



# IndianOil

## JOURNEY RISK MANAGEMENT (JRM) STUDY

### Salem Terminal to TAJ AGENCIES

#### 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.

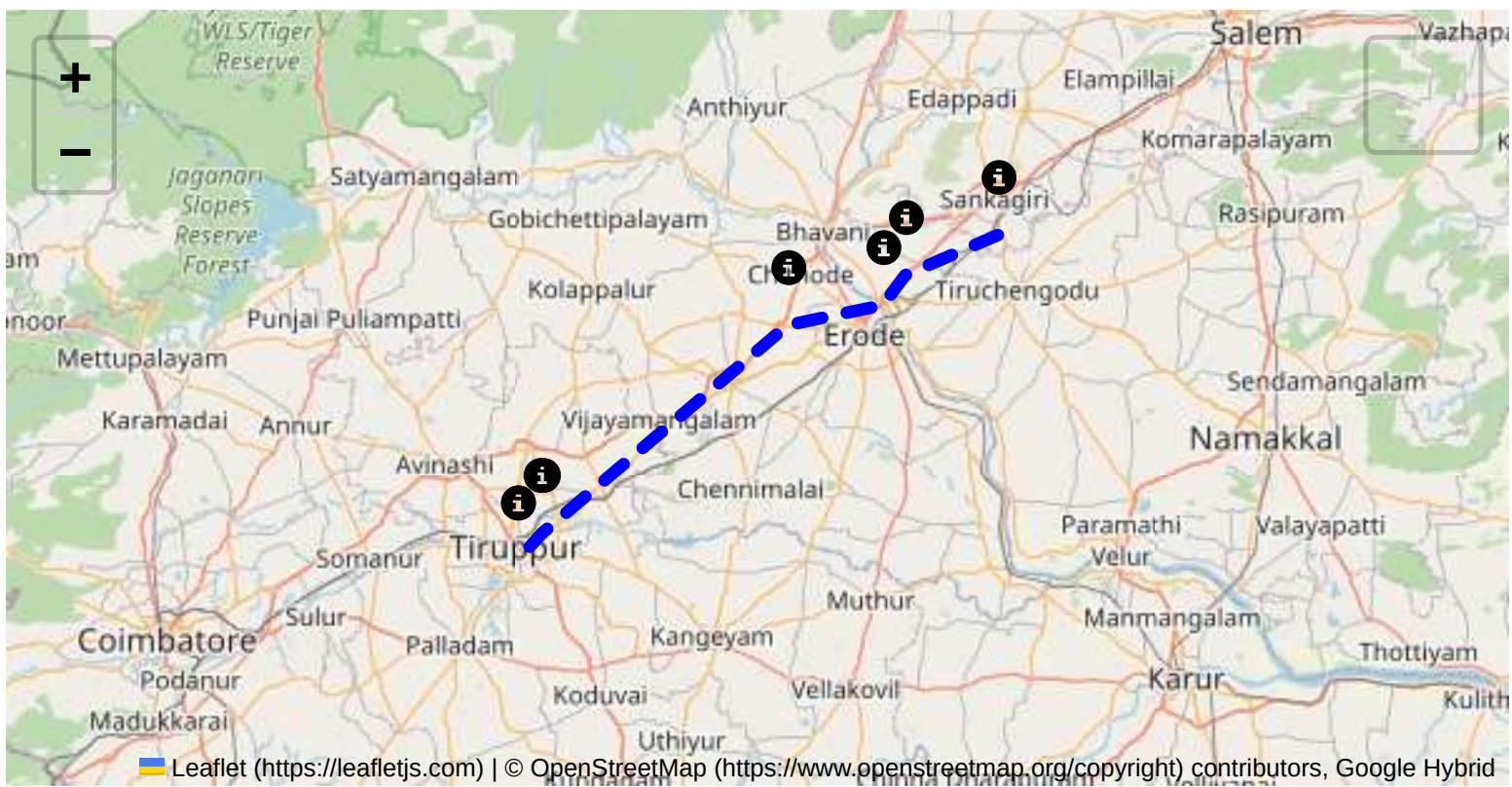
## **Journey Risk Mitigation**

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.

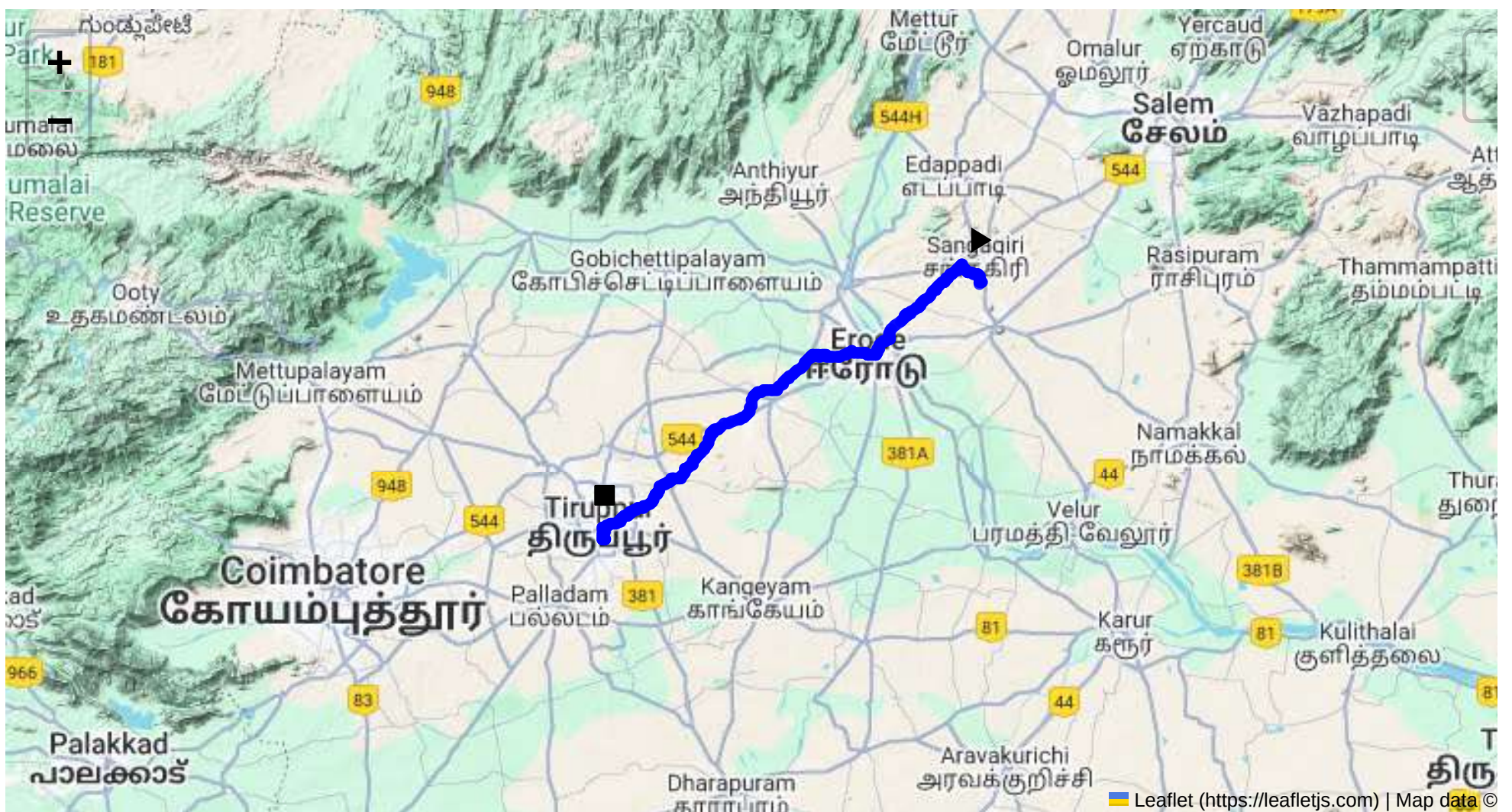
## **Compliance with Government Directives**

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: 84.30 km**  
**Estimated Duration: 2.2 hours**  
**Adjusted Duration (Heavy Vehicle): 2.8 hours**  
**Start: (11.4381, 77.8734)**  
**End: (11.086757, 77.34584)**



## Welcome to the Journey Risk Management Study

### 1. Overview of the Route Map

The route is approximately 84.30 kilometers long and typically takes about 2.23 hours for heavy vehicles transporting hazardous material. The journey begins at Sangagiri, passes through various key points like Tiruchengode and Pallipalayam, and finally ends at Puspa Nagar, Tiruppur. The route generally follows major roads, including the integration of state highways and local roads.



## 2. Typical Weather Conditions and Potential Weather-Related Hazards

Tamil Nadu generally experiences a tropical climate with dry and wet seasons.

- **Summer (March to June):** High temperatures, which can lead to vehicle overheating.
- **Monsoon (June to September):** Heavy rains can cause flooding, reduced visibility, and slippery roads, particularly between Sangagiri and Tiruchengode.
- **Winter (November to February):** Mild temperatures, but early morning fog near Tiruppur can affect visibility.

## 3. Analysis of Traffic Patterns

- **Peak Hours:** Morning (8 AM - 10 AM) and evening (5 PM - 8 PM) around urban centers like Tiruchengode and Tiruppur.
- **Congestion-Prone Areas:** Tiruchengode town center and the approach to Tiruppur, especially near major junctions like Kulimain Road.

## 4. Assessment of Road Quality and Infrastructure

- **Sangagiri to Tiruchengode:** Well-maintained roads, with occasional pothole issues.
- **Tiruchengode to Pallipalayam:** Mixed road conditions; occasional narrow sections through villages may require cautious navigation.
- **Pallipalayam to Tiruppur:** Generally good road conditions, but increased density of traffic can affect travel times.

## 5. Suggestions for Alternative Routes for Emergencies

- **Alternative Route for Flooding:** During monsoons, consider using NH544 from Sangagiri to Tiruppur, bypassing interior roads.
- **Detour for Congestion:** Utilize the bypass roads around Tiruchengode to avoid city traffic.

## 6. Summary of Local Regulations Affecting Hazardous Material Transport

- Transport of hazardous material is subject to guidelines set by Tamil Nadu's transport department. Ensure compliance with weight limits and proper signage on vehicles.
- Night travel for hazardous materials is generally discouraged due to reduced visibility and emergency response challenges.

## 7. Overview of Historical Incidents

- Regular heavy vehicle accidents occur during monsoons due to slippery roads.
- Significant past incidents include a tanker spill in the Pallipalayam vicinity that led to temporary road closures.

## 8. Environmental Considerations and Sensitive Areas

- Proximity to the Kaveri river basin near Pallipalayam requires additional caution to prevent any potential ecological impact in the case of spills.
- Tiruppur, known for its textile industry, has sensitive zones where air and water pollution measures are strictly enforced.

## 9. Analysis of Communication Coverage

- Reliable communication networks exist along most parts, but minor dead zones may be encountered in rural stretches, particularly in villages like Nasiyanur.

## 10. Estimated Emergency Response Times

- Sangagiri to Tiruchengode:** Around 20-30 minutes due to good connectivity.
- Tiruchengode to Pallipalayam:** 30-45 minutes, with increased time in severe weather.
- Pallipalayam to Tiruppur:** Approximately 20 minutes, but can be higher during peak traffic.

## 11. Overall Summary of Risk Assessment

This route involves moderate risk, primarily due to weather-related challenges and traffic congestion. The roads are mostly in good condition, but caution is needed during monsoon months. Communication and emergency response are generally reliable, with typical risk management strategies applicable. Proper planning and real-time monitoring of traffic and weather can mitigate most potential risks along the route.

### Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit
0	Roundabout	High	11.37086, 77.74828	15 KM/Hr
1	U-Turn	High	11.3932306, 77.7707764	10 KM/Hr
2	U-Turn	High	11.3940053, 77.77149639999999	10 KM/Hr
3	U-Turn	High	11.3594743, 77.740701	10 KM/Hr
4	U-Turn	High	11.3628396, 77.7470307	10 KM/Hr
5	Turn	High	11.43968, 77.87345	15 KM/Hr
6	Turn	High	11.44024, 77.87528	15 KM/Hr
7	Turn	High	11.44898, 77.87410	15 KM/Hr
8	Turn	High	11.45352, 77.85698	15 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
9	Turn	Medium	11.45847, 77.85140	30 KM/Hr
10	Turn	Medium	11.45898, 77.85135	30 KM/Hr
11	Turn	High	11.46303, 77.84945	15 KM/Hr
12	Turn	Medium	11.46302, 77.84874	30 KM/Hr
13	Blind Spot	Blind Spot	11.39329, 77.77072	10 KM/Hr
14	Blind Spot	Blind Spot	11.39396, 77.77155	10 KM/Hr
15	Turn	Medium	11.36538, 77.74812	30 KM/Hr
16	Blind Spot	Blind Spot	11.35956, 77.74067	10 KM/Hr
17	Blind Spot	Blind Spot	11.36284, 77.74703	10 KM/Hr
18	Turn	Medium	11.36265, 77.74697	30 KM/Hr
19	Turn	Medium	11.34172, 77.72823	30 KM/Hr
20	Turn	Medium	11.33937, 77.72895	30 KM/Hr
21	Turn	High	11.33916, 77.72890	15 KM/Hr
22	Turn	Medium	11.34103, 77.71694	30 KM/Hr
23	Turn	Medium	11.34409, 77.69647	30 KM/Hr
24	Turn	Medium	11.33812, 77.64960	30 KM/Hr
25	Turn	Medium	11.33909, 77.64147	30 KM/Hr
26	Turn	Medium	11.33830, 77.64041	30 KM/Hr
27	Turn	High	11.33828, 77.63811	15 KM/Hr
28	Turn	Medium	11.32833, 77.62971	30 KM/Hr
29	Turn	Medium	11.32814, 77.62919	30 KM/Hr
30	Turn	Medium	11.23716, 77.50666	30 KM/Hr
31	Turn	High	11.23697, 77.50655	15 KM/Hr
32	Turn	High	11.23686, 77.50233	15 KM/Hr
33	Turn	Medium	11.23425, 77.50116	30 KM/Hr
34	Turn	Medium	11.23319, 77.49954	30 KM/Hr
35	Turn	Medium	11.18314, 77.46241	30 KM/Hr
36	Turn	Medium	11.17834, 77.46162	30 KM/Hr
37	Turn	Medium	11.17491, 77.45955	30 KM/Hr
38	Turn	Medium	11.17380, 77.45745	30 KM/Hr
39	Turn	Medium	11.17130, 77.45586	30 KM/Hr
40	Turn	Medium	11.16960, 77.44428	30 KM/Hr
41	Turn	Medium	11.16945, 77.44371	30 KM/Hr
42	Turn	Medium	11.15154, 77.42313	30 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
43	Turn	Medium	11.14979, 77.42204	30 KM/Hr
44	Turn	Medium	11.14879, 77.42014	30 KM/Hr
45	Turn	Medium	11.13877, 77.41639	30 KM/Hr
46	Turn	Medium	11.13562, 77.41279	30 KM/Hr
47	Turn	High	11.13004, 77.40328	15 KM/Hr
48	Turn	Medium	11.12471, 77.38664	30 KM/Hr
49	Turn	Medium	11.12243, 77.38300	30 KM/Hr
50	Turn	High	11.11673, 77.37277	15 KM/Hr
51	Turn	High	11.11572, 77.37284	15 KM/Hr
52	Turn	Medium	11.11507, 77.37174	30 KM/Hr
53	Turn	High	11.11383, 77.37073	15 KM/Hr
54	Blind Spot	Blind Spot	11.11095, 77.37141	10 KM/Hr
55	Turn	High	11.10279, 77.34650	15 KM/Hr
56	Blind Spot	Blind Spot	11.10131, 77.34661	10 KM/Hr
57	Turn	High	11.10160, 77.34802	15 KM/Hr
58	Turn	High	11.08836, 77.34596	15 KM/Hr
59	Turn	Medium	11.08803, 77.34621	30 KM/Hr
60	Turn	High	11.08668, 77.34874	15 KM/Hr
61	Turn	High	11.08544, 77.34832	15 KM/Hr
62	Turn	High	11.08589, 77.34591	15 KM/Hr

## Emergency Locations

	type	name	coordinates	speed_limit	risk_level
1	pharmacy	Pharmacy	11.3652161, 77.7486375	30 km/h	Medium
2	hospital	Visaalam Hospitals	11.3651528, 77.747808	30 km/h	Medium
3	hospital	Cheran Hospital	11.3680302, 77.7481976	30 km/h	Medium
4	hospital	Sri Kumaran E N T Hospital	11.3657814, 77.7477763	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
5	hospital	Sri Krishna Hospital	11.3656648, 77.7477783	30 km/h	Medium
6	police	Police Station	11.3630177, 77.7476505	30 km/h	Medium
7	hospital	Government Hospital	11.3608508, 77.747453	30 km/h	Medium
9	hospital	Sri Hari Sakthivel Hospital	11.3526901, 77.7323055	30 km/h	Medium
10	hospital	Senthil Prakash Hospital	11.352639, 77.732267	30 km/h	Medium
11	hospital	Dhanvantri Critical Care Center	11.3504266, 77.7311274	30 km/h	Medium
12	hospital	V K Hospital	11.3513792, 77.7313976	30 km/h	Medium
13	hospital	Kumudha Hospital	11.3467172, 77.7306797	30 km/h	Medium
14	hospital	Dhanvantri Critical Care Centre	11.35099, 77.730508	30 km/h	Medium
15	hospital	Indrajith Yoga Nature Cure Hospital	11.3499973, 77.732974	30 km/h	Medium
17	hospital	City Hospital	11.3451151, 77.7300887	30 km/h	Medium
18	clinic	K.B.N. Nursing Home	11.344835, 77.7310771	30 km/h	Medium
19	clinic	Kpn Nursing Home	11.3437022, 77.7304525	30 km/h	Medium
20	hospital	Dr Kokilasekar Nursing Hospital	11.3395874, 77.7269838	30 km/h	Medium
21	hospital	Kaviraj Ayurveda Hospital	11.3400349, 77.7298199	30 km/h	Medium
22	clinic	M.R Nursing Home	11.3386746, 77.7294262	30 km/h	Medium
24	hospital	Government Maternity Hospital, Agathiar	11.33716, 77.727075	30 km/h	Medium
25	clinic	Naseer Nursing Home	11.3364485, 77.7271691	30 km/h	Medium
26	clinic	Dr. R Kumaraswamy Sexologist Clinic	11.3396057, 77.7221701	30 km/h	Medium
27	clinic	Janet Nursing Home	11.3396455, 77.7203698	30 km/h	Medium



	type	name	coordinates	speed_limit	risk_level
28	hospital	Dr. Pondiperumal Hospital	11.3390924, 77.7205408	30 km/h	Medium
29	clinic	Newlife Fertility Centre	11.3389396, 77.7213358	30 km/h	Medium
30	hospital	Guhan ENT Hospital	11.339489, 77.721001	30 km/h	Medium
31	hospital	Dr. Agarwal's Eye Hospital Ltd. - Erode	11.3421842, 77.7173066	30 km/h	Medium
32	hospital	Universal Hospital	11.3411046, 77.7185217	30 km/h	Medium
33	hospital	Erode Kidney's Centre	11.3383801, 77.7164201	30 km/h	Medium
34	hospital	Duraisamy Hospital	11.3391625, 77.7187054	30 km/h	Medium
35	hospital	Srimathi Murugesan Hospital	11.3389205, 77.7187791	30 km/h	Medium
36	hospital	Devi Hospital	11.34116, 77.718307	30 km/h	Medium
37	hospital	Abisek Medical Centre	11.3415975, 77.7191789	30 km/h	Medium
38	hospital	KMCH Speciality Hospital	11.33911, 77.716284	30 km/h	Medium
39	hospital	SCS Hospital And Urology Clinic	11.3410253, 77.718043	30 km/h	Medium
40	hospital	Anusha Hospital	11.3397168, 77.7166805	30 km/h	Medium
41	clinic	Vanalika Homoeo Centre	11.341349, 77.717987	30 km/h	Medium
42	hospital	Sri Vijaya Hitech Hospital	11.3400011, 77.7192251	30 km/h	Medium
43	hospital	Suriya Hospital	11.340248, 77.7186452	30 km/h	Medium
44	clinic	Skin Care Clinic	11.3409042, 77.7178413	30 km/h	Medium
45	hospital	Care Hospital	11.338443, 77.716511	30 km/h	Medium
46	hospital	Abitha Eye Hospital	11.34021, 77.7187589	30 km/h	Medium
47	hospital	Ortho Life Hospital	11.3395729, 77.7167329	30 km/h	Medium
48	hospital	Shri Vijaiah Trauma Care Hospital	11.3418935, 77.7193036	30 km/h	Medium
49	clinic	Sathyavathi Ramalingam Clinic	11.3380366, 77.7166875	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
50	hospital	SRC Hospital	11.3413999, 77.7177834	30 km/h	Medium
51	hospital	Nalan Hospital	11.3399703, 77.716773	30 km/h	Medium
52	hospital	Surya Hospital	11.3400026, 77.7190977	30 km/h	Medium
53	clinic	Dr. Chandran Skin Laser Centre	11.3413527, 77.7174891	30 km/h	Medium
54	hospital	Sri Hari Hospital	11.338357, 77.7164204	30 km/h	Medium
55	hospital	District Hospital, Eroda	11.3393048, 77.717926	30 km/h	Medium
57	hospital	L.V.S. Eye Hospital	11.3385839, 77.7156597	30 km/h	Medium
58	hospital	Annai Ent and Head and Neck Care Center	11.3387785, 77.7149034	30 km/h	Medium
59	hospital	Shri Preethe Hospital	11.3385944, 77.7157979	30 km/h	Medium
60	hospital	Dr Nsk Hospital	11.3381737, 77.7153821	30 km/h	Medium
61	hospital	Keran Hospital	11.3400456, 77.7154808	30 km/h	Medium
62	hospital	Gem Hospital	11.338106, 77.7155077	30 km/h	Medium
63	clinic	Madhu Surgical Clinic	11.3386602, 77.7143441	30 km/h	Medium
64	pharmacy	Tava Drug Mart	11.3436578, 77.7182673	30 km/h	Medium
65	hospital	Senthil Multispeciality Hospital	11.338983, 77.7138529	30 km/h	Medium
66	hospital	Erode Trust Hospital	11.3399422, 77.7134188	30 km/h	Medium
67	hospital	Sri Athi Sathya Hospital	11.3392651, 77.7126583	30 km/h	Medium
68	hospital	Arc Fertility Hospital	11.3397231, 77.7130655	30 km/h	Medium
69	clinic	RB Kids Clinic	11.339221, 77.713915	30 km/h	Medium
70	clinic	Erode Women and Children Clinic	11.3420279, 77.7116815	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
71	hospital	Vanjee Multispeciality Dental Centre	11.3418385, 77.7132218	30 km/h	Medium
72	hospital	Ranm Malathy Vijayakumar Hospital	11.3413334, 77.708922	30 km/h	Medium
74	hospital	K.G. Baby Hospital	11.343848, 77.699081	30 km/h	Medium
75	hospital	Veena Hospital	11.3367614, 77.6366566	30 km/h	Medium
77	hospital	Irt Hospital	11.2803603, 77.5644118	30 km/h	Medium
78	hospital	Gen Siddha Hospital	11.2375033, 77.5059797	30 km/h	Medium
79	hospital	Vijayamangalm Government Hospital	11.2382827, 77.501687	30 km/h	Medium
81	hospital	Aravind Eye Care Hospital	11.1729469, 77.4574467	30 km/h	Medium
82	clinic	Sri Maha Annai Clinic	11.1707162, 77.4536498	30 km/h	Medium
83	hospital	Ram Doctor Hospital	11.1709391, 77.4532808	30 km/h	Medium
84	clinic	Kumaran Clinic	11.1697553, 77.451543	30 km/h	Medium
85	hospital	Sri Aravindhar Hospital	11.1697756, 77.4448276	30 km/h	Medium
86	clinic	Dr. Raja Clinic	11.1278464, 77.3927768	30 km/h	Medium
87	clinic	V.S.A Saran Clinic	11.1047087, 77.356983	30 km/h	Medium
88	hospital	AG Hospital, Tiruppur	11.1090267, 77.3528045	30 km/h	Medium
89	hospital	Nallini Hospital	11.1091685, 77.353517	30 km/h	Medium
90	clinic	Ramasamy Skin Clinic	11.104714, 77.348272	30 km/h	Medium
91	hospital	Lotus Eye Hospital	11.1031666, 77.3474352	30 km/h	Medium
92	hospital	Sankara Hospital , Tiruppur	11.0996262, 77.3440224	30 km/h	Medium
94	hospital	Vimal Hospital - Tiruppur	11.09742, 77.349707	30 km/h	Medium
95	clinic	Eswaran Poly Clinic	11.097679, 77.3470729	30 km/h	Medium



	type	name	coordinates	speed_limit	risk_level
96	hospital	RJR Herbal Hospitals	11.096753, 77.346988	30 km/h	Medium
97	clinic	Miracle Healing Zone	11.0972324, 77.3470134	30 km/h	Medium
98	hospital	Ideal Homeo care	11.0966359, 77.3498083	30 km/h	Medium
99	hospital	K N Children Hospital	11.0964068, 77.3495315	30 km/h	Medium
100	clinic	Sree Shanthoshi gastro clinic	11.0954216, 77.3511899	30 km/h	Medium
101	hospital	NSK Hospital, Tiruppur	11.0961562, 77.3494699	30 km/h	Medium
102	hospital	AMC Super Speciality Hospital	11.0963178, 77.3490793	30 km/h	Medium
103	hospital	PN Hospital - Tiruppur	11.09041, 77.348581	30 km/h	Medium
104	hospital	Ars Hospitals - Tirupur	11.0880071, 77.3469948	30 km/h	Medium
105	hospital	Divya Hospital, Tiruppur	11.0874791, 77.3471518	30 km/h	Medium

### Crowded Spots

	type	name	coordinates	speed_limit	risk_level
0	school	Ssri Valliappa Vidhayalayam mat hr school	11.4004878, 77.7794381	30 km/h	Medium
8	marketplace	Weekly Market	11.3605669, 77.7488199	30 km/h	Medium
16	school	Municipality Girls Higher secondary school	11.3495618, 77.7325011	30 km/h	Medium
23	school	E.V.R. Govt Girls Hr. Sec School	11.3371265, 77.7266283	30 km/h	Medium
56	school	Sengunthar matriculation School	11.3407075, 77.7195086	30 km/h	Medium
73	school	Nandha Central City School (City Campus)	11.3409392, 77.7047156	30 km/h	Medium
76	college	Government polytechnic college	11.2907053, 77.5698726	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
80	college	Sasurie Engineering College	11.2171482, 77.4898552	30 km/h	Medium
93	school	KSC Boys High School	11.0995669, 77.3505782	30 km/h	Medium

## Route Photos of Risky Spots



**Risk Type:** Roundabout

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.37086, 77.74828



**Risk Type:** U-Turn

**Risk Level:** High

**Speed Limit:** 10 KM/Hr

**Coordinates:** 11.3932306, 77.7707764





**Risk Type:** U-Turn

**Risk Level:** High

**Speed Limit:** 10 KM/Hr

**Coordinates:** 11.3940053, 77.77149639999999



**Risk Type:** U-Turn

**Risk Level:** High

**Speed Limit:** 10 KM/Hr

**Coordinates:** 11.3594743, 77.740701





**Risk Type: U-Turn**

**Risk Level: High**

**Speed Limit: 10 KM/Hr**

**Coordinates: 11.3628396, 77.7470307**



**Risk Type: Turn**

**Risk Level: High**

**Speed Limit: 15 KM/Hr**

**Coordinates: 11.44024, 77.87528**



**Risk Type: Turn**

**Risk Level: High**

**Speed Limit: 15 KM/Hr**

**Coordinates: 11.44898, 77.87410**





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.45352, 77.85698



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.45847, 77.85140





**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.45898, 77.85135**



**Risk Type: Turn**

**Risk Level: High**

**Speed Limit: 15 KM/Hr**

**Coordinates: 11.46303, 77.84945**



**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.46302, 77.84874**





**Risk Type:** Blind Spot

**Risk Level:** Blind Spot

**Speed Limit:** 10 KM/Hr

**Coordinates:** 11.39329, 77.77072



**Risk Type:** Blind Spot

**Risk Level:** Blind Spot

**Speed Limit:** 10 KM/Hr

**Coordinates:** 11.39396, 77.77155





**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.36538, 77.74812**



**Risk Type: Blind Spot**

**Risk Level: Blind Spot**

**Speed Limit: 10 KM/Hr**

**Coordinates: 11.35956, 77.74067**



**Risk Type: Blind Spot**

**Risk Level: Blind Spot**

**Speed Limit: 10 KM/Hr**

**Coordinates: 11.36284, 77.74703**





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.36265, 77.74697



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.34172, 77.72823





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.33937, 77.72895



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.33916, 77.72890



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.34103, 77.71694





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.34409, 77.69647



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.33812, 77.64960





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.33909, 77.64147



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.33830, 77.64041



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.33828, 77.63811





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.32833, 77.62971



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.32814, 77.62919





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.23716, 77.50666



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.23697, 77.50655



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.23686, 77.50233





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.23425, 77.50116



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.23319, 77.49954





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.18314, 77.46241



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.17834, 77.46162



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.17491, 77.45955





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.17380, 77.45745



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.17130, 77.45586





**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.16960, 77.44428**



**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.16945, 77.44371**



**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.15154, 77.42313**





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.14979, 77.42204



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.14879, 77.42014





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.13877, 77.41639



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.13562, 77.41279



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.13004, 77.40328





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.12471, 77.38664



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.12243, 77.38300





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.11673, 77.37277



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.11572, 77.37284



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.11507, 77.37174





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.11383, 77.37073



**Risk Type:** Blind Spot

**Risk Level:** Blind Spot

**Speed Limit:** 10 KM/Hr

**Coordinates:** 11.11095, 77.37141





**Risk Type: Turn**

**Risk Level: High**

**Speed Limit: 15 KM/Hr**

**Coordinates: 11.10279, 77.34650**



**Risk Type: Blind Spot**

**Risk Level: Blind Spot**

**Speed Limit: 10 KM/Hr**

**Coordinates: 11.10131, 77.34661**



**Risk Type: Turn**

**Risk Level: High**

**Speed Limit: 15 KM/Hr**

**Coordinates: 11.10160, 77.34802**



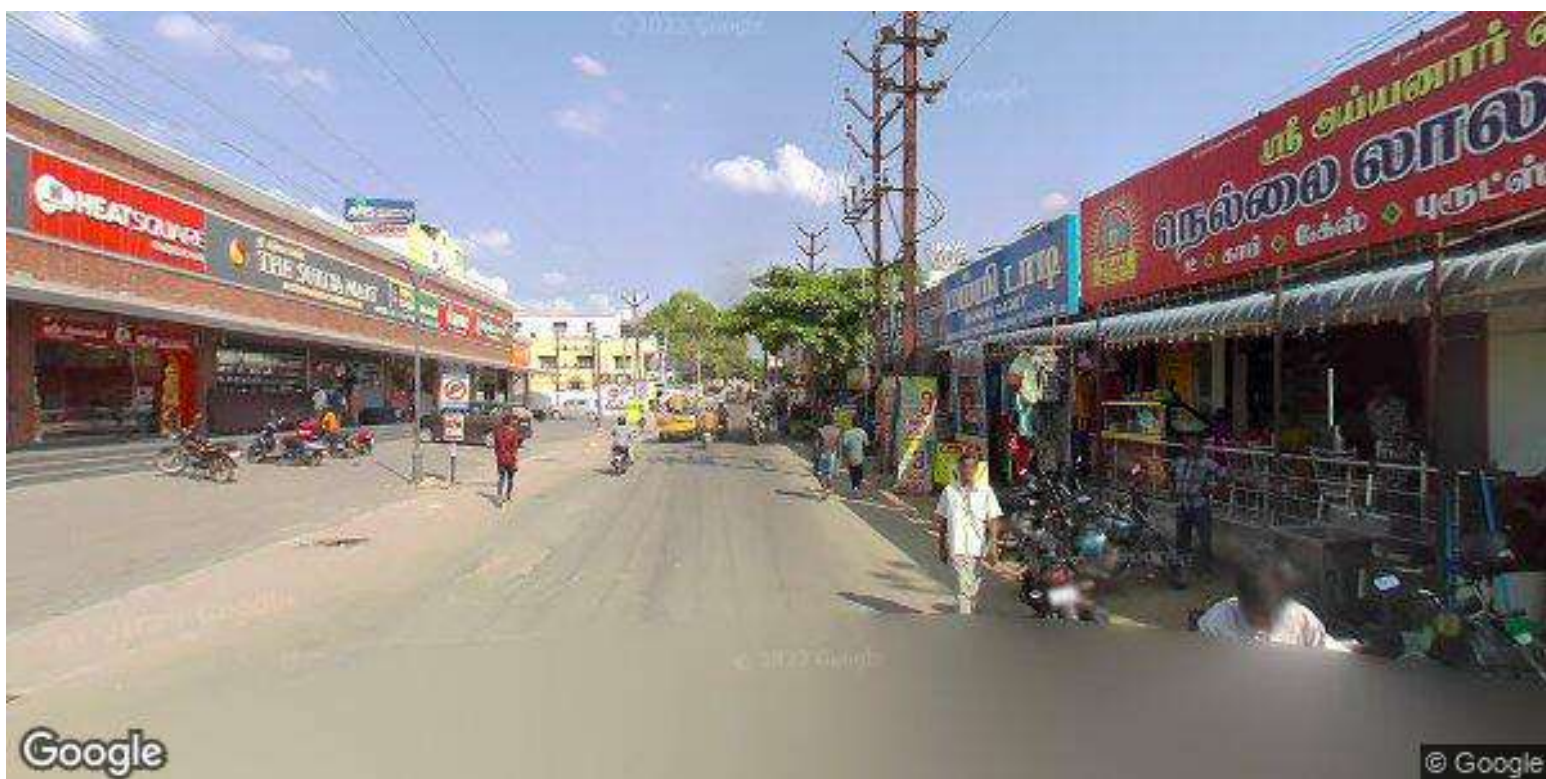


**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.08836, 77.34596



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.08803, 77.34621





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.08668, 77.34874



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.08544, 77.34832



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.08589, 77.34591

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