



JOURNEY RISK MANAGEMENT (JRM) STUDY

Gorakhpur LPG BP TO SUMITRA INDANE GAS S

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

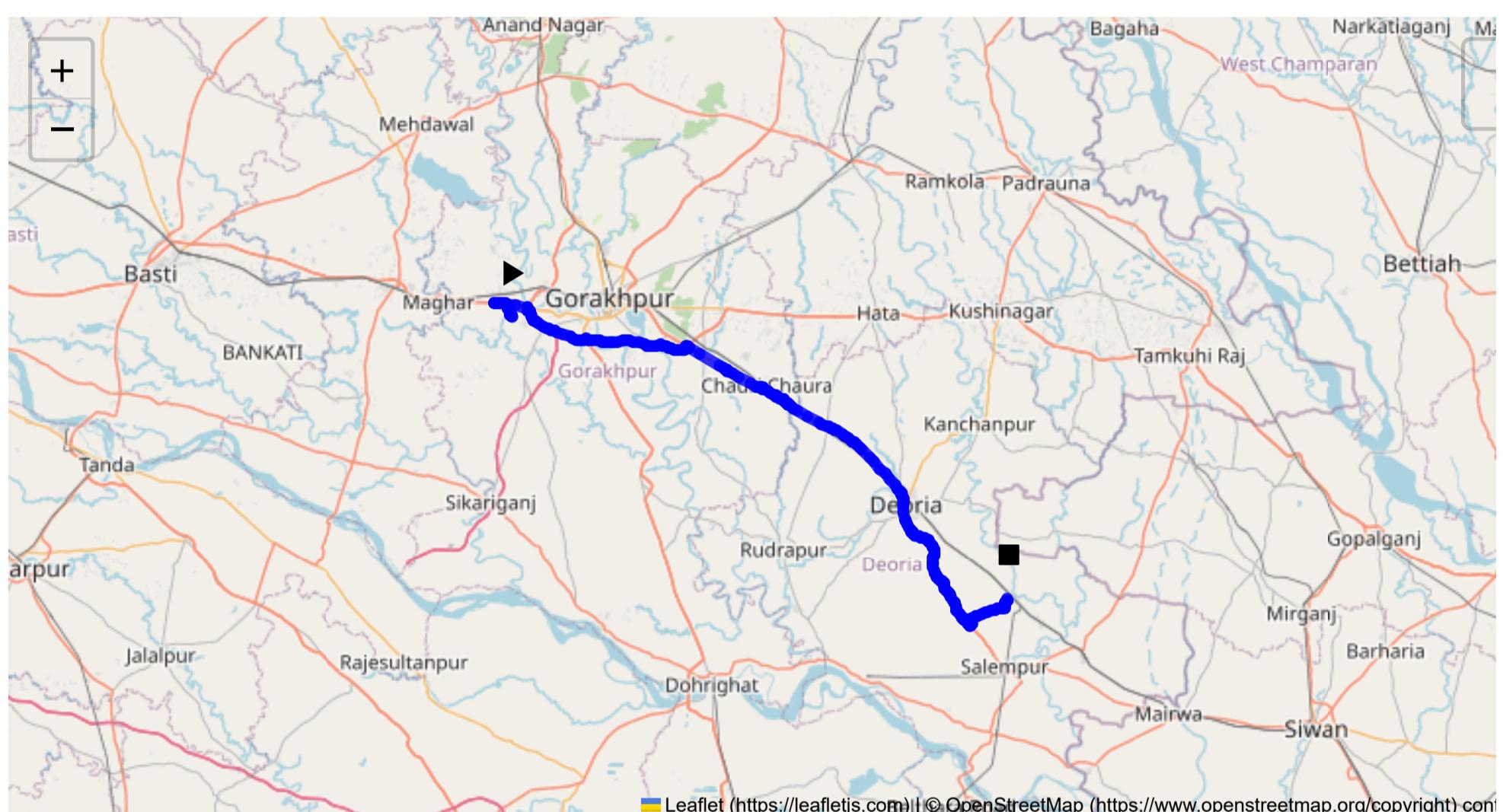
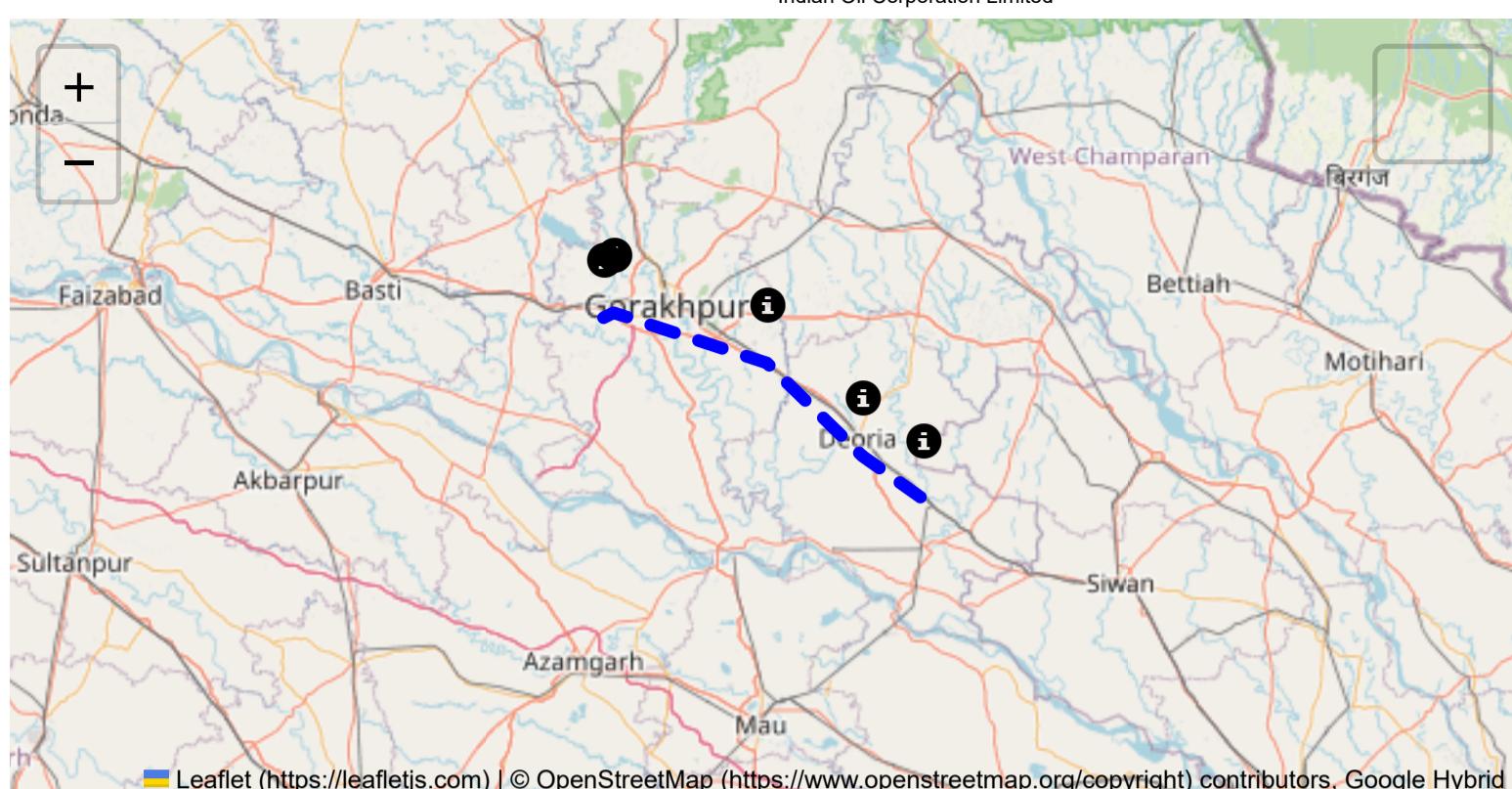
The JRM report addresses environmental risks along the route, ensuring compliance with environmental protection laws in ecologically sensitive zones. It suggests strategies such as identifying areas near water bodies, forests, or populated regions and implementing safety measures to minimize environmental 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: 101.08 km
Estimated Duration: 2.2 hours
Adjusted Duration (Heavy Vehicle): 2.8 hours
Start: (26.735959, 83.229398)
End: (26.381145, 83.925125)

Welcome to the Journey Risk Management Study

Route Overview:

The proposed route from GIDA Industrial Area Phase 1, Sahjanwa, Uttar Pradesh, to Block Road, Sahopar, Bhatni Bazar, spans approximately 101.08 kilometers and can take about 2.24 hours to traverse with a heavy vehicle carrying hazardous materials. This route passes through 01 Zero Point, Kaalesar, Dumari Khurd, and Salempur, Chak Ram Chand.

Typical Weather Conditions:

The region experiences a humid subtropical climate, with hot summers, a monsoon season, and cool winters.

- **Summer (March to June):** High temperatures can impact vehicle performance and driver comfort.
- **Monsoon (June to September):** Heavy rains could lead to waterlogging and slippery roads, increasing accident risks.
- **Winter (November to February):** Fog can reduce visibility, particularly in the early mornings and evenings.

Traffic Patterns:

- **Peak Hours:** Typically, mornings (8-10 AM) and evenings (5-7 PM) see heightened traffic.
- **Congestion-Prone Areas:** Sahjanwa and Salempur towns are more likely to experience traffic slowdowns.
- **Market Days:** Local markets may bring about additional congestion along rural roads.

Road Quality and Infrastructure:

- Roads generally vary from well-paved highways to narrower rural roads.
- Watch for potholes and uneven surfaces, particularly during the monsoon season.
- Infrastructure such as signage and lighting may be inadequate in some areas.

Alternative Routes:

- In case of emergencies or unexpected road blocks, an alternative is to detour via NH27, although this may increase travel time.
- Familiarize with local roads near Dumari Khurd, which serve as secondary routes.

Local Regulations:

- Ensure compliance with local hazardous materials transport regulations.
- Restrictions may apply to certain vehicle types or hazardous materials, varying by district.

Historical Incidents:

- Past incidents have involved vehicle rollovers due to road conditions during monsoons.
- Rare but severe accidents have occurred where traffic conditions are dense.

Environmental Considerations:

- Watch for wildlife crossings, especially near rural or forested segments.
- Ensure spill containment measures are in place to protect local ecosystems.

Communication Coverage:

- Mobile network coverage is generally decent but can be spotty in rural stretches, particularly between Salempur and Sahopar.
- Keep alternate communication methods available.

Emergency Response Times:

- Urban Areas:** Emergency response can be within 30 minutes, due to proximity to emergency services.
- Rural Areas:** Response times can exceed one hour; plan for contingencies.

Overall Summary:

This route, while commonly used, presents challenges primarily related to weather conditions, road quality, and occasional network dead zones. Drivers should be well-informed about high-traffic areas, weather impacts, and details of alternative routes. Ensure all transport is compliant with local regulations for hazardous materials. Emergency planning is essential due to variable response times, especially in more remote areas. Regular updates on local construction or roadwork can assist in avoiding potential delays or hazards.

Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
4	Turn	High	26.73746, 83.22938	15 KM/Hr	0.14 km
5	Blind Spot	Blind Spot	26.73791, 83.22625	10 KM/Hr	0.47 km
6	Turn	High	26.74524, 83.22746	15 KM/Hr	1.16 km
7	Turn	High	26.74654, 83.22390	15 KM/Hr	1.65 km
8	Blind Spot	Blind Spot	26.75126, 83.22476	10 KM/Hr	2.16 km
9	Blind Spot	Blind Spot	26.75353, 83.20457	10 KM/Hr	4.22 km
10	Turn	High	26.75377, 83.20465	15 KM/Hr	4.27 km
0	Roundabout	High	26.74681, 83.25111	15 KM/Hr	8.13 km
11	Turn	Medium	26.69733, 83.47552	30 KM/Hr	33.24 km
12	Turn	Medium	26.69783, 83.47533	30 KM/Hr	33.30 km
13	Turn	High	26.69844, 83.47473	15 KM/Hr	33.39 km
1	U-Turn	High	26.698439, 83.4747268	10 KM/Hr	33.39 km
14	Turn	High	26.69857, 83.47481	15 KM/Hr	33.43 km
2	U-Turn	High	26.6458564, 83.5827353	10 KM/Hr	45.70 km

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
15	Blind Spot	Blind Spot	26.64578, 83.58271	10 KM/Hr	45.70 km
16	Blind Spot	Blind Spot	26.64697, 83.57650	10 KM/Hr	46.23 km
3	U-Turn	High	26.6469671, 83.5764974	10 KM/Hr	46.23 km
17	Turn	Medium	26.63753, 83.59718	30 KM/Hr	48.66 km
18	Turn	Medium	26.44636, 83.82137	30 KM/Hr	80.93 km
19	Blind Spot	Blind Spot	26.34743, 83.87294	10 KM/Hr	93.75 km
20	Turn	Medium	26.35646, 83.87566	30 KM/Hr	94.67 km
21	Turn	Medium	26.35742, 83.87644	30 KM/Hr	94.92 km
22	Turn	Medium	26.37070, 83.91486	30 KM/Hr	98.96 km
23	Turn	Medium	26.36989, 83.91860	30 KM/Hr	99.39 km
24	Turn	Medium	26.37075, 83.92053	30 KM/Hr	99.65 km
25	Turn	High	26.37640, 83.92300	15 KM/Hr	100.36 km
26	Turn	Medium	26.37652, 83.92295	30 KM/Hr	100.40 km

Emergency Locations

Found: 4 hospital(s), 1 clinic(s)

	type	name	coordinates	speed_limit	risk_level	Distance from Start
0	hospital	Prakash Hospital	26.6957341, 83.4807387	30 km/h	Medium	33.94 km
2	hospital	Deoria Eye Hospital	26.5011867, 83.7750448	30 km/h	Medium	72.78 km
3	hospital	Aditya Hospital, Deoria	26.501938, 83.774963	30 km/h	Medium	72.78 km
4	clinic	Savitri Nursing Home, Deoria	26.4716292, 83.7854545	30 km/h	Medium	76.19 km
5	hospital	Government Hospital,Khukhundoo	26.3985008, 83.8418815	30 km/h	Medium	86.82 km

Crowded Spots

Found: 1 college(s)

	type	name	coordinates	speed_limit	risk_level	Distance from Start
1	college	BRD PG college	26.5161416, 83.7720277	30 km/h	Medium	71.07 km

Route Photos of Risky Spots



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 2.16 km

Coordinates: 26.75126, 83.22476



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 4.22 km

Coordinates: 26.75353, 83.20457



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Risk Type: Turn**Risk Level: High****Speed Limit: 15 KM/Hr****Distance from Start: 4.27 km****Coordinates: 26.75377, 83.20465**

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Risk Type: Roundabout**Risk Level: High****Speed Limit: 15 KM/Hr****Distance from Start: 8.13 km****Coordinates: 26.74681, 83.25111**



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Risk Type: Turn**Risk Level: Medium****Speed Limit: 30 KM/Hr****Distance from Start: 33.24 km****Coordinates: 26.69733, 83.47552**

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Risk Type: Turn**Risk Level: Medium****Speed Limit: 30 KM/Hr****Distance from Start: 33.30 km****Coordinates: 26.69783, 83.47533**



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Risk Type: Turn**Risk Level: High****Speed Limit: 15 KM/Hr****Distance from Start: 33.39 km****Coordinates: 26.69844, 83.47473**

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Risk Type: U-Turn**Risk Level: High****Speed Limit: 10 KM/Hr****Distance from Start: 33.39 km****Coordinates: 26.698439, 83.4747268**



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 33.43 km

Coordinates: 26.69857, 83.47481



Risk Type: U-Turn

Risk Level: High

Speed Limit: 10 KM/Hr

Distance from Start: 45.70 km

Coordinates: 26.6458564, 83.5827353



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 45.70 km

Coordinates: 26.64578, 83.58271



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 46.23 km

Coordinates: 26.64697, 83.57650



Risk Type: U-Turn

Risk Level: High

Speed Limit: 10 KM/Hr

Distance from Start: 46.23 km

Coordinates: 26.6469671, 83.5764974



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 48.66 km

Coordinates: 26.63753, 83.59718



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Risk Type: Turn**Risk Level:** Medium**Speed Limit:** 30 KM/Hr**Distance from Start:** 80.93 km**Coordinates:** 26.44636, 83.82137

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Risk Type: Blind Spot**Risk Level:** Blind Spot**Speed Limit:** 10 KM/Hr**Distance from Start:** 93.75 km**Coordinates:** 26.34743, 83.87294

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