



JOURNEY RISK MANAGEMENT (JRM) STUDY

Gorakhpur LPG BP TO ROHIT INDANE GRAMIN

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

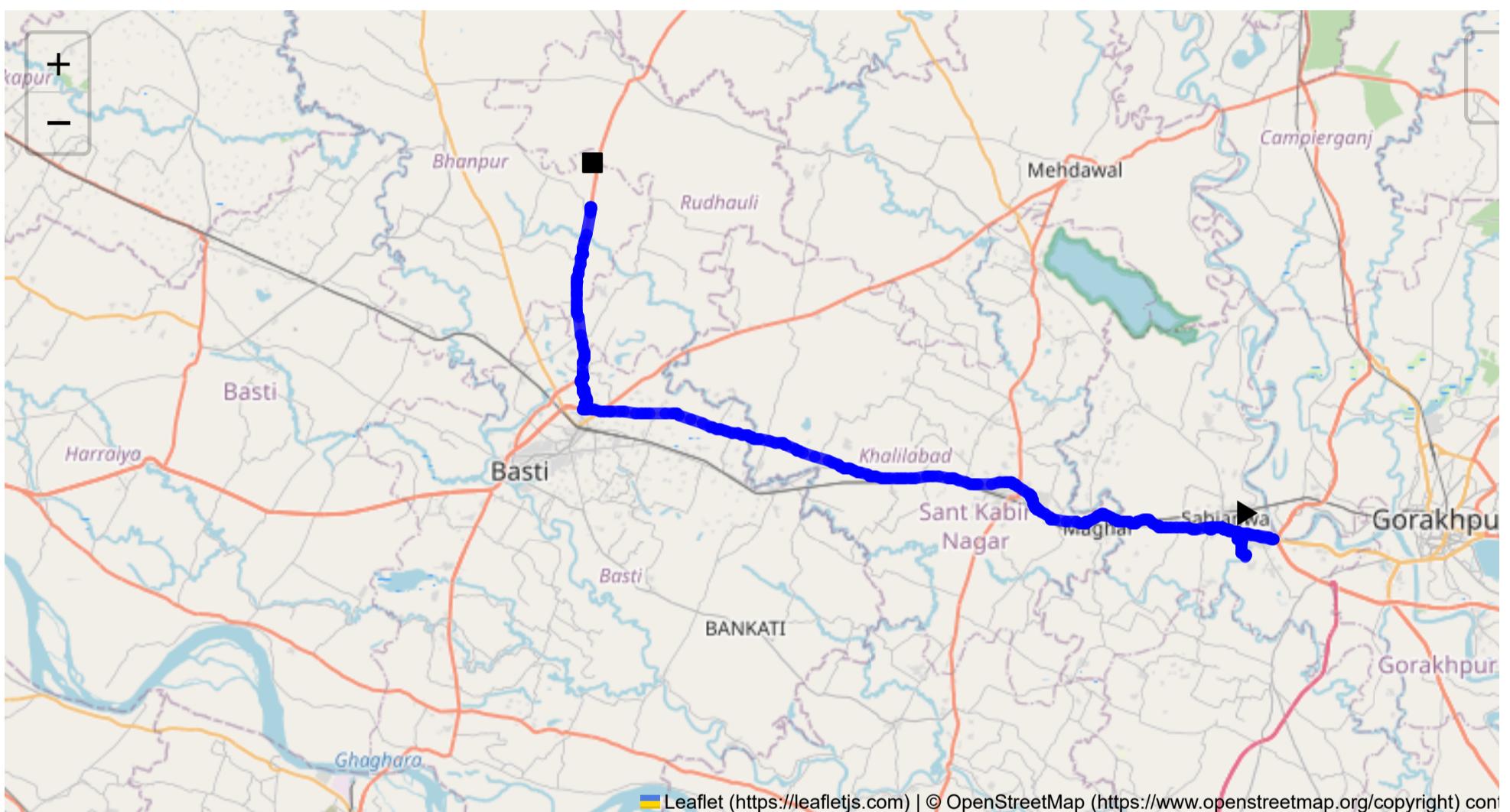
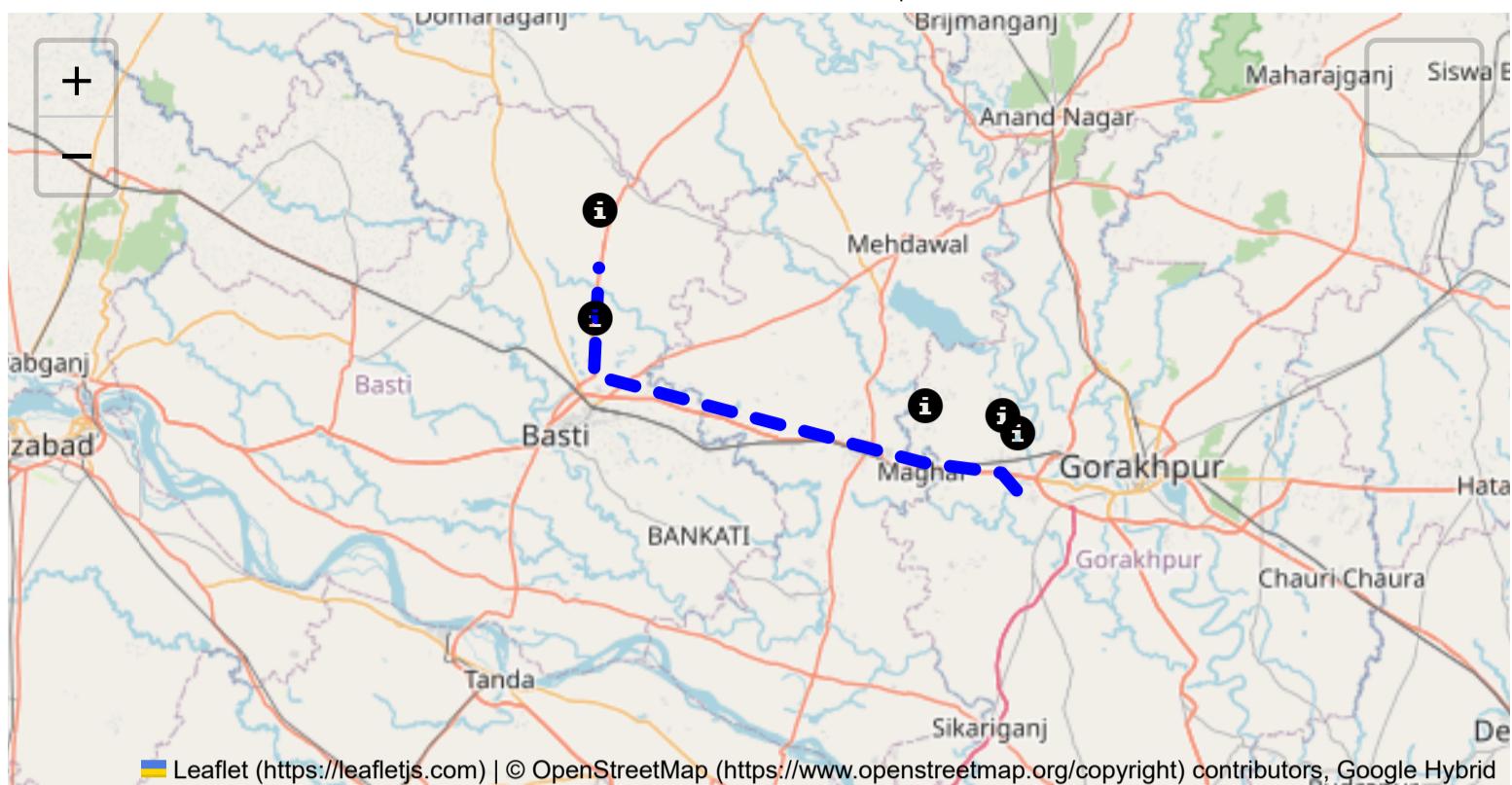
The JRM report addresses environmental risks along the route, ensuring compliance with environmental protection laws in ecologically sensitive zones. It suggests strategies such as identifying areas near water bodies, forests, or populated regions and implementing safety measures to minimize environmental 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: 73.48 km
Estimated Duration: 1.5 hours
Adjusted Duration (Heavy Vehicle): 1.9 hours
Start: (26.735959, 83.229398)
End: (26.953889, 82.771847)

Welcome to the Journey Risk Management Study

Route Analysis Report

1. Overview of the Route Map

The route spans approximately 73.48 kilometers through Uttar Pradesh, India. It begins in the GIDA Industrial Area Phase 1 in Sahjanwa and ends in Dasia via Maghar Road and Basti-Bansi Road. This route intersects rural and semi-urban landscapes, involving both state highways and smaller roads.

2. Weather Conditions and Hazards

Typical weather in Uttar Pradesh varies with hot summers, monsoon rains, and mild winters. During the rainy season (June to September), roads can become slippery, and flooding is possible, particularly in low-lying areas. Fog is common during winter months (December to February), which can impede visibility.

3. Traffic Patterns

Traffic is generally moderate, but peak congestion may occur around Sahjanwa and Maghar due to local business and residential activity. Morning and evening are peak traffic hours, increasing the risk of delays. Smaller roads may experience slower-moving agricultural traffic.

4. Road Quality and Infrastructure

The roads vary in quality, with major highways generally well-maintained but smaller roads potentially having potholes or uneven surfaces. Some rural roads may lack proper signage and lighting, which can pose hazards, especially at night.

5. Alternative Routes for Emergencies

An alternative route can be via NH27, bypassing congested areas. This route connects with secondary roads leading back to the main destination but may extend travel time slightly.

6. Regulations on Hazardous Material Transport

Local regulations require permits for transporting hazardous materials and adherence to specified routes, typically avoiding densely populated areas. Drivers should ensure compliance with guidelines set by local transport authorities and have proper documentation.

7. Historical Incidents

While specific data may be sparse, rural Uttar Pradesh has seen incidents involving heavy vehicles due to poor road conditions and driver errors. Awareness and training in handling emergencies on such routes are crucial.

8. Environmental Considerations and Sensitive Areas

Areas near water bodies and agricultural lands require special attention to avoid contamination from hazardous materials. Proximity to residential areas demands strict adherence to noise and emission standards.

9. Communication Coverage

The route generally has good mobile network coverage; however, rural stretches, particularly between Maghar and Basti, might have patchy reception. It is advisable to have additional means of communication, such as satellite phones, for emergencies.

10. Estimated Emergency Response Times

Response times vary significantly. Urban areas like Sahjanwa might see quicker response times (30-45 minutes) from emergency services, while rural segments might experience delayed responses up to 60 minutes or more due to distance and road accessibility.

11. Overall Summary of Risk Assessment

The route poses moderate risks primarily due to road conditions and weather-related hazards. Training in defensive driving and emergency protocols is essential. Regular communication checks and maintaining safety equipment on board are recommended. Planning trips during daylight hours, avoiding peak congestion, and continuous monitoring of weather forecasts will mitigate some hazards. Emergency plans should include clear instructions for drivers on whom to contact and steps to take during an incident.

This assessment aims to ensure safe and efficient transport by highlighting potential risks and equipping drivers with vital information.

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	1.28 km
6	Turn	Medium	26.74532, 83.22740	30 KM/Hr	1.31 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	26.75377, 83.20465	15 KM/Hr	4.28 km
11	Blind Spot	Blind Spot	26.75377, 83.21355	10 KM/Hr	5.17 km
13	Turn	High	26.75377, 83.21355	15 KM/Hr	5.17 km
12	Blind Spot	Blind Spot	26.75407, 83.21347	10 KM/Hr	5.20 km

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
14	Blind Spot	Blind Spot	26.74712, 83.24909	10 KM/Hr	8.85 km
0	U-Turn	High	26.7471208, 83.2490873	10 KM/Hr	8.85 km
15	Turn	High	26.74703, 83.24907	15 KM/Hr	8.86 km
16	Blind Spot	Blind Spot	26.82809, 82.76755	10 KM/Hr	59.15 km
17	Turn	Medium	26.83971, 82.76772	30 KM/Hr	60.49 km
18	Turn	Medium	26.84768, 82.76664	30 KM/Hr	61.44 km
19	Turn	Medium	26.84779, 82.76657	30 KM/Hr	61.46 km
20	Blind Spot	Blind Spot	26.84783, 82.76633	10 KM/Hr	61.49 km
21	Turn	High	26.95272, 82.77260	15 KM/Hr	73.25 km
22	Turn	High	26.95332, 82.77175	15 KM/Hr	73.41 km

Emergency Locations

Found: 2 hospital(s), 1 clinic(s)

	type	name		coordinates	speed_limit	risk_level	Distance from Start
0	hospital	Aaman Hospital		26.8262775, 82.8111704	30 km/h	Medium	54.76 km
1	hospital	Lucknow Dental Hospital		26.8274245, 82.7828821	30 km/h	Medium	57.53 km
2	clinic	AHC Clinic		26.8271822, 82.7630996	30 km/h	Medium	59.15 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: 4.28 km

Coordinates: 26.75377, 83.20465



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 5.17 km

Coordinates: 26.75377, 83.21355



Google

Risk Type: Turn**Risk Level:** High**Speed Limit:** 15 KM/Hr**Distance from Start:** 5.17 km**Coordinates:** 26.75377, 83.21355

Google

Risk Type: Blind Spot**Risk Level:** Blind Spot**Speed Limit:** 10 KM/Hr**Distance from Start:** 5.20 km**Coordinates:** 26.75407, 83.21347



Google

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Risk Type: Blind Spot**Risk Level:** Blind Spot**Speed Limit:** 10 KM/Hr**Distance from Start:** 8.85 km**Coordinates:** 26.74712, 83.24909

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Risk Type: U-Turn**Risk Level:** High**Speed Limit:** 10 KM/Hr**Distance from Start:** 8.85 km**Coordinates:** 26.7471208, 83.2490873



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Risk Type: Turn**Risk Level: High****Speed Limit: 15 KM/Hr****Distance from Start: 8.86 km****Coordinates: 26.74703, 83.24907**

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Risk Type: Blind Spot**Risk Level: Blind Spot****Speed Limit: 10 KM/Hr****Distance from Start: 59.15 km****Coordinates: 26.82809, 82.76755**



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 60.49 km

Coordinates: 26.83971, 82.76772



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 61.44 km

Coordinates: 26.84768, 82.76664



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 61.46 km

Coordinates: 26.84779, 82.76657



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 61.49 km

Coordinates: 26.84783, 82.76633

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