



IndianOil

JOURNEY RISK MANAGEMENT (JRM) STUDY

Gorakhpur LPG BP TO ANIRUDDH INDANE GRAM

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

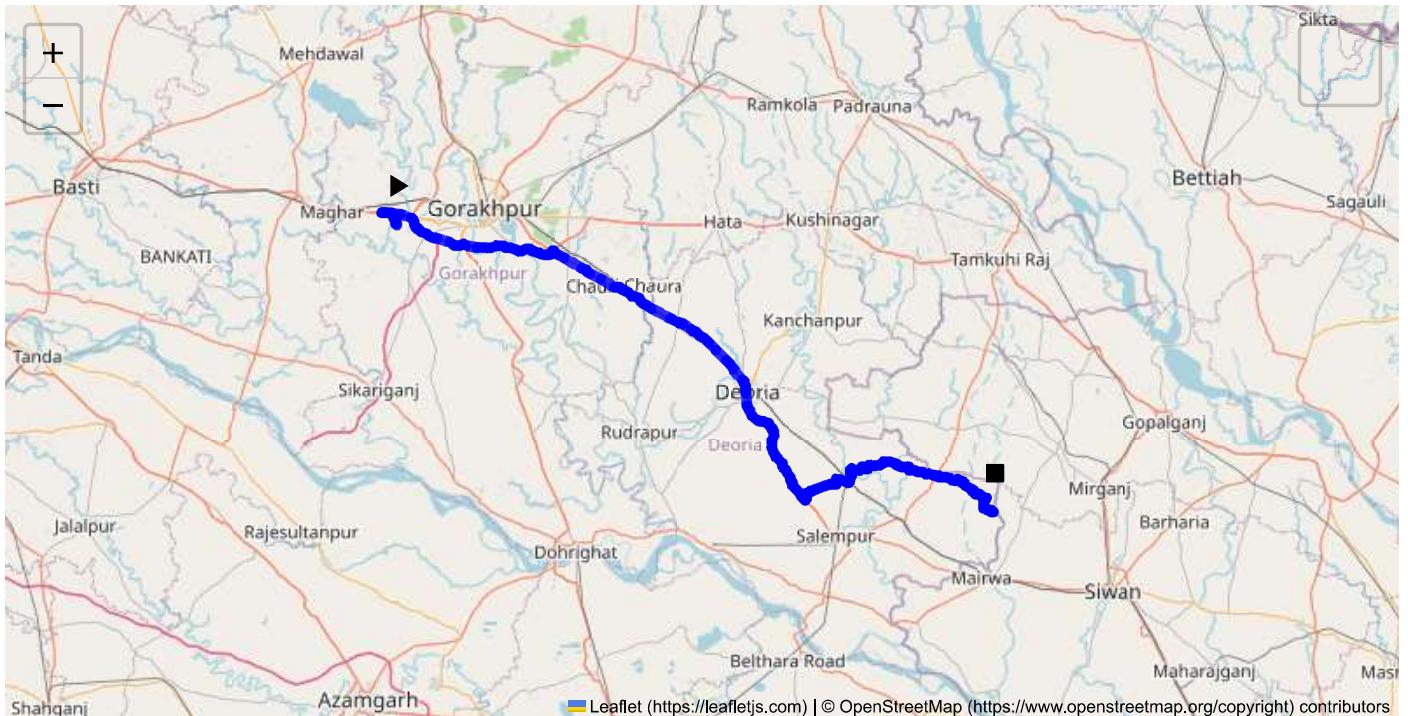
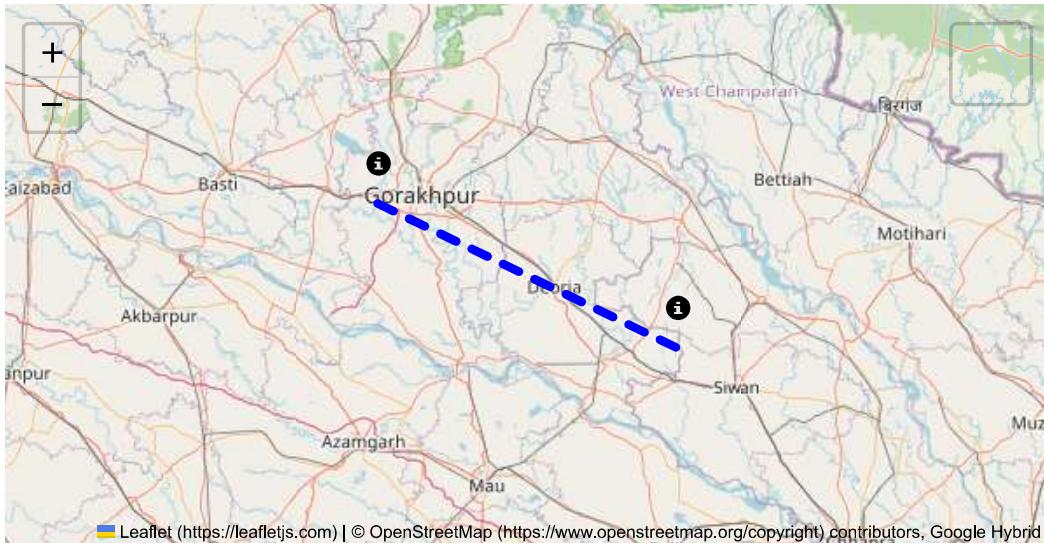
The JRM report addresses environmental risks along the route, ensuring compliance with environmental protection laws in ecologically sensitive zones. It suggests strategies such as identifying areas near water bodies, forests, or populated regions and implementing safety measures to minimize environmental 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: 130.94 km
Estimated Duration: 3.1 hours
Adjusted Duration (Heavy Vehicle): 3.9 hours
Start: (26.735959, 83.229398)
End: (26.329988, 84.1695)

Welcome to the Journey Risk Management Study

Route Safety Analysis Report

- Overview of the Route Map** The route from P6PH+9Q GIDA Industrial Area Phase 1, Sahjanwa, Uttar Pradesh, to 85H9+XQ Parsouni Anand, Uttar Pradesh, covers approximately 130.94 kilometers. The

primary roads involved in this route are National Highways (NH) and state roads. It passes through urban areas, industrial zones, and rural regions.

2. Typical Weather Conditions and Potential Weather-Related Hazards Uttar Pradesh experiences a humid subtropical climate. During summer (April to June), the region can face extreme heat, which might lead to engine overheating. The monsoon season (July to September) brings heavy rainfall, potentially causing flooding and waterlogging, especially on rural roads. Winters (December to February) can be foggy, impacting visibility.

3. Traffic Patterns Traffic congestion is common in urban areas, particularly near city centers and industrial hubs. Peak hours are generally from 8 AM to 10 AM and 5 PM to 8 PM. Sahjanwa and other towns along the route might have local markets that contribute to increased congestion during these times.

4. Assessment of Road Quality and Infrastructure The condition of National Highways is generally good, with well-maintained surfaces and proper signage. However, some state and rural roads can be patchy, with potholes or narrow lanes. Bridge crossings should be approached with caution, especially during the rainy season.

5. Suggestions for Alternative Routes for Emergencies Alternative routes include taking other nearby National Highways or lesser-known state roads to bypass heavily congested or hazardous areas. It's advisable to have an updated GPS or mapping service to assist in choosing the best alternative route in real-time.

6. Summary of Local Regulations Affecting Hazardous Material Transport Transporting hazardous materials requires adherence to specific regulations, including obtaining necessary permits and following prescribed routes. Night travel for such loads is often restricted. Drivers should be familiar with the Central Motor Vehicle Rules (CMVR) for transporting hazardous materials.

7. Overview of Historical Incidents Past incidents along similar routes often involve overturns and spills due to poor road conditions or excessive speed. Compliance with regulations and careful monitoring of vehicle conditions can help prevent such incidents.

8. Environmental Considerations and Sensitive Areas The route traverses several agricultural zones and near rivers. Care should be taken to prevent any spillage that could harm crops or contaminate waterways. Awareness of nearby wildlife sanctuaries or protected areas is also important.

9. Analysis of Communication Coverage Mobile network coverage is generally good along the National Highways but can be patchy in rural regions. Dead zones may occur in remote areas or where the terrain is obstructive, so ensure that emergency radios or alternative communication devices are available.

10. Estimated Emergency Response Times In urban and well-traveled areas, emergency services can typically respond within 30-45 minutes. In more remote locations, response times could extend up to 1-2 hours, depending on proximity to emergency facilities.

11. Overall Summary of Risk Assessment The route from GIDA Industrial Area Phase 1 to Parsouni Anand is generally manageable with typical preparation and adherence to safety regulations. The main risks involve weather-related issues, road quality variations, and peak-hour congestion. Emergency

preparedness is crucial, with a focus on maintaining communication lines and familiarity with alternative routes.

Overall, staying informed about weather updates, traffic patterns, and regulatory compliance will support safer transit along this route.

Risk Assessment - Turns

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
2	Turn	High	26.73746, 83.22938	15 KM/Hr	0.08 km
3	Turn	High	26.73788, 83.22642	15 KM/Hr	0.32 km
4	Turn	Medium	26.73812, 83.22630	30 KM/Hr	0.48 km
5	Turn	High	26.74524, 83.22746	15 KM/Hr	1.14 km
6	Turn	High	26.74679, 83.22391	15 KM/Hr	1.64 km
7	Blind Spot	Blind Spot	26.75126, 83.22476	10 KM/Hr	2.13 km
8	Blind Spot	Blind Spot	26.75377, 83.20465	10 KM/Hr	4.19 km
0	Roundabout	High	26.74681, 83.25111	15 KM/Hr	8.07 km
9	Turn	Medium	26.69652, 83.47508	30 KM/Hr	33.05 km
10	Turn	High	26.69741, 83.47552	15 KM/Hr	33.14 km
1	U-Turn	High	26.698439, 83.4747268	10 KM/Hr	33.33 km
11	Blind Spot	Blind Spot	26.69857, 83.47481	10 KM/Hr	33.33 km
12	Blind Spot	Blind Spot	26.34743, 83.87294	10 KM/Hr	92.34 km
13	Turn	Medium	26.35673, 83.87580	30 KM/Hr	93.36 km
14	Turn	Medium	26.35760, 83.87671	30 KM/Hr	93.55 km
15	Turn	Medium	26.37071, 83.91514	30 KM/Hr	97.59 km
16	Turn	Medium	26.36988, 83.91866	30 KM/Hr	97.92 km
17	Turn	Medium	26.37088, 83.92067	30 KM/Hr	98.30 km
18	Turn	Medium	26.37645, 83.92317	30 KM/Hr	98.95 km
19	Turn	Medium	26.37250, 83.94176	30 KM/Hr	100.87 km
20	Turn	Medium	26.37501, 83.94448	30 KM/Hr	101.21 km
21	Turn	High	26.39141, 83.94694	15 KM/Hr	103.20 km
22	Turn	Medium	26.38936, 83.95501	30 KM/Hr	103.91 km
23	Turn	Medium	26.39205, 83.96341	30 KM/Hr	104.81 km

	Risk Type	Risk Level	Coordinates	Speed Limit	Distance from Start
24	Turn	High	26.39353, 83.96406	15 KM/Hr	105.12 km
25	Turn	Medium	26.39221, 83.97214	30 KM/Hr	105.95 km
26	Turn	High	26.39231, 83.97261	15 KM/Hr	106.06 km
27	Turn	Medium	26.39570, 83.97398	30 KM/Hr	106.36 km
28	Turn	High	26.39640, 83.97484	15 KM/Hr	106.55 km
29	Turn	Medium	26.39698, 83.99125	30 KM/Hr	108.17 km
30	Turn	Medium	26.40203, 83.99698	30 KM/Hr	108.93 km
31	Turn	Medium	26.39655, 84.01752	30 KM/Hr	111.17 km
32	Turn	Medium	26.39572, 84.02164	30 KM/Hr	111.51 km
33	Turn	High	26.39373, 84.02398	15 KM/Hr	111.89 km
34	Turn	Medium	26.39517, 84.02814	30 KM/Hr	112.38 km
35	Turn	High	26.39292, 84.03811	15 KM/Hr	113.45 km
36	Turn	High	26.38961, 84.03768	15 KM/Hr	113.73 km
37	Turn	Medium	26.38744, 84.04964	30 KM/Hr	114.91 km
38	Turn	Medium	26.38786, 84.05106	30 KM/Hr	115.19 km
39	Turn	Medium	26.38144, 84.08069	30 KM/Hr	118.28 km
40	Turn	Medium	26.38174, 84.08226	30 KM/Hr	118.39 km
41	Turn	Medium	26.37589, 84.11291	30 KM/Hr	121.60 km
42	Turn	High	26.37453, 84.11932	15 KM/Hr	122.24 km
43	Turn	Medium	26.36906, 84.12273	30 KM/Hr	122.93 km
44	Turn	Medium	26.36109, 84.13791	30 KM/Hr	124.45 km
45	Blind Spot	Blind Spot	26.34958, 84.15797	10 KM/Hr	127.17 km
46	Turn	High	26.33580, 84.15597	15 KM/Hr	128.71 km
47	Turn	Medium	26.33546, 84.15754	30 KM/Hr	128.94 km
48	Turn	High	26.33539, 84.15763	15 KM/Hr	128.98 km
49	Turn	High	26.33449, 84.15749	15 KM/Hr	129.04 km
50	Turn	High	26.33160, 84.16696	15 KM/Hr	129.93 km
51	Turn	High	26.33008, 84.16738	15 KM/Hr	130.18 km
52	Turn	High	26.32938, 84.16913	15 KM/Hr	130.43 km

Emergency Locations

Found: 4 hospital(s)

	type	name	coordinates	speed_limit	risk_level	Distance from Start
0	hospital	Prakash Hospital	26.6957341, 83.4807387	30 km/h	Medium	33.90 km
3	hospital	K D Hospital, Deoria	26.4826171, 83.7821031	30 km/h	Medium	72.99 km
2	hospital	Sanjeevani Hospital, Deoria	26.4796329, 83.780432	30 km/h	Medium	73.90 km
4	hospital	Government Hospital Bhingari Bazar	26.3809947, 84.0841238	30 km/h	Medium	118.66 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	68.69 km

Route Photos of Risky Spots



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 2.13 km

Coordinates: 26.75126, 83.22476



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 4.19 km

Coordinates: 26.75377, 83.20465



Risk Type: Roundabout

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 8.07 km

Coordinates: 26.74681, 83.25111



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 33.05 km

Coordinates: 26.69652, 83.47508



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 33.14 km

Coordinates: 26.69741, 83.47552



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Risk Type: U-Turn**Risk Level:** High**Speed Limit:** 10 KM/Hr**Distance from Start:** 33.33 km**Coordinates:** 26.698439, 83.4747268

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Risk Type: Blind Spot**Risk Level:** Blind Spot**Speed Limit:** 10 KM/Hr**Distance from Start:** 33.33 km**Coordinates:** 26.69857, 83.47481



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Risk Type: Blind Spot**Risk Level:** Blind Spot**Speed Limit:** 10 KM/Hr**Distance from Start:** 92.34 km**Coordinates:** 26.34743, 83.87294

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Risk Type: Turn**Risk Level:** Medium**Speed Limit:** 30 KM/Hr**Distance from Start:** 100.87 km**Coordinates:** 26.37250, 83.94176



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 101.21 km

Coordinates: 26.37501, 83.94448



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 103.20 km

Coordinates: 26.39141, 83.94694



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 103.91 km

Coordinates: 26.38936, 83.95501



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 104.81 km

Coordinates: 26.39205, 83.96341



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Risk Type: Turn**Risk Level:** High**Speed Limit:** 15 KM/Hr**Distance from Start:** 105.12 km**Coordinates:** 26.39353, 83.96406

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Risk Type: Turn**Risk Level:** Medium**Speed Limit:** 30 KM/Hr**Distance from Start:** 105.95 km**Coordinates:** 26.39221, 83.97214



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 106.06 km

Coordinates: 26.39231, 83.97261



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 106.36 km

Coordinates: 26.39570, 83.97398



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Risk Type: Turn**Risk Level:** High**Speed Limit:** 15 KM/Hr**Distance from Start:** 106.55 km**Coordinates:** 26.39640, 83.97484

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Risk Type: Turn**Risk Level:** Medium**Speed Limit:** 30 KM/Hr**Distance from Start:** 108.17 km**Coordinates:** 26.39698, 83.99125



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Risk Type: Turn**Risk Level:** Medium**Speed Limit:** 30 KM/Hr**Distance from Start:** 108.93 km**Coordinates:** 26.40203, 83.99698

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Risk Type: Turn**Risk Level:** Medium**Speed Limit:** 30 KM/Hr**Distance from Start:** 111.17 km**Coordinates:** 26.39655, 84.01752



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 111.51 km

Coordinates: 26.39572, 84.02164



Risk Type: Turn

Risk Level: Medium

Speed Limit: 30 KM/Hr

Distance from Start: 118.39 km

Coordinates: 26.38174, 84.08226



Risk Type: Blind Spot

Risk Level: Blind Spot

Speed Limit: 10 KM/Hr

Distance from Start: 127.17 km

Coordinates: 26.34958, 84.15797



Risk Type: Turn

Risk Level: High

Speed Limit: 15 KM/Hr

Distance from Start: 128.71 km

Coordinates: 26.33580, 84.15597

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