



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: 91945c9f-c91...

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: 09:33 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 02:36:48                                     |
| 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                | 6  |
| Poor Coverage Areas               | 3  |

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

IDENTIFIED RISK FACTORS

\* 6 extreme turns requiring extreme caution

- \* 6 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 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         |

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 REQUIRING IMMEDIATE ATTENTION

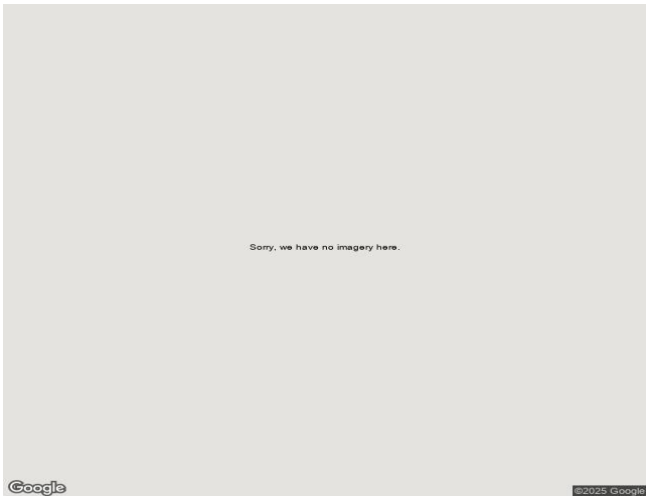
CRITICAL TURN #1: 180.0 deg - EXTREME BLIND SPOT - CRITICAL RISK

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

VISUAL EVIDENCE FOR TURN #1:

STREET VIEW ANALYSIS:



File: streetview\_91945c9f-c917-4ffd-999e-21ddc23cc92b\_turn\_1\_h0.jpg  
Size: 8.6 KB  
Location: 29.7997, 77.4621  
Captured: 2025-06-09 02:36

ANALYSIS:

- \* Turn angle: 180.0 deg
- \* Visibility: Limited due to sharp curve
- \* Road condition: Visual inspection required
- \* Hazard level: CRITICAL
- \* Recommended action: Reduce speed to 15 km/h

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 |

VISUAL EVIDENCE FOR TURN #2:  
STREET VIEW ANALYSIS:



File: streetview\_91945c9f-c917-4ffd-999e-21ddc23cc92b\_turn\_2\_h0.jpg  
Size: 59.0 KB  
Location: 29.8000, 77.4586  
Captured: 2025-06-09 02:36

- ANALYSIS:
- \* Turn angle: 159.6 deg
  - \* Visibility: Limited due to sharp curve
  - \* Road condition: Visual inspection required
  - \* Hazard level: CRITICAL
  - \* Recommended action: Reduce speed to 15 km/h

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 |

VISUAL EVIDENCE FOR TURN #3:  
STREET VIEW ANALYSIS:



File: streetview\_91945c9f-c917-4ffd-999e-21ddc23cc92b\_turn\_2\_h0.jpg  
Size: 59.0 KB  
Location: 29.8000, 77.4586  
Captured: 2025-06-09 02:36

- ANALYSIS:
- \* Turn angle: 159.6 deg
  - \* Visibility: Limited due to sharp curve
  - \* Road condition: Visual inspection required
  - \* Hazard level: CRITICAL
  - \* Recommended action: Reduce speed to 15 km/h



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 |

VISUAL EVIDENCE FOR TURN #4:  
STREET VIEW ANALYSIS:



File: streetview\_91945c9f-c917-4ffd-999e-21ddc23cc92b\_turn\_4\_h0.jpg  
Size: 59.5 KB  
Location: 29.8018, 77.4592  
Captured: 2025-06-09 02:37

- ANALYSIS:
- \* Turn angle: 113.0 deg
  - \* Visibility: Limited due to sharp curve
  - \* Road condition: Visual inspection required
  - \* Hazard level: CRITICAL
  - \* Recommended action: Reduce speed to 15 km/h

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 |

VISUAL EVIDENCE FOR TURN #5:  
STREET VIEW ANALYSIS:



File: streetview\_91945c9f-c917-4ffd-999e-21ddc23cc92b\_turn\_4\_h0.jpg  
Size: 59.5 KB  
Location: 29.8018, 77.4592  
Captured: 2025-06-09 02:37

- ANALYSIS:
- \* Turn angle: 113.0 deg
  - \* Visibility: Limited due to sharp curve
  - \* Road condition: Visual inspection required
  - \* Hazard level: CRITICAL
  - \* Recommended action: Reduce speed to 15 km/h

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 |

VISUAL EVIDENCE FOR TURN #6:  
STREET VIEW ANALYSIS:



File: streetview\_91945c9f-c917-4ffd-999e-21ddc23cc92b\_turn\_6\_h0.jpg  
Size: 48.4 KB  
Location: 29.8046, 77.4547  
Captured: 2025-06-09 02:37

- ANALYSIS:
- \* Turn angle: 97.4 deg
  - \* Visibility: Limited due to sharp curve
  - \* Road condition: Visual inspection required
  - \* Hazard level: CRITICAL
  - \* Recommended action: Reduce speed to 15 km/h

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 |

VISUAL EVIDENCE FOR TURN #7:  
STREET VIEW ANALYSIS:



File: streetview\_91945c9f-c917-4ffd-999e-21ddc23cc92b\_turn\_7\_h0.jpg  
Size: 50.9 KB  
Location: 29.6253, 77.4392  
Captured: 2025-06-09 02:37

- ANALYSIS:
- \* Turn angle: 75.7 deg
  - \* Visibility: Limited due to sharp curve
  - \* Road condition: Visual inspection required
  - \* Hazard level: HIGH
  - \* Recommended action: Reduce speed to 25 km/h

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 |

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     | 44.0/100 |
| Coverage Status            | POOR     |
| Dead Zones Identified      | 6        |
| Poor Coverage Areas        | 3        |
| Good Coverage Areas        | 25.0%    |
| Network Reliability Rating | LOW      |

NETWORK RELIABILITY: POOR (44.0/100)

SIGNAL QUALITY DISTRIBUTION ANALYSIS

| Signal Quality Level  | Points Count | Route % | Status   |
|-----------------------|--------------|---------|----------|
| Fair Signal (2-3 bar) | 6            | 30.0%   | Good     |
| Poor Signal (1-2 bar) | 3            | 15.0%   | Attentio |
| Good Signal (3-4 bar) | 5            | 25.0%   | Good     |
| No Signal (Dead Zone) | 6            | 30.0%   | Critical |

CRITICAL COMMUNICATION PROBLEMS (9 areas)

DEAD ZONES - NO CELLULAR SERVICE (6 locations):

| Zone # | GPS Coordinates  | Impact Level | Recommendation               |
|--------|------------------|--------------|------------------------------|
| 1      | 29.1456, 77.5534 | CRITICAL     | Use satellite phone or emerg |
| 2      | 29.1900, 77.4955 | CRITICAL     | Use satellite phone or emerg |

|   |                  |          |                              |
|---|------------------|----------|------------------------------|
| 3 | 29.2587, 77.4570 | CRITICAL | Use satellite phone or emerg |
| 4 | 29.3313, 77.4012 | CRITICAL | Use satellite phone or emerg |
| 5 | 29.6961, 77.4224 | CRITICAL | Use satellite phone or emerg |
| 6 | 29.8073, 77.4475 | CRITICAL | Use satellite phone or emerg |

POOR COVERAGE AREAS (3 locations):

| Area # | GPS Coordinates  | Signal Level | Recommendation               |
|--------|------------------|--------------|------------------------------|
| 1      | 29.0382, 77.6669 | WEAK         | Download offline maps, carry |
| 2      | 29.5873, 77.4202 | WEAK         | Download offline maps, carry |
| 3      | 29.8003, 77.4592 | WEAK         | Download offline maps, carry |

NETWORK COVERAGE RECOMMENDATIONS

- 1. Route has 6 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         | 37.0 deg C               |
| Temperature Range           | 36.8 deg C to 37.1 deg C |
| Average Humidity            | 24.4%                    |
| Average Wind Speed          | 4.7 km/h                 |
| Weather Conditions Detected | 1 different types        |
| Weather Risk Assessment     | MODERATE                 |

TEMPERATURE STATUS: HIGH TEMPERATURE CAUTION (37.0 deg C)

WEATHER CONDITIONS BREAKDOWN

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

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

- 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

# ELEVATION ANALYSIS

COMPREHENSIVE EMERGENCY PREPAREDNESS ANALYSIS

[!] EMERGENCY PREPAREDNESS: GOOD PREPAREDNESS (Score: 70/100)

EMERGENCY SERVICES AVAILABILITY ASSESSMENT

|                                |  |
|--------------------------------|--|
| Medical Facilities (Hospitals) | 69 facilities identified                   |
| Law Enforcement (Police)       | 29 stations identified                     |
| Fire & Rescue Services         | 1 stations identified                      |
| Communication Reliability      | LOW  |
| Network Dead Zones             | 6 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 |

CRITICAL PREPAREDNESS GAPS (1 identified)

1. Multiple communication dead zones - Address before travel

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
4. Consider satellite communication device for dead zones