

# HINDUSTAN PETROLEUM CORPORATION

Journey Risk Management Division

## JOURNEY RISK MANAGEMENT (JRM) STUDY USING ARTIFICIAL INTELLIGENCE (AI)

### ROUTE ANALYSIS REPORT

Route ID: 91945c9f...

From: Unnamed Road, Oil Industry Terminals, Partapur, Me...

To: V85H+WR5, Saharanpur Rd, Ambehata Dehat, Ambheta, ...

Distance: 131 km

Duration: 2 hours 27 mins

Generated: June 09, 2025 at 08:08 AM

ROUTE OVERVIEW & STATISTICS

From Address	Unnamed Road, Oil Industry Terminals, Partapur, Me
To Address	V85H+WR5, Saharanpur Rd, Ambehata Dehat, Ambheta,
Total Distance	131 km
Estimated Duration	2 hours 27 mins
Route Points Analyzed	2684
Analysis Date	2025-06-09 02:36:48
Overall Safety Score	0/100 - DANGEROUS

HAZARD ANALYSIS SUMMARY

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

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

SHARP TURNS ANALYSIS

Total Sharp Turns	15
Most Dangerous Angle	180.0°
Average Turn Angle	88.4°
Critical Turns	6
Street View Images	7
Satellite Images	7

DANGEROUS TURNS BY CATEGORY

Turn #	Angle	Classification	Danger Level	Speed Limit	GPS Coordinates
1	180.0	EXTREME BL	CRITIC	15 km/	29.7997, 77.462
2	159.6	EXTREME BL	CRITIC	15 km/	29.8000, 77.458
3	159.6	EXTREME BL	CRITIC	15 km/	29.8000, 77.458
4	113.0	EXTREME BL	CRITIC	15 km/	29.8018, 77.459
5	113.0	EXTREME BL	CRITIC	15 km/	29.8018, 77.459
6	75.7°	BLIND SPOT	HIGH	25 km/	29.6253, 77.439
7	68.3°	HIGH-ANGLE	MEDIUM	30 km/	28.9602, 77.639
8	63.0°	HIGH-ANGLE	MEDIUM	30 km/	29.8610, 77.333
9	51.4°	SHARP TURN	LOW	40 km/	29.8023, 77.458
10	51.4°	SHARP TURN	LOW	40 km/	29.8023, 77.458
11	50.2°	SHARP TURN	LOW	40 km/	29.6225, 77.433

STORED TURN IMAGES

Image File	Type	Location	Size	Date Created
streetview	Street	29.7997, 77.	9 KB	2025-06-09
streetview	Street	29.8000, 77.	59 KB	2025-06-09
streetview	Street	29.8000, 77.	59 KB	2025-06-09
streetview	Street	29.8018, 77.	60 KB	2025-06-09

streetview	Street	29.8018, 77.	60 KB	2025-06-09
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## POINTS OF INTEREST ALONG ROUTE

<b>Total POIs Found</b>	287
<b>Emergency Services</b>	99
<b>Essential Services</b>	38
<b>Other Services</b>	150
<b>Coverage Score</b>	100/100
<b>Service Availability</b>	GOOD

### HOSPITALS - Emergency Medical Services (69 found)

S.No	Name	Address	Distance Info
1	Sanjeevani Yoga	Unnamed Road, Sur	Along rout
2	Chhatrapati Shi	Swami Vivekanand	Along rout
3	Dr Lal PathLabs	Shop No 17, Khana	Along rout
4	Kalka Dental Co	near Partapur Fly	Along rout
5	Davki Nandan Ho	Devkinandan hospi	Along rout
6	Pathkind Labs	Shop 8, Mall, Mee	Along rout
7	Thumbay dental	WMX9+7Q7, Phase-I	Along rout
8	Urmila	152/1, Partapur,	Along rout
9	KAYA KALP HOSPI	SOPREX MALL, near	Along rout
10	Divynshi Medico	XM59+FGG, Shivpur	Along rout

### FUEL STATIONS - Refueling Points (38 found)

S.No	Name	Address	Distance Info
1	IndianOil	Ground Floor, Sha	Along rout
2	cng pump meerut	WMJ5+6X6, Block 4	Along rout
3	Hindustan Petro	Ground Floor, Bar	Along rout
4	Allen Oil	WMG5+4FP, Sector	Along rout
5	Raj Service Sta	Bhoor Baral, NH 5	Along rout

6	Madhu Transport	Delhi Road, Parta	Along route
7	Nayara Petrol P	Plot No. 2CP, 101	Along route
8	Petrol Pump,Bha	Jain Nagar, Devpu	Along route
9	Nayara Petrol P	Khasra No. 700/1	Along route
10	HP Petrol Pump	near Metro Plaza,	Along route

### POLICE STATIONS - Security Services (29 found)

S.No	Name	Address	Distance Info
1	Nauchandi Polic	Mohsin Bagh, Manz	Along route
2	Shatabdi Nagar	WMPG+W37, Shatabd	Along route
3	Police Choki Sh	XJ5Q+9R6, NH58, M	Along route
4	Pari Chowk	WJPR+VG3, Pari Ch	Along route
5	Police Choki Ve	XJ7R+37V, NH58, V	Along route
6	Police Checkpos	XMHM+FWW, Meerut	Along route
7	T P Nagar Polic	XMCJ+JX7, Sabun G	Along route
8	Partapur Police	WJCX+8F3, Delhi R	Along route
9	Madhav Puram Po	XM6V+5P5, Madhavp	Along route
10	Jamuniya baag t	XMHJ+8GG, Meerut	Along route

### FIRE STATIONS - Emergency Response (1 found)

S.No	Name	Address	Distance Info
1	Fire Station Pa	WMC5+X9P, Sector	Along route

### SCHOOLS - Speed Limit Zones (40 km/h) (75 found)

S.No	Name	Address	Distance Info
1	Dewan Public Sc	143, Delhi Road,	Along route
2	Bhai Joga Singh	WMXM+H76, Surya P	Along route
3	METRO PUBLIC SC	Shatabdi Nagar, R	Along route
4	PRESIDENCY PUBL	WMPF+Q99, Delhi R	Along route

5	SHEMROCK Smart	Pocket B, NS-2, S	Along rout
6	Radha Govind Pu	WJJX+FH9, Kunda,	Along rout
7	PACE ELECTRICAL	near Millennium P	Along rout
8	Dewan VS Group	Mussorie By Pass	Along rout
9	Dewan V.S Insti	WJJV+78V, Partapu	Along rout
10	Little Beats PI	Gupta Colony Road	Along rout

### RESTAURANTS - Rest & Food Stops (75 found)

S.No	Name	Address	Distance Info
1	Hotel Bravura G	Delhi Roorkee, By	Along rout
2	CROWN Hotel & R	Ved Vyas Puri -Ph	Along rout
3	Domino's Pizza	Shop No. 7A, Uppe	Along rout
4	KFC	Sports Goods Comp	Along rout
5	SF Food Pure Ve	3rd Floor, Food C	Along rout
6	THE COFFEE HEAR	The Coffee Heart	Along rout
7	Tandoori Club R	Avas Vikas A-112,	Along rout
8	Marwari Bhoj	1st Floor, Metro	Along rout
9	Praveen's Resta	Nh-58, Rohta Road	Along rout
10	Cafe Coffee Day	Institute Of Tech	Along rout

## NETWORK COVERAGE ANALYSIS

Points Analyzed	20
Overall Coverage Score	44.0/100
Dead Zones	6
Poor Coverage Areas	3
Good Coverage	25.0%
Network Reliability	LOW

### COVERAGE QUALITY DISTRIBUTION

Coverage Quality	Points	Percentage
Fair (Adequate	6	30.0%
Poor (Weak Sign	3	15.0%
Good (Reliable	5	25.0%
Dead Zone (No S	6	30.0%

### NETWORK DEAD ZONES (6 identified)

Zone #	GPS Coordinates	Coverage Quality	Impact
1	29.1456, 77.	Dead	No cellular servic
2	29.1900, 77.	Dead	No cellular servic
3	29.2587, 77.	Dead	No cellular servic
4	29.3313, 77.	Dead	No cellular servic
5	29.6961, 77.	Dead	No cellular servic
6	29.8073, 77.	Dead	No cellular servic

### NETWORK COVERAGE RECOMMENDATIONS

- Route has 6 dead zones - consider satellite communication device
- Inform someone of your route and expected arrival time



## WEATHER CONDITIONS ANALYSIS

Weather Points Analyzed	10
Average Temperature	37.0°C
Average Humidity	24.4%
Average Wind Speed	4.7 km/h
Temperature Range	36.84°C to 37.1°C
Weather Conditions	1 different conditions

### WEATHER CONDITIONS SUMMARY

Weather Condition	Occurrences	Impact Assessment
Clear	10	LOW RISK

### WEATHER-BASED RECOMMENDATIONS

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

## REGULATORY COMPLIANCE ANALYSIS

COMPLIANCE STATUS: NEEDS ATTENTION (Score: 70/100)

### VEHICLE & ROUTE INFORMATION

Vehicle Type	Heavy Goods Vehicle
Vehicle Category	Heavy Goods Vehicle
Vehicle Weight	18,000 kg
AIS-140 Required	YES
Route Distance	131 km
Estimated Duration	2 hours 27 mins

### COMPLIANCE ISSUES IDENTIFIED (2)

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

### CRITICAL COMPLIANCE REQUIREMENTS

- 1. Valid driving license for vehicle category
- 2. Vehicle registration and insurance
- 3. Route permits for interstate travel
- 4. AIS-140 GPS device (if required)
- 5. Compliance with driving time limits

### 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

# EMERGENCY PREPAREDNESS ANALYSIS

EMERGENCY PREPAREDNESS: GOOD (Score: 70/100)

## EMERGENCY SERVICES AVAILABILITY

Hospitals	69
Police Stations	29
Fire Stations	1
Communication Reliability	LOW
Network Dead Zones	6

## EMERGENCY CONTACT NUMBERS

Service	Contact Number	Purpose
National E	112	All emergency services
Police	100	Police assistance
Fire Servi	101	Fire and rescue
Ambulance	108	Medical emergency
Highway Pa	1033	Highway assistance

## CRITICAL PREPAREDNESS GAPS

- 1. Multiple communication dead zones

## 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