



IndianOil

JOURNEY RISK MANAGEMENT (JRM) STUDY

Gorakhpur LPG BP TO KANHAIYA 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

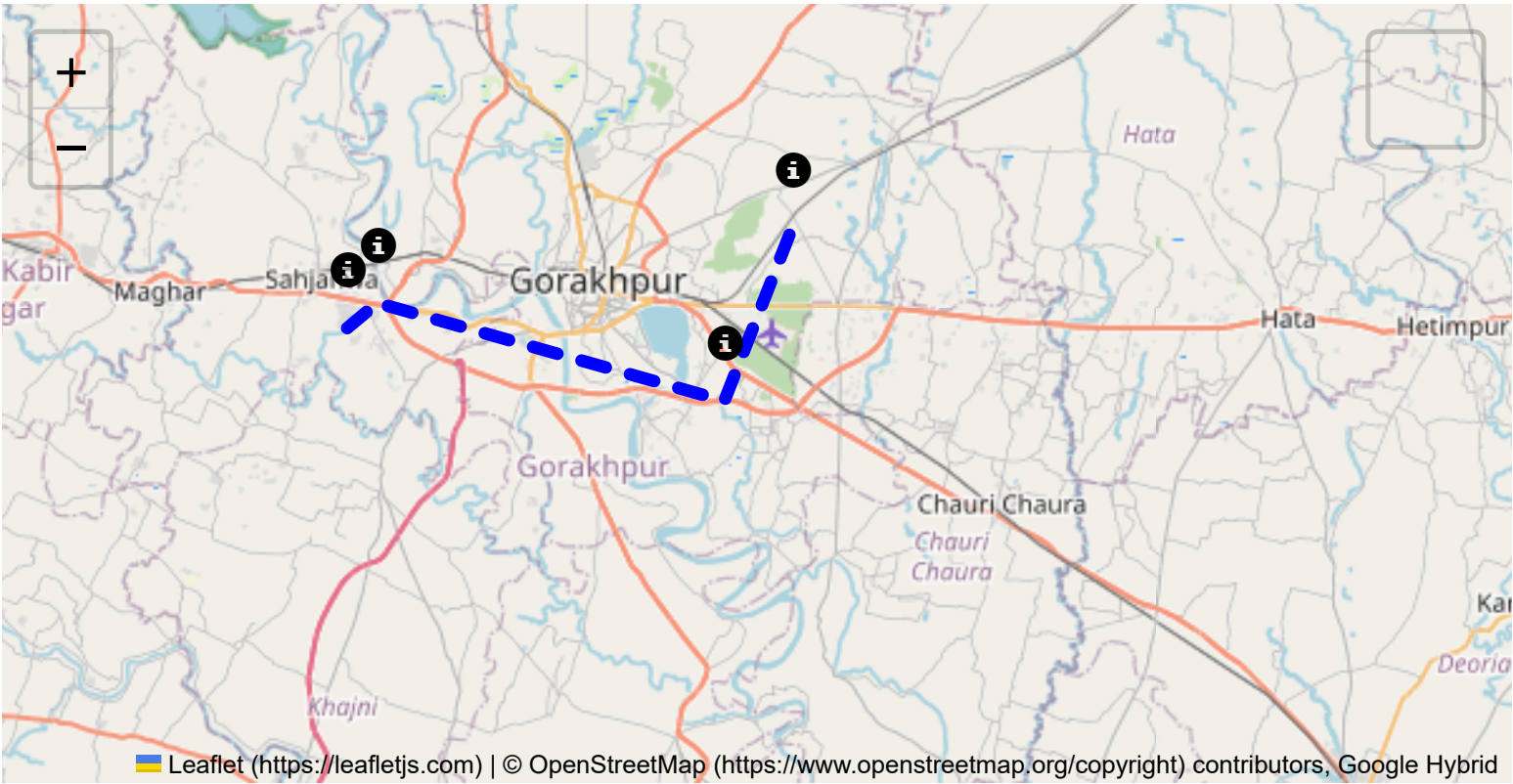
The JRM report addresses environmental risks along the route, ensuring compliance with environmental protection laws in ecologically sensitive zones. It suggests strategies such as identifying areas near water bodies, forests, or populated regions and implementing safety measures to minimize environmental 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: 49.91 km
Estimated Duration: 1.2 hours
Adjusted Duration (Heavy Vehicle): 1.5 hours
Start: (26.735959, 83.229398)
End: (26.785218, 83.472858)

Welcome to the Journey Risk Management Study

Sure, I will provide an analysis of the route mentioned. Keep in mind that local and current conditions can vary, and it is always important to have the most recent information when undertaking such a journey.

- 1. **Overview of the Route Map:** The route starts at the GIDA Industrial Area Phase 1 in Sahjanwa and ends at Unaula Awal, covering several key locations including Zero Point, Kaalesar, South city

Talkandal bintoliya, and others along the Gorakhpur - Deoria Highway. This mix of urban, semi-urban, and rural locations could mean varied driving conditions.

2. **Typical Weather Conditions and Potential Weather-Related Hazards:** Uttar Pradesh generally experiences a subtropical climate. Summers can be very hot, with potential for severe daytime heat, particularly for heavy vehicles. Monsoon season (June-September) can lead to heavy rainfall and flooding, which might impede travel. Winter fog (December-January) can reduce visibility.
3. **Traffic Patterns:** Peak traffic hours are typically from 8:00-10:00 AM and 5:00-7:00 PM. Gorakhpur is a hub that might experience significant congestion, especially near city centers and junctions like Zero Point. The highway segment could also see high volumes of traffic, primarily around urban exit and entry points.
4. **Road Quality and Infrastructure:** Road infrastructure varies throughout the route. Major highways and urban roads are generally in better condition but might suffer wear due to heavy traffic and weather. Potholes or uneven surfaces might be expected around more rural or lesser-maintained sections.
5. **Suggestions for Alternative Routes:** In emergencies, local back roads may offer alternatives, but they could be less direct and possibly in poor condition. Keeping a map or using GPS to quickly identify nearby secondary roads or parallel highways would be recommended.
6. **Local Regulations Affecting Hazardous Material Transport:** Transporting hazardous materials may require specific permits and adherence to local regulations, such as restrictions during certain hours or routes. Compliance with national safety and labeling standards is also essential.
7. **Historical Incidents:** Heavy vehicle incidents historically occur mostly within congested urban areas and junctions. Lorries carrying hazardous materials should be particularly cautious in these zones to avoid spills or accidents.
8. **Environmental Considerations and Sensitive Areas:** The route potentially traverses agricultural areas where environmental precautions should be heightened to protect crops and soil. Awareness of any wildlife crossings or protected areas is crucial to minimize impact.
9. **Communication Coverage:** Most parts of the route should have adequate mobile coverage, particularly closer to Gorakhpur and national highways. However, rural stretches between towns may experience occasional dead zones depending on service providers.
10. **Estimated Emergency Response Times:** Urban areas typically have quicker response times, potentially within 15-30 minutes, while rural areas could expect delays of up to an hour, contingent on local infrastructure and conditions.
11. **Overall Summary of Risk Assessment:** The route is moderately challenging, primarily due to urban congestion, variable road quality, and seasonal weather effects. Special caution is advised for weather impacts during monsoon and fog conditions. Proper planning for emergency response, alternative routing, and regulatory compliance can reduce transport risks significantly. Regular updates on road conditions and potential detours are advisable for safe travels.

Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
1	Turn	High	26.73690, 83.22947	15 KM/Hr	0.05 km
2	Turn	High	26.73697, 83.22939	15 KM/Hr	0.11 km
3	Turn	High	26.73746, 83.22938	15 KM/Hr	0.15 km
4	Blind Spot	Blind Spot	26.73791, 83.22625	10 KM/Hr	0.48 km
5	Turn	Medium	26.74524, 83.22746	30 KM/Hr	1.30 km
6	Turn	Medium	26.74532, 83.22740	30 KM/Hr	1.32 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	2.17 km
9	Blind Spot	Blind Spot	26.75353, 83.20457	10 KM/Hr	4.23 km
10	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
11	Turn	Medium	26.74658, 83.25155	30 KM/Hr	9.05 km
12	Turn	Medium	26.74646, 83.25151	30 KM/Hr	9.07 km
13	Turn	Medium	26.74310, 83.25343	30 KM/Hr	9.49 km
14	Turn	Medium	26.74298, 83.25343	30 KM/Hr	9.50 km
15	Turn	Medium	26.74420, 83.52988	30 KM/Hr	40.88 km
16	Blind Spot	Blind Spot	26.74659, 83.49782	10 KM/Hr	44.27 km
17	Blind Spot	Blind Spot	26.74689, 83.49789	10 KM/Hr	44.30 km
18	Turn	Medium	26.74688, 83.49784	30 KM/Hr	44.31 km
19	Turn	Medium	26.74689, 83.49781	30 KM/Hr	44.32 km
20	Turn	Medium	26.75062, 83.49660	30 KM/Hr	44.74 km
21	Turn	High	26.78830, 83.47492	15 KM/Hr	49.44 km

Emergency Locations

Found: 1 hospital(s)

	type	name	coordinates	speed_limit	risk_level	Distance from Start
0	hospital	Prakash Hospital	26.6957341, 83.4807387	30 km/h	Medium	33.38 km

Crowded Spots

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: Medium
Speed Limit: 30 KM/Hr
Distance from Start: 40.88 km
Coordinates: 26.74420, 83.52988



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Distance from Start: 44.27 km
Coordinates: 26.74659, 83.49782



Risk Type: Blind Spot
Risk Level: Blind Spot
Speed Limit: 10 KM/Hr
Distance from Start: 44.30 km
Coordinates: 26.74689, 83.49789



Risk Type: Turn
Risk Level: Medium
Speed Limit: 30 KM/Hr
Distance from Start: 44.31 km
Coordinates: 26.74688, 83.49784



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 44.32 km

Coordinates: 26.74689, 83.49781



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 44.74 km

Coordinates: 26.75062, 83.49660



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 49.44 km

Coordinates: 26.78830, 83.47492

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