

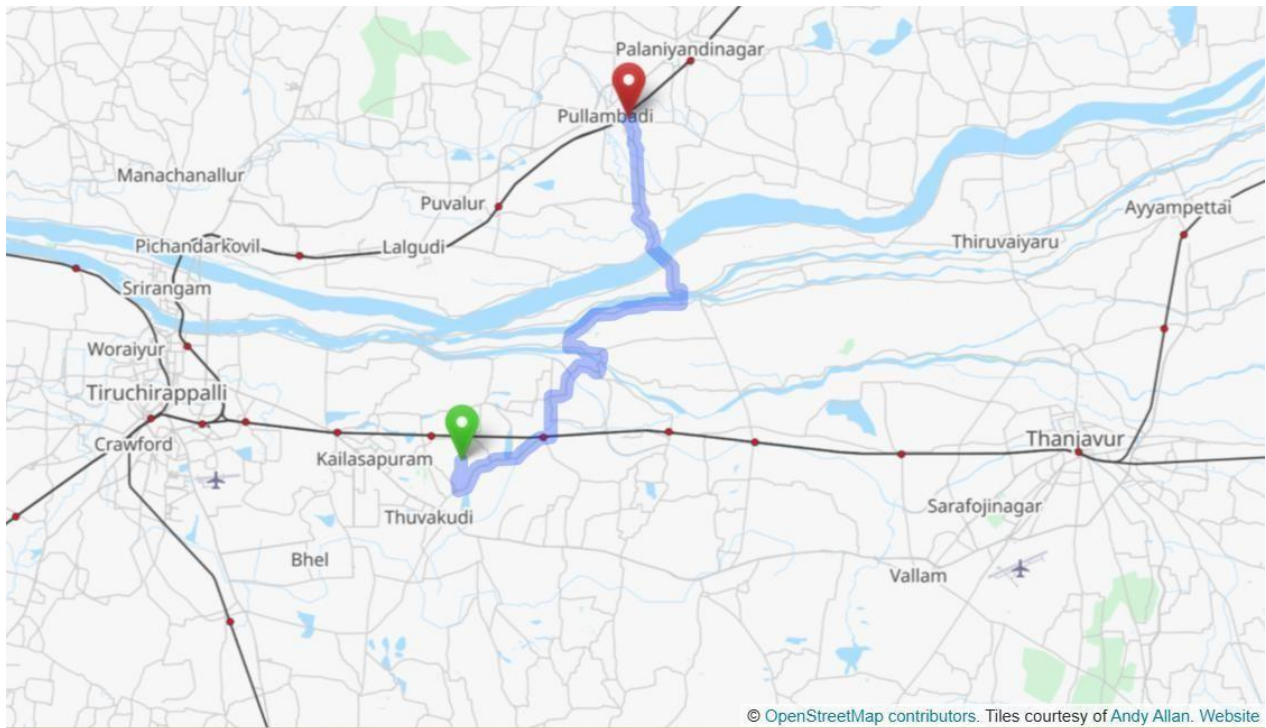
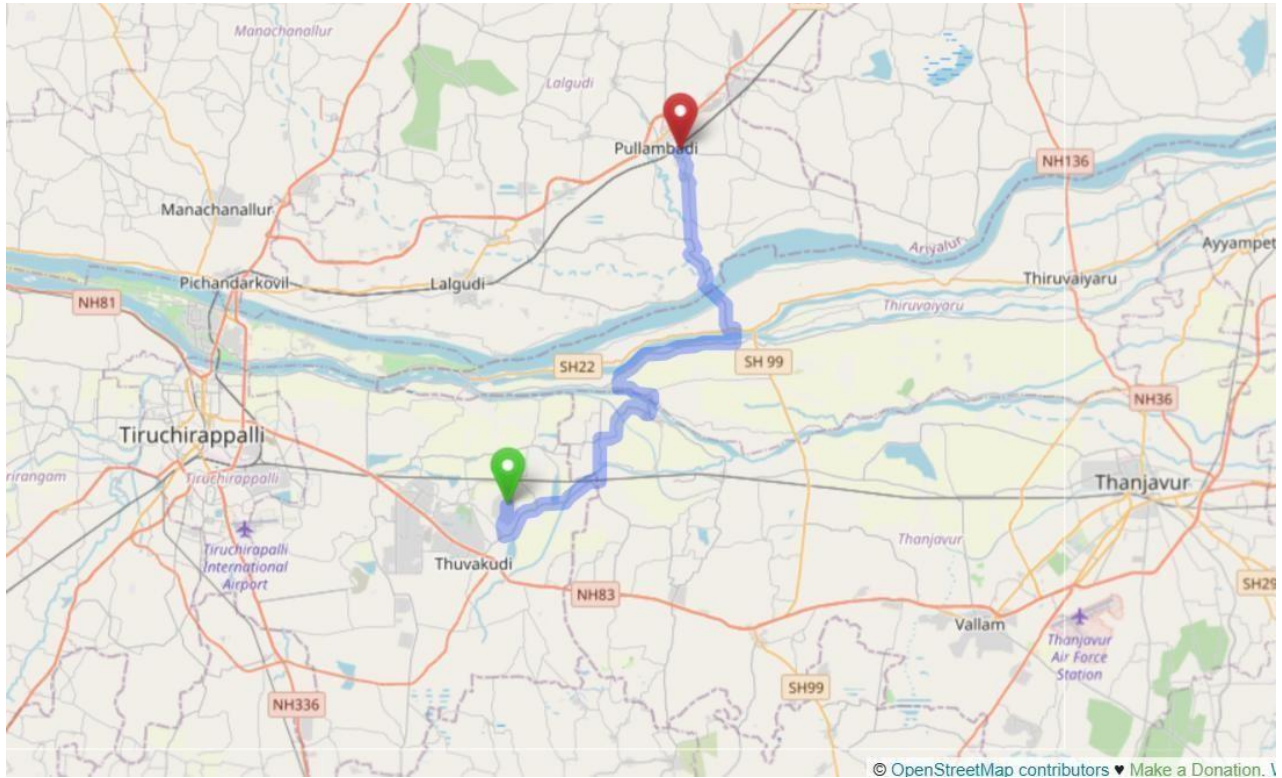


IndianOil

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 VKG AMUTHA AGENCIES (11.229923 , 79.315655) TOTAL DISTANCE – 114 KM



ALARP/JRM/TNSO/VKGAMUTHA

JOURNEY RISK MANAGEMENT REPORT

Welcome to the Journey Risk Management Study for VKG AMUTHA AGENCIES

Total distance: 114 KM; Start with: (10.7753 , 78.8368), End with: (11.229923 , 79.315655)

❖ Route Safety Analysis Report

1. Overview of the Route Map

The route from Trichy Terminal (T.N) TO VKG AMUTHA AGENCIES-Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi, Head south on SIDCO to Indian oil Storage, At Jude Digital Studios, continue onto Thuvakudi toSIDCO& Indian oil Storage, Follow NH 83, NH 38 and NH 81, Drive to SH 217 in Elaiyur East, and Total distance from Trichy Terminal To VKG AMUTHA AGENCIES is 114 KM for heavy,vehicles carrying hazardous materials.

Typical Weather Conditions and Potential Weather-Related Hazards

Weather Conditions: Trichy Terminal (T.N) To VKG AMUTHA AGENCIES 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.

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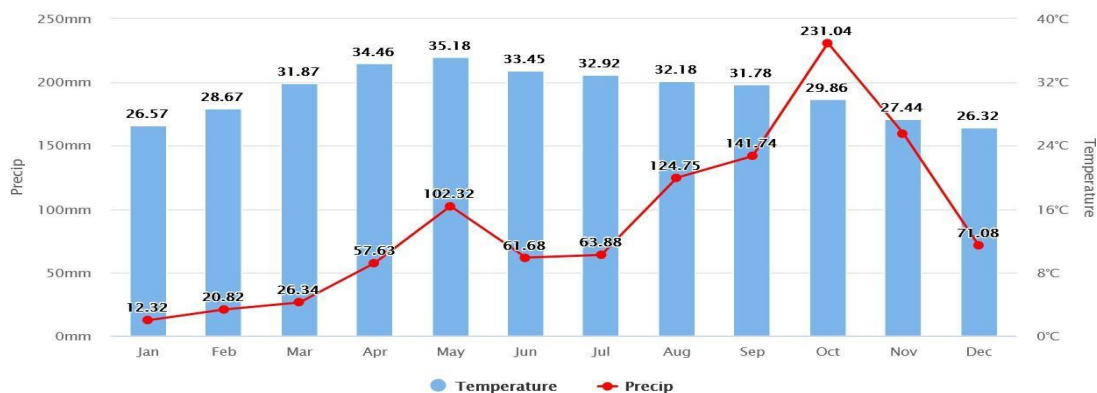
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Oct	Dec	Year
Record high °C (°F)	33.0 (91.4)	38.0 (100.4)	41.0 (105.8)	43.0 (109.4)	43.0 (109.4)	42.0 (107.6)	40.0 (104.0)	39.0 (102.2)	38.0 (100.4)	37.0 (98.6)	34.0 (93.2)	33.0 (91.4)	43.0 (109.4)
Average high °C (°F)	30.27 (86.49)	32.88 (91.18)	36.0 (96.8)	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 VKG AMUTHA AGENCIES 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 VKG AMUTHA AGENCIES 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:

ALARP/JRM/TNSO/VKGAMUTHA

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Typically, Trichy Terminal (T.N) To VKG AMUTHA AGENCIES peak traffic hours are from 9:00 AM to 11:00 AM and 4:00 PM to 8:00 PM on weekdays.

Congestion-Prone Areas:

- Womens SIDCO Industrial Park
- Malar Mahal
- P.selvamani Madhu's Mahal
- State Institute Of Hotel Management and Catering Technology
- National Institute of Technology Tiruchirappalli
- Govt Polytechnic
- Krishna Engineering Co Private Limited
- SESHASAYEE INSTITUTE OF TECHNOLOGY
- stitute of Agriculture, TNAU

❖ 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-). The route from Trichy Terminal (T.N) TO VKG AMUTHA AGENCIES-Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi, Head south on SIDCO to Indian oil Storage, At Jude Digital Studios, continue onto Thuvakudi toSIDCO& Indian oil Storage, Follow NH 83, NH 38 and NH 81, Drive to SH 217 in Elaiyur East.

Alternative Route 2 -) Take Valavanthankottai to Thirunedukulam temple road, Thirunedukulam To Paper Mill road, Indalur to Solakampatti Village, Solakampatti Railway Station - Katachamangalam Rd and MDR782 to Kollidam - Kallanai Main Rd/Poondi Matha Temple to Thirukattupalli in Puduchatram, Turn right onto Kollidam - Kallanai Main

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Rd/Poondi Matha Temple to Thirukattupalli, Turn left at Hotel SVS to stay on Kollidam - Kallanai Main Rd, Follow NH 136 and NH 81 to Sooriyamanal, Turn left onto SH 217.

❖ 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.

❖ Review 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:** Womens SIDCO Industrial Park, Malar Mahal, P. Selvamani Madhu's Mahal, State Institute Of Hotel Management and Catering Technology, National Institute of Technology Tiruchirappalli, Govt Polytechnic, Krishna Engineering Co Private Limited, SESHASAYEE INSTITUTE OF TECHNOLOGY, PSP OIL MILL (ORGANIC CRUSHED EDIBLE OIL,).
- **Educational institutions:** State Institute Of Hotel Management and Catering Technology, National Institute of Technology Tiruchirappalli, Govt Polytechnic, SESHASAYEE INSTITUTE OF TECHNOLOGY, Institute of Agriculture, TNAU.
- **Hospital:** - Dr Kamali's Home Clinic, Meenakshi Hospital, Sivapreethi Hospital, Sugulaya Varmakalai Treatment Center.
- **Gas Station:** Jagdish filling station, Nayara Petrol Pump, Nayara Petrol Pump, Indianoil S. Ashok kumar, BPCL Masiya Fuels, Gayatri Agency.
- **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.

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- **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:**
Womens SIDCO Industrial Park, Malar Mahal, P. selvamani Madhu's Mahal, State Institute Of Hotel Management and Catering Technology, National Institute of Technology Tiruchirappalli, Govt Polytechnic, Krishna Engineering Co Private Limited, SESHASAYEE INSTITUTE OF TECHNOLOGY, PSP OIL MILL (ORGANIC CRUSHED EDIBLE OIL,). 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.

- **Road Signage for TT/PT Driver**





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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

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



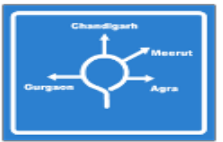

















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Cautionary signs

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

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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 VKG AMUTHA AGENCIES 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.

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- **Risk Assessment - Sharp Turns**

Risk Type	Risk Level	Coordination	Distance From Start	Recommendation Speed
Sharp turn	Medium	10.769517372474736, 78.83735063199906	650 M	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

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Sharp turn	Medium	10.717137481731783, 78.95400634061058	18.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.724822618517969, 78.9767159328364	20.9 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.729882461351261, 79.00023354091847	23.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.730894419758593, 79.01997459879757	25.8 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.730388440978299, 79.02701271508492	26.5 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.72785853437635, 79.03593910647373	27.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.727084939556493, 79.06554150725997	30.8 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.723822902909419, 79.06929459251997	31.3 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.72091540581739, 79.06756239932304	31.7 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.721908212843593, 79.07066591213419	32.1 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.715809489668976, 79.06922241780342	32.8 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.887181547655278, 78.76530903742895	33.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.886479913753597, 78.77133119465272	34.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.889186206839419, 78.77929269064343	35.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.890288763639541, 78.78776453894127	36.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.896001947468296, 78.79337841467152	37.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.906125038337622, 78.79725709220546	38.6 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.907728664685097, 78.80123784020083	39 KM	20km/hr TO 30 Km/Hr

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Sharp turn	Medium	10.908430248492369, 78.83655421985202	42.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.907227532380592, 78.84247430661436	43.6 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.91434353213912, 78.85492690425629	45.2 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.925167542674744, 78.85809108856029	46.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.926169745913759, 78.86370496393836	47.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.924265556866464, 78.87401408054174	48.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.936692675932377, 78.89738821748767	51.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.938797217058465, 78.90055240179167	51.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.940581311177203, 78.90408046434668	52.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.940104324037351, 78.90702763198205	52.4 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.938912552421439, 78.91382507544337	53.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.938644403147572, 78.91664722830899	53.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.955305321451934, 78.92361371180965	55.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.976371192590952, 78.94301144664475	58.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.004512852606288, 78.97391049390393	63.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.024227265361207, 78.99811474770428	66.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.033157290838167, 79.00704113895583	68.0 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	11.03416822002298, 79.01716915979893	69.3 KM	20km/hr TO 30 Km/Hr

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Sharp turn	Medium	11.039222813768454, 79.02369229186736	70.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.04141311071118, 79.03073040804647	70.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.036864014177263, 79.04206005848114	72.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	11.042087044945191, 79.04841152917935	73.2 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	11.0434349087724, 79.05699459769046	74.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.054217596549499, 79.07004086182732	76.0 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	11.048657822645502, 79.0805122054109	77.4 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	11.07493946190913, 79.12909237524342	83.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.08942704962464, 79.13304058769411	85.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.10980953179035, 79.16411129570429	89.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.12213666622717, 79.20246707459003	93.7 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.127019853748802, 79.21824685405377	95.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.139287012993861, 79.2342694010451	97.8 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.143931724540193, 79.24677184169714	99.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.146075412767383, 79.26121641021376	101 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	11.171560270181622, 79.28512884608496	105 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	11.183587392732388, 79.29957341344023	107 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.19576965232355, 79.31402799372307	109 KM	20km/hr TO 30 Km/Hr

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Sharp turn	High	11.202505356869299, 79.31426402810715	110 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	11.206672995594081, 79.31349155203287	110.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.215218571858095, 79.31267616054112	111 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.215302763469442, 79.31512233506677	112 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	11.226289558449421, 79.31531545414109	113 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	11.225637097639876, 79.3178045440093	114 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.22946765301526, 79.31804057846573	114 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	11.229909636891238, 79.31563731928262	115 KM	20km/hr TO 30 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

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Elevation Change	Descent	Low	10.993921 , 78.326323	-9.28m	-6.28%	40 km/hr to 50 km/hr
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10.769073692604486, 78.83720120889187

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10.764113439530249, 78.83446118711721



10.758209570013967, 78.83344387884853

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10.751314343624747, 78.82530656733346



10.75126610223314, 78.82518044583597

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10.749591316479634, 78.83018387464983



10.739318685033433, 78.8379420178455

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10.735064036857814, 78.86553394452655

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10.72580557887016, 79.0641504304304



10.721070762434657, 79.06770763454654

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10.721721269051843, 79.07032492179873



10.954312798758009, 78.90587599136242

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11.02116486256158, 78.99489959052856

ALARP/JRM/TNSO/VKGAMUTHA

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11.039828283196265, 79.02509608238519

ALARP/JRM/TNSO/VKGAMUTHA

JOURNEY RISK MANAGEMENT REPORT



11.21408722162799, 79.31194518737453

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11.225963498564852, 79.31615330231848



11.228924041617008, 79.31809171059952

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11.229697501040206, 79.31763374127735



11.229856154959377, 79.31559971647138

ALARP/JRM/TNSO/VKGAMUTHA

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