near Chinniyampalayam and Karamadai can experience slow-moving traffic.

Road Quality and Infrastructure

- **Road Quality:** The route is a mix of well-paved highway sections and narrower rural roads. Occasional potholes and uneven surfaces can be found, especially after monsoon seasons.
- **Infrastructure:** Signage may be inconsistent or obscured in rural stretches, and lighting is limited on some parts of the route.

Alternative Routes for Emergencies

In emergencies, consider:

- Using secondary roads through Thudiyalur if the Nagapattinam-Coimbatore Highway is congested or blocked.
- Another option is rerouting back towards Coimbatore and taking the NH948, although this may be longer and more congested.

Local Regulations

- **Hazardous Material Rules:** Compliance with regional transport laws is crucial. Restrictions on the timing and routes for hazardous materials may apply, mainly during peak urban traffic times.
- **Documentation:** Ensure all required permits and transport certifications are in place.

Historical Incidents

- **Incidents:** There have been past incidents involving heavy vehicles in the monsoon season, mainly due to skidding on wet roads and reduced visibility. Notable incidents were largely focused around congested zones near urban areas.

Environmental Considerations

- **Sensitive Areas:** The route passes through agricultural land, so there are strict guidelines against spills or emissions from vehicles to protect the local environment.
- **Natural Reservations:** There may be wildlife in the more rural sections, so caution is advised to prevent accidents involving animals.

Communication Coverage

- **Dead Zones:** Communication coverage is generally good, but certain rural segments might have limited connectivity. Local service providers are recommended for better coverage.

Emergency Response Times

- **Coimbatore to Karamadai:** Estimated response time is 15-30 minutes due to proximity to urban facilities.
- **Karamadai to Mettupalayam:** May take 30-45 minutes for emergency services due to distance and road conditions.

Overall Summary of Risk Assessment

- **Moderate Risk:** The overall route is moderately safe but requires caution due to potential weather hazards, inconsistent road quality, and occasional congested traffic spots.
- **Recommendations:** Drivers should be aware of weather forecasts, adhere to local traffic laws, and maintain communication with emergency services.
- **Preparation:** Vehicles should be well-maintained, especially focusing on tires and brakes, and drivers should be trained for emergency maneuvers in adverse conditions.

By following these guidelines and being aware of potential risks, the safety of the transport along this route can be significantly enhanced.

Risk Assessment - Turns

| | Risk Type | Risk Level | Coordinates | Speed Limit |
|---|------------|------------|------------------------|-------------|
| 0 | Roundabout | High | 11.07800, 77.03707 | 15 KM/Hr |
| 1 | U-Turn | High | 11.0549503, 77.0650284 | 10 KM/Hr |
| 2 | Turn | High | 11.03211, 77.07640 | 15 KM/Hr |
| 3 | Turn | High | 11.05129, 77.07919 | 15 KM/Hr |
| 4 | Turn | High | 11.05181, 77.07696 | 15 KM/Hr |
| 5 | Turn | High | 11.05218, 77.07692 | 15 KM/Hr |

| | Risk Type | Risk Level | Coordinates | Speed Limit |
|----|------------|------------|--------------------|-------------|
| 6 | Turn | Medium | 11.05281, 77.07261 | 30 KM/Hr |
| 7 | Turn | Medium | 11.05343, 77.07106 | 30 KM/Hr |
| 8 | Turn | Medium | 11.05351, 77.07099 | 30 KM/Hr |
| 9 | Turn | High | 11.05411, 77.07097 | 15 KM/Hr |
| 10 | Turn | High | 11.05529, 77.06566 | 15 KM/Hr |
| 11 | Turn | High | 11.05498, 77.06509 | 15 KM/Hr |
| 12 | Blind Spot | Blind Spot | 11.05507, 77.06496 | 10 KM/Hr |
| 13 | Turn | High | 11.05751, 77.06875 | 15 KM/Hr |
| 14 | Turn | High | 11.06437, 77.06865 | 15 KM/Hr |
| 15 | Turn | High | 11.06490, 77.06371 | 15 KM/Hr |
| 16 | Turn | Medium | 11.06501, 77.06366 | 30 KM/Hr |
| 17 | Turn | High | 11.07201, 77.06366 | 15 KM/Hr |
| 18 | Turn | Medium | 11.07232, 77.06400 | 30 KM/Hr |
| 19 | Blind Spot | Blind Spot | 11.07865, 77.06377 | 10 KM/Hr |
| 20 | Turn | High | 11.07773, 77.05884 | 15 KM/Hr |
| 21 | Turn | Medium | 11.07655, 77.05823 | 30 KM/Hr |
| 22 | Turn | Medium | 11.07807, 77.05306 | 30 KM/Hr |
| 23 | Turn | Medium | 11.07854, 77.03872 | 30 KM/Hr |
| 24 | Turn | Medium | 11.09605, 77.03172 | 30 KM/Hr |
| 25 | Turn | Medium | 11.09655, 77.03237 | 30 KM/Hr |
| 26 | Turn | High | 11.09837, 77.03248 | 15 KM/Hr |
| 27 | Turn | Medium | 11.09852, 77.03233 | 30 KM/Hr |
| 28 | Turn | High | 11.09883, 77.03091 | 15 KM/Hr |
| 29 | Turn | High | 11.10301, 77.03046 | 15 KM/Hr |
| 30 | Turn | Medium | 11.10312, 77.03001 | 30 KM/Hr |
| 31 | Turn | Medium | 11.10331, 77.02984 | 30 KM/Hr |
| 32 | Blind Spot | Blind Spot | 11.11250, 77.03030 | 10 KM/Hr |
| 33 | Blind Spot | Blind Spot | 11.11256, 77.02901 | 10 KM/Hr |
| 34 | Blind Spot | Blind Spot | 11.13744, 77.03599 | 10 KM/Hr |
| 35 | Blind Spot | Blind Spot | 11.13742, 77.03359 | 10 KM/Hr |
| 36 | Turn | Medium | 11.13829, 77.03346 | 30 KM/Hr |
| 37 | Turn | High | 11.13901, 77.03204 | 15 KM/Hr |
| 38 | Turn | Medium | 11.16732, 77.02884 | 30 KM/Hr |
| 39 | Turn | Medium | 11.16943, 77.02891 | 30 KM/Hr |

| | Risk Type | Risk Level | Coordinates | Speed Limit |
|----|------------|------------|--------------------|-------------|
| 40 | Turn | Medium | 11.17187, 77.02752 | 30 KM/Hr |
| 41 | Turn | Medium | 11.18436, 77.02299 | 30 KM/Hr |
| 42 | Turn | Medium | 11.18446, 77.02279 | 30 KM/Hr |
| 43 | Turn | Medium | 11.18881, 77.02127 | 30 KM/Hr |
| 44 | Turn | Medium | 11.20958, 77.00724 | 30 KM/Hr |
| 45 | Turn | Medium | 11.21403, 77.00250 | 30 KM/Hr |
| 46 | Turn | High | 11.21427, 77.00246 | 15 KM/Hr |
| 47 | Turn | Medium | 11.21435, 77.00232 | 30 KM/Hr |
| 48 | Turn | High | 11.21575, 77.00174 | 15 KM/Hr |
| 49 | Turn | High | 11.21590, 77.00040 | 15 KM/Hr |
| 50 | Turn | Medium | 11.21638, 77.00010 | 30 KM/Hr |
| 51 | Turn | Medium | 11.21704, 76.99880 | 30 KM/Hr |
| 52 | Turn | Medium | 11.23428, 76.97860 | 30 KM/Hr |
| 53 | Turn | Medium | 11.24082, 76.96002 | 30 KM/Hr |
| 54 | Blind Spot | Blind Spot | 11.30000, 76.93887 | 10 KM/Hr |
| 55 | Blind Spot | Blind Spot | 11.30046, 76.94127 | 10 KM/Hr |

Emergency Locations

| | type | name | coordinates | speed_limit | risk_level |
|---|----------|---------------------------------------|---------------------------|-------------|------------|
| 0 | hospital | KGM, Chinnampalayam | 11.0570076, 77.067239 | 30 km/h | Medium |
| 1 | hospital | Chinnampalayam Venkateshwara Hospital | 11.0545152, 77.0652106 | 30 km/h | Medium |
| 3 | hospital | R V Hospital, Coimbatore | 11.0546916, 77.0639178 | 30 km/h | Medium |
| 4 | hospital | Kamalaprakasam, Kalapatti | 11.0778, 77.035681 | 30 km/h | Medium |
| 6 | hospital | Aravindan Hospital | 11.1334592, 77.0340488 | 30 km/h | Medium |
| 7 | hospital | Sampath Hospital ,S.S.Kulam | 11.1339, 77.034088 | 30 km/h | Medium |
| 8 | hospital | Gokulam ortho hospital | 11.1340331, 77.0350369 | 30 km/h | Medium |

| | type | name | coordinates | speed_limit | risk_level |
|----|----------|-----------------------------------|---------------------------|-------------|------------|
| 15 | hospital | Sowmiya Hospital | 11.2377363, 76.9652218 | 30 km/h | Medium |
| 16 | hospital | Government primary health center | 11.2385887, 76.9640887 | 30 km/h | Medium |
| 17 | hospital | KR Hospital, Karamadai | 11.23934, 76.962781 | 30 km/h | Medium |
| 18 | hospital | Sowmiya Hospital | 11.2400426, 76.9619912 | 30 km/h | Medium |
| 19 | police | Karamadai Police Station | 11.2395224, 76.9595897 | 30 km/h | Medium |
| 20 | pharmacy | sri kaveri medicals | 11.2428499, 76.960831 | 30 km/h | Medium |
| 21 | hospital | burma doctor hospital | 11.2414022, 76.9600962 | 30 km/h | Medium |
| 24 | pharmacy | Saravana Pharmacy | 11.2429694, 76.9584406 | 30 km/h | Medium |
| 25 | hospital | Subbu Hospital | 11.2434041, 76.9602041 | 30 km/h | Medium |
| 31 | hospital | Hindustan Hospital | 11.2816017, 76.9462511 | 30 km/h | Medium |
| 32 | hospital | Smyle Hospital, Mettupalayam | 11.2878481, 76.9420704 | 30 km/h | Medium |
| 35 | hospital | Government Hospital, Mettupalayam | 11.2891427, 76.9409612 | 30 km/h | Medium |
| 36 | hospital | Meenakshi Hospital | 11.2913595, 76.9413024 | 30 km/h | Medium |
| 40 | hospital | R A Medical Center and Hospital | 11.2976038, 76.940787 | 30 km/h | Medium |
| 42 | hospital | Kps Hospitals Pvt Ltd | 11.3003873, 76.9402459 | 30 km/h | Medium |
| 43 | hospital | Suriya Hospital, Coimbatore | 11.30192, 76.9400722 | 30 km/h | Medium |
| 44 | hospital | Immanuel Eye Hospital | 11.3022381, 76.9400735 | 30 km/h | Medium |
| 45 | hospital | Garnett Memorial Eye Hospital | 11.3020423, 76.9400816 | 30 km/h | Medium |

Crowded Spots

| | type | name | coordinates | speed_limit | risk_level |
|----|-------------|--|---------------------------|-------------|------------|
| 2 | school | Government school | 11.0554435, 77.0653927 | 30 km/h | Medium |
| 5 | college | KV Institute of Management and Information Studies | 11.1050789, 77.0276575 | 30 km/h | Medium |
| 9 | school | panchayat union middle school | 11.2140204, 77.0028892 | 30 km/h | Medium |
| 10 | school | panchayat union middle school | 11.2141334, 77.0028305 | 30 km/h | Medium |
| 11 | school | The ooty public school | 11.2158022, 77.0041736 | 30 km/h | Medium |
| 12 | college | Christ the King Engineering College | 11.2262519, 76.9803262 | 30 km/h | Medium |
| 13 | school | Vidya Vikas Schools | 11.2400364, 76.9731001 | 30 km/h | Medium |
| 14 | school | panchayat union primary school | 11.2375143, 76.9692497 | 30 km/h | Medium |
| 22 | marketplace | Karamadai Friday Market | 11.2406365, 76.9591049 | 30 km/h | Medium |
| 23 | marketplace | Karamadai Market | 11.2407774, 76.9594288 | 30 km/h | Medium |
| 26 | school | Karamadai Government Higher Secondary School | 11.2508729, 76.9546065 | 30 km/h | Medium |
| 27 | marketplace | karamadai transport mundy market | 11.252799, 76.9559317 | 30 km/h | Medium |
| 28 | marketplace | TDR Banana auction mundy | 11.2521314, 76.95564 | 30 km/h | Medium |
| 29 | school | SRSI Matriculation Higher Secondary School | 11.2643436, 76.9549985 | 30 km/h | Medium |
| 30 | school | Metro Matriculation Hr. Sec. School | 11.2806205, 76.9481429 | 30 km/h | Medium |
| 33 | school | Government Boys Higher Secondary School | 11.2871158, 76.940117 | 30 km/h | Medium |
| 34 | school | Rosary Girls High School | 11.2885341, 76.9409627 | 30 km/h | Medium |
| 37 | school | LEF Christain Matriculation School | 11.2929024, 76.9433302 | 30 km/h | Medium |
| 38 | school | LEF Christain Matriculation School | 11.2928911, 76.943694 | 30 km/h | Medium |

| | type | name | coordinates | speed_limit | risk_level |
|----|-------------|--------------------------------|--------------------------|-------------|------------|
| 39 | school | Holy Angels Primary School | 11.2994396, 76.942179 | 30 km/h | Medium |
| 41 | marketplace | மேட்டுப்பாளையம் உழவர் சந்தை | 11.3010351, 76.937417 | 30 km/h | Medium |

Route Photos of Risky Spots



Risk Type: Roundabout

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.07800, 77.03707



Risk Type: U-Turn

Risk Level: High

Speed Limit: 10 KM/Hr

Coordinates: 11.0549503, 77.0650284



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.03211, 77.07640



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.05129, 77.07919



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.05181, 77.07696



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.05218, 77.07692



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.05281, 77.07261



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.05343, 77.07106



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.05351, 77.07099



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.05411, 77.07097



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.05529, 77.06566



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.05498, 77.06509



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 11.05507, 77.06496



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.05751, 77.06875



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.06437, 77.06865



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.06490, 77.06371



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.06501, 77.06366



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.07201, 77.06366



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.07232, 77.06400



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 11.07865, 77.06377



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.07773, 77.05884



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.07655, 77.05823



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.07807, 77.05306



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.07854, 77.03872



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.09605, 77.03172



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.09655, 77.03237



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.09837, 77.03248



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.09852, 77.03233



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.09883, 77.03091



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.10301, 77.03046



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.10312, 77.03001



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.10331, 77.02984



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 11.11250, 77.03030



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 11.11256, 77.02901



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 11.13744, 77.03599



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 11.13742, 77.03359



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.13829, 77.03346



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.13901, 77.03204



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.16732, 77.02884



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.16943, 77.02891



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.17187, 77.02752



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.18436, 77.02299



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.18446, 77.02279



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.18881, 77.02127



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.20958, 77.00724



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.21403, 77.00250



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.21427, 77.00246



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.21435, 77.00232



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Coordinates: 11.21575, 77.00174



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Coordinates: 11.21590, 77.00040



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.21638, 77.00010



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Coordinates: 11.21704, 76.99880



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.23428, 76.97860



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Coordinates: 11.24082, 76.96002



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 11.30000, 76.93887



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Coordinates: 11.30046, 76.94127
