



# IndianOil

## JOURNEY RISK MANAGEMENT (JRM) STUDY

### Salem Terminal TO SEMALAI FILLING STATION

#### 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.

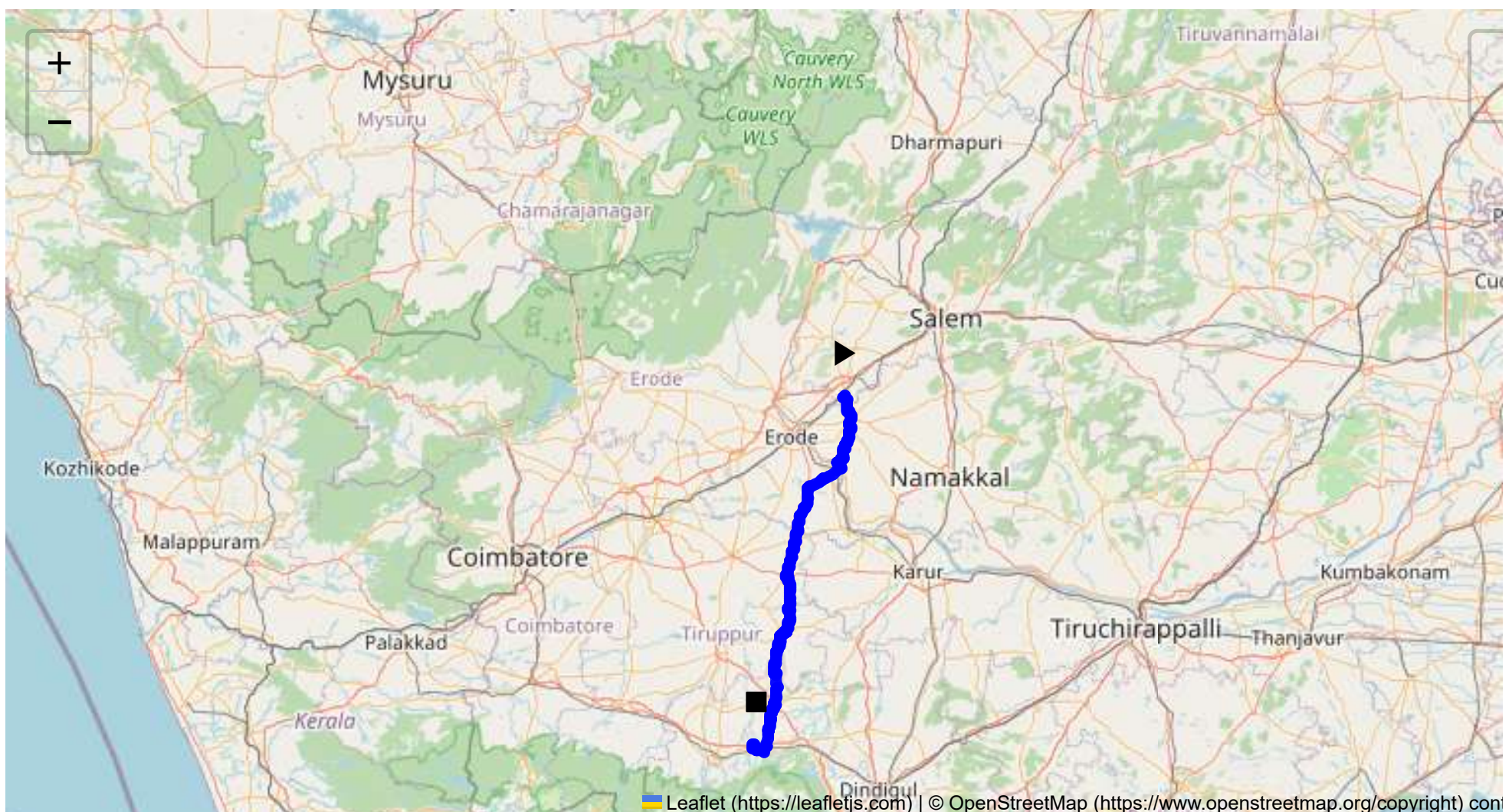
## **Compliance with Government Directives**

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: 131.65 km**  
**Estimated Duration: 3.2 hours**  
**Adjusted Duration (Heavy Vehicle): 4.0 hours**  
**Start: (11.4381, 77.8734)**  
**End: (10.482653, 77.625094)**



## Welcome to the Journey Risk Management Study

### 1. Overview of the Route Map

The route spans approximately 131.65 kilometers, starting from Sangagiri and ending at Manjanaickenpatti, Tamil Nadu. It includes checkpoints at Puthur, Tiruchengode, Elumathur, Mulanur, and Reddiapatti. This route navigates through both rural and semi-urban areas, involving a combination of state highways and local roads.



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

Tamil Nadu experiences a tropical climate, with most rain falling from October to December during the northeast monsoon. Therefore, the route can be prone to heavy rains and potential flooding during these months, particularly affecting low-lying areas. Beyond the monsoon, the region tends to be hot and dry, with high temperatures posing challenges for vehicles under strain.

## 3. Analysis of Traffic Patterns

- **Peak Hours:** Traffic tends to increase during morning hours (8:00 AM to 10:00 AM) and early evening (5:00 PM to 7:00 PM), especially near towns like Tiruchengode and intersections along state highways.
- **Congestion-Prone Areas:** Areas near school zones, local markets, and intersections, especially in Tiruchengode and Reddiapatti, are prone to congestion.

## 4. Assessment of Road Quality and Infrastructure

The road quality varies:

- **State Highways:** Generally well-paved and maintained, with regular signage and road markings.
- **Local Roads:** Some parts, especially in rural areas, might be poorly maintained, with potholes and narrow lanes, which could be challenging for heavy vehicles.

## 5. Suggestions for Alternative Routes for Emergencies

In case of road blockages or severe congestion, consider detours:

- Use NH 544 up to Karur for a smoother path, then divert towards Reddiapatti.
- Local advice and GPS mapping services should be utilized for real-time updates during an emergency.

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

Transporting hazardous materials in Tamil Nadu requires adherence to national safety regulations, including proper vehicle markings, driver certification, and adherence to speed and time restrictions designed to minimize risks in populated areas.

## 7. Overview of Historical Incidents

Historically, the region has experienced incidents involving vehicle overturns during monsoon seasons and sporadic road accidents due to human error. However, there have been few reported significant incidents directly involving hazardous materials on this specific route.

## 8. Environmental Considerations and Sensitive Areas

The route runs near agricultural lands, particularly in the Tiruchengode and Elumathur areas. It's important to minimize spills and emissions to avoid significant impacts on these sensitive ecosystems.

Proper waste disposal and minimizing noise pollution are crucial.

## 9. Analysis of Communication Coverage

Major portions of the route benefit from basic mobile network coverage. However, expect potential dead zones in more rural areas, particularly between Elumathur and Mulanur. Having an emergency communication plan in place is advised.

## 10. Estimated Emergency Response Times

- Urban/Semi-Urban Areas (e.g., Tiruchengode): 15-30 minutes.
- Rural Areas (e.g., between Puthur and Elumathur): 30-60 minutes or more, depending on accessibility and time of day.

## 12. Overall Summary of Risk Assessment

The route presents moderate risks, primarily due to weather-related challenges, variable road conditions, and the presence of sensitive environmental and populated areas. Preparedness for adverse weather and comprehensive adherence to safety and transport regulations will mitigate most risks associated with the transportation of hazardous materials. Regular updates from local authorities and traffic systems are recommended to navigate unforeseen incidents effectively.

### Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit
0	Roundabout	High	11.38395, 77.89480	15 KM/Hr
1	Roundabout	High	11.04637, 77.73761	15 KM/Hr
2	U-Turn	High	10.7948656, 77.7097512	10 KM/Hr
3	U-Turn	High	10.5975457, 77.6815853	10 KM/Hr
4	Turn	High	11.43961, 77.87341	15 KM/Hr
5	Turn	High	11.44029, 77.87544	15 KM/Hr
6	Turn	Medium	11.43111, 77.88170	30 KM/Hr
7	Turn	Medium	11.39983, 77.88377	30 KM/Hr
8	Turn	Medium	11.39706, 77.88825	30 KM/Hr
9	Turn	Medium	11.37868, 77.89498	30 KM/Hr
10	Turn	Medium	11.36899, 77.88928	30 KM/Hr
11	Turn	High	11.33280, 77.88831	15 KM/Hr
12	Turn	Medium	11.33186, 77.88712	30 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
13	Turn	Medium	11.31296, 77.88168	30 KM/Hr
14	Turn	Medium	11.31151, 77.88008	30 KM/Hr
15	Turn	Medium	11.30713, 77.87879	30 KM/Hr
16	Turn	High	11.30607, 77.87768	15 KM/Hr
17	Turn	Medium	11.29763, 77.87710	30 KM/Hr
18	Turn	Medium	11.29436, 77.87318	30 KM/Hr
19	Turn	Medium	11.27180, 77.87136	30 KM/Hr
20	Turn	High	11.27064, 77.86839	15 KM/Hr
21	Turn	Medium	11.26131, 77.86109	30 KM/Hr
22	Turn	Medium	11.26029, 77.85674	30 KM/Hr
23	Turn	High	11.25802, 77.85511	15 KM/Hr
24	Turn	High	11.24410, 77.86671	15 KM/Hr
25	Turn	Medium	11.24328, 77.86617	30 KM/Hr
26	Turn	Medium	11.24126, 77.85990	30 KM/Hr
27	Turn	High	11.24198, 77.85860	15 KM/Hr
28	Turn	Medium	11.22497, 77.84269	30 KM/Hr
29	Turn	Medium	11.21415, 77.81434	30 KM/Hr
30	Turn	Medium	11.21268, 77.81288	30 KM/Hr
31	Turn	Medium	11.20994, 77.81197	30 KM/Hr
32	Blind Spot	Blind Spot	11.18856, 77.77110	10 KM/Hr
33	Turn	Medium	11.16241, 77.77431	30 KM/Hr
34	Turn	Medium	11.13383, 77.76149	30 KM/Hr
35	Turn	Medium	11.07235, 77.74335	30 KM/Hr
36	Turn	High	11.04565, 77.73653	15 KM/Hr
37	Turn	Medium	11.03742, 77.73572	30 KM/Hr
38	Turn	High	10.99021, 77.72503	15 KM/Hr
39	Turn	High	10.98966, 77.72381	15 KM/Hr
40	Turn	Medium	10.95881, 77.71668	30 KM/Hr
41	Turn	High	10.94595, 77.71350	15 KM/Hr
42	Turn	Medium	10.94581, 77.71501	30 KM/Hr
43	Turn	Medium	10.94496, 77.71591	30 KM/Hr
44	Turn	Medium	10.92194, 77.72391	30 KM/Hr
45	Turn	Medium	10.91311, 77.72275	30 KM/Hr
46	Turn	High	10.86259, 77.72130	15 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
47	Turn	High	10.86104, 77.71718	15 KM/Hr
48	Turn	High	10.85600, 77.71804	15 KM/Hr
49	Turn	High	10.85518, 77.72005	15 KM/Hr
50	Turn	Medium	10.80385, 77.71537	30 KM/Hr
51	Turn	Medium	10.80201, 77.71281	30 KM/Hr
52	Turn	High	10.79643, 77.71104	15 KM/Hr
53	Turn	High	10.79643, 77.71007	15 KM/Hr
54	Blind Spot	Blind Spot	10.79721, 77.71007	10 KM/Hr
55	Turn	Medium	10.79654, 77.70953	30 KM/Hr
56	Turn	High	10.79467, 77.70954	15 KM/Hr
57	Turn	Medium	10.78459, 77.69624	30 KM/Hr
58	Turn	High	10.77980, 77.69495	15 KM/Hr
59	Turn	High	10.77969, 77.69616	15 KM/Hr
60	Turn	Medium	10.77428, 77.69636	30 KM/Hr
61	Turn	Medium	10.76873, 77.69436	30 KM/Hr
62	Turn	Medium	10.76782, 77.69347	30 KM/Hr
63	Turn	Medium	10.76483, 77.69290	30 KM/Hr
64	Turn	High	10.76431, 77.69200	15 KM/Hr
65	Turn	High	10.75667, 77.69119	15 KM/Hr
66	Blind Spot	Blind Spot	10.75602, 77.69334	10 KM/Hr
67	Turn	Medium	10.75002, 77.69088	30 KM/Hr
68	Turn	Medium	10.74415, 77.68647	30 KM/Hr
69	Turn	Medium	10.74225, 77.68679	30 KM/Hr
70	Turn	High	10.73507, 77.68457	15 KM/Hr
71	Turn	High	10.73480, 77.68403	15 KM/Hr
72	Turn	High	10.68446, 77.67872	15 KM/Hr
73	Turn	High	10.68352, 77.68269	15 KM/Hr
74	Turn	Medium	10.68310, 77.68277	30 KM/Hr
75	Turn	Medium	10.68096, 77.68132	30 KM/Hr
76	Turn	Medium	10.61950, 77.68434	30 KM/Hr
77	Turn	Medium	10.60315, 77.67915	30 KM/Hr
78	Blind Spot	Blind Spot	10.59755, 77.68159	10 KM/Hr
79	Turn	High	10.59875, 77.68048	15 KM/Hr
80	Turn	High	10.59843, 77.67976	15 KM/Hr

	Risk Type	Risk Level	Coordinates	Speed Limit
81	Turn	Medium	10.58970, 77.67627	30 KM/Hr
82	Turn	Medium	10.58682, 77.67683	30 KM/Hr
83	Turn	Medium	10.55784, 77.66656	30 KM/Hr
84	Turn	High	10.55713, 77.66668	15 KM/Hr
85	Blind Spot	Blind Spot	10.55574, 77.66785	10 KM/Hr
86	Turn	Medium	10.55561, 77.66689	30 KM/Hr
87	Turn	Medium	10.55537, 77.66668	30 KM/Hr
88	Turn	Medium	10.55020, 77.66778	30 KM/Hr
89	Turn	Medium	10.52665, 77.66385	30 KM/Hr
90	Turn	High	10.52443, 77.66453	15 KM/Hr
91	Turn	High	10.52435, 77.66368	15 KM/Hr
92	Turn	Medium	10.48431, 77.65553	30 KM/Hr
93	Turn	High	10.48327, 77.65443	15 KM/Hr
94	Turn	Medium	10.48116, 77.65462	30 KM/Hr
95	Turn	Medium	10.47963, 77.65347	30 KM/Hr
96	Turn	High	10.46869, 77.65015	15 KM/Hr
97	Turn	High	10.47600, 77.61944	15 KM/Hr
98	Turn	High	10.48489, 77.61927	15 KM/Hr
99	Turn	High	10.48591, 77.62082	15 KM/Hr
100	Turn	High	10.48521, 77.62190	15 KM/Hr
101	Turn	High	10.48216, 77.62293	15 KM/Hr

## Emergency Locations

	type	name	coordinates	speed_limit	risk_level
0	hospital	Tiruchengode, Goverment Hospital	11.3903328, 77.8920627	30 km/h	Medium
1	hospital	SPM Medical Centre,Tiruchengode	11.3881331, 77.8931963	30 km/h	Medium
5	clinic	Kongu Nursing Home	11.3783065, 77.8961134	30 km/h	Medium
6	hospital	T.C.A Hospital Tiruchengode	11.3791885, 77.8965774	30 km/h	Medium



	type	name	coordinates	speed_limit	risk_level
7	hospital	Soorya Multispecialty Hospital	11.3786429, 77.8931912	30 km/h	Medium
8	hospital	Tiruchengode Government Hospital	11.37645, 77.89426	30 km/h	Medium
10	hospital	Krishna Hospital, Namakkal	11.3754811, 77.8931817	30 km/h	Medium
11	police	கரட்டுப்பாளையம் காவல் நிலையம்	11.357586, 77.8922539	30 km/h	Medium
12	hospital	Government Hospital, Elumathur	11.18533, 77.772496	30 km/h	Medium
13	hospital	Malar Hospital, Muthur	11.0438049, 77.7361156	30 km/h	Medium
14	hospital	SIBI Hospital, Vellakoil	10.9569141, 77.7160216	30 km/h	Medium

## Crowded Spots

	type	name	coordinates	speed_limit	risk_level
2	school	அரசு ஆண்கள் மேல்நிலைப் பள்ளி	11.3850439, 77.8948279	30 km/h	Medium
3	school	அரசு பெண்கள் மேல்நிலைப் பள்ளி	11.3844247, 77.8949053	30 km/h	Medium
4	marketplace	திருச்செங்கோடு தினசரி காய்கறி சந்தை	11.3833608, 77.8970145	30 km/h	Medium
9	school	KSR Educational institution	11.3772013, 77.8908807	30 km/h	Medium

## Route Photos of Risky Spots





**Risk Type:** Roundabout

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.38395, 77.89480



**Risk Type:** Roundabout

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.04637, 77.73761





**Risk Type: U-Turn**

**Risk Level: High**

**Speed Limit: 10 KM/Hr**

**Coordinates: 10.7948656, 77.7097512**



**Risk Type: U-Turn**

**Risk Level: High**

**Speed Limit: 10 KM/Hr**

**Coordinates: 10.5975457, 77.6815853**



**Risk Type: Turn**

**Risk Level: High**

**Speed Limit: 15 KM/Hr**

**Coordinates: 11.44029, 77.87544**





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.43111, 77.88170



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.39983, 77.88377





**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.39706, 77.88825**



**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.37868, 77.89498**



**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 11.36899, 77.88928**





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.33280, 77.88831



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.33186, 77.88712





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.31296, 77.88168



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.31151, 77.88008



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.30713, 77.87879





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.30607, 77.87768



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.29763, 77.87710





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.27180, 77.87136



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.27064, 77.86839



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.26131, 77.86109





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.26029, 77.85674



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.25802, 77.85511





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 11.24410, 77.86671



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.24328, 77.86617



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.24126, 77.85990







**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.21415, 77.81434



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.21268, 77.81288



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.20994, 77.81197





**Risk Type:** Blind Spot  
**Risk Level:** Blind Spot  
**Speed Limit:** 10 KM/Hr  
**Coordinates:** 11.18856, 77.77110



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 11.16241, 77.77431





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.13383, 77.76149



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.07235, 77.74335



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 11.04565, 77.73653





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 11.03742, 77.73572



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.99021, 77.72503





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.98966, 77.72381



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.95881, 77.71668



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.94595, 77.71350





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.94581, 77.71501



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.94496, 77.71591





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.92194, 77.72391



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.91311, 77.72275



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.86259, 77.72130





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.86104, 77.71718



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.85600, 77.71804





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.85518, 77.72005



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.80385, 77.71537



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.80201, 77.71281





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.79643, 77.71104



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.79643, 77.71007





**Risk Type:** Blind Spot  
**Risk Level:** Blind Spot  
**Speed Limit:** 10 KM/Hr  
**Coordinates:** 10.79721, 77.71007



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.79654, 77.70953



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.79467, 77.70954





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.78459, 77.69624



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.77980, 77.69495





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.77969, 77.69616



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.77428, 77.69636



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.76873, 77.69436





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.76782, 77.69347



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.76483, 77.69290





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.76431, 77.69200



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.75667, 77.69119



**Risk Type:** Blind Spot  
**Risk Level:** Blind Spot  
**Speed Limit:** 10 KM/Hr  
**Coordinates:** 10.75602, 77.69334





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.75002, 77.69088



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.74415, 77.68647





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.74225, 77.68679



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.73507, 77.68457



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.73480, 77.68403





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.68446, 77.67872



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.68352, 77.68269





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.68310, 77.68277



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.68096, 77.68132



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.61950, 77.68434





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.60315, 77.67915



**Risk Type:** Blind Spot

**Risk Level:** Blind Spot

**Speed Limit:** 10 KM/Hr

**Coordinates:** 10.59755, 77.68159





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.59875, 77.68048



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.59843, 77.67976



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.58970, 77.67627





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.58682, 77.67683



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.55784, 77.66656





**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.55713, 77.66668



**Risk Type:** Blind Spot  
**Risk Level:** Blind Spot  
**Speed Limit:** 10 KM/Hr  
**Coordinates:** 10.55574, 77.66785



**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.55561, 77.66689





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.55537, 77.66668



**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.55020, 77.66778





**Risk Type:** Turn  
**Risk Level:** Medium  
**Speed Limit:** 30 KM/Hr  
**Coordinates:** 10.52665, 77.66385



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.52443, 77.66453



**Risk Type:** Turn  
**Risk Level:** High  
**Speed Limit:** 15 KM/Hr  
**Coordinates:** 10.52435, 77.66368





**Risk Type:** Turn

**Risk Level:** Medium

**Speed Limit:** 30 KM/Hr

**Coordinates:** 10.48431, 77.65553



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.48327, 77.65443





**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 10.48116, 77.65462**



**Risk Type: Turn**

**Risk Level: Medium**

**Speed Limit: 30 KM/Hr**

**Coordinates: 10.47963, 77.65347**



**Risk Type: Turn**

**Risk Level: High**

**Speed Limit: 15 KM/Hr**

**Coordinates: 10.46869, 77.65015**





**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.47600, 77.61944



**Risk Type:** Turn

**Risk Level:** High

**Speed Limit:** 15 KM/Hr

**Coordinates:** 10.48216, 77.62293

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