JOURNEY RISK MANAGEMENT (JRM) STUDY

Gorakhpur LPG BP TO CHANAKYA INDANE SERV

Objective of the JRM Report

This JRM report is designed to ensure compliance with the Central Motor Vehicle Rules, 1989 (CMVR), AIS 140 standards, and the Road Transport Safety Policy (RTSP). It provides a comprehensive risk assessment for the transportation of hazardous materials along specified routes. By integrating these legal frameworks, the report offers a broad strategy for identifying and mitigating route-specific risks.

Regulatory Compliance

The report complies with the Central Motor Vehicles (Eleventh Amendment) Rules, 2022, mandating safe transportation practices for N2 and N3 category vehicles carrying hazardous materials. These rules require detailed route assessments, especially regarding road conditions, speed limits, and risk areas, to ensure safety compliance.

Risk Management Strategy

This report categorizes transportation routes into high-risk and medium-risk areas, with a focus on factors such as sharp turns, accident-prone regions, and elevation changes. The goal is to provide actionable

recommendations to minimize these risks, including speed regulations, driver warnings for hazardous zones, and the option of alternate routes.

Compliance with the Road Transport Safety Policy (RTSP)

The report integrates RTSP provisions, including mandatory driving hours, rest periods, and nighttime driving restrictions. It ensures that drivers follow official guidelines, such as taking prescribed rest breaks and avoiding dangerous road conditions like poor visibility, heavy crowds, or high-traffic areas during peak hours.

Emergency Preparedness and Response

The report highlights the significance of predetermined emergency stops for refueling, rest, and overnight stays. It includes protocols for safe responses to road hazards, alternative routes, and rerouting processes if roads are closed or severe weather arises. This aligns with the RTSP emphasis on driver safety and rapid emergency response.

Environmental Considerations

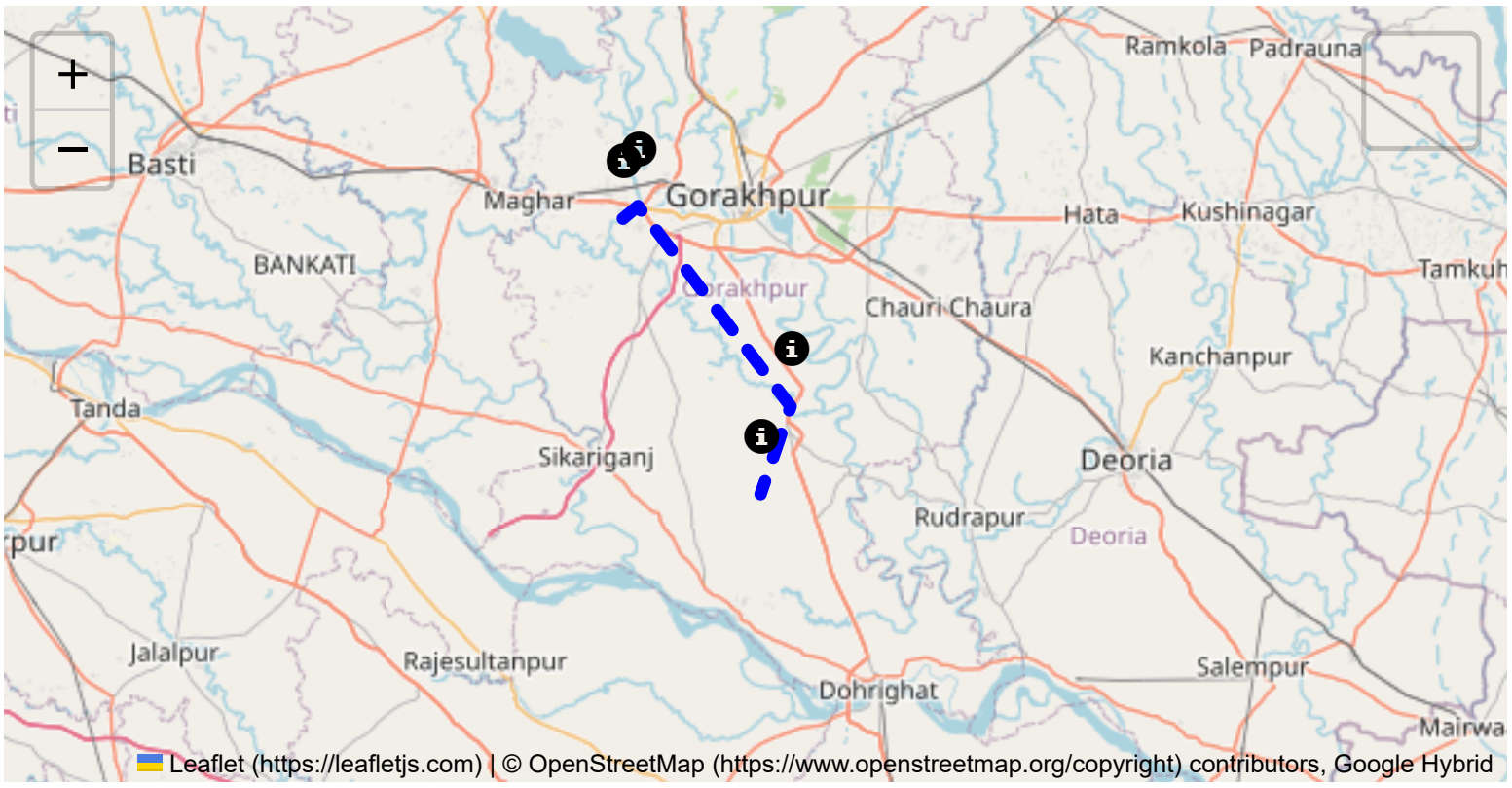
The JRM report addresses environmental risks along the route, ensuring compliance with environmental protection laws in ecologically sensitive zones. It suggests strategies such as identifying areas near water bodies, forests, or populated regions and implementing safety measures to minimize environmental impacts during transport.

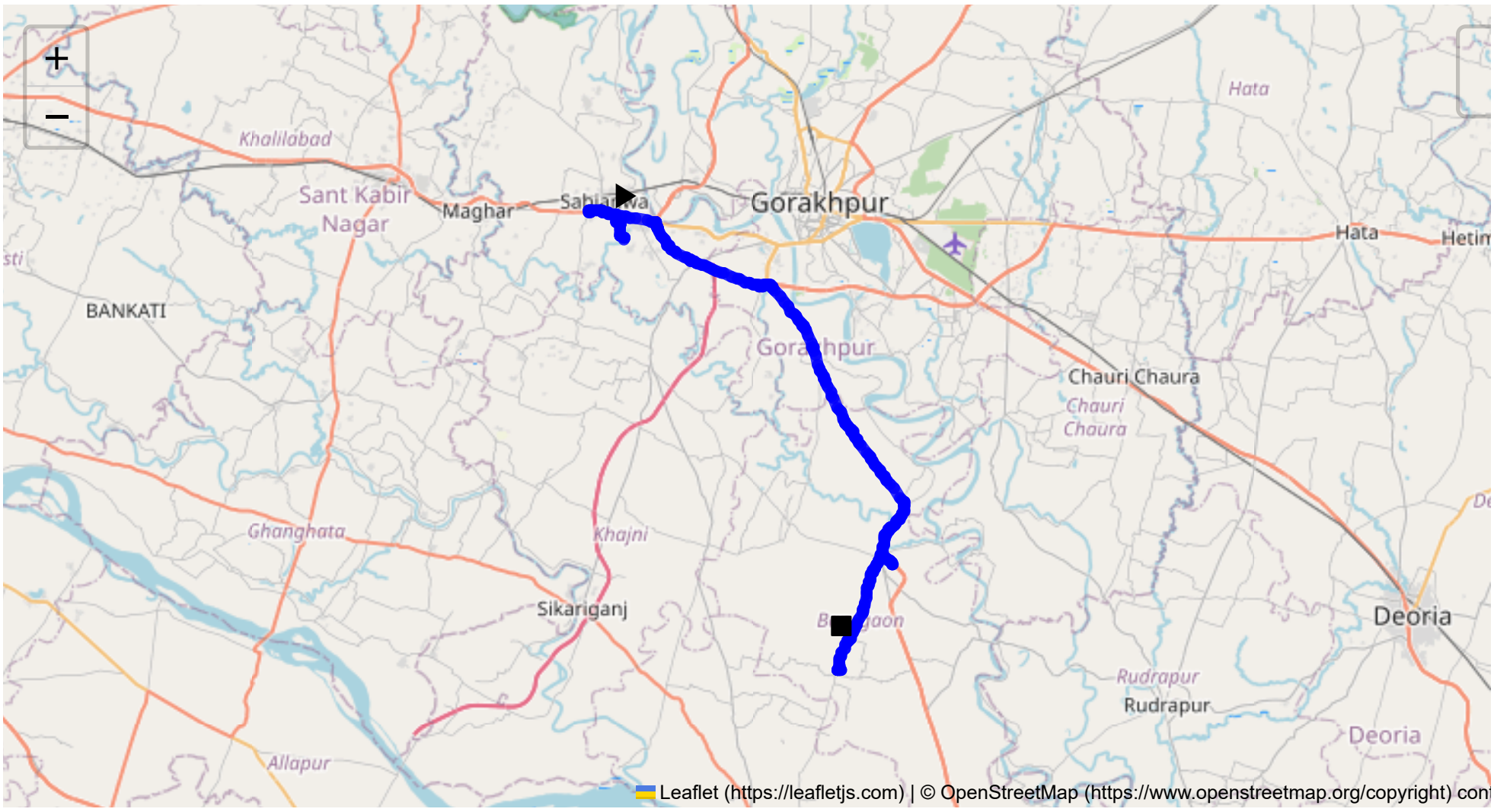
Journey Risk Mitigation

The report includes route-specific risk assessments, detailed journey charts, and defensive driving guidelines for each transport route. Integration with vehicle tracking systems guarantees real-time warnings on hazardous areas, speed limits, and mandatory stops, consistent with RTSP and CMVR safety norms.

Compliance with Government Directives

This report fully adheres to governmental directives regarding hazardous material transportation, implementing mandatory speed limits, nighttime driving restrictions, and comprehensive driver briefings and real-time alerts about route-related risks.





Route Summary:

Total Distance: 51.95 km

Estimated Duration: 1.2 hours

Adjusted Duration (Heavy Vehicle): 1.5 hours

Start: (26.735959, 83.229398)

End: (26.465171, 83.381387)

Welcome to the Journey Risk Management Study

Here's a detailed analysis of the route from P6PH+9Q GIDA Industrial Area Phase 1, Sahjanwa, Uttar Pradesh, India to 02, Ramnagar, Uttar Pradesh 273413, India via 01 Zero Point, Kaalesar, Uttar Pradesh 273209, India, NH 24, Gorsari, Uttar Pradesh 273413, India:

1. **Overview of the Route Map:**

- The route travels primarily on NH 24, a major national highway connecting various regions. It covers approximately 51.95 kilometers, typically taking around 1.21 hours for trucks.

2. **Typical Weather Conditions and Hazards:**
    - *Weather:* The region generally has a humid subtropical climate with hot summers and mild winters. The monsoon season (June to September) can cause heavy rainfall, leading to waterlogging and low visibility.
    - *Hazards: * During monsoons, roads can become slippery, and visibility may be reduced, increasing the risk of accidents.
3. **Traffic Patterns:**
    - *Peak Hours:* Major traffic congestion can occur during morning (8:00-10:00 AM) and evening (5:00-7:00 PM) rush hours.
    - *Congestion-Prone Areas:* Areas near Sahjanwa and NH 24 intersections are typically congested, particularly around markets and city entry points.
4. **Road Quality and Infrastructure:**
    - Roads along NH 24 are generally well-maintained, though some stretches, especially rural sections, may have potholes and uneven surfaces.
    - Road signage may be lacking in remote areas, so caution is advised.
5. **Alternative Routes for Emergencies:**
    - In case of major congestion or roadblocks on NH 24, consider using SH 1 or rural roads, though these may be narrower and less well-maintained.
6. **Local Regulations on Hazardous Material Transport:**
    - Movement of hazardous materials is regulated, requiring adherence to specific timings and routes. Checkpoints and toll booths along NH 24 might require permits and documentation.
7. **Historical Incidents:**
    - There have been few recorded incidents involving heavy vehicles on this route, though monsoon conditions have previously led to skidding and minor accidents involving trucks.
8. **Environmental Considerations:**
    - The route passes near agricultural lands, which may be sensitive to spills and contamination. It is crucial to secure all hazardous materials properly.
9. **Communication Coverage:**
    - Communication is generally reliable along NH 24; however, some remote stretches near Kaalesar and Gorsari may experience signal drop-offs.
10. **Emergency Response Times:**
    - Emergency services are more accessible near urban centers like Sahjanwa. In remote areas, response times can vary between 30 to 60 minutes based on proximity to local emergency stations.
11. **Overall Summary of Risk Assessment:**

- The route is generally safe if navigated with caution, particularly during adverse weather conditions. Peak traffic and remote areas should be approached with heightened alertness. Proper permits and adherence to local regulations will ensure smooth passage. Regular communication checks and adherence to safety protocols for hazardous materials are crucial to minimize risks.

This analysis aims to equip truck drivers with the necessary information to ensure a safe and efficient journey along this route.

Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
2	Turn	High	26.73690, 83.22947	15 KM/Hr	0.05 km
3	Turn	High	26.73697, 83.22939	15 KM/Hr	0.11 km
4	Turn	High	26.73746, 83.22938	15 KM/Hr	0.15 km
5	Blind Spot	Blind Spot	26.73791, 83.22625	10 KM/Hr	0.48 km
6	Turn	Medium	26.74524, 83.22746	30 KM/Hr	1.30 km
7	Turn	Medium	26.74532, 83.22740	30 KM/Hr	1.32 km
8	Turn	High	26.74654, 83.22390	15 KM/Hr	1.65 km
9	Blind Spot	Blind Spot	26.75126, 83.22476	10 KM/Hr	2.17 km
10	Blind Spot	Blind Spot	26.75353, 83.20457	10 KM/Hr	4.23 km
11	Turn	High	26.75381, 83.20466	15 KM/Hr	4.30 km
0	Roundabout	High	26.74681, 83.25111	15 KM/Hr	8.97 km
12	Turn	Medium	26.74658, 83.25155	30 KM/Hr	9.05 km
13	Turn	Medium	26.74646, 83.25151	30 KM/Hr	9.07 km
14	Turn	Medium	26.74310, 83.25343	30 KM/Hr	9.49 km
15	Turn	Medium	26.74298, 83.25343	30 KM/Hr	9.50 km
16	Turn	High	26.70798, 83.33175	15 KM/Hr	18.63 km
17	Blind Spot	Blind Spot	26.53246, 83.41838	10 KM/Hr	41.81 km
1	U-Turn	High	26.5324639, 83.4183761	10 KM/Hr	41.81 km
18	Turn	High	26.53237, 83.41832	15 KM/Hr	41.82 km
19	Blind Spot	Blind Spot	26.53850, 83.41062	10 KM/Hr	42.86 km
20	Blind Spot	Blind Spot	26.53519, 83.40966	10 KM/Hr	43.23 km
21	Turn	High	26.53543, 83.40913	15 KM/Hr	43.29 km
22	Blind Spot	Blind Spot	26.46574, 83.37951	10 KM/Hr	51.70 km

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
23	Blind Spot	Blind Spot	26.46525, 83.38145	10 KM/Hr	51.89 km

Route Photos of Risky Spots

Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 2.17 km

Coordinates: 26.75126, 83.22476

Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 4.23 km

Coordinates: 26.75353, 83.20457

Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 4.30 km

Coordinates: 26.75381, 83.20466

Risk Type: Roundabout

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 8.97 km

Coordinates: 26.74681, 83.25111

Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 9.05 km

Coordinates: 26.74658, 83.25155

Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 9.07 km

Coordinates: 26.74646, 83.25151

Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 9.49 km

Coordinates: 26.74310, 83.25343

Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 9.50 km

Coordinates: 26.74298, 83.25343

Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 18.63 km

Coordinates: 26.70798, 83.33175

Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 41.81 km

Coordinates: 26.53246, 83.41838

Risk Type: U-Turn

Risk Level: High

Speed Limit: 10 KM/Hr

Distance from Start: 41.81 km

Coordinates: 26.5324639, 83.4183761

Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 41.82 km

Coordinates: 26.53237, 83.41832

Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 42.86 km

Coordinates: 26.53850, 83.41062

Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 43.23 km

Coordinates: 26.53519, 83.40966

Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 43.29 km

Coordinates: 26.53543, 83.40913

Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 51.70 km

Coordinates: 26.46574, 83.37951

Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 51.89 km

Coordinates: 26.46525, 83.38145

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