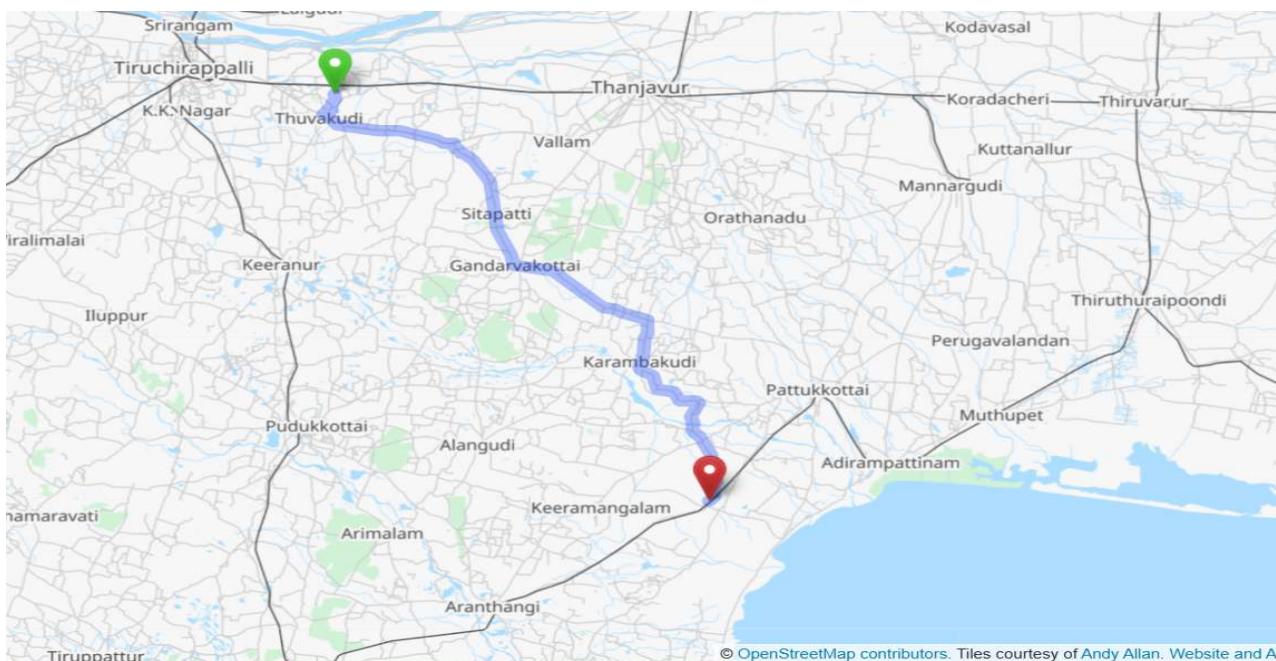
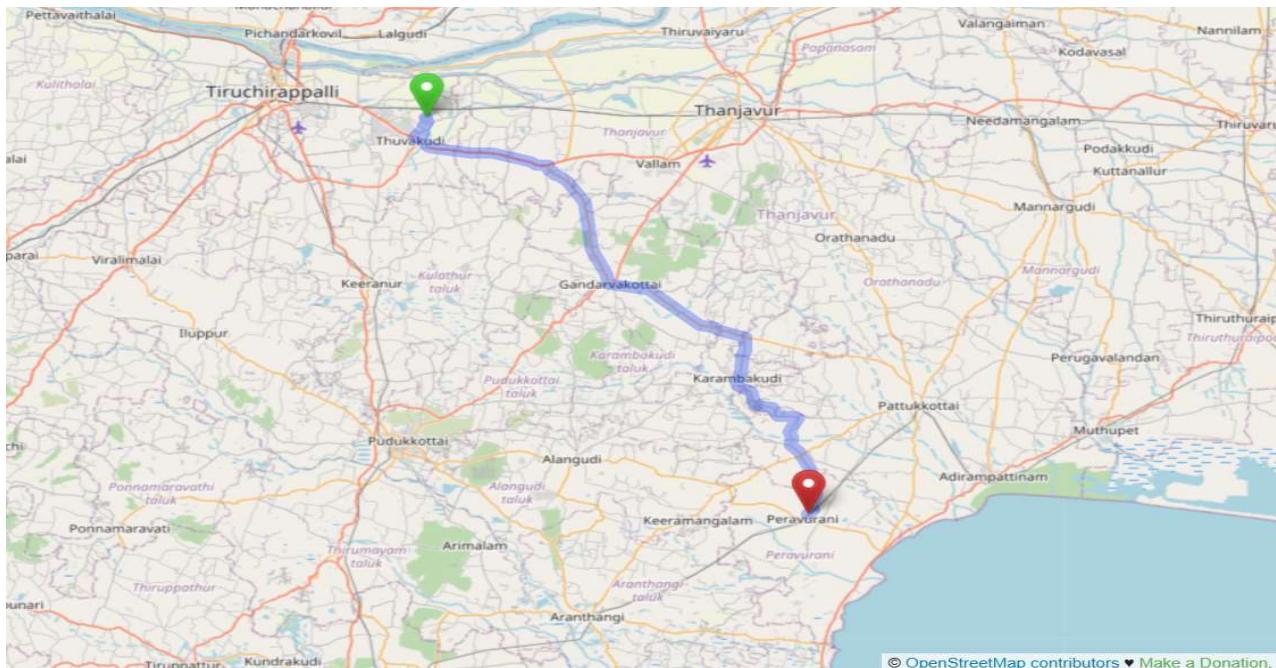




WELCOME TO JOURNEY
RISK MANAGEMENT
(JRM) STUDY USING
ARTIFICIAL
INTELLIGENCE (AI)
FOR IOCL TRICHY
TERMINAL

JOURNEY RISK MANAGEMENT REPORT

IOCL TIRCHY TERMINAL (10.7753, 78.8368) TO THIRUMALAI AGENCY (10.292974 , 79.206018) TOTAL DISTANCE – 87.2 KM



ALARP/JRM/TNSO/THIRUMALAI

JOURNEY RISK MANAGEMENT REPORT

Welcome to the Journey Risk Management Study for THIRUMALAI AGENCY

Total distance: 87.2 km; Start with: (10.7753 , 78.8368), End with: (10.292974 , 79.206018)

❖ Route Safety Analysis Report

1. Overview of the Route Map

The route from Trichy Terminal (T.N). Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi, At Jude Digital Studios, continue onto Thuvakudi to SIDCO & Indian oil Storage, Follow NH 83 and SH 99 to MDR 372/MDR705, Continue on MDR705. Take Karambakkudi Rd to Pattukkottai - Aranthangi Rd/Pudukkottai - Alangudi - Avanam - Pattukkottai Rd/Thanjavur - Kalayarkoil - Sayalkudi Rd/Thanjavur - Karaikudi - Kalaiyarkoil - Sayalkudi Rd in Thiruchitrambalam, Follow MDR829 to Main Rd/Peravurani - Aranthangi Rd/Peravurani Main Rd, and Total distance from Trichy Terminal To THIRUMALAI AGENCY IS 87.2 KM.

Typical Weather Conditions and Potential Weather-Related Hazards

Weather Conditions: Trichy Terminal (T.N) To THIRUMALAI AGENCY experiences a tropical climate with heavy monsoon rains from June to September, high humidity, and moderate temperatures throughout the year. The summers are short and sweltering; the winters are short, cool, and dry; and it is mostly clear year-round. Over the course of the year, the temperature typically varies from 60.8°F to 110°F and is rarely below 60.8°F to 110°F.

JOURNEY RISK MANAGEMENT REPORT

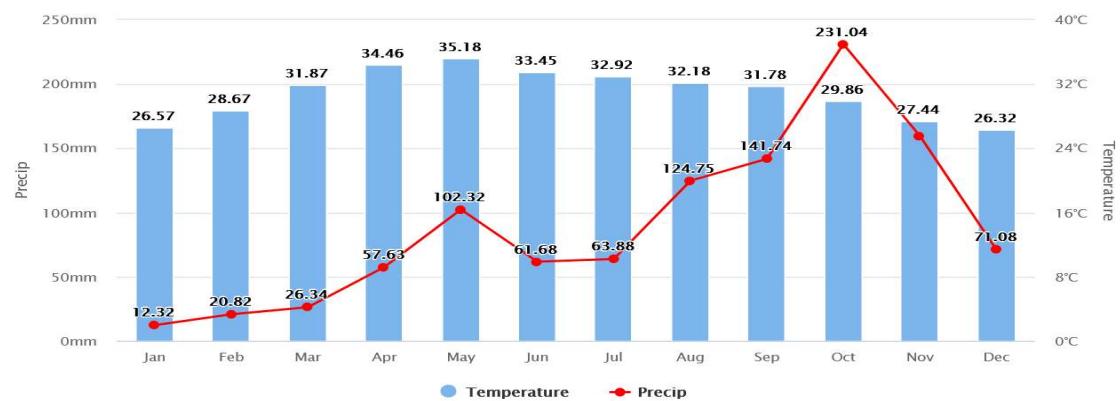
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °C (°F)	33.0 (91.4)	38.0 (100.4)	41.0 (105.8)	43.0 (109.4)	43.0 (109.4)	42.0 (107.6)	40.0 (104.0)	39.0 (102.2)	38.0 (100.4)	37.0 (98.6)	34.0 (93.2)	33.0 (91.4)	43.0 (109.4)
Average high °C (°F)	30.27 (86.49)	32.88 (91.18)	36.0 (96.8)	38.27 (100.89)	38.79 (101.82)	36.78 (98.2)	36.17 (97.11)	35.4 (95.72)	35.03 (95.05)	32.9 (91.22)	30.38 (86.68)	29.34 (84.81)	34.35 (93.83)
Daily mean °C (°F)	26.57 (79.83)	28.67 (83.61)	31.87 (89.37)	34.46 (94.03)	35.18 (95.32)	33.45 (92.21)	32.92 (91.26)	32.18 (89.92)	31.78 (89.2)	29.86 (85.75)	27.44 (81.39)	26.32 (79.38)	30.89 (87.6)
Average low °C (°F)	19.88 (67.78)	20.93 (69.67)	24.04 (75.27)	27.62 (81.72)	28.89 (84.0)	27.59 (81.66)	27.04 (80.67)	26.45 (79.61)	25.95 (78.71)	24.64 (76.35)	22.43 (72.37)	20.93 (69.67)	24.7 (76.46)
Record low °C (°F)	16.0 (60.8)	17.0 (62.6)	19.0 (66.2)	22.0 (71.6)	25.0 (77.0)	25.0 (77.0)	24.0 (75.2)	23.0 (73.4)	22.0 (71.6)	21.0 (69.8)	18.0 (64.4)	17.0 (62.6)	16.0 (60.8)
Average precipitation mm (inches)	12.32 (0.49)	20.82 (0.82)	26.34 (1.04)	57.63 (2.27)	102.32 (4.03)	61.68 (2.43)	63.88 (2.51)	124.75 (4.91)	141.74 (5.58)	231.04 (9.1)	159.62 (6.28)	71.08 (2.8)	89.44 (3.52)
Average precipitation days (≥ 1.0 mm)	3.09	3.27	5.36	7.36	16.73	12.36	13.55	18.91	19.64	22.73	17.55	9.73	12.52
Average relative humidity (%)	72.01	65.19	58.27	53.97	51.56	50.59	51.14	56.11	60.33	70.18	77.39	76.61	61.95
Mean monthly sunshine hours	11.19	11.34	11.34	11.63	12.65	12.68	11.83	11.24	11.05	9.11	7.68	8.29	10.84

Weather-Related Hazards: Trichy Terminal (T.N) To THIRUMALAI AGENCY Providing a local hourly weather forecast of rain, sun, wind, humidity and temperature.

The Long-range 12 day forecast also includes detail for weather today. Live weather reports from Trichy Terminal (T.N) To THIRUMALAI AGENCY weather stations and weather warnings that include risk of thunder, high UV index and forecast gales.

Climate Graph

The chart below shows the mean monthly temperature and precipitation of Tiruchirappalli in recent years.



Analysis of Traffic Patterns

Peak Hours:

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Typically, Trichy Terminal (T.N) To THIRUMALAI AGENCY peak traffic hours are from 8:00 AM to 11:00 AM and 4:00 PM to 8:00 PM on weekdays.

Congestion-Prone Areas:

- Jailani weighbridge
- Valavanthankottai Toll Plaza
- Asur Road Bus Stand
- Shriram Automall Trichy
- Hotel Balaji Ariyas
- Tool Fab Engineering Industries Ltd. (Unit 2)
- Goverment TB Hospital
- Kallakkottai Bustop
- Sai group's... G.M home
- Neyveli Karuppar Temple
- Sri Vinayaga Thirumana Mahal A/C

❖ Assessment of Road Quality and Infrastructure

Road Quality: Generally, the roads are well-maintained but can suffer from potholes and waterlogging on State Highway during the monsoon season.

Infrastructure: Adequate signage, street lighting, and traffic signals are present, but some areas may lack proper drainage systems, leading to waterlogging.

❖ Suggestions for Alternative Routes for Emergencies

Alternative Route 1-). Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi , Follow NH 83 and SH 99 to MDR 372/MDR705, Continue on MDR705. Take Karambakkudi Rd to Pattukkottai - Aranthangi Rd/Pudukkottai - Alangudi - Avanam - Pattukkottai Rd/Thanjavur - Kalayarkoil - Sayalkudi Rd/Thanjavur - Karaikudi - Kalaiyarkoil - Sayalkudi Rd in Thiruchitrambalam,

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Slight right at TASHOKK Mobile onto Pattukkottai - Aranthangi Rd/Pudukkottai - Alangudi - Avanam - Pattukkottai Rd/Thanjavur - Kalayarkoil - Sayalkudi Rd/Thanjavur - Karaikudi - Kalaiyarkoil - Sayalkudi Rd, Follow MDR829 to Main Rd/Peravurani - Aranthangi Rd/Peravurani Main Rd.

Alternative Route 2 Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi , Turn right at M. J. Agencies, Follow NH 83 and SH 99 to MDR 372/MDR705, Take the exit toward SH 99, Continue onto SH 99, Turn left at Prasath kutty Aavin Tea shop onto Pudukkottai - Budalur Rd/SH 99, Continue on MDR705 to Thiruchitrambalam, Follow MDR829 to Main Rd/Peravurani - Aranthangi Rd/Peravurani Main Rd.

Summary of Local Regulations Affecting Hazardous Material Transport

Regulations: Transport of hazardous materials is regulated by the Petroleum and Explosives Safety Organization (PESO) and the Motor Vehicles Act. Specific routes and timings may be restricted for hazardous material transport.

Permits: Ensure all necessary permits and documentation are in place.

❖ Overview of Historical Incidents

Historical Incidents: There have been occasional incidents involving heavy vehicles, particularly during the monsoon season due to waterlogging and poor visibility. No major incidents involving hazardous materials have been reported recently.

❖ Environmental Considerations and Sensitive Areas

Sensitive Areas: Jailani weighbridge, Valavanankottai Toll Plaza, Asur Road Bus Stand, Shriram Automall Trichy, Hotel Balaji Ariyas, Tool Fab Engineering Industries Ltd. (Unit 2), Goverment TB Hospital, Kallakkottai Bustop, Sai group's... G.M home, Neyveli Karuppar Temple Sri Vinayaga Thirumana Mahal A/C.

- **Educational institutions:** Himalayan Access Pvt.Ltd, Arasu Education - Jcb Institute in Trichy, Gnanam School of Business, Adaikala Matha College.
- **Hospital:** - Dr Kamali's Home Clinic, Viveganandha Hospital, AYUSH MULTISPECIALITY HOSPITAL.

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- **Gas Station:** ESSAR petrol pump, SP Petroleum (HPCL), HP PETROL PUMP - M/S. A.V.R. PETROL BUNK, IndianOil, IndianOil.
- **Environmental Impact:** Minimize noise and air pollution, especially in residential and sensitive areas.
- **Air pollution:** Volatile chemicals evaporate during the filling and discharge process, or from leaks.
- **Loss of habitats:** Oil and gas operations can degrade animal habitats and disrupt migratory pathways.
- **Oil spills:** Oil spills can be devastating for animals and humans.
- **Greenhouse gas emissions:** Oil and gas operations can emit greenhouse gases like methane.
- **Analysis of Communication Coverage**

Communication Coverage: Generally good throughout the route, but potential dead zones may exist densely built-up areas or underpasses.

Dead Zones: Monitor for any communication blackouts, especially in underpasses or near large buildings.

- **Estimated Emergency Response Times**
- Jailani weighbridge, Valavanthankottai Toll Plaza, Asur Road Bus Stand, Shriram Automall Trichy, Hotel Balaji Ariyas, Tool Fab Engineering Industries Ltd. (Unit 2), Goverment TB Hospital, Kallakkottai Bustop, Sai group's... G.M home, Neyveli Karuppar Temple, Sri Vinayaga Thirumana Mahal A/C areas like have quicker response times (15- 20 minutes). Congested areas may experience delays (up to 30-40 minutes).
- **Overall Summary of Risk Assessment**
- **Risk Level:** Moderate to High, especially during monsoon season.
- **Key Risks:** Waterlogging, traffic congestion, and potential communication dead zones.
- **Mitigation Measures:** Plan travel during non-peak hours, ensure proper vehicle maintenance, and have alternative routes and emergency contacts ready and control on the speed limit of the vehicle.

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- Road Signage for TT/PT Driver

Road Traffic Signs in India

Mandatory/Regulatory Signs

 Stop	 Give way	 No entry	 Straight prohibited
 One way	 One way	 Vehicles prohibited in both directions	 Horn prohibited
 Pedestrians prohibited	 Cycles prohibited	 Right turn prohibited	 Left turn prohibited
 U-turn prohibited	 Overtaking prohibited	 Trucks prohibited	 Tonga prohibited

JOURNEY RISK MANAGEMENT REPORT

			
All motor vehicles prohibited	Hand cart prohibited	Bullock cart prohibited	Bullock and hand carts prohibited
			
No parking	No parking or stopping	Speed limit	Axle load limit
			
Width limit	Weight limit	Length limit	Load limit
			
Restriction ands			

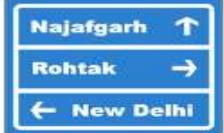
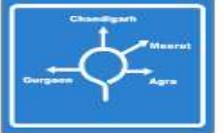
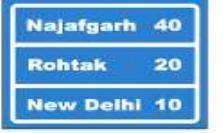
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Cautionary signs

			
Right hand curve	Left hand curve	Right hand pin bend	Left hand pin bend
			
Right reverse bend	Narrow bridge	Gap in median	Cycle crossing
			
Pedestrian crossing	School	Men at work	Roundabout
			
Narrow road	Road widens	Side road left	Side road right

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Information signs

			
Advance direction	Map type advance direction	Rotary intersection	Reassurance
			
Direction	Direction	Place identification	Truck lay bay
			
Toll booth ahead	Parking this side	Parking both sides	Cycle stand
			
Scooter and motor cycle stand	Taxi stand	Auto-rickshaw stand	Cycle-rickshaw stand
			
Public telephone	Filling station	Hospital	First aid post

Conclusion

The route for Trichy Terminal (T.N) To THIRUMALAI AGENCY is generally manageable but poses several risks, particularly during the monsoon season. Proper planning, adherence to regulations, and awareness of potential hazards can significantly mitigate these risks.

JOURNEY RISK MANAGEMENT REPORT

- **Risk Assessment - Sharp Turns**

Risk Type	Risk Level	Coordination	Distance From Start	Recommendation Speed
Sharp turn	Medium	10.769517372474736, 78.83735063199906	650 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.76584461192607, 78.8361700257199	1.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.764182189802032, 78.83459588401435	1.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.75826698538096, 78.83349398474651	2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.756372549032195, 78.83034570133539	2.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.751346435623256, 78.8252297405902	3.2 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.749451955814655, 78.83046376176118	3.8 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.739322086318483, 78.83809834927386	5.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.73638358720799, 78.85765706064745	7.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.732981078965743, 78.87520874109956	9.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.732865083664377, 78.88929730997383	10.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.730622499591515, 78.90775412216747	12.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.720904924338443, 78.93805787452602	16.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.71823691532396, 78.94246547130157	17 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.71690507655357, 78.94798176089265	17.6 KM	20km/hr TO 30 Km/Hr

JOURNEY RISK MANAGEMENT REPORT

Sharp turn	Medium	10.717137481731783, 78.95400634061058	18.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.719355053979562, 78.95999781728052	19.9 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.71875352968468, 78.95855830427797	20.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.717030237249144, 78.95455414167311	20.6 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.711021226897412, 78.95579508369053	21.2 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.710860282403496, 78.95681297309628	21.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.710595873406417, 78.95788936189312	21.5 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.708813980621377, 78.958263758023	21.7 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.66862126970613, 78.9896453796786	27.6 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.64337616668262, 78.99491915540561	30.5 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.573960349319902, 79.01350856395617	38.6 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.573358547026233, 79.01540081083353	38.8 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.56723103889032, 79.03671641329335	41.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.568407311144647, 79.0418366104694	41.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.567012197105559, 79.04921080730449	42.7 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.545316626473216, 79.07547924954224	46.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.522869591531318, 79.10289175571442	50.4 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.520813472339205, 79.11280705893597	51.5 KM	20km/hr TO 30 Km/Hr

JOURNEY RISK MANAGEMENT REPORT

Sharp turn	Medium	10.511026590423763, 79.13797309864941	54.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.508256474627885, 79.14592927676658	55.4 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.459717461434325, 79.14040863546529	60.9 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.459608002424499, 79.13904510477894	61.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.453482532600486, 79.13791766980347	61.8 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.449706098626667, 79.13869683019566	62.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.449076688500725, 79.13889162029372	62.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.447188450472467, 79.14270394078403	62.8 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.443913391159985, 79.14952525684937	63.7 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.436551812226824, 79.15183491094547	64.6 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.434006690457673, 79.15194621959697	64.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.433733020218993, 79.15244710842052	65 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.431844689011996, 79.1548402439108	65.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.431105773681434, 79.15534113273435	65.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.428133948841758, 79.15444132495206	65.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.425616126063122, 79.1541073990697	66.2 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.425862435711654, 79.16217727456016	67.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.424302471313982, 79.16682440975642	67.6 KM	20km/hr TO 30 Km/Hr

JOURNEY RISK MANAGEMENT REPORT

Sharp turn	Medium	10.422277242660924, 79.17202808856021	68.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.416682182641951, 79.17451530724986	68.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.414547429648618, 79.17390310979884	69.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.411837914412665, 79.17835545489704	69.8 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.408580991202447, 79.17857807215196	70 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.406005463204858, 79.17755171529447	70.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.395495409198093, 79.17716213509838	71.8 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.394208998078096, 79.17652211049052	72 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.395112223461089, 79.18103010990244	72.7 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.393579475812068, 79.18615030676536	73.3 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.391335081600861, 79.1884877881798	73.8 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.38936438084498, 79.18798689935626	74 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.375985852292848, 79.18982232149384	75.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.368654274272307, 79.19768799393356	76.8 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.360798198728478, 79.19969154922775	77.7 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.348869505204432, 79.2082760189774	79.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.339096667246475, 79.20599419211459	80.6 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.336879921734829, 79.2087967783214	81 km	20km/hr TO 30 Km/Hr

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Sharp turn	High	10.334142358256418, 79.20776717351745	81.4 km	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.331678530733042, 79.21074467930187	81.9 km	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.327440595733412, 79.20934976698693	82.4 km	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.313369329280608, 79.21426714425489	84.2 km	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.308003281393253, 79.21128963847048	85 km	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.302818059058213, 79.20943446626312	85.7 km	20km/hr TO 30 Km/Hr
Sharp turn	High	10.299368351818764, 79.21191108322398	86.3 km	10km/hr TO 15 Km/Hr

- Risk Assessment - Elevation Changes**

Risk Type	Specific Risk	Risk Level	Coordination	Elevation Change	Gradient	Recommendation Speed
Elevation Change	Descent	Low	10.7753, 78.8368	-3.02m	-2.96 %	40 km/hr to 50 km/hr
Elevation Change	Descent	Low	10.993921 , 78.326323	-9.28m	-6.28%	40 km/hr to 50 km/hr

JOURNEY RISK MANAGEMENT REPORT

IOCL TIRCHY TERMINAL (10.7753, 78.8368) TO THIRUMALAI AGENCY (10.939666 , 79.098055) TOTAL DISTANCE – 62.5 KM



10.769073692604486, 78.83720120889187



10.764113439530249, 78.83446118711721

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10.758209570013967, 78.83344387884853



Google

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10.751314343624747, 78.82530656733346

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10.75126610223314, 78.82518044583597



10.749591316479634, 78.83018387464983

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10.739318685033433, 78.8379420178455



10.735064036857814, 78.86553394452655

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10.72726018447922, 78.91699599279909



10.71841904357808, 78.94202586592223

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10.717294808389733, 78.95358517832877



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10.720696141799927, 78.9636381032869

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10.71928375966641, 78.95975369914174



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10.717093094472883, 78.95477159117259

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10.711041428472521, 78.9557434953868



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