

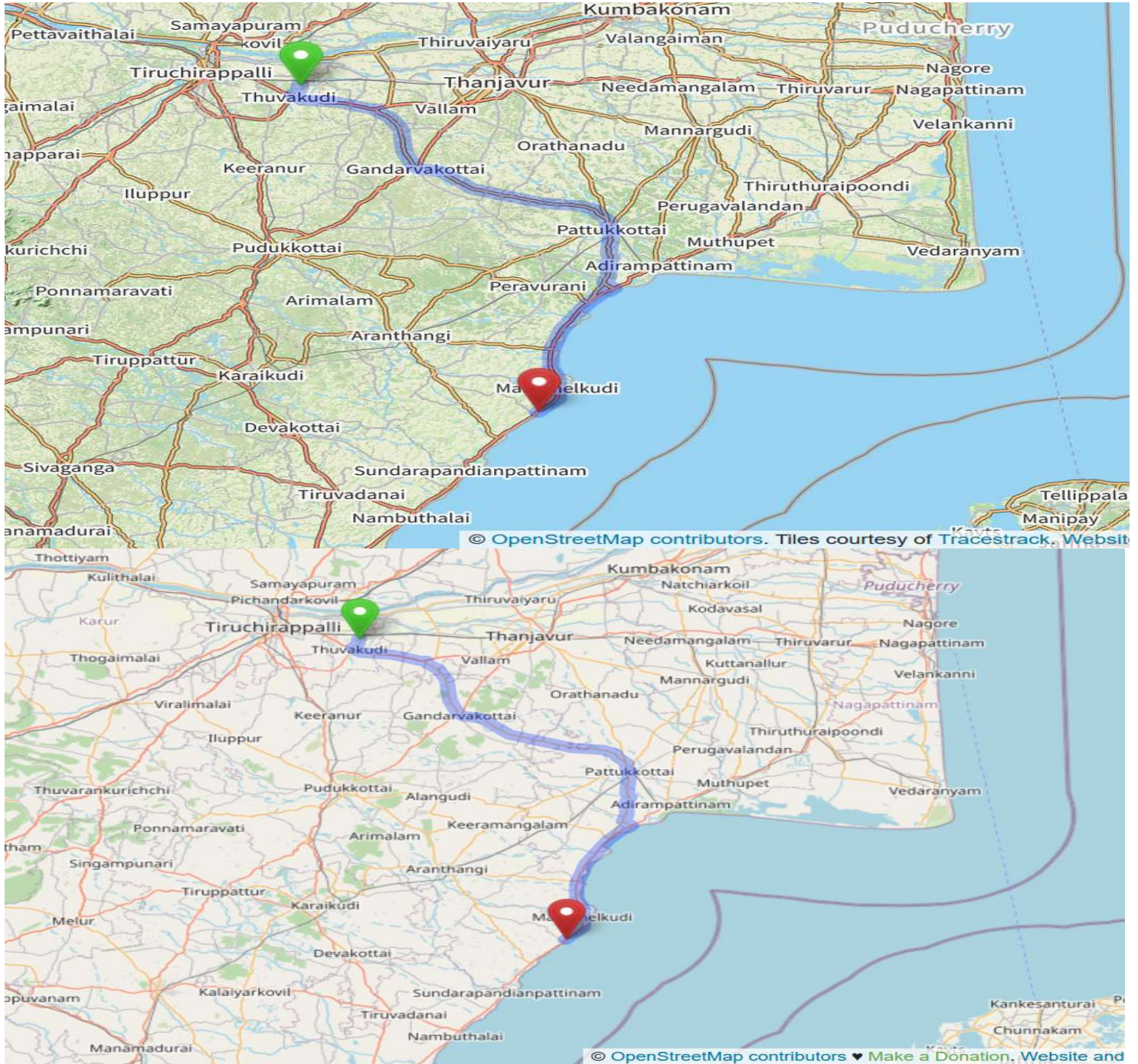


IndianOil

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

JOURNEY RISK MANAGEMENT REPORT

IOCL TIRCHY TERMINAL (10.13253, 78.8368) TO HANIFFA FILLING STATION (10.419159, 79.319237) TOTAL DISTANCE – 132KM



ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT

Welcome to the Journey Risk Management Study for HANIFFA FILLING STATION (

Total distance: 132km; Start with: (10.13253 , 78.8368), End with: 9.982623 , 79.200263

Route Safety Analysis Report

1. Overview of the Route Map

The route from Trichy Terminal (T.N) TO HANIFFA FILLING STATION (-via NH 83 and Thanjavur - Kalayarkoil - Sayalkudi Rd/Thanjavur - Karaikudi - Kalaiyarkoil - Sayalkudi Rd/Thanjavur - Orathanadu - Pattukottai Rd/Thanjavur - Pattukkottai Rd. Turn right onto Thanjavur - Kalayarkoil - Sayalkudi Rd/Thanjavur - Karaikudi- Kalaiyarkoil - Sayalkudi Rd/Thanjavur - Orathanadu - Pattukottai Rd/Thanjavur - Pattukkottai Rd, Continue on Pattukkottai Bypass Rd. Drive to MDR343 in Thuvarankurichi North, Thuvarankurichi, Semmanampottal Kottaippattinam Rd ,and Total distance from Trichy Terminal To HANIFFA FILLING STATION (is 132km for heavy vehicles carrying hazardous materials.

Typical Weather Conditions and Potential Weather-Related Hazards

Weather Conditions: Trichy Terminal (T.N) To HANIFFA FILLING 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

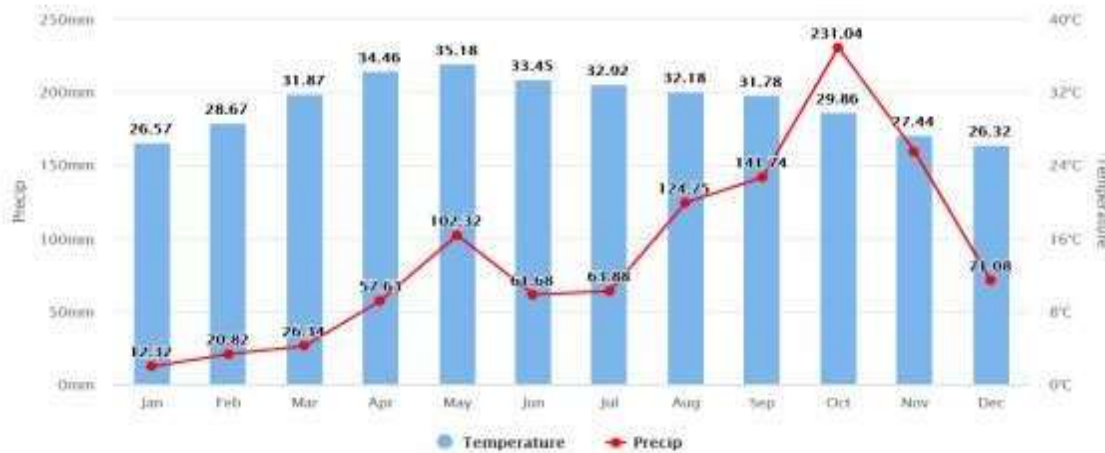
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Oct	Dec	Year
Record high °C (°F)	33.0 (91.4)	36.0 (100.4)	41.0 (105.8)	43.0 (109.4)	43.0 (109.4)	42.0 (107.6)	40.0 (104.0)	39.0 (102.2)	38.0 (100.4)	37.0 (98.6)	34.0 (93.2)	33.0 (91.4)	43.0 (109.4)
Average high °C (°F)	30.27 (86.49)	32.88 (91.18)	36.0 (96.8)	38.27 (100.89)	38.79 (101.82)	36.78 (98.2)	36.17 (97.11)	35.4 (95.72)	35.83 (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 HANIFFA FILLING 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 HANIFFA FILLING 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 HANIFFA FILLING STATION (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:

- TIRUCHY PUBLIC SCHOOL
- Gnanam School of Business
- Ponnaiyah Ramajayam Institute of Science & Technology
- Blossom Bluebells Academy School (CBSE Syllabus)
- Dr.M.S. Swaminathan Agricultural College and Research Institute,ECK
- MMA School
- Sugalaya Varmakalai Treatment Center
- Meenakshi Chandrasekaran College of Arts and Science(women)
- JFK & TOOLS ELECTRICAL
- Fincare Small Finance Bank
- B.R.P
- SS RICE SHOP
- Fathu Muthu Zuhara Store

❖ 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-). via NH 83 and Thanjavur - Kalayarkoil - Sayalkudi Rd/Thanjavur - Karaikudi - Kalaiyarkoil - Sayalkudi Rd/Thanjavur - Orathanadu - Pattukottai Rd/Thanjavur - Pattukkottai Rd.

Turn right onto Thanjavur - Kalayarkoil - Sayalkudi Rd/Thanjavur - Karaikudi

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- Kalaiyarkoil - Sayalkudi Rd/Thanjavur - Orathanadu - Pattukottai Rd/Thanjavur - Pattukkottai Rd, Continue on Pattukkottai Bypass Rd. Drive to MDR343 in Thuvarankurichi North, Thuvarankurichi.

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Alternative Route 2 -> via NH 83, Vallam Rd and Thanjavur - Kalayarkoil - Sayalkudi Rd/Thanjavur - Karaikudi - Kalaiyarkoil - Sayalkudi Rd/Thanjavur - Orathanadu - Pattukottai Rd/Thanjavur - Pattukkottai 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:** TIRUCHY PUBLIC SCHOOL, Wonder World Theme Park,, Ponnaiyah Ramajayam Institute of Science & Technology, Blossom Bluebells Academy School (CBSE Syllabus), Dr.M.S. Swaminathan Agricultural College and Research Institute, ECK, MMA School.
- **Educational institutions:** Arasu Education - Jcb Institute in Trichy, Chanakya share market training Institute, Adaikalamatha Institute of Teacher Education, National Institute of Food Technology, Entrepreneurship and.
- **Hospital:** - Dr Kamali's Home Clinic, Meenakshi Hospital, Sivapreethi Hospital, Sugalaya Varmakalai Treatment Center.
- **Gas Station:** Jagdish filling station, 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.

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- **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:**

TIRUCHY PUBLIC SCHOOL, Wonder World Theme Park, Ponnaiyah Ramajayam Institute of Science & Technology, Blossom Bluebells Academy School (CBSE Syllabus), Dr.M.S. Swaminathan Agricultural College and Research Institute, ECK MMA School. 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>			

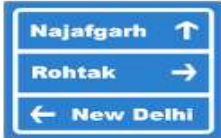

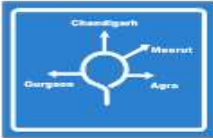
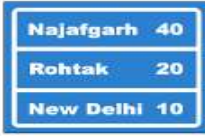
















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Cautionary signs

 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 HANIFFA FILLING 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.

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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	10.7328650836643132, 78.88929730997383	10.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.730622499591515, 78.901325412216747	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	10.715242160336519, 79.07095461100035	33 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.703469836629056, 79.08798784468142	35.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.6964481325454964, 79.09794795556375	36.7 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.695502569729664, 79.10318339482231	37.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.694130913553563, 79.10561105323868	37.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.681487529695021, 79.12824896855714	40.4 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.676954861326632, 79.13313218914544	41.2 KM	20km/hr TO 30 Km/Hr

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Sharp turn	Medium	10.67399171404084, 79.14020364483756	42 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.67005536178023, 79.14845768345319	43 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.654428733549738, 79.16836448268437	45.8 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.652221854896029, 79.17540469243615	46.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.650492128115856, 79.18469048587875	47.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.647688756813132, 79.1868753787529	48 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.646197591437373, 79.19094170660031	48.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.642678412119103, 79.2064180294603	50.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.644467830353127, 79.21588589728412	51.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.644987886203523, 79.21863195462178	51.6 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.644749298119521, 79.23222684175344	53.1 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.64528612104593, 79.23799253049232	53.7 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.634609131813274, 79.24782454730857	55.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.620710591849507, 79.24758178157975	56.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.614566400591388, 79.2504949716794	57.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.612955766919104, 79.25480406536846	58.1 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.613194379850361, 79.25765656400769	58.4 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.606356045215447, 79.26178068181336	59.3 KM	20km/hr TO 30 Km/Hr

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Sharp turn	Medium	10.604864678000341, 79.2614165330509	59.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.599674663282858, 79.265901320124272	60.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.587623945432698, 79.26687876460927	61.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.5132564156151789, 79.26661048804998	62.8 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.564071436487005, 79.27114295850889	64.3 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.544242460468135, 79.28135681019415	66.8 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.544242460468135, 79.291055613276085	67.9 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.545339415945685, 79.296913299512458	68.5 KM	20km/hr TO 30 Km/Hr
Sharp turn	High	10.550064717918724, 79.30650520131842	69.7 KM	10km/hr TO 15 Km/Hr
Sharp turn	High	10.491257310473884, 79.29853818515302	73. 0 KM	10km/hr TO 15 Km/Hr
Sharp turn	Medium	10.424661950688284, 79.31226139002187	81.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.416442030846467, 79.30990104560138	88.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.40040253783099, 79.31157475617015	92.6 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.394915164995396, 79.30990104667534	98.2 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.389986994584193, 79.30955771683284	102. KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.379951012921873, 79.30842046652553	108 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.375170357409853, 79.30960063486825	113 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.365260053434971, 79.30903191596222	117 KM	20km/hr TO 30 Km/Hr

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Sharp turn	Medium	10.347355576191307, 79.30846128024429	119 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	10.247594431352876, 79.27867815293504	121 KM	20km/hr TO 30 Km/Hr
Sharp turn	Medium	9.982628323961311, 79.20058365650434	135 KM	20km/hr TO 30 Km/Hr

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IOCL TIRCHY TERMINAL (10.13253, 78.8368) TO HANIFFA FILLING STATION (10.419159, 79.319237) TOTAL DISTANCE – 132K



10.769073692604486, 78.83720120889187



10.764113439530249, 78.83446118711721

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10.758209570013967, 78.83344387884853



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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10.72580557887016, 79.0641504304304



10.721070762434657, 79.061320763454654

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10.721721269051843, 79.07032492179873



10.715856047911897, 79.06925965827192

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10.645338366462365, 79.2350894341454



10.61312680226564, 79.255443411729

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10.6057006893810132, 79.26145932867404



10.544054693387439, 79.28156554890528

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10.435606920027084, 79.3310542197561



10.405626151321467, 79.35654026186128

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10.399951058474931, 79.3837085094

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

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10.78264888430246, 79.19827687817182

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



10.780416257312543, 79.2379448355477

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



10.777589957207995, 79.25308715211956

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



10.780076298248042, 79.25832468636311

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



10.780647803864088, 79.26569120395301

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



10.790174840169144, 79.27781013069385

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



10.78849870678751, 79.28802397538799

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



10.790446113920844, 79.29450581645645

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



10.792380219077335, 79.30826986447208



10.982267525456553, 79.38847428720712

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT

Starting point and destination



11.010559991808481, 79.40771232610331



11.094631280176856, 79.45314082348497

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

JOURNEY RISK MANAGEMENT REPORT



9.987103513917836, 79.20643919061685



9.984514769595433, 79.20201890864882

ALARP/JRM/TNSO/ HANIFFA FILLING STATION

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9.98276076150387, 79.200248636635

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