



HINDUSTAN PETROLEUM CORPORATION LIMITED

Risk Management Division - AI-Powered Analysis

# COMPREHENSIVE JOURNEY RISK MANAGEMENT ANALYSIS REPORT

Enhanced with Artificial Intelligence & Visual Evidence

## ROUTE ANALYSIS DETAILS

Route ID: e1d7e056-682...

Origin: Unnamed Road, Oil Industry Terminals, Partapu

Destination: V85H+WR5, Saharanpur Rd, Ambehata Dehat, Ambh

Total Distance: 131 km

Estimated Duration: 2 hours 27 mins

Analysis Date: June 09, 2025

Report Generated: 10:39 AM

*This report contains comprehensive analysis including visual evidence and AI-powered insights*

COMPREHENSIVE ROUTE OVERVIEW & STATISTICS

ROUTE INFORMATION

From Address	Unnamed Road, Oil Industry Terminals, Partapur, Meerut,
To Address	V85H+WR5, Saharanpur Rd, Ambehata Dehat, Ambheta, Uttar
Total Distance	131 km
Estimated Duration	2 hours 27 mins
Route Points Analyzed	2,684
Analysis Timestamp	2025-06-09 04:59:48
Overall Safety Score	0/100 (DANGEROUS)

HAZARD ANALYSIS SUMMARY

Total Sharp Turns Identified	15
Extreme Turns (>=90 deg)	6
High-Risk Blind Spots (80-90 deg)	0
Sharp Danger Zones (70-80 deg)	1
Moderate Turns (45-70 deg)	8
Network Dead Zones	2
Poor Coverage Areas	3

[!] OVERALL SAFETY ASSESSMENT: HIGH RISK (Score: 0/100)

IDENTIFIED RISK FACTORS

- \* 6 extreme turns requiring extreme caution
- \* 2 communication dead zones
- \* 3 areas with poor network coverage

SAFETY RECOMMENDATIONS

- \* Reduce speed at identified sharp turns and blind spots
- \* Maintain extra distance from other vehicles in risk areas
- \* Ensure vehicle is in optimal condition before journey
- \* Carry emergency communication devices for dead zones
- \* Plan rest stops at safe locations identified in the route
- \* Monitor weather conditions before and during travel

SHARP TURNS ANALYSIS WITH DUAL VISUAL EVIDENCE

Total Sharp Turns Detected	15
Extreme Danger Turns (>=90 deg)	6
High-Risk Blind Spots (80-90 deg)	0
Sharp Danger Zones (70-80 deg)	1
Moderate Risk Turns (45-70 deg)	8
Most Dangerous Turn Angle	180.0 deg
Average Turn Angle	88.4 deg
Street View Images Available	7
Satellite Images Available	7
Route Map Images Available	0
Total Visual Evidence Files	14

[OK] VISUAL EVIDENCE STATUS: EXCELLENT VISUAL EVIDENCE (14 images)

TURN CLASSIFICATION SYSTEM

Angle Range	Classification	Risk Level	Max Speed	Safety Requirement
>=90 deg	EXTREME BLIND S	CRITICAL	15 km/h	Full stop may be requ
80-90 de	HIGH-RISK BLIND	EXTREME	20 km/h	Extreme caution requi
70-80 de	BLIND SPOT	HIGH	25 km/h	High caution required
60-70 de	HIGH-ANGLE TURN	MEDIUM	30 km/h	Moderate caution requ
45-60 de	SHARP TURN	LOW	40 km/h	Normal caution requir

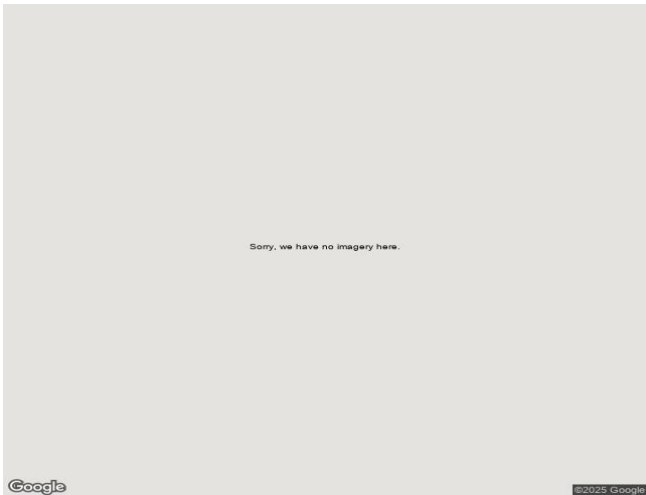
CRITICAL TURNS WITH DUAL VISUAL EVIDENCE ANALYSIS

CRITICAL TURN #1: 180.0 deg - EXTREME BLIND SPOT - CRITICAL RISK

GPS Coordinates	29.799710, 77.462060
Turn Angle	180.0 deg (Deviation from straight path)
Risk Classification	EXTREME BLIND SPOT - CRITICAL Risk Level
Recommended Maximum Speed	15 km/h
Safety Distance Required	Minimum 50m approach visibility
Driver Action Required	Reduce speed, check mirrors, signal early
Street View Images	1 images available
Satellite Images	1 images available
Total Visual Evidence	2 images for analysis

VISUAL EVIDENCE FOR TURN #1:

STREET VIEW ANALYSIS:



STREET VIEW DATA:  
File: streetview\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_1\_h0.jpg  
Size: 8.6 KB  
GPS: 29.7997, 77.4621

- ROAD ANALYSIS:
- \* Turn angle: 180.0 degrees
  - \* Visibility: Limited due to sharp curve
  - \* Hazard level: CRITICAL
  - \* Max speed: 15 km/h

SATELLITE VIEW ANALYSIS:



SATELLITE VIEW DATA:  
File: satellite\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_1.png  
Size: 317.6 KB  
GPS: 29.7997, 77.4621

- AERIAL ANALYSIS:
- \* Turn geometry: 180.0 deg curve
  - \* Road curvature: Sharp bend visible
  - \* Terrain context: Aerial perspective
  - \* Traffic flow impact: Potential bottleneck

CRITICAL TURN #2: 159.6 deg - EXTREME BLIND SPOT - CRITICAL RISK

GPS Coordinates	29.800050, 77.458640
Turn Angle	159.6 deg (Deviation from straight path)
Risk Classification	EXTREME BLIND SPOT - CRITICAL Risk Level
Recommended Maximum Speed	15 km/h
Safety Distance Required	Minimum 50m approach visibility
Driver Action Required	Reduce speed, check mirrors, signal early
Street View Images	2 images available
Satellite Images	2 images available
Total Visual Evidence	4 images for analysis

VISUAL EVIDENCE FOR TURN #2:

STREET VIEW ANALYSIS:



STREET VIEW DATA:  
File: streetview\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_2\_h0.jpg  
Size: 59.0 KB  
GPS: 29.8000, 77.4586

- ROAD ANALYSIS:
- \* Turn angle: 159.6 degrees
  - \* Visibility: Limited due to sharp curve
  - \* Hazard level: CRITICAL
  - \* Max speed: 15 km/h

SATELLITE VIEW ANALYSIS:



SATELLITE VIEW DATA:  
File: satellite\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_2.png  
Size: 308.2 KB  
GPS: 29.8000, 77.4586

- AERIAL ANALYSIS:
- \* Turn geometry: 159.6 deg curve
  - \* Road curvature: Sharp bend visible
  - \* Terrain context: Aerial perspective
  - \* Traffic flow impact: Potential bottleneck



CRITICAL TURN #3: 159.6 deg - EXTREME BLIND SPOT - CRITICAL RISK

GPS Coordinates	29.800050, 77.458640
Turn Angle	159.6 deg (Deviation from straight path)
Risk Classification	EXTREME BLIND SPOT - CRITICAL Risk Level
Recommended Maximum Speed	15 km/h
Safety Distance Required	Minimum 50m approach visibility
Driver Action Required	Reduce speed, check mirrors, signal early
Street View Images	2 images available
Satellite Images	2 images available
Total Visual Evidence	4 images for analysis

VISUAL EVIDENCE FOR TURN #3:

STREET VIEW ANALYSIS:



STREET VIEW DATA:  
File: streetview\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_2\_h0.jpg  
Size: 59.0 KB  
GPS: 29.8000, 77.4586

- ROAD ANALYSIS:
- \* Turn angle: 159.6 degrees
  - \* Visibility: Limited due to sharp curve
  - \* Hazard level: CRITICAL
  - \* Max speed: 15 km/h

SATELLITE VIEW ANALYSIS:



SATELLITE VIEW DATA:  
File: satellite\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_2.png  
Size: 308.2 KB  
GPS: 29.8000, 77.4586

- AERIAL ANALYSIS:
- \* Turn geometry: 159.6 deg curve
  - \* Road curvature: Sharp bend visible
  - \* Terrain context: Aerial perspective
  - \* Traffic flow impact: Potential bottleneck



CRITICAL TURN #4: 113.0 deg - EXTREME BLIND SPOT - CRITICAL RISK

GPS Coordinates	29.801760, 77.459240
Turn Angle	113.0 deg (Deviation from straight path)
Risk Classification	EXTREME BLIND SPOT - CRITICAL Risk Level
Recommended Maximum Speed	15 km/h
Safety Distance Required	Minimum 50m approach visibility
Driver Action Required	Reduce speed, check mirrors, signal early
Street View Images	2 images available
Satellite Images	2 images available
Total Visual Evidence	4 images for analysis

VISUAL EVIDENCE FOR TURN #4:

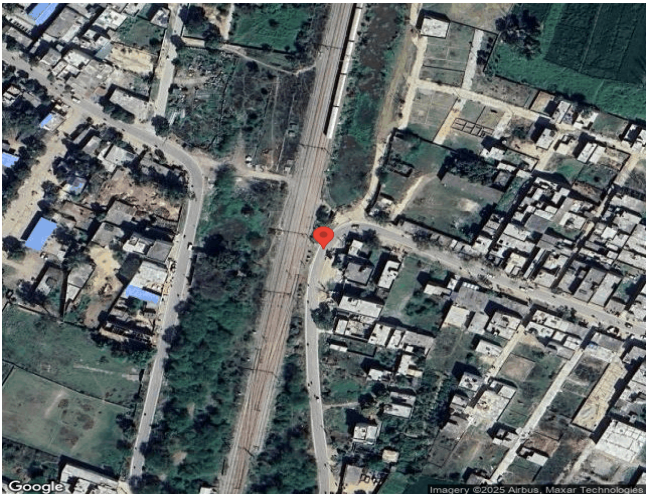
STREET VIEW ANALYSIS:



STREET VIEW DATA:  
File: streetview\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_4\_h0.jpg  
Size: 59.5 KB  
GPS: 29.8018, 77.4592

- ROAD ANALYSIS:
- \* Turn angle: 113.0 degrees
  - \* Visibility: Limited due to sharp curve
  - \* Hazard level: CRITICAL
  - \* Max speed: 15 km/h

SATELLITE VIEW ANALYSIS:



SATELLITE VIEW DATA:  
File: satellite\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_4.png  
Size: 342.8 KB  
GPS: 29.8018, 77.4592

- AERIAL ANALYSIS:
- \* Turn geometry: 113.0 deg curve
  - \* Road curvature: Sharp bend visible
  - \* Terrain context: Aerial perspective
  - \* Traffic flow impact: Potential bottleneck

CRITICAL TURN #5: 113.0 deg - EXTREME BLIND SPOT - CRITICAL RISK

GPS Coordinates	29.801760, 77.459240
Turn Angle	113.0 deg (Deviation from straight path)
Risk Classification	EXTREME BLIND SPOT - CRITICAL Risk Level
Recommended Maximum Speed	15 km/h
Safety Distance Required	Minimum 50m approach visibility
Driver Action Required	Reduce speed, check mirrors, signal early
Street View Images	2 images available
Satellite Images	2 images available
Total Visual Evidence	4 images for analysis

VISUAL EVIDENCE FOR TURN #5:

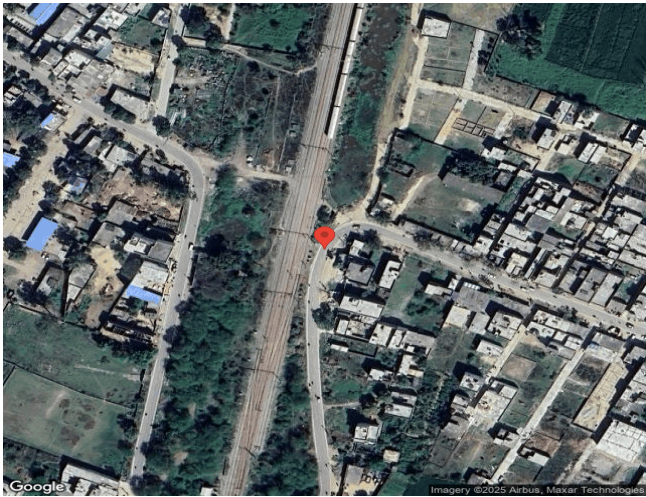
STREET VIEW ANALYSIS:



STREET VIEW DATA:  
File: streetview\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_4\_h0.jpg  
Size: 59.5 KB  
GPS: 29.8018, 77.4592

- ROAD ANALYSIS:
- \* Turn angle: 113.0 degrees
  - \* Visibility: Limited due to sharp curve
  - \* Hazard level: CRITICAL
  - \* Max speed: 15 km/h

SATELLITE VIEW ANALYSIS:



SATELLITE VIEW DATA:  
File: satellite\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_4.png  
Size: 342.8 KB  
GPS: 29.8018, 77.4592

- AERIAL ANALYSIS:
- \* Turn geometry: 113.0 deg curve
  - \* Road curvature: Sharp bend visible
  - \* Terrain context: Aerial perspective
  - \* Traffic flow impact: Potential bottleneck



CRITICAL TURN #6: 97.4 deg - EXTREME BLIND SPOT - CRITICAL RISK

GPS Coordinates	29.804640, 77.454670
Turn Angle	97.4 deg (Deviation from straight path)
Risk Classification	EXTREME BLIND SPOT - CRITICAL Risk Level
Recommended Maximum Speed	15 km/h
Safety Distance Required	Minimum 50m approach visibility
Driver Action Required	Reduce speed, check mirrors, signal early
Street View Images	1 images available
Satellite Images	1 images available
Total Visual Evidence	2 images for analysis

VISUAL EVIDENCE FOR TURN #6:

STREET VIEW ANALYSIS:



STREET VIEW DATA:  
File: streetview\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_6\_h0.jpg  
Size: 48.4 KB  
GPS: 29.8046, 77.4547

- ROAD ANALYSIS:
- \* Turn angle: 97.4 degrees
  - \* Visibility: Limited due to sharp curve
  - \* Hazard level: CRITICAL
  - \* Max speed: 15 km/h

SATELLITE VIEW ANALYSIS:



SATELLITE VIEW DATA:  
File: satellite\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_6.png  
Size: 353.5 KB  
GPS: 29.8046, 77.4547

- AERIAL ANALYSIS:
- \* Turn geometry: 97.4 deg curve
  - \* Road curvature: Sharp bend visible
  - \* Terrain context: Aerial perspective
  - \* Traffic flow impact: Potential bottleneck

CRITICAL TURN #7: 75.7 deg - BLIND SPOT - HIGH RISK

GPS Coordinates	29.625320, 77.439180
Turn Angle	75.7 deg (Deviation from straight path)
Risk Classification	BLIND SPOT - HIGH Risk Level
Recommended Maximum Speed	25 km/h
Safety Distance Required	Minimum 50m approach visibility
Driver Action Required	Reduce speed, check mirrors, signal early
Street View Images	1 images available
Satellite Images	1 images available
Total Visual Evidence	2 images for analysis

VISUAL EVIDENCE FOR TURN #7:

STREET VIEW ANALYSIS:



STREET VIEW DATA:  
File: streetview\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_7\_h0.jpg  
Size: 50.9 KB  
GPS: 29.6253, 77.4392

- ROAD ANALYSIS:
- \* Turn angle: 75.7 degrees
  - \* Visibility: Limited due to sharp curve
  - \* Hazard level: HIGH
  - \* Max speed: 25 km/h

SATELLITE VIEW ANALYSIS:



SATELLITE VIEW DATA:  
File: satellite\_e1d7e056-6821-4ed8-b346-4e0f94d18a0c\_turn\_7.png  
Size: 299.5 KB  
GPS: 29.6253, 77.4392

- AERIAL ANALYSIS:
- \* Turn geometry: 75.7 deg curve
  - \* Road curvature: Sharp bend visible
  - \* Terrain context: Aerial perspective
  - \* Traffic flow impact: Potential bottleneck

CRITICAL TURN #8: 68.3 deg - HIGH-ANGLE TURN - MEDIUM RISK

GPS Coordinates	28.960250, 77.639950
Turn Angle	68.3 deg (Deviation from straight path)
Risk Classification	HIGH-ANGLE TURN - MEDIUM Risk Level
Recommended Maximum Speed	30 km/h
Safety Distance Required	Minimum 50m approach visibility
Driver Action Required	Reduce speed, check mirrors, signal early
Street View Images	0 images available
Satellite Images	0 images available
Total Visual Evidence	0 images for analysis

No visual evidence available for Turn #8  
Images may be available at nearby coordinates: 28.9602, 77.6399

COMPREHENSIVE POINTS OF INTEREST ANALYSIS

Total POIs Identified	287
Emergency Services	99
Essential Services	38
Other Services	150
Coverage Score	100/100
Service Availability Rating	EXCELLENT

SERVICE AVAILABILITY: EXCELLENT SERVICE COVERAGE (100/100)



MEDICAL FACILITIES - Emergency Healthcare Services (69 found) - CRITICAL

#	Facility Name	Location/Address	Distance	Notes
1	Sanjeevani Yoga An	Unnamed Road, Surya P	Along ro	Emergenc
2	Chhatrapati Shivaj	Swami Vivekanand Subh	Along ro	Emergenc
3	Dr Lal PathLabs -	Shop No 17, Khana Pla	Along ro	Emergenc
4	Kalka Dental Colle	near Partapur Flyover	Along ro	Emergenc
5	Davki Nandan Hospi	Devkinandan hospital,	Along ro	Emergenc
6	Pathkind Labs	Shop 8, Mall, Meerut	Along ro	Emergenc
7	Thumbay dental cli	WMX9+7Q7, Phase-II, I	Along ro	Emergenc
8	Urmila	152/1, Partapur, Part	Along ro	Emergenc
9	KAYA KALP HOSPITAL	SOPREX MALL, near AVI	Along ro	Emergenc
10	Divynshi Medicose	XM59+FGG, Shivpuram C	Along ro	Emergenc
11	Neera Dental Clini	4/7, Delhi Road, Meer	Along ro	Emergenc
12	Bala Ji Medical St	Peer, Rithani, Meerut	Along ro	Emergenc
13	Arogya physiothera	phase -1, Mansarovar	Along ro	Emergenc
14	Arvind mera haathi	WMXG+55X, Surya Palac	Along ro	Emergenc
15	UPHC MALIYANA MEER	hospital, near malyan	Along ro	Emergenc

LAW ENFORCEMENT - Security & Emergency Response (29 found) - CRITICAL

#	Facility Name	Location/Address	Distance	Notes
1	Nauchandi Police S	Mohsin Bagh, Manzoor	Along ro	
2	Shatabdi Nagar Pol	WMPG+W37, Shatabdi Na	Along ro	
3	Police Choki Shubh	XJ5Q+9R6, NH58, Meeru	Along ro	
4	Pari Chowk	WJPR+VG3, Pari Chowk,	Along ro	
5	Police Choki VedVy	XJ7R+37V, NH58, Ved V	Along ro	
6	Police Checkpost	XMHM+FWW, Meerut Cant	Along ro	
7	T P Nagar Police S	XM CJ+JX7, Sabun Godam	Along ro	
8	Partapur Police St	WJ CX+8F3, Delhi Road,	Along ro	
9	Madhav Puram Polic	XM6V+5P5, Madhavpuram	Along ro	
10	Jamuniya baag tira	XM HJ+8GG, Meerut Cant	Along ro	
11	Police Chowki	XM MC+PWG, Rohta Road,	Along ro	
12	Baiznath Tyagi Bha	near Kamlesh Public s	Along ro	
13	Delhi Gate Police	20, Sharda Road, Shiv	Along ro	
14	Police station	XM Q8+WP2, Fazalpur, M	Along ro	
15	Police chawki	2MMF+C6W, Unnamed Roa	Along ro	

FIRE & RESCUE - Emergency Response Services (1 found) - CRITICAL

#	Facility Name	Location/Address	Distance	Notes
1	Fire Station Parta	WMC5+X9P, Sector 2, M	Along ro	

FUEL STATIONS - Vehicle Refueling Points (38 found) - ESSENTIAL

#	Facility Name	Location/Address	Distance	Notes
1	IndianOil	Ground Floor, Shamli	Along ro	Fuel
2	cng pump meerut	WMJ5+6X6, Block 4A, S	Along ro	Fuel
3	Hindustan Petroleu	Ground Floor, Baraut	Along ro	Fuel
4	Allen Oil	WMG5+4FP, Sector 2, M	Along ro	Fuel
5	Raj Service Statio	Bhoor Baral, NH 58, M	Along ro	Fuel
6	Madhu Transport Pe	Delhi Road, Partapur,	Along ro	Fuel
7	Nayara Petrol Pump	Plot No. 2CP, 101, Ma	Along ro	Fuel
8	Petrol Pump,Bharat	Jain Nagar, Devpuri,	Along ro	Fuel
9	Nayara Petrol Pump	Khasra No. 700/1 & 71	Along ro	Fuel
10	HP Petrol Pump - A	near Metro Plaza, Bag	Along ro	Fuel
11	HP PETROL PUMP - S	Rohta Road Near Railw	Along ro	Fuel
12	Nayara Petrol Pump	Khasra No. 397,Villag	Along ro	Fuel
13	Nayara Filling Sta	279/1, Shradha Puri R	Along ro	Fuel
14	Balian spare patus	2MPG+54W, Service Lan	Along ro	Fuel
15	HP PETROL PUMP and	Near Kankarkhera Cros	Along ro	Fuel

EDUCATIONAL INSTITUTIONS - Speed Limit Zones (40 km/h) (75 found) - AWARENESS

#	Facility Name	Location/Address	Distance	Notes
1	Dewan Public Schoo	143, Delhi Road, Phas	Along ro	40 km/h
2	Bhai Joga Singh Pu	WMXM+H76, Surya Palac	Along ro	40 km/h
3	METRO PUBLIC SCHOO	Shatabdi Nagar, Ritha	Along ro	40 km/h
4	PRESIDENCY PUBLIC	WMPF+Q99, Delhi Road,	Along ro	40 km/h
5	SHEMROCK Smart Lea	Pocket B, NS-2, Shata	Along ro	40 km/h
6	Radha Govind Publi	WJJX+FH9, Kunda, Part	Along ro	40 km/h
7	PACE ELECTRICALTRA	near Millennium Publi	Along ro	40 km/h
8	Dewan VS Group of	Mussorie By Pass Road	Along ro	40 km/h
9	Dewan V.S Institut	WJJV+78V, Partapur, J	Along ro	40 km/h
10	Little Beats Play	Gupta Colony Road, Ra	Along ro	40 km/h
11	St. Patrick's Acad	WJMQ+G99, Delhi-Meeru	Along ro	40 km/h
12	JAYPEE Public Scho	XM5P+PGJ, Madhav Pura	Along ro	40 km/h
13	In Shape Gym - Bes	SHARDA PLAZA, New Pun	Along ro	40 km/h
14	amanpublishinghous	T-13, Agarwal Colony,	Along ro	40 km/h
15	Gandhi Internation	near Shopprix Mall, N	Along ro	40 km/h

FOOD & REST - Meal Stops & Driver Rest Areas (75 found) - CONVENIENCE

#	Facility Name	Location/Address	Distance	Notes
1	Hotel Bravura Gold	Delhi Roorkee, Bypass	Along ro	
2	CROWN Hotel & Rest	Ved Vyas Puri -Phase	Along ro	
3	Domino's Pizza   S	Shop No. 7A, Upper Gr	Along ro	
4	KFC	Sports Goods Complex,	Along ro	
5	SF Food Pure Veg P	3rd Floor, Food Court	Along ro	
6	THE COFFEE HEART (	The Coffee Heart 7 D.	Along ro	
7	Tandoori Club Rest	Avas Vikas A-112, Tra	Along ro	
8	Marwari Bhoj	1st Floor, Metro Plaz	Along ro	
9	Praveen's Restaura	Nh-58, Rohta Road, Cr	Along ro	
10	Cafe Coffee Day -	Institute Of Technolo	Along ro	
11	Karthik fast food	India	Along ro	
12	Deepchand advocate	India	Along ro	
13	New Sunny Sound an	India	Along ro	
14	Kesar Ganga Fast F	45 Mohkampur, Delhi R	Along ro	
15	AFC Chicken Point	00, Mohkampur Road, M	Along ro	

CRITICAL SERVICE GAPS IDENTIFIED

\* No critical service gaps identified - Good service coverage along route



COMPREHENSIVE NETWORK COVERAGE ANALYSIS

Analysis Points Tested	20
Overall Coverage Score	68.0/100
Coverage Status	MODERATE
Dead Zones Identified	2
Poor Coverage Areas	3
Good Coverage Areas	50.0%
Network Reliability Rating	MEDIUM

NETWORK RELIABILITY: MODERATE (68.0/100)

SIGNAL QUALITY DISTRIBUTION ANALYSIS

Signal Quality Level	Points Count	Route %	Status
Excellent Signal (4-	7	35.0%	Good
Good Signal (3-4 bar	3	15.0%	Good
Poor Signal (1-2 bar	3	15.0%	Attentio
Fair Signal (2-3 bar	5	25.0%	Good
No Signal (Dead Zone	2	10.0%	Critical

CRITICAL COMMUNICATION PROBLEMS (5 areas)

DEAD ZONES - NO CELLULAR SERVICE (2 locations):

Zone #	GPS Coordinates	Impact Level	Recommendation
1	29.5873, 77.4202	CRITICAL	Use satellite phone or emerg

2	29.6244, 77.4386	CRITICAL	Use satellite phone or emerg
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POOR COVERAGE AREAS (3 locations):

Area #	GPS Coordinates	Signal Level	Recommendation
1	29.0892, 77.6112	WEAK	Download offline maps, carry
2	29.1900, 77.4955	WEAK	Download offline maps, carry
3	29.4514, 77.3198	WEAK	Download offline maps, carry

NETWORK COVERAGE RECOMMENDATIONS

- 1. Route has 2 dead zones - consider satellite communication device
- 2. Inform someone of your route and expected arrival time

EMERGENCY COMMUNICATION PLAN

- \* Download offline maps before travel (Google Maps, Maps.me)
- \* Inform someone of your route and expected arrival time
- \* Carry a satellite communication device for dead zones
- \* Keep emergency numbers saved: 112 (Emergency), 100 (Police), 108 (Ambulance)
- \* Consider two-way radios for convoy travel
- \* Identify nearest towers and repeater locations along route

COMPREHENSIVE WEATHER CONDITIONS ANALYSIS

Weather Analysis Points	10
Average Temperature	41.1 deg C
Temperature Range	40.9 deg C to 41.2 deg C
Average Humidity	17.4%
Average Wind Speed	2.5 km/h
Weather Conditions Detected	1 different types
Weather Risk Assessment	HIGH

TEMPERATURE STATUS: EXTREME HEAT WARNING (41.1 deg C)

WEATHER CONDITIONS BREAKDOWN

Weather Condition	Frequency	Route %	Risk Level	Driver Impact
Clear	10	100.0%	LOW	Good driving conditions

IDENTIFIED WEATHER RISKS (1 risks)

- 1. Extreme heat - risk of vehicle overheating - Take appropriate precautions

WEATHER-BASED VEHICLE PREPARATION

- \* Check engine cooling system and radiator fluid levels
- \* Ensure air conditioning is functioning properly
- \* Carry extra water for radiator and personal hydration
- \* Check tire pressure (heat increases pressure)

WEATHER-BASED DRIVING RECOMMENDATIONS

- 1. High temperatures - check vehicle cooling system and carry extra water

COMPREHENSIVE REGULATORY COMPLIANCE ANALYSIS

[!] COMPLIANCE STATUS: NEEDS ATTENTION (Score: 70/100)

VEHICLE & ROUTE COMPLIANCE DETAILS

Vehicle Type	Heavy Goods Vehicle
Vehicle Category	Heavy Goods Vehicle
Vehicle Weight Classification	18,000 kg
AIS-140 GPS Tracking Required	YES (Mandatory)
Route Origin	Unnamed Road, Oil Industry Terminals, Partapur, Me
Route Destination	V85H+WR5, Saharanpur Rd, Ambehata Dehat, Ambheta,
Total Route Distance	131 km
Estimated Travel Duration	2 hours 27 mins
Interstate Travel	NO

MANDATORY COMPLIANCE REQUIREMENTS

Requirement Category	Compliance Status	Action Required
Valid Driving Licens	REQUIRED	Verify license category matc
Vehicle Registration	REQUIRED	Ensure current registration
Vehicle Insurance	REQUIRED	Valid comprehensive insuranc
Route Permits	CONDITIONAL	Required for interstate/heav
AIS-140 GPS Device	REQUIRED	Install certified GPS tracki
Driving Time Limits	REQUIRED	Maximum 10 hours continuous
Vehicle Fitness Cert	REQUIRED	Valid pollution and fitness
Driver Medical Certi	REQUIRED	Valid medical fitness certif

COMPLIANCE ISSUES REQUIRING IMMEDIATE ATTENTION (2)

- 1. AIS-140 GPS tracking device required - Address before travel
- 2. Heavy vehicle - weight restrictions may apply - Address before travel

APPLICABLE REGULATORY FRAMEWORK

- \* Motor Vehicles Act, 1988 - Vehicle registration and licensing requirements
- \* Central Motor Vehicles Rules, 1989 - Technical specifications and safety
- \* AIS-140 Standards - GPS tracking and panic button requirements
- \* Road Transport and Safety Policy (RTSP) - Driver working hours
- \* Interstate Transport Permits - Required for commercial interstate travel
- \* Pollution Control Board Norms - Emission standards compliance
- \* Goods and Services Tax (GST) - Tax compliance for commercial transport
- \* Road Safety and Transport Authority - State-specific requirements

COMPLIANCE RECOMMENDATIONS

- 1. Ensure all vehicle documents are current and accessible
- 2. Verify driver license category matches vehicle type
- 3. Check route-specific permits and restrictions
- 4. Install AIS-140 compliant GPS tracking device

NON-COMPLIANCE PENALTIES & CONSEQUENCES

- \* Driving without valid license: Fine up to Rs 5,000 + imprisonment
- \* Vehicle without registration: Fine up to Rs 10,000 + vehicle seizure
- \* No insurance: Fine up to Rs 2,000 + vehicle seizure
- \* AIS-140 non-compliance: Permit cancellation + heavy fines
- \* Overloading violations: Fine Rs 20,000 + per excess ton
- \* Driving time violations: License suspension + fines
- \* Interstate without permits: Vehicle seizure + penalty
- \* Environmental violations: Fine up to Rs 10,000 + registration cancellation



## COMPREHENSIVE ELEVATION & TERRAIN ANALYSIS

Data Source	Google Elevation API (Live Data)
Total Analysis Points	20 coordinates
Minimum Elevation	244.9 meters above sea level
Maximum Elevation	284.0 meters above sea level
Average Elevation	264.0 meters above sea level
Total Elevation Range	39.1 meters
Terrain Classification	PLAINS
Driving Difficulty Level	LOW
Fuel Consumption Impact	LOW - Minimal impact on fuel consumption
Significant Changes Detected	0 elevation changes > 50m

### TERRAIN ASSESSMENT: PLAINS TERRAIN - EASY CONDITIONS

#### ELEVATION-BASED DRIVING CHALLENGES

- \* Minimal elevation changes with flat terrain
- \* Normal fuel consumption expected
- \* Standard vehicle performance throughout
- \* No significant gradient-related challenges

#### ELEVATION-SPECIFIC VEHICLE PREPARATION

- \* Standard vehicle maintenance check sufficient
- \* Normal fuel planning adequate
- \* Standard tire and brake inspection

#### FUEL CONSUMPTION IMPACT ANALYSIS

- \* Normal fuel consumption expected

- \* Standard fuel planning adequate
- \* Total ascent sections identified: 0
- \* Total descent sections identified: 0

COMPREHENSIVE TRAFFIC ANALYSIS

Route Segments Analyzed	10
Overall Traffic Score	100.0/100
Traffic Condition	EXCELLENT
Average Travel Time Index	0.96
Average Current Speed	54.0 km/h
Average Free Flow Speed	51.5 km/h
Heavy Traffic Segments	0
Moderate Traffic Segments	0
Free Flow Segments	10
Worst Congestion Areas	0.0% of route

TRAFFIC STATUS: EXCELLENT TRAFFIC CONDITIONS (100.0/100)

TRAFFIC-BASED RECOMMENDATIONS

- 1. Check current traffic conditions before departure
- 2. Consider public transportation alternatives for heavily congested routes
- 3. Plan rest stops during low-traffic segments

COMPREHENSIVE EMERGENCY PREPAREDNESS ANALYSIS

[OK] EMERGENCY PREPAREDNESS: EXCELLENT PREPAREDNESS (Score: 90/100)

EMERGENCY SERVICES AVAILABILITY ASSESSMENT

Medical Facilities (Hospitals)	69 facilities identified
Law Enforcement (Police)	29 stations identified
Fire & Rescue Services	1 stations identified
Communication Reliability	HIGH
Network Dead Zones	2 critical areas
Emergency Response Time	Variable - depends on location and traffic
Overall Service Coverage	GOOD

CRITICAL EMERGENCY CONTACT NUMBERS - MEMORIZE OR SAVE

Emergency Service	Contact Number	When to Call	Response Type
National Emerge	112	Any life-threateni	Police/Fire/Medica
Police Emergenc	100	Crime, accidents,	Law enforcement
Fire Services	101	Fire, rescue, hazm	Fire & rescue team
Medical Emergen	108	Medical emergency	Ambulance service
Highway Patrol	1033	Highway accidents,	Traffic police

EMERGENCY FACILITIES ALONG ROUTE

MEDICAL FACILITIES (69 identified):

#	Hospital Name	Location	Services	Distance

1	Sanjeevani Yoga	Unnamed Road, Su	Emergency car	Along rout
2	Chhatrapati Shiv	Swami Vivekanand	Emergency car	Along rout
3	Dr Lal PathLabs	Shop No 17, Khan	Emergency car	Along rout
4	Kalka Dental Col	near Partapur FI	Emergency car	Along rout
5	Davki Nandan Hos	Devkinandan hosp	Emergency car	Along rout
6	Pathkind Labs	Shop 8, Mall, Me	Emergency car	Along rout
7	Thumbay dental c	WMX9+7Q7, Phase-	Emergency car	Along rout
8	Urmila	152/1, Partapur,	Emergency car	Along rout
9	KAYA KALP HOSPIT	SOPREX MALL, nea	Emergency car	Along rout
10	Divynshi Medicos	XM59+FGG, Shivpu	Emergency car	Along rout

POLICE STATIONS (29 identified):

#	Police Station	Location	Services	Distance
1	Nauchandi Police	Mohsin Bagh, Man	Law enforceme	Along rout
2	Shatabdi Nagar P	WMPG+W37, Shatab	Law enforceme	Along rout
3	Police Choki Shu	XJ5Q+9R6, NH58,	Law enforceme	Along rout
4	Pari Chowk	WJPR+VG3, Pari C	Law enforceme	Along rout
5	Police Choki Ved	XJ7R+37V, NH58,	Law enforceme	Along rout
6	Police Checkpost	XMHM+FWW, Meerut	Law enforceme	Along rout
7	T P Nagar Police	XMCJ+JX7, Sabun	Law enforceme	Along rout
8	Partapur Police	WJCX+8F3, Delhi	Law enforceme	Along rout

EMERGENCY PREPAREDNESS CHECKLIST

- ☐ First aid kit with bandages, antiseptic, pain relievers
- ☐ Emergency contact numbers saved in phone and written backup
- ☐ Vehicle emergency kit - tools, spare tire, jumper cables
- ☐ Emergency water supply (minimum 2 liters per person)
- ☐ Non-perishable emergency food (energy bars, nuts)
- ☐ Flashlight with extra batteries or hand-crank model
- ☐ Emergency blanket or warm clothing

- ☐ Portable phone charger or power bank
- ☐ Emergency cash in small denominations
- ☐ Vehicle documents in waterproof container
- ☐ Road atlas or offline maps as backup
- ☐ Emergency whistle for signaling help

## EMERGENCY PREPAREDNESS RECOMMENDATIONS

1. Carry first aid kit and emergency supplies
2. Keep emergency contact numbers readily available
3. Inform someone of your travel plans and timeline