

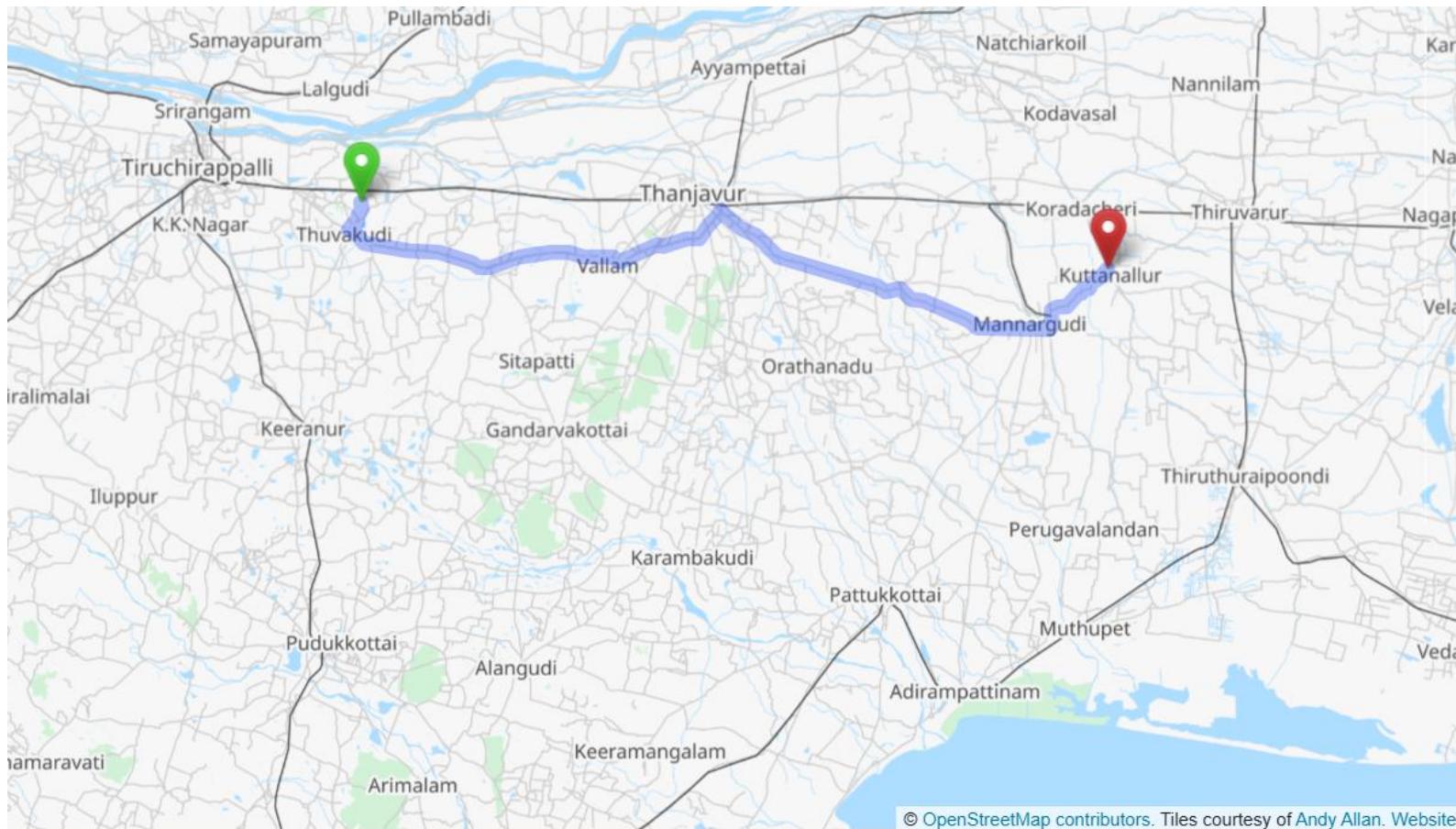


IndianOil

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

JOURNEY RISK MANAGEMENT REPORT

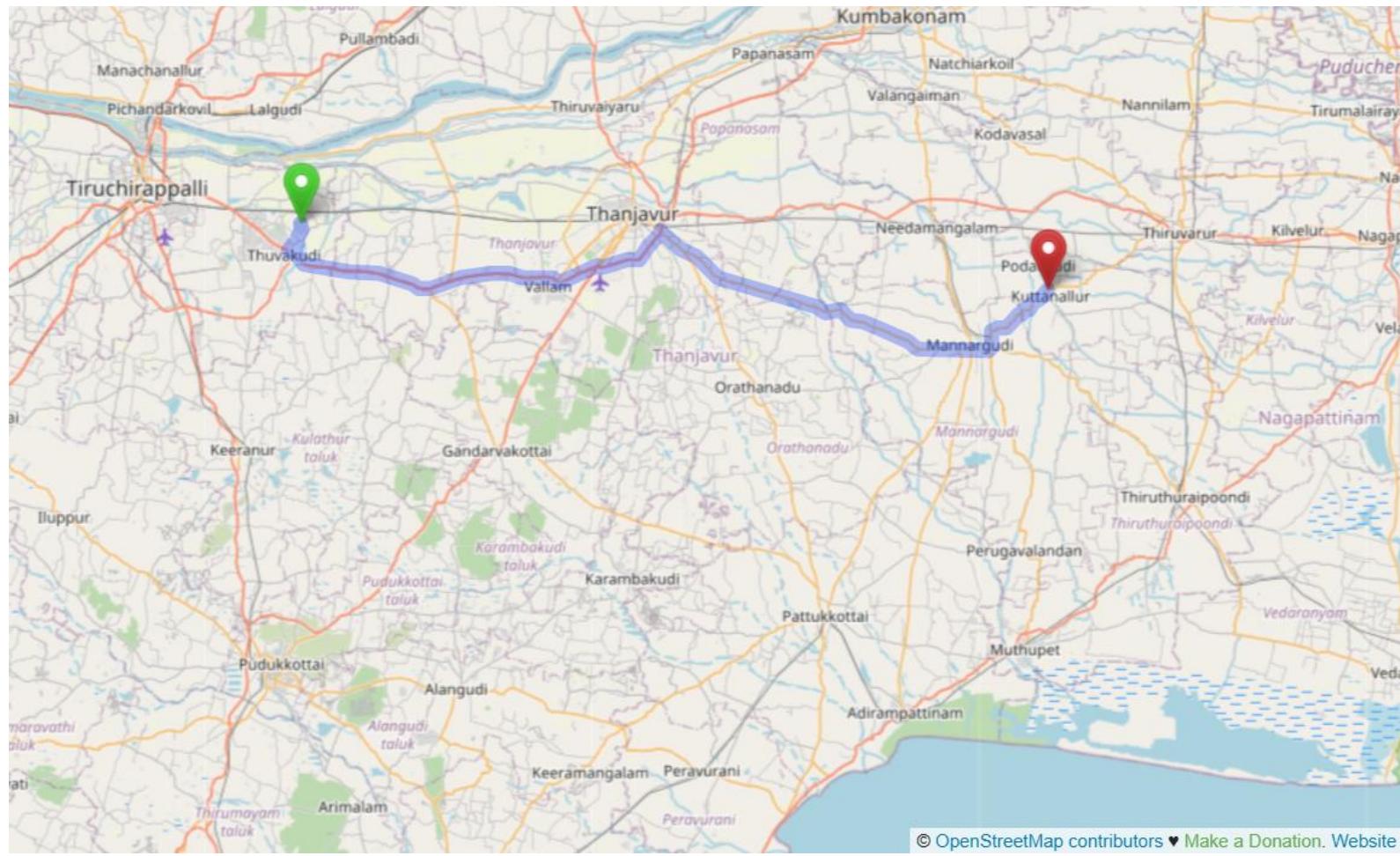
IOCL TIRCHY TERMINAL (10.7753, 78.8368) TO MAJESTIC SERVICE STATION (10.716054 , 79.514715) TOTAL DISTANCE – 93.3 KM



© OpenStreetMap contributors. Tiles courtesy of Andy Allan. Website

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



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JOURNEY RISK MANAGEMENT REPORT

Welcome to the Journey Risk Management Study for MAJESTIC SERVICE STATION

Total distance: 93.3 km; Start with: (10.7753 , 78.8368), End with: (10.716054 , 79.514715)

❖ Route Safety Analysis Report

1. Overview of the Route Map

The route from Trichy Terminal (T.N) TO MAJESTIC SERVICE STATION. The Route Passes Through Several Key Point including Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi, Follow NH 83 to Maravapatty - Villur - Kallikkudi Rd/Nagapattinam Rd/Nagapattinam - Coimbatore - Gundlupet Hwy/Thanjavur - Nagapattinam Rd, Turn left at the church onto NH 83, Keep right to stay on NH 83, Turn left at the bridge onto NH 36/NH 83 ,and Total distance from Trichy Terminal To MAJESTIC SERVICE STATION IS 79 KM.

Typical Weather Conditions and Potential Weather-Related Hazards

Weather Conditions: Trichy Terminal (T.N) To MAJESTIC SERVICE STATION 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

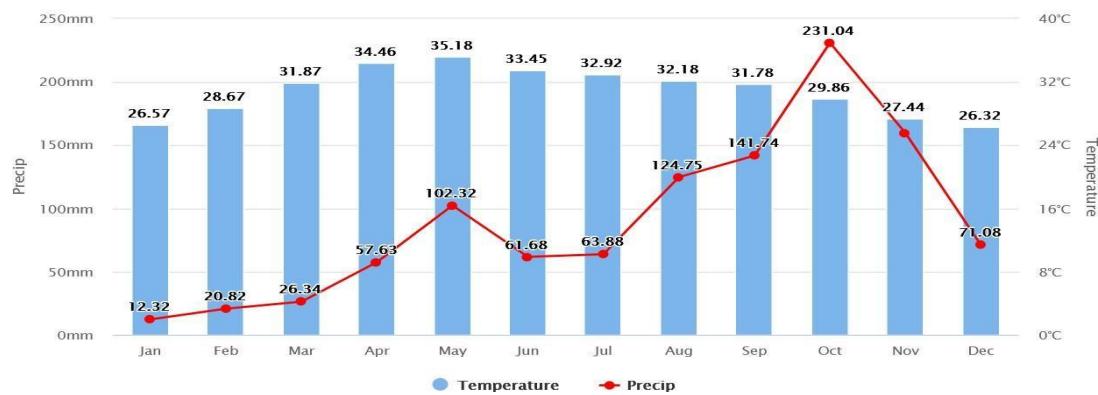
| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Nov | Oct | Dec | Year |
|---|------------------|------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 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 MAJESTIC SERVICE STATION 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 MAJESTIC SERVICE STATION 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 MAJESTIC SERVICE STATION 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:

- Old Burma Colony
- TIRUCHY PUBLIC SCHOOL
- Himalayan Access Pvt.Ltd
- Tool Fab Engineering Industries Ltd. (Unit 2)
- Gnanam School of Business
- SASTRA Deemed University
- K.R.P Samy residency
- Veterinary University Training & Research Centre (VUTRC)
- RTO Thanjavur
- Vaduvoor Birds Sanctuary - Thiruvarur, Tamilnadu

❖ Assessment of Road Quality and Infrastructure

Road Quality: Generally, the roads are well-maintained but can suffer from potholes and water logging 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 water logging.

❖ Suggestions for Alternative Routes for Emergencies

Alternative Route 1-) 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 to Mayiladuthurai - Thiruthuraipoondi Rd/Panagal Rd in Santhamangalam, Thiruvarur, Continue on Mayiladuthurai - Thiruthuraipoondi Rd/Panagal Rd to your destination.

Alternative Route 2 -) Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi, At Jude Digital Studios, continue onto Thuvakudi to SIDCO & Indian oil Storage,

JOURNEY RISK MANAGEMENT REPORT

Follow NH 83 and NH 36 to Chinnammal Kallarai/Kallanai - Poombuhar Rd/Poompuhar Rd in Kumbakonam, Keep right to stay on NH 83, At the roundabout, take the 2nd exit and stay on NH 36, Slight right at Pugazendi Car AC & Electrician Works onto NH 136B, Follow Chinnammal Kallarai/Poompuhar Rd to NH 136B in Aduthurai, Turn right at M.S.K Fish Farm onto NH 136B, Continue on Aduthurai - Porayar Rd. Drive to Main Rd in Nallathur.

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:** State Institute Of Hotel Management and Catering Technology, Valavanthankottai Toll Plaza, SPOT ON 42969 Royal Residency, Anand Engineering Products Pvt. Ltd. (Unit 2), The Urban Coffee House | coffee shop | Cafe | restaurant, GNR Marriage Hall, Tool Fab Engineering Industries Ltd. (Unit 2), Anandam Law college, School of Law, SASTRA University, Masjidul Aqsa vallam, Maruti Suzuki ARENA (PLA Motors, Thanjavur, Nangikkottai Road), Hotel Anitha Parthiban, Bon Secours College of Education, Best Matriculation Higher Secondary School, Vembukudi Toll Plaza, Sri Saravana Balaji Marriage Mahal.
- **Educational institutions:** Chanakya share market training Institute, Indian Institute of Catering Technology and Hotel Management, Samiyappa Institute Of Co Operative Management, Premier Institute, S.K Institute of Arts & Education, Dr S R J Group of Educational Institutions, DEEPA INSTITUTE FOR VEDIC MATHS.

JOURNEY RISK MANAGEMENT REPORT

- **Hospital:** - Dr Kamali's Home Clinic, Meenakshi Hospital, Rohini Hospital, Government Raja Mirasudar Hospital, Anbu Hospital.
- **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:** State Institute Of Hotel Management and Catering Technology, Valavanthankottai Toll Plaza, SPOT ON 42969 Royal Residency, Anand Engineering Products Pvt. Ltd. (Unit 2), The Urban Coffee House | coffee shop | Cafe | restaurant, GNR Marriage Hall, Tool Fab Engineering Industries Ltd. (Unit 2), Anandam Law college, School of Law, SASTRA University, Masjidul Aqsa vallam, Maruti Suzuki ARENA (PLA Motors, Thanjavur, Nangikkottai Road), Hotel Anitha Parthiban, Bon Secours College of Education, Best Matriculation Higher Secondary School, Vembukudi Toll Plaza, Sri Saravana Balaji Marriage Mahal, areas like have quicker response times (15- 20 minutes). Congested areas may experience delays (up to 30-40 minutes).

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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**

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 | Axe load limit |
|  |  |  |  |
| Width limit | Weight limit | Length limit | Load limit |
|  | | | |
| Restriction ends | | | |

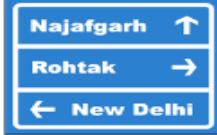
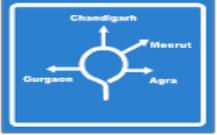
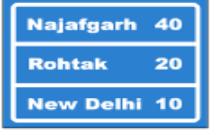
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Cautionary signs

| | | | |
|---|---|--|---|
|  |  |  |  |
| 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

| | | | |
|---|---|--|---|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Conclusion

The route for Trichy Terminal (T.N) To MAJESTIC SERVICE STATION 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 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 | 10.739326461561383, 78.83800479151158 | 5.3 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.73642740628165, 78.85764863813984 | 7.4 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.733604466438722, 78.87281181707364 | 9.1 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.73080526998016, 78.90617767628218 | 12.8 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.730477923035412, 78.90801389404626 | 13 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.724463035027611, 78.92577296721807 | 15 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.723788382097183, 78.92890578732897 | 15.4 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.721500875854746, 78.93682366832411 | 16.3 KM | 20km/hr TO 30 Km/Hr |

JOURNEY RISK MANAGEMENT REPORT

| | | | | |
|------------|--------|--|----------|------------------------|
| Sharp turn | Medium | 10.720994881360893, 78.93834716298483 | 16.5 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.71915010256302, 78.9411152027286 | 16.8 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.71843327121256, 78.94211298444303 | 17 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.717263145760954, 78.94670492633878 | 17.5 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | High | 10.716985075928461, 78.95102478766644 | 18 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.71809195248243, 78.95607806951443 | 18. 5 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.725197170776585, 78.97692607372574 | 21 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.730780555846192, 79.01656126512937 | 25.3 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.730190246964545, 79.02046656130192 | 25.8 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | High | 10.730401071697452, 79.02480101090002 | 26.2 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.727139512814995, 79.03926391834526 | 27.9 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.726633527742022, 79.06514187050024 | 30.7 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.723049442647225, 79.07037754229201 | 31.4 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.736837396359547, 79.10561104002268 | 35.6 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.73612060698111, 79.11058922045575 | 36.2 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.742782466810393, 79.13346309881189 | 38.8 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.7432462617802, 79.14376278157714 | 39.9 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.761628831100811, 79.15891189809322 | 42.6 KM | 20km/hr TO 30 Km/Hr |

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JOURNEY RISK MANAGEMENT REPORT

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|------------|--------|--|---------|------------------------|
| Sharp turn | High | 10.76553855938538, 79.16205026071553 | 43.8 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | High | 10.76787839634879, 79.16363810445498 | 44.1 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.750364630433731, 79.18471312136013 | 47.2 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.728811989114504, 79.21140679167563 | 51.1 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.723942574669856, 79.2229222247592 | 52.4 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.720810199425527, 79.2385608769817 | 54.2 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.700669195307807, 79.3046674796715 | 61.7 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.696201224830942, 79.31318409609207 | 62.8 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.696981351403208, 79.31592673527837 | 63.1 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.698355220876133, 79.32279442677623 | 63.9 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.698071540003367, 79.32748578327909 | 64.4 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.697858779174654, 79.32784665685624 | 64.5 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.69551840020876, 79.32972319945736 | 64.8 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.689115489719185, 79.33667318795135 | 65.8 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.686704120419533, 79.34872636542792 | 67.2 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.683016106800752, 79.35522208981651 | 68 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.682306868277923, 79.35810907843366 | 68.4 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.684647349117885, 79.35724298184851 | 68.6 KM | 20km/hr TO 30 Km/Hr |

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JOURNEY RISK MANAGEMENT REPORT

| | | | | |
|------------|--------|--|----------|------------------------|
| Sharp turn | Medium | 10.68939917899747, 79.35818125398117 | 69.2 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.692306978486421, 79.35998562186688 | 69.6 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.695782116935876, 79.36128476674459 | 70 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | High | 10.702094001269035, 79.36150129089089 | 707 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.700817450991236, 79.36330565877658 | 70.9 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.70166848510698, 79.3663369968246 | 71.2 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.700817450991236, 79.37167792576632 | 71.8I KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.700037334286769, 79.37709102942348 | 72.4 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | High | 10.69925721557527, 79.38243195836519 | 73 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.701742310130253, 79.38211498581494 | 79 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.785631069812785, 79.50033105202355 | 84.1 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.781264192972484, 79.49772689629162 | 84.6 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.776952605241503, 79.49405235968052 | 85.2 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | High | 10.775749360432787, 79.49007161168515 | 85.6 KM | 10km/hr TO 15 Km/Hr |
| Sharp turn | Medium | 10.772266974360008, 79.49230060346574 | 86 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.763205771940246, 79.49293248846064 | 87.1 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.762516382062481, 79.49364060228673 | 87.2 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.761750401990271, 79.49729912198228 | 87.6 KM | 20km/hr TO 30 Km/Hr |

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT

| | | | | |
|------------|--------|--|---------|------------------------|
| Sharp turn | Medium | 10.756335525047218, 79.49814733744189 | 88.2 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.752135218367751, 79.49977693307571 | 88.7 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.744974949001787, 79.50353465560707 | 89.7 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.742879480744914, 79.50439302242123 | 89.9 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.73935990092269, 79.5050834181186 | 90.3 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.739164819095368, 79.50631254940426 | 90.5 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.721674189391674, 79.51400576500195 | 92.7 KM | 20km/hr TO 30 Km/Hr |
| Sharp turn | Medium | 10.716353240063562, 79.51426726533673 | 93.3 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 |
| 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 MAJESTIC SERVICE STATION (10.716054 , 79.514715) TOTAL DISTANCE – 93.3 KM



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI:10.769073692604486, 78.83720120889187

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI:10.764113439530249, 78.83446118711721



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM
COORDI:10.758209570013967, 78.83344387884853**

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM
COORDI:10.751314343624747, 78.82530656733346**



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI:10.75126610223314,
78.82518044583597**

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM
COORDI:10.749591316479634, 78.83018387464983



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM
COORDI:10.739318685033433, 78.8379420178455

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM
COORDI:10.735064036857814, 78.86553394452655**

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.7204752733678, 78.94043095175968

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



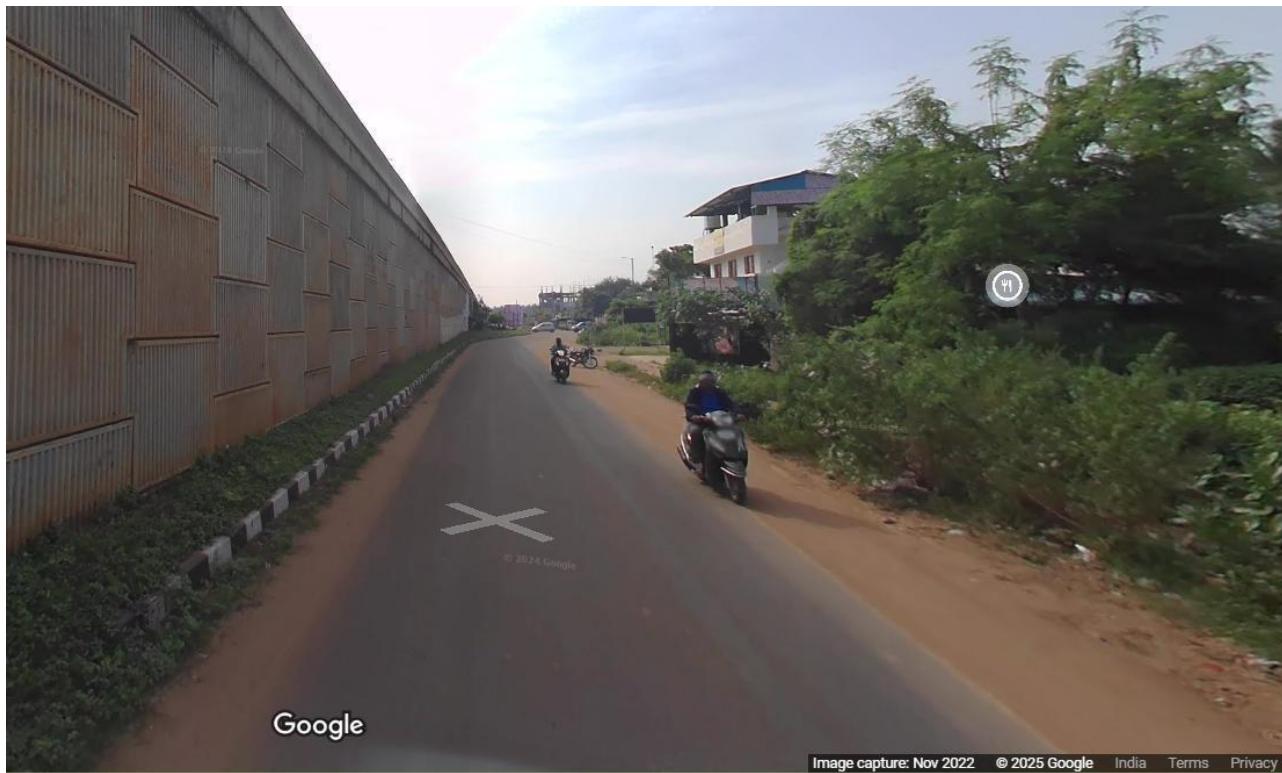
IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.730470193011778, 79.02491837645792



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.73562703051417, 79.10914681274313

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI:
10.74239869421108, 79.13924228433945**



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.762835880662,
79.15885726520942**

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



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IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.86508872374555, 79.19199892851083



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**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI:
10.983050192850786, 79.38667088419274
ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION**

JOURNEY RISK MANAGEMENT REPORT



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**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI:
10.982396440646552, 79.39381342050322**



Google

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**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM
COORDI:10.991527724757828, 79.40666540897624**

ALARP/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI:
11.022490944084682, 79.47018786867453**



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI:
11.020753919153844, 79.48026079789986**

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.777163229958258,
79.4925292608994**

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ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



**IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.772889988420026,
79.49195092208453**

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JOURNEY RISK MANAGEMENT REPORT



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.756458541358404,
79.49778639439562

ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.725501023868386,
79.51356961063414

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ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.717060434177924, 79.51421728833657

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ALAR/P/JRM/TNSO/MAJESTIC SERVICE STATION

JOURNEY RISK MANAGEMENT REPORT



IMAGE :- SHARP TURN RISK LEVEL :- MEDIUM COORDI: 10.716064228252332, 79.5147073376627

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JOURNEY RISK MANAGEMENT REPORT

ALARP/JRM/TNSO/MAJESTIC SERVICE STATION