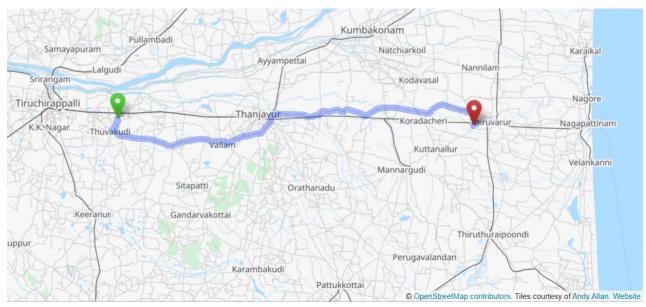
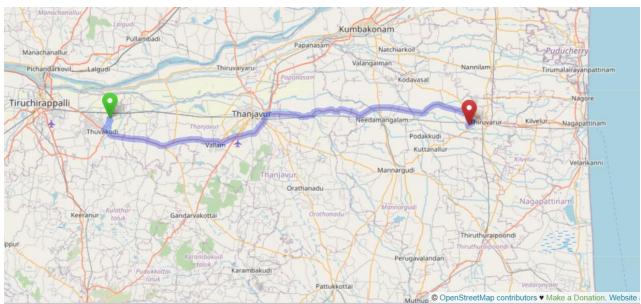


WELCOME TO JOURNEY RISK MANAGEMENT (JRM) STUDY USING ARTIFICIAL INTELLIGENCE (AI) FOR IOCL TRICHY TERMINAL

<u>IOCL TIRCHY TERMINAL (10.7753, 78.8368) TO P2B FUELS(</u>10.759312 , 79.598099) TOTAL DISTANCE – 100 KM





Welcome to the Journey Risk Management Study for P2B FUELS

Total distance: 100 km; Start with: (10.7753, 78.8368), End with: (10.759312, 79.598099)

Route Safety Analysis Report

1. Overview of the Route Map

The route from Trichy Terminal (T.N) TO P2B FUELS IS Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi, Follow NH 83 and NH 36 to Chinnammal Kallarai /Kallanai - Poombhuhar Rd/Poompuhar Rd in Kumbakonam, Follow Chinnammal Kallarai/Poompuhar Rd to NH 136B in Aduthurai, Turn right at the medical store onto Aduthurai - Tiruppandal Rd/Chinnammal Kallarai/Poompuhar Rd, Turn right at M.S.K Fish Farm onto NH 136B, Continue on Aduthurai - Porayar Rd. Drive to Main Rd in Nallathur, and Total distance from Trichy Terminal ToP2B FUELSIS 100 KM.

Typical Weather Conditions and Potential Weather-Related Hazards

Weather Conditions: Trichy Terminal (T.N) ToP2B FUELS 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.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Oct	Dec	Year
Record high °C (°F)	33.0	38.0	41.0	43.0	43.0	42.0	40.0	39.0	38.0	37.0	34.0	33.0	43.0
	(91.4)	(100.4)	(105.8)	(109.4)	(109.4)	(107.6)	(104.0)	(102.2)	(100.4)	(98.6)	(93.2)	(91.4)	(109.4)
Average high °C (°F)	30.27	32.88	36.0	38.27	38.79	36.78	36.17	35.4	35.03	32.9	30.38	29.34	34.35
	(86.49)	(91.18)	(96.8)	(100.89)	(101.82)	(98.2)	(97.11)	(95.72)	(95.05)	(91.22)	(86.68)	(84.81)	(93.83)
Daily mean °C (°F)	26.57	28.67	31.87	34.46	35.18	33.45	32.92	32.18	31.78	29.86	27.44	26.32	30.89
	(79.83)	(83.61)	(89.37)	(94.03)	(95.32)	(92.21)	(91.26)	(89.92)	(89.2)	(85.75)	(81.39)	(79.38)	(87.6)
Average low °C (°F)	19.88	20.93	24.04	27.62	28.89	27.59	27.04	26.45	25.95	24.64	22.43	20.93	24.7
	(67.78)	(69.67)	(75.27)	(81.72)	(84.0)	(81.66)	(80.67)	(79.61)	(78.71)	(76.35)	(72.37)	(69.67)	(76.46)
Record low °C (°F)	16.0	17.0	19.0	22.0	25.0	25.0	24.0	23.0	22.0	21.0	18.0	17.0	16.0
	(60.8)	(62.6)	(66.2)	(71.6)	(77.0)	(77.0)	(75.2)	(73.4)	(71.6)	(69.8)	(64.4)	(62.6)	(60.8)
Average precipitation mm (inches)	12.32	20.82	26.34	57.63	102.32	61.68	63.88	124.75	141.74	231.04	159.62	71.08	89.44
	(0.49)	(0.82)	(1.04)	(2.27)	(4.03)	(2.43)	(2.51)	(4.91)	(5.58)	(9.1)	(6.28)	(2.8)	(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

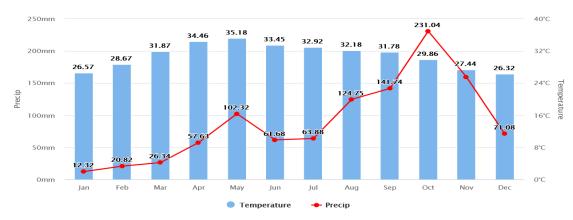
ALARP/JRM/TNSO/P2B FUELS

<u>Weather-Related Hazards:</u> Trichy Terminal (T.N) ToP2B FUELS 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 P2B FUELS 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:

Typically, Trichy Terminal (T.N) To P2B FUELS 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:

- State Institute Of Hotel Management and Catering Technology
- Valavanthankottai Toll Plaza
- SPOT ON 42969 Royal Residency
- Anand Engineering Products Ptv. 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

ALARP/JRM/TNSO/P2B FUELS

- 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

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 water logging.

Suggestions for Alternative Routes for Emergencies

Alternative Route 1-). Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi, Follow NH 83 and NH 36 to Chinnammal Kallarai/Kallanai - Poombhuhar Rd/Poompuhar Rd in Kumbakonam, Follow Chinnammal Kallarai/Poompuhar Rd to NH 136B in Aduthurai, Turn right at the medical store onto Aduthurai - Tiruppandal Rd/Chinnammal Kallarai/Poompuhar Rd, Turn right at M.S.K Fish Farm onto NH 136B, Continue on Aduthurai - Porayar Rd. Drive to Main Rd in Nallathur.

Alternative Route 2 -) Take SIDCO to Indian oil Storage to NH 83 in Thuvakudi, At Jude Digital Studios, continue onto Thuvakudi toSIDCO& Indian oil Storage, Follow NH 83 and NH 36 to Chinnammal Kallarai/Kallanai - Poombhuhar 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 water logging 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 Ptv. 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.
- **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 Ptv. 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).

Overall Summary of Risk Assessment

- Risk Level: Moderate to High, especially during monsoon season.
- **Key Risks**: Water logging, 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





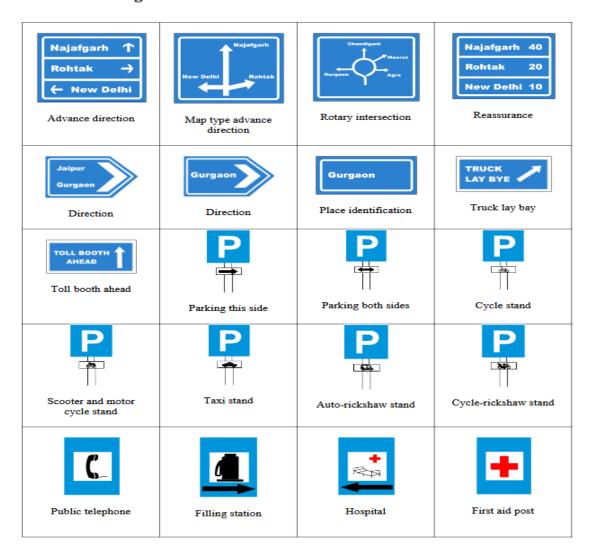


Restriction ands

Cautionary signs



Information signs



Conclusion

The route for Trichy Terminal (T.N) ToP2B FUELS 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.

• 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

Sharp turn	Medium	10.720994881360893,	16.5 KM	20km/hr TO 30
		78.93834716298483		Km/Hr
Sharp turn	High	10.71915010256302,	16.8 KM	10km/hr TO 15
		78.9411152027286		Km/Hr
Sharp turn	Medium	10.71843327121256,	17 KM	20km/hr TO 30
_		78.94211298444303		Km/Hr
Sharp turn	High	10.717263145760954,	17.5 KM	10km/hr TO 15
_		78.94670492633878		Km/Hr
Sharp turn	High	10.716985075928461,	18 KM	10km/hr TO 15
_		78.95102478766644		Km/Hr
Sharp turn	Medium	10.71809195248243,	18. 5 KM	20km/hr TO 30
1		78.95607806951443		Km/Hr
Sharp turn	High	10.725197170776585,	21 KM	10km/hr TO 15
_		78.97692607372574		Km/Hr
Sharp turn	Medium	10.730780555846192,	25.3 KM	20km/hr TO 30
_		79.01656126512937		Km/Hr
Sharp turn	High	10.730190246964545,	25.8 KM	10km/hr TO 15
_		79.02046656130192		Km/Hr
Sharp turn	High	10.730401071697452,	26.2 KM	10km/hr TO 15
_		79.02480101090002		Km/Hr
Sharp turn	Medium	10.727139512814995,	27.9 KM	20km/hr TO 30
		79.03926391834526		Km/Hr
Sharp turn	Medium	10.726633527742022,	30.7 KM	20km/hr TO 30
_		79.06514187050024		Km/Hr
Sharp turn	Medium	10.723049442647225,	31.4 KM	20km/hr TO 30
		79.07037754229201		Km/Hr
Sharp turn	Medium	10.736837396359547,	35.6 KM	20km/hr TO 30
		79.10561104002268		Km/Hr
Sharp turn	Medium	10.73612060698111,	36.2 KM	20km/hr TO 30
_		79.11058922045575		Km/Hr
Sharp turn	High	10.742782466810393,	38.8 KM	10km/hr TO 15
_		79.13346309881189		Km/Hr
Sharp turn	Medium	10.7432462617802,	39.9 KM	20km/hr TO 30
		79.14376278157714		Km/Hr
Sharp turn	Medium	10.761628831100811,	42.6 KM	20km/hr TO 30
		79.15891189809322		Km/Hr

Sharp turn	High	10.769386276465765,	43.6 KM	10km/hr TO 15
		79.16457672365718		Km/Hr
Sharp turn	High	10.777523785773456,	44.5 KM	10km/hr TO 15
		79.16605658817572		Km/Hr
Sharp turn	Medium	10.778298856573569,	44.6 KM	20km/hr TO 30
		79.166124866062		Km/Hr
Sharp turn	High	10.780199262033587,	44.9 KM	10km/hr TO 15
		79.16753594256141		Km/Hr
Sharp turn	Medium	10.7806315094395,	45 KM	20km/hr TO 30
		79.1679076777507		Km/Hr
Sharp turn	Medium	10.79007090118994,	46.3 KM	20km/hr TO 30
		79.17526904315943		Km/Hr
Sharp turn	Medium	10.838732864147495,	52.1 KM	20km/hr TO 30
		79.19203106952445		Km/Hr
Sharp turn	Medium	10.841627556326298,	52.4KM	20km/hr TO 30
		79.19288590968536		Km/Hr
Sharp turn	High	10.864382116006672,	55 KM	10km/hr TO 15
		79.19247970116858		Km/Hr
Sharp turn	Medium	10.865459704381829,	55.1 KM	20km/hr TO 30
		79.19283694778355		Km/Hr
Sharp turn	Medium	10.86958207059273,	55.7 KM	20km/hr TO 30
		79.19625630830366		Km/Hr
Sharp turn	Medium	10.874421776457657,	57.2 KM	20km/hr TO 30
		79.20945572418708		Km/Hr
Sharp turn	Medium	10.874948023326985,	57.4 KM	20km/hr TO 30
		79.21073160495483		Km/Hr
Sharp turn	Medium	10.892892468546385,	64.2 KM	20km/hr TO 30
		79.2699895159846		Km/Hr
Sharp turn	High	10.906466254501833,	66.9 KM	10km/hr TO 15
		79.29083725124362		Km/Hr
Sharp turn	Medium	10.916839547699407,	68.4 KM	20km/hr TO 30
		79.29961531121639		Km/Hr
Sharp turn	Medium	10.92707467639872,	69.8 KM	20km/hr TO 30
		79.30628816788477		Km/Hr
Sharp turn	Medium	10.932649353273062,	70.6 KM	20km/hr TO 30
		79.3106134039501		Km/Hr

Sharp turn	Medium	10.935079628994828,	71.1 KM	20km/hr TO 30
		79.31465794598385		Km/Hr
Sharp turn	Medium	10.935881809725412,	72.6 KM	20km/hr TO 30
		79.32846053023889		Km/Hr
Sharp turn	High	10.939258924057162,	74.2 KM	10km/hr TO 15
		79.34295919658322		Km/Hr
Sharp turn	Medium	10.940185918176494,	74.5 KM	20km/hr TO 30
		79.34528129965602		Km/Hr
Sharp turn	Medium	10.941250705135284,	74.6 KM	20km/hr TO 30
		79.34595751650197		Km/Hr
Sharp turn	Medium	10.947263547752911,	75.3 KM	20km/hr TO 30
		79.34723339730526		Km/Hr
Sharp turn	Medium	10.947639346359221,	75.4 KM	20km/hr TO 30
		79.34734822657435		Km/Hr
Sharp turn	High	10.951359726957488,	75.8 KM	10km/hr TO 15
		79.34788409653387		Km/Hr
Sharp turn	High	10.954090481533097,	76.1 KM	10km/hr TO 15
		79.3478713377262		Km/Hr
Sharp turn	Medium	10.955480901997275,	76.2 KM	20km/hr TO 30
		79.34833065485216		Km/Hr
Sharp turn	Medium	10.966303410639958,	77.5 KM	20km/hr TO 30
		79.3521710560902		Km/Hr
Sharp turn	Medium	10.969722940404145,	78 KM	20km/hr TO 30
		79.3542890182272		Km/Hr
Sharp turn	Medium	10.97156420928446,	78.3 KM	20km/hr TO 30
		79.35704492074562		Km/Hr
Sharp turn	Medium	10.974244675466208,	79 KM	20km/hr TO 30
		79.36227603209447		Km/Hr
Sharp turn	Medium	10.980554084386217,	80.6 KM	20km/hr TO 30
		79.37598180044225		Km/Hr
Sharp turn	High	10.98099246669875,	80.8 KM	10km/hr TO 15
		79.37766596305566		Km/Hr
Sharp turn	Medium	10.98218952078963,	82 KM	20km/hr TO 30
		79.38795972392433		Km/Hr
Sharp turn	High	10.982640425804044,	82.1 KM	10km/hr TO 15
		79.3888273228464		Km/Hr

Sharp turn	Medium	10.983366882411035,	82.5 KM	20km/hr TO 30
		79.39262944775143		Km/Hr
Sharp turn	High	10.981650938874413,	82.8 KM	10km/hr TO 15
		79.39447947486467		Km/Hr
Sharp turn	Medium	10.98558381666939,	83.5 KM	20km/hr TO 30
		79.39865160526288		Km/Hr
Sharp turn	Medium	10.98891544919475,	84 KM	20km/hr TO 30
		79.40207096583704		Km/Hr
Sharp turn	Medium	10.991407886549627,	84.7 KM	20km/hr TO 30
		79.40846312864453		Km/Hr
Sharp turn	High	10.991996549570876,	84.9 KM	10km/hr TO 15
1		79.40934348637427		Km/Hr
Sharp turn	Medium	10.994401288511858,	85.2 KM	20km/hr TO 30
1		79.41132110176441		Km/Hr
Sharp turn	Medium	10.998571961052205,	86.1 KM	20km/hr TO 30
1		79.41860638109635		Km/Hr
Sharp turn	Medium	10.999598964467538,	86.3 KM	20km/hr TO 30
1		79.42000985011298		Km/Hr
Sharp turn	Medium	11.000388001231217,	86.8 KM	20km/hr TO 30
1		79.42383749269939		Km/Hr
Sharp turn	Medium	11.00311830263473,	87.7 KM	20km/hr TO 30
1		79.43131415417443		Km/Hr
Sharp turn	Medium	11.00507208079757,	88.2 KM	20km/hr TO 30
1		79.43547352563432		Km/Hr
Sharp turn	Medium	11.006487309414123,	88.3 KM	20km/hr TO 30
•		79.43631560694104		Km/Hr
Sharp turn	Medium	11.007864959118875,	88.6 KM	20km/hr TO 30
•		79.4382804634414		Km/Hr
Sharp turn	Medium	11.00829077679642,	88.7 KM	20km/hr TO 30
1		79.43949255017075		Km/Hr
Sharp turn	Medium	11.009455510263674,	89.2 KM	20km/hr TO 30
•		79.44302674003897		Km/Hr
Sharp turn	Medium	11.011597104967523,	90.2 KM	20km/hr TO 30
•		79.4519068706572		Km/Hr
Sharp turn	Medium	11.0243962523845,	92.2 KM	20km/hr TO 30
		79.47167026450096		Km/Hr

Sharp turn	Medium	11.025423165698344,	92.9 KM	20km/hr TO 30
		79.47270372792285		Km/Hr
Sharp turn	High	11.026951005699203,	93.4 KM	10km/hr TO 15
		79.4765186114184		Km/Hr
Sharp turn	Medium	11.024070644939572,	93.8 KM	20km/hr TO 30
		79.4784324327326		Km/Hr
Sharp turn	Medium	11.023557186369509,	93.9 KM	20km/hr TO 30
		79.47919796119325		Km/Hr
Sharp turn	Medium	11.02231736807814,	94 KM	20km/hr TO 30
		79.47914692596254		Km/Hr
Sharp turn	Medium	11.019424438352559,	94.4 KM	20km/hr TO 30
		79.48134144096412		Km/Hr
Sharp turn	High	11.018159555404297,	94.6 KM	10km/hr TO 15
		79.4812904057334		Km/Hr
Sharp turn	Medium	11.01849769296255,	94.7 KM	20km/hr TO 30
		79.48245145723206		Km/Hr
Sharp turn	Medium	11.021536838841904,	96 KM	20km/hr TO 30
		79.49363026592134		Km/Hr
Sharp turn	Medium	11.022601332462624,	96.9 KM	20km/hr TO 30
		79.50214039095387		Km/Hr
Sharp turn	Medium	11.022263199620792,	97 KM	20km/hr TO 30
		79.50313557795272		Km/Hr
Sharp turn	Medium	11.024905634862868,	98.1 KM	20km/hr TO 30
		79.5124239902946		Km/Hr
Sharp turn	Medium	11.025757220292181,	98.4 KM	20km/hr TO 30
		79.51474609329189		Km/Hr
Sharp turn	Medium	11.025293857941637,	99 KM	20km/hr TO 30
		79.52009203404697		Km/Hr
Sharp turn	Medium	11.025869929947271,	99.2 KM	20km/hr TO 30
		79.5218782671218		Km/Hr
Sharp turn	Medium	11.02555684747551,	99.3 KM	20km/hr TO 30
		79.52288621292833		Km/Hr
Sharp turn	Medium	11.026007686148084,	100 KM	20km/hr TO 30
		79.52924009952889		Km/Hr

• Risk Assessment - Elevation Changes

ALARP/JRM/TNSO/P2B FUELS

Risk Type	Specific Risk	Risk Level	Coordination	Elevation Change	Gradient	Recommen dation 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

$\underline{IOCL\ TIRCHY\ TERMINAL\ (10.7753,78.8368)\ TO\ P2B\ FUELS\ (} 10.759312\ ,$ $79.598099)\ TOTAL\ DISTANCE-100\ KM$



ALARP/JRM/TNSO/P2B FUELS

10.769073692604486, 78.83720120889187



10.764113439530249, 78.83446118711721



10.758209570013967, 78.83344387884853



10.751314343624747, 78.82530656733346



10.75126610223314, 78.82518044583597



10.749591316479634, 78.83018387464983



10.739318685033433, 78.8379420178455
ALARP/JRM/TNSO/P2B FUELS



10.735064036857814, 78.86553394452655



ALARP/JRM/TNSO/P2B FUELS

10.731428224715632, 78.90834087863155



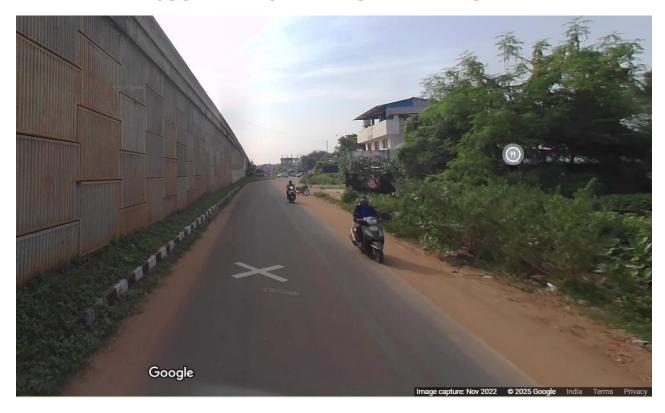
10.7204752733678, 78.94043095175968



10.730470193011778, 79.02491837645792



10.73562703051417, 79.10914681274313



10.74239869421108, 79.13924228433945



10.762835880662, 79.15885726520942

ALARP/JRM/TNSO/P2B FUELS

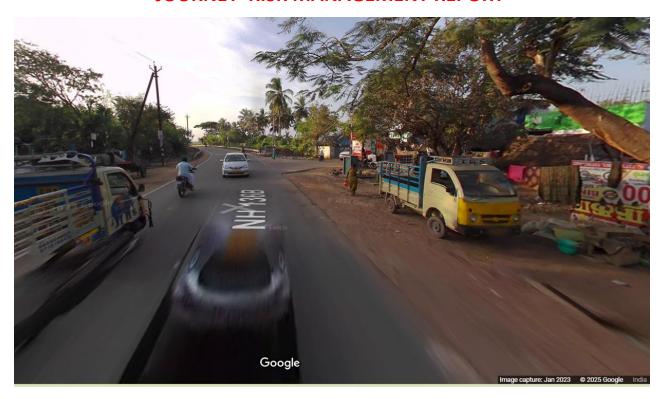


10.86508872374555, 79.19199892851083



10.983050192850786, 79.38667088419274

ALARP/JRM/TNSO/P2B FUELS



10.982396440646552, 79.39381342050322



10.991527724757828, 79.40666540897624

ALARP/JRM/TNSO/P2B FUELS



11.022490944084682, 79.47018786867453



11.020753919153844, 79.48026079789986



10.788696692140249, 79.3455644786478



10.785733289683266, 79.35490745607751



10.780187860570496, 79.36537635952298



10.797515366196635, 79.55079901139362



10.787962929767504, 79.58584553028874



10.78334932441013, 79.60438111285706



10.78001494740206, 79.60669481518605



10.765435992758627, 79.60441128071027



10.762304008700566, 79.60286691875827



10.759485248211483, 79.59804247825959