



# IndianOil

## JOURNEY RISK MANAGEMENT (JRM) STUDY

### Salem Terminal to T T AUTO FUELS

#### 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.

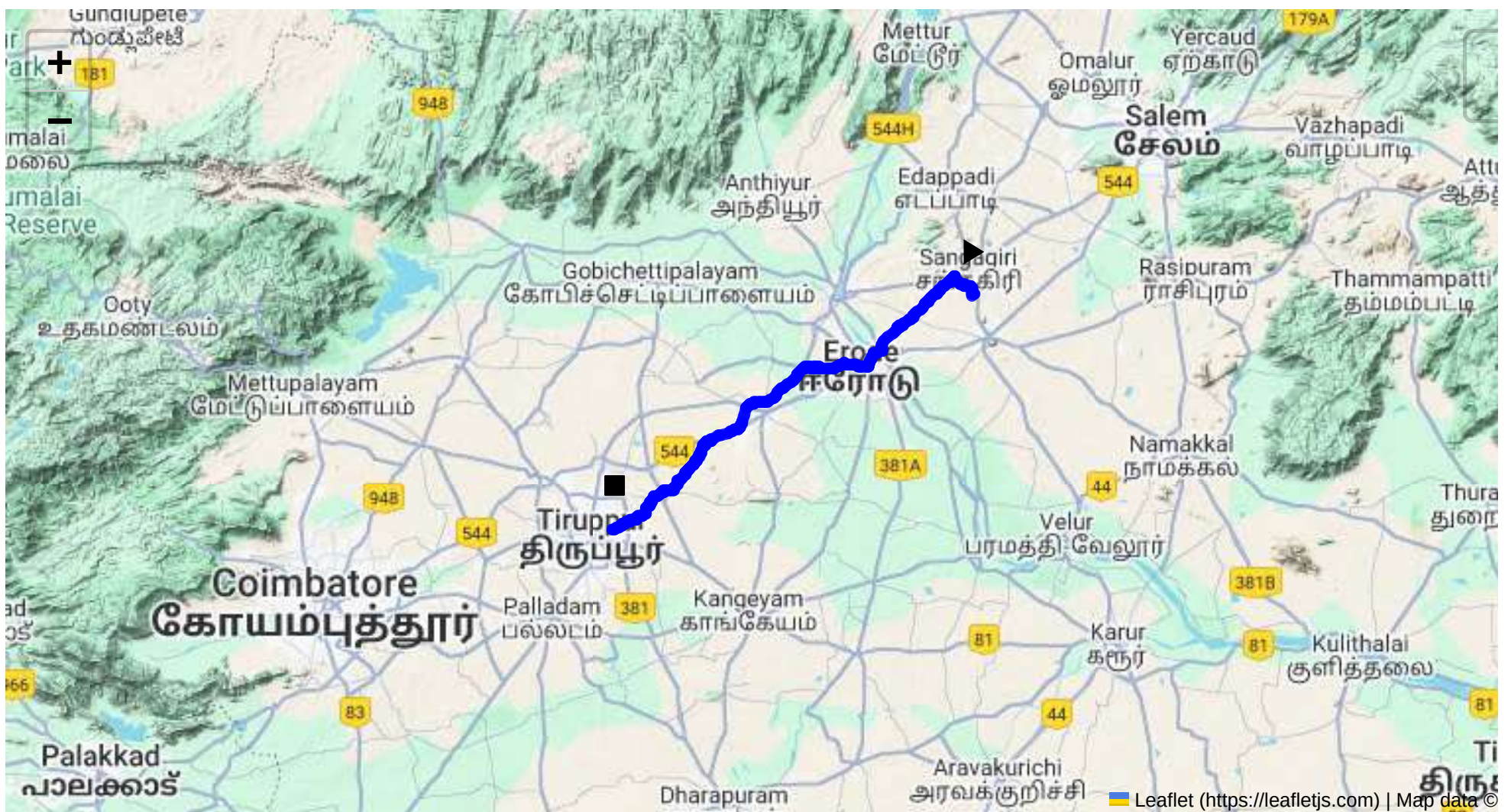
## **Compliance with Government Directives**

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: 76.58 km**  
**Estimated Duration: 1.9 hours**  
**Adjusted Duration (Heavy Vehicle): 2.4 hours**  
**Start: (11.4381, 77.8734)**  
**End: (11.116448, 77.371284)**



## Welcome to the Journey Risk Management Study

### Route Analysis Report

#### 1. Overview of the Route Map

The route begins in Sangagiri, Tamil Nadu, traveling through Tiruchengode, Pallipalayam, and Nasiyanur before reaching Mannarai, Tiruppur. This route covers approximately 76.58 kilometers, typically taking



about 1.93 hours for heavy vehicles carrying hazardous materials. The journey involves mainly regional roads, with segments through urban areas and industrial zones.

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

- **Typical Weather:** The region experiences a tropical climate with hot summers, moderate monsoons, and mild winters.
- **Monsoon Season:** The southwest monsoon from June to September can lead to heavy rainfall and potential flooding, causing road surface waterlogging.
- **Hazards:** Slippery roads during rains and reduced visibility due to fog in the early morning during winter months.

## 3. Traffic Patterns and Congestion-Prone Areas

- **Peak Hours:** Morning (8 AM - 10 AM) and evening (5 PM - 7 PM) times are the heaviest, especially near Pallipalayam and Tiruppur.
- **Congestion Zones:** Tiruchengode and Pallipalayam are known for traffic bottlenecks. Industrial activities in Tiruppur cause additional delays.

## 4. Road Quality and Infrastructure

- **Primary Challenges:** Mixed road conditions with sections that may be poorly maintained, especially in rural areas.
- **Road Infrastructure:** Some stretches lack adequate shoulder space for heavy vehicles and poor signage may be an issue.

## 5. Suggestions for Alternative Routes

- **Emergency Alternatives:** In case of road blockages, consider routes through major highways like NH44 as detours, though these may increase travel time.

## 6. Local Regulations Affecting Hazardous Material Transport

- **Regulations:** Adherence to local laws is crucial, especially regarding permitted travel times for hazardous materials and necessary documentation.
- **Transport Restrictions:** Check for any city-specific restrictions that might affect transit through urban areas.

## 7. Historical Incidents Involving Heavy Vehicles or Hazardous Materials

- **Incident Overview:** Previous incidents mainly involve overturning due to over-speeding and inadequate road conditions. Past incidents highlight the need for caution on sharp turns and during overtaking.

## 8. Environmental Considerations and Sensitive Areas

- **Sensitive Areas:** Proximity to water bodies in some areas requires heightened precautions to prevent contamination in case of spills.
- **Conservation Zones:** Watch for areas close to agricultural zones where community health could be affected by any hazardous materials release.

## 9. Communication Coverage

- **Dead Zones:** Possible network issues in rural stretches; ensure communication systems are prepared for potential dropouts, especially near hill regions.

## 10. Estimated Emergency Response Times

- **Response Times:** Varies significantly: relatively faster in urban areas compared to isolated rural areas where additional time may be needed.

## 11. Overall Summary of Risk Assessment

- **Moderate Risk:** The route presents a moderate risk due to road conditions and traffic patterns. Attention to weather forecasts and real-time traffic updates is crucial. Safety measures, including regular vehicle checks and adherence to speed limits, are advised to mitigate risks. Communication plans should accommodate potential zones with poor network coverage, ensuring emergency contacts are established. Additionally, drivers should be prepared and educated about alternative routes for unforeseen circumstances.

### 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	Turn	High	11.43968, 77.87345	15 KM/Hr
4	Turn	High	11.44024, 77.87528	15 KM/Hr
5	Turn	High	11.44898, 77.87410	15 KM/Hr
6	Turn	Medium	11.45357, 77.85789	30 KM/Hr
7	Turn	High	11.45352, 77.85698	15 KM/Hr
8	Turn	Medium	11.45847, 77.85140	30 KM/Hr
9	Turn	Medium	11.45898, 77.85135	30 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
10	Turn	Medium	11.46303, 77.84945	30 KM/Hr
11	Turn	High	11.46314, 77.84928	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	11.36277, 77.74708	10 KM/Hr
17	Turn	High	11.36301, 77.74690	15 KM/Hr
18	Blind Spot	Blind Spot	11.36274, 77.74637	10 KM/Hr
19	Turn	High	11.36298, 77.74681	15 KM/Hr
20	Blind Spot	Blind Spot	11.36289, 77.74701	10 KM/Hr
21	Turn	Medium	11.36256, 77.74686	30 KM/Hr
22	Turn	Medium	11.34219, 77.72834	30 KM/Hr
23	Blind Spot	Blind Spot	11.33920, 77.72902	10 KM/Hr
24	Blind Spot	Blind Spot	11.34079, 77.71710	10 KM/Hr
25	Blind Spot	Blind Spot	11.34097, 77.71715	10 KM/Hr
26	Turn	Medium	11.34409, 77.69656	30 KM/Hr
27	Turn	Medium	11.33894, 77.64115	30 KM/Hr
28	Turn	Medium	11.33849, 77.64081	30 KM/Hr
29	Turn	Medium	11.33823, 77.63832	30 KM/Hr
30	Turn	High	11.32831, 77.62967	15 KM/Hr
31	Turn	High	11.32838, 77.62939	15 KM/Hr
32	Turn	Medium	11.23724, 77.50686	30 KM/Hr
33	Turn	High	11.23704, 77.50676	15 KM/Hr
34	Blind Spot	Blind Spot	11.23684, 77.50214	10 KM/Hr
35	Turn	Medium	11.23636, 77.50216	30 KM/Hr
36	Turn	High	11.23376, 77.50086	15 KM/Hr
37	Turn	Medium	11.23312, 77.49948	30 KM/Hr
38	Turn	Medium	11.23043, 77.49769	30 KM/Hr
39	Turn	Medium	11.18367, 77.46281	30 KM/Hr
40	Turn	Medium	11.17885, 77.46179	30 KM/Hr
41	Turn	Medium	11.17511, 77.45972	30 KM/Hr
42	Turn	Medium	11.17361, 77.45725	30 KM/Hr
43	Turn	Medium	11.17139, 77.45597	30 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
44	Turn	High	11.16956, 77.44389	15 KM/Hr
45	Turn	Medium	11.16375, 77.43686	30 KM/Hr
46	Turn	Medium	11.16269, 77.43118	30 KM/Hr
47	Turn	Medium	11.15200, 77.42396	30 KM/Hr
48	Turn	Medium	11.15178, 77.42342	30 KM/Hr
49	Turn	Medium	11.14998, 77.42231	30 KM/Hr
50	Turn	Medium	11.14907, 77.42034	30 KM/Hr
51	Turn	Medium	11.13921, 77.41662	30 KM/Hr
52	Turn	Medium	11.13754, 77.41432	30 KM/Hr
53	Turn	Medium	11.13550, 77.41259	30 KM/Hr
54	Turn	Medium	11.13020, 77.40343	30 KM/Hr
55	Turn	Medium	11.12984, 77.40288	30 KM/Hr
56	Turn	Medium	11.12508, 77.38808	30 KM/Hr
57	Turn	Medium	11.12463, 77.38645	30 KM/Hr
58	Turn	Medium	11.12259, 77.38316	30 KM/Hr
59	Turn	Medium	11.12080, 77.38194	30 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
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

	type	name	coordinates	speed_limit	risk_level
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	Dhanvantri Critical Care Centre	11.35099, 77.730508	30 km/h	Medium
14	hospital	Indrajith Yoga Nature Cure Hospital	11.3499973, 77.732974	30 km/h	Medium
16	hospital	City Hospital	11.3451151, 77.7300887	30 km/h	Medium
17	hospital	Kumudha Hospital	11.3467172, 77.7306797	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	hospital	Dr. Pondiperumal Hospital	11.3390924, 77.7205408	30 km/h	Medium
28	clinic	Newlife Fertility Centre	11.3389396, 77.7213358	30 km/h	Medium
29	hospital	Guhan ENT Hospital	11.339489, 77.721001	30 km/h	Medium
30	hospital	Universal Hospital	11.3411046, 77.7185217	30 km/h	Medium
31	hospital	Duraisamy Hospital	11.3391625, 77.7187054	30 km/h	Medium



	type	name	coordinates	speed_limit	risk_level
32	hospital	Srimathi Murugeshan Hospital	11.3389205, 77.7187791	30 km/h	Medium
33	hospital	Devi Hospital	11.34116, 77.718307	30 km/h	Medium
34	hospital	Abisek Medical Centre	11.3415975, 77.7191789	30 km/h	Medium
35	clinic	Janet Nursing Home	11.3396455, 77.7203698	30 km/h	Medium
36	hospital	SCS Hospital And Urology Clinic	11.3410253, 77.718043	30 km/h	Medium
37	clinic	Vanalikaa Homoeo Centre	11.341349, 77.717987	30 km/h	Medium
38	clinic	Dr. Padmanaban Heart Clinic	11.337426, 77.7184453	30 km/h	Medium
39	hospital	Sri Vijaya Hitech Hospital	11.3400011, 77.7192251	30 km/h	Medium
40	hospital	Suriya Hospital	11.340248, 77.7186452	30 km/h	Medium
41	clinic	Skin Care Clinic	11.3409042, 77.7178413	30 km/h	Medium
42	hospital	Abitha Eye Hospital	11.34021, 77.7187589	30 km/h	Medium
43	hospital	Shri Vijaiah Trauma Care Hospital	11.3418935, 77.7193036	30 km/h	Medium
44	hospital	SRC Hospital	11.3413999, 77.7177834	30 km/h	Medium
45	hospital	Surya Hospital	11.3400026, 77.7190977	30 km/h	Medium
46	clinic	Dr. Chandran Skin Laser Centre	11.3413527, 77.7174891	30 km/h	Medium
47	hospital	District Hospital, Eroda	11.3393048, 77.717926	30 km/h	Medium
49	hospital	Dr. Agarwal's Eye Hospital Ltd. - Erode	11.3421842, 77.7173066	30 km/h	Medium
50	hospital	L.V.S. Eye Hospital	11.3385839, 77.7156597	30 km/h	Medium
51	hospital	Erode Kidney's Centre	11.3383801, 77.7164201	30 km/h	Medium
52	hospital	Shri Preethe Hospital	11.3385944, 77.7157979	30 km/h	Medium
53	hospital	Dr Nsk Hospital	11.3381737, 77.7153821	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
54	hospital	KMCH Speciality Hospital	11.33911, 77.716284	30 km/h	Medium
55	hospital	Anusha Hospital	11.3397168, 77.7166805	30 km/h	Medium
56	hospital	Care Hospital	11.338443, 77.716511	30 km/h	Medium
57	hospital	Ortho Life Hospital	11.3395729, 77.7167329	30 km/h	Medium
58	clinic	Sathyavathi Ramalingam Clinic	11.3380366, 77.7166875	30 km/h	Medium
59	hospital	Keran Hospital	11.3400456, 77.7154808	30 km/h	Medium
60	hospital	Gem Hospital	11.338106, 77.7155077	30 km/h	Medium
61	hospital	Nalan Hospital	11.3399703, 77.716773	30 km/h	Medium
62	hospital	Sri Hari Hospital	11.338357, 77.7164204	30 km/h	Medium
63	hospital	Annai Ent and Head and Neck Care Center	11.3387785, 77.7149034	30 km/h	Medium
64	clinic	Madhu Surgical Clinic	11.3386602, 77.7143441	30 km/h	Medium
65	pharmacy	Tava Drug Mart	11.3436578, 77.7182673	30 km/h	Medium
66	clinic	RB Kids Clinic	11.339221, 77.713915	30 km/h	Medium
67	hospital	Senthil Multispeciality Hospital	11.338983, 77.7138529	30 km/h	Medium
68	hospital	Erode Trust Hospital	11.3399422, 77.7134188	30 km/h	Medium
69	hospital	Arc Fertility Hospital	11.3397231, 77.7130655	30 km/h	Medium
70	hospital	Vanjee Multispeciality Dental Centre	11.3418385, 77.7132218	30 km/h	Medium
71	hospital	Arun Hospital	11.3447248, 77.7138215	30 km/h	Medium
72	clinic	Erode Women and Children Clinic	11.3420279, 77.7116815	30 km/h	Medium
73	hospital	Ranm Malathy Vijayakumar Hospital	11.3413334, 77.708922	30 km/h	Medium
75	hospital	K.G. Baby Hospital	11.343848, 77.699081	30 km/h	Medium

	type	name	coordinates	speed_limit	risk_level
76	hospital	Veena Hospital	11.3367614, 77.6366566	30 km/h	Medium
78	hospital	Irt Hospital	11.2803603, 77.5644118	30 km/h	Medium
80	hospital	Gen Siddha Hospital	11.2375033, 77.5059797	30 km/h	Medium
81	hospital	Vijayamangalm Government Hospital	11.2382827, 77.501687	30 km/h	Medium
83	hospital	Aravind Eye Care Hospital	11.1729469, 77.4574467	30 km/h	Medium
84	clinic	Sri Maha Annai Clinic	11.1707162, 77.4536498	30 km/h	Medium
85	hospital	Ram Doctor Hospital	11.1709391, 77.4532808	30 km/h	Medium
86	clinic	Kumaran Clinic	11.1697553, 77.451543	30 km/h	Medium
87	hospital	Sri Aravindhar Hospital	11.1697756, 77.4448276	30 km/h	Medium
88	clinic	Dr. Raja Clinic	11.1278464, 77.3927768	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
15	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
48	school	Sengunthar matriculation School	11.3407075, 77.7195086	30 km/h	Medium
74	school	Nandha Central City School (City Campus)	11.3409392, 77.7047156	30 km/h	Medium



	type	name	coordinates	speed_limit	risk_level
77	college	Government polytechnic college	11.2907053, 77.5698726	30 km/h	Medium
79	school	Bharathi Matriculation School	11.2494613, 77.5307028	30 km/h	Medium
82	college	Sasurie Engineering College	11.2171482, 77.4898552	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:** 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:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.45357, 77.85789



**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:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.46303, 77.84945



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.46314, 77.84928



**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: 11.36277, 77.74708**



**Risk Type: Turn**

**Risk Level: High**

**Speed Limit: 15 KM/Hr**

**Coordinates: 11.36301, 77.74690**





**Risk Type:** Blind Spot

**Risk Level:** Blind Spot

**Speed Limit:** 10 KM/Hr

**Coordinates:** 11.36274, 77.74637



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.36298, 77.74681





**Risk Type:** Blind Spot  
**Risk Level:** Blind Spot  
**Speed Limit:** 10 KM/Hr  
**Coordinates:** 11.36289, 77.74701



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.36256, 77.74686



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.34219, 77.72834





Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 11.33920, 77.72902



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Coordinates: 11.34079, 77.71710





**Risk Type:** Blind Spot  
**Risk Level:** Blind Spot  
**Speed Limit:** 10 KM/Hr  
**Coordinates:** 11.34097, 77.71715



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.34409, 77.69656



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.33894, 77.64115





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.33849, 77.64081



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.33823, 77.63832





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.32831, 77.62967



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.32838, 77.62939



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.23724, 77.50686





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.23704, 77.50676



**Risk Type:** Blind Spot

**Risk Level:** Blind Spot

**Speed Limit:** 10 KM/Hr

**Coordinates:** 11.23684, 77.50214





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.23636, 77.50216



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.23376, 77.50086



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.23312, 77.49948





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.23043, 77.49769



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.18367, 77.46281





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.17885, 77.46179



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.17511, 77.45972



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.17361, 77.45725





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.17139, 77.45597



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.16956, 77.44389





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.16375, 77.43686



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.16269, 77.43118



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.15200, 77.42396





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.15178, 77.42342



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.14998, 77.42231





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.14907, 77.42034



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.13921, 77.41662



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.13754, 77.41432





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.13550, 77.41259



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.13020, 77.40343





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.12984, 77.40288



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.12508, 77.38808



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.12463, 77.38645





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.12259, 77.38316



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.12080, 77.38194

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