



IndianOil

JOURNEY RISK MANAGEMENT (JRM) STUDY

Gorakhpur LPG BP TO SNEH INDANE GAS 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

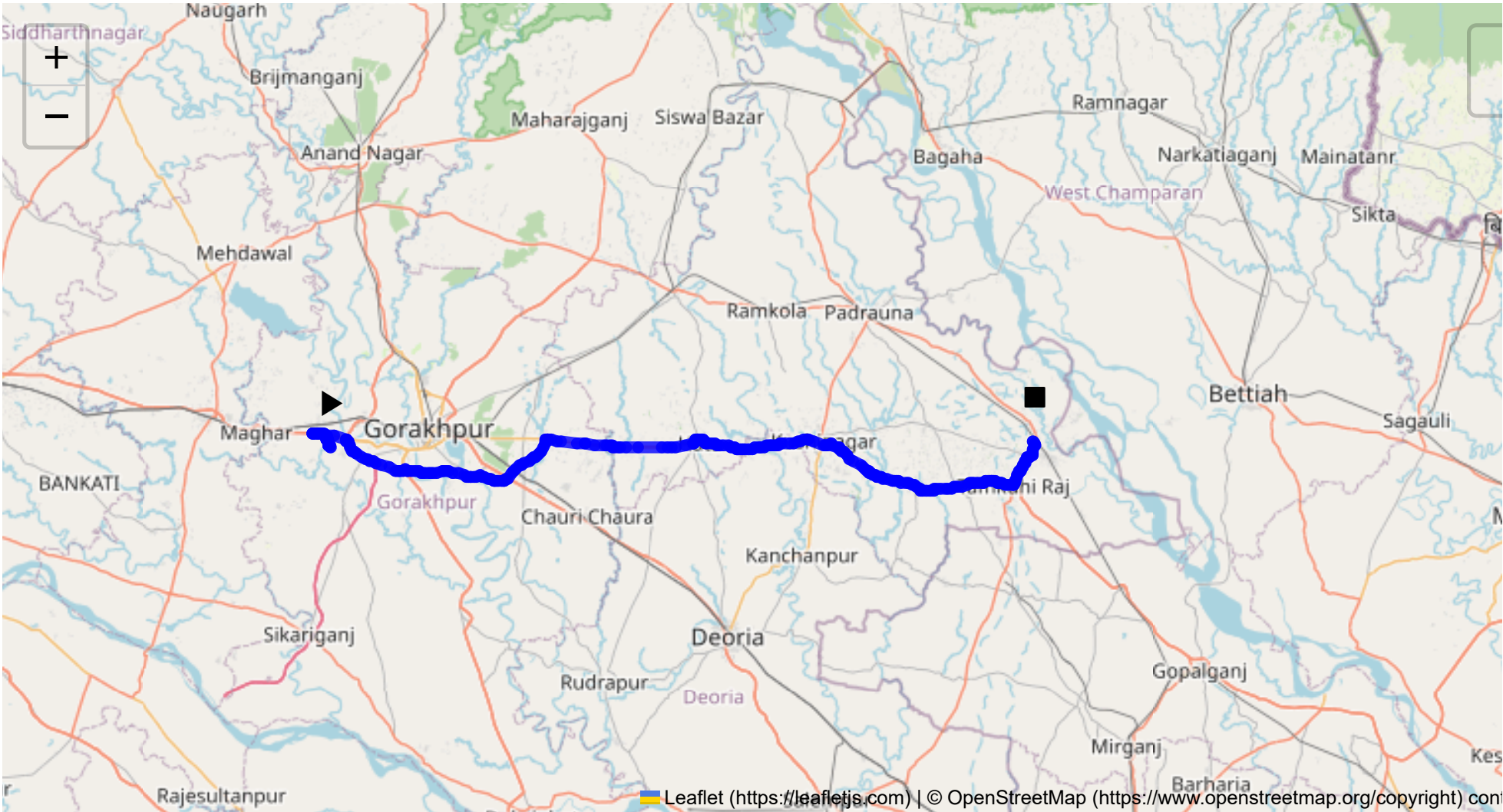
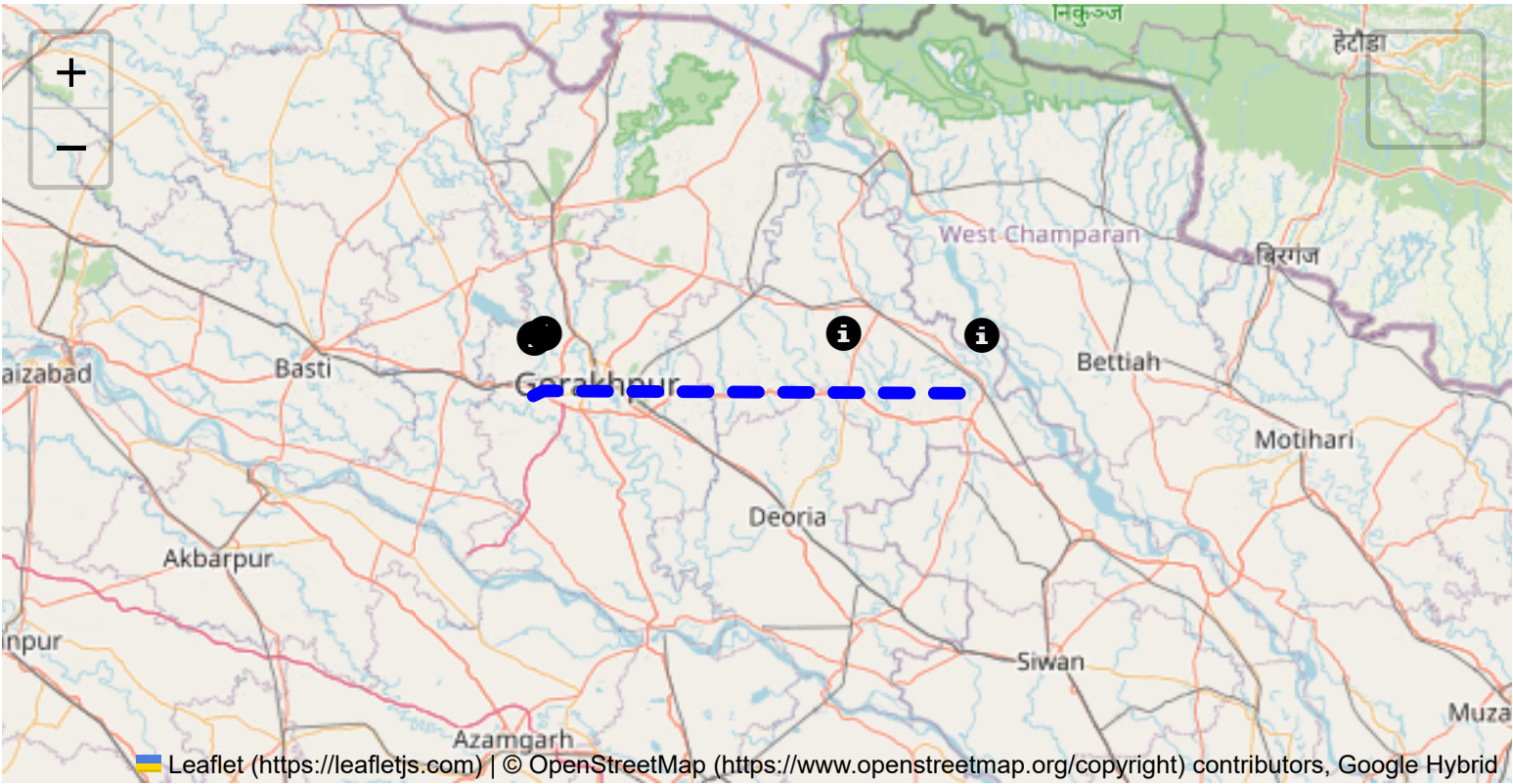
The JRM report addresses environmental risks along the route, ensuring compliance with environmental protection laws in ecologically sensitive zones. It suggests strategies such as identifying areas near water bodies, forests, or populated regions and implementing safety measures to minimize environmental 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: 116.18 km
Estimated Duration: 2.3 hours
Adjusted Duration (Heavy Vehicle): 2.9 hours
Start: (26.735959, 83.229398)
End: (26.742552, 84.207078)

Welcome to the Journey Risk Management Study

Route Overview

The route spans approximately 116.18 kilometers, starting from GIDA Industrial Area in Sahjanwa, Uttar Pradesh, and ending at Rakaba Dulama Patti, Uttar Pradesh. The journey is segmented with notable stops at Zero Point, Kaalesar, and Jhugwa. The terrain is predominantly flat with some rural and highway sections.

Weather Conditions and Hazards

Uttar Pradesh experiences a subtropical climate. During summer months (April to June), high temperatures can lead to heat-related hazards for vehicles and drivers. The monsoon season (July to September) brings heavy rainfall, increasing the risk of flooding, slippery roads, and reduced visibility. In winter (December to February), fog can significantly impair visibility, especially in the early morning and late evening.

Traffic Patterns

Traffic congestion is commonly observed during weekday mornings (7-9 AM) and evenings (5-7 PM), particularly around industrial zones such as Sahjanwa and near major intersections like Zero Point, Kaalesar. Weekends tend to be less congested. Truck drivers should anticipate slow-moving traffic and potential delays during peak hours.

Road Quality and Infrastructure

The route includes a mix of well-maintained highways and narrower rural roads. Potholes and uneven surfaces are occasionally reported, particularly after the monsoon season. Signage quality may vary, with some rural sections having limited visibility at night.

Alternative Routes

In case of emergencies such as roadblocks or adverse weather conditions, an alternative route could be taken via NH 28 towards Basti, before turning onto local roads towards Rakaba Dulama Patti. This route offers better infrastructure but adds additional distance.

Local Regulations on Hazardous Materials

The transport of hazardous materials in Uttar Pradesh requires compliance with Indian transport regulations, including proper labeling and documentation. Restrictions may apply in certain sensitive and densely populated areas, and night movement is often preferred to minimize risk.

Historical Incidents

There have been occasional incidents involving heavy vehicles in the region, often due to poor road conditions, driver fatigue, or vehicle failure. Notably, the monsoon season sees an increase in such incidents due to wet and slippery roads.

Environmental Considerations

Several areas along the route are environmentally sensitive, including near the Rapti River. It is crucial to avoid any spillage or contamination in these regions. Drivers should be particularly cautious when traversing near water bodies to prevent environmental damage.

Communication Coverage

Mobile network coverage is generally adequate along major sections of the route but can be intermittent in rural areas, particularly near Jhugwa. Drivers should be equipped with communication devices capable of accessing multiple carriers or satellite communication to mitigate dead zones.

Emergency Response Times

Emergency services response times can vary significantly. In urban and semi-urban areas, expect response times of 30-45 minutes. In rural zones, it may extend beyond an hour. Familiarity with local emergency contacts and alternative routes to hospitals or service stations is advisable.

Summary of Risk Assessment

Overall, this route presents moderate risk to heavy vehicles carrying hazardous materials. Key risks include traffic congestion during peak hours, inclement weather conditions, and varying road quality. Drivers should plan travel avoiding peak times, assess weather conditions beforehand, and maintain strict adherence to hazardous materials guidelines to mitigate risks. Emergency preparedness and constant communication will help ensure safety and efficiency throughout the journey.

Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
1	Turn	High	26.73746, 83.22938	15 KM/Hr	0.14 km
2	Blind Spot	Blind Spot	26.73791, 83.22625	10 KM/Hr	0.47 km
3	Turn	High	26.74524, 83.22746	15 KM/Hr	1.16 km
4	Turn	High	26.74654, 83.22390	15 KM/Hr	1.65 km
5	Blind Spot	Blind Spot	26.75126, 83.22476	10 KM/Hr	2.16 km
6	Blind Spot	Blind Spot	26.75353, 83.20457	10 KM/Hr	4.22 km
7	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
8	Turn	Medium	26.69053, 84.13522	30 KM/Hr	103.93 km
9	Turn	High	26.68889, 84.17995	15 KM/Hr	108.71 km
10	Turn	Medium	26.72467, 84.20237	30 KM/Hr	113.30 km
11	Blind Spot	Blind Spot	26.72598, 84.20826	10 KM/Hr	113.74 km
12	Turn	High	26.74154, 84.21039	15 KM/Hr	115.62 km

Emergency Locations

Found: 5 hospital(s)

	type	name	coordinates	speed_limit	risk_level	Distance from Start
0	hospital	Prakash Hospital	26.6957341, 83.4807387	30 km/h	Medium	33.15 km
1	hospital	RG Hospital	26.7372178, 83.5824469	30 km/h	Medium	45.79 km
2	hospital	Gautam Budha National Hospital	26.744396, 83.9016042	30 km/h	Medium	78.39 km
3	hospital	Star Hospital, Kushinagar	26.6831917, 84.0478785	30 km/h	Medium	95.13 km
4	hospital	Pawanagar Mahavir Hospital and Research Center	26.6832018, 84.0485296	30 km/h	Medium	95.13 km

Crowded Spots

Route Photos of Risky Spots



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 2.16 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



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



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



Risk Type: Turn
Risk Level: High
Speed Limit: 15 KM/Hr
Distance from Start: 108.71 km
Coordinates: 26.68889, 84.17995



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 115.62 km

Coordinates: 26.74154, 84.21039

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