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Agenda

Topics Covered

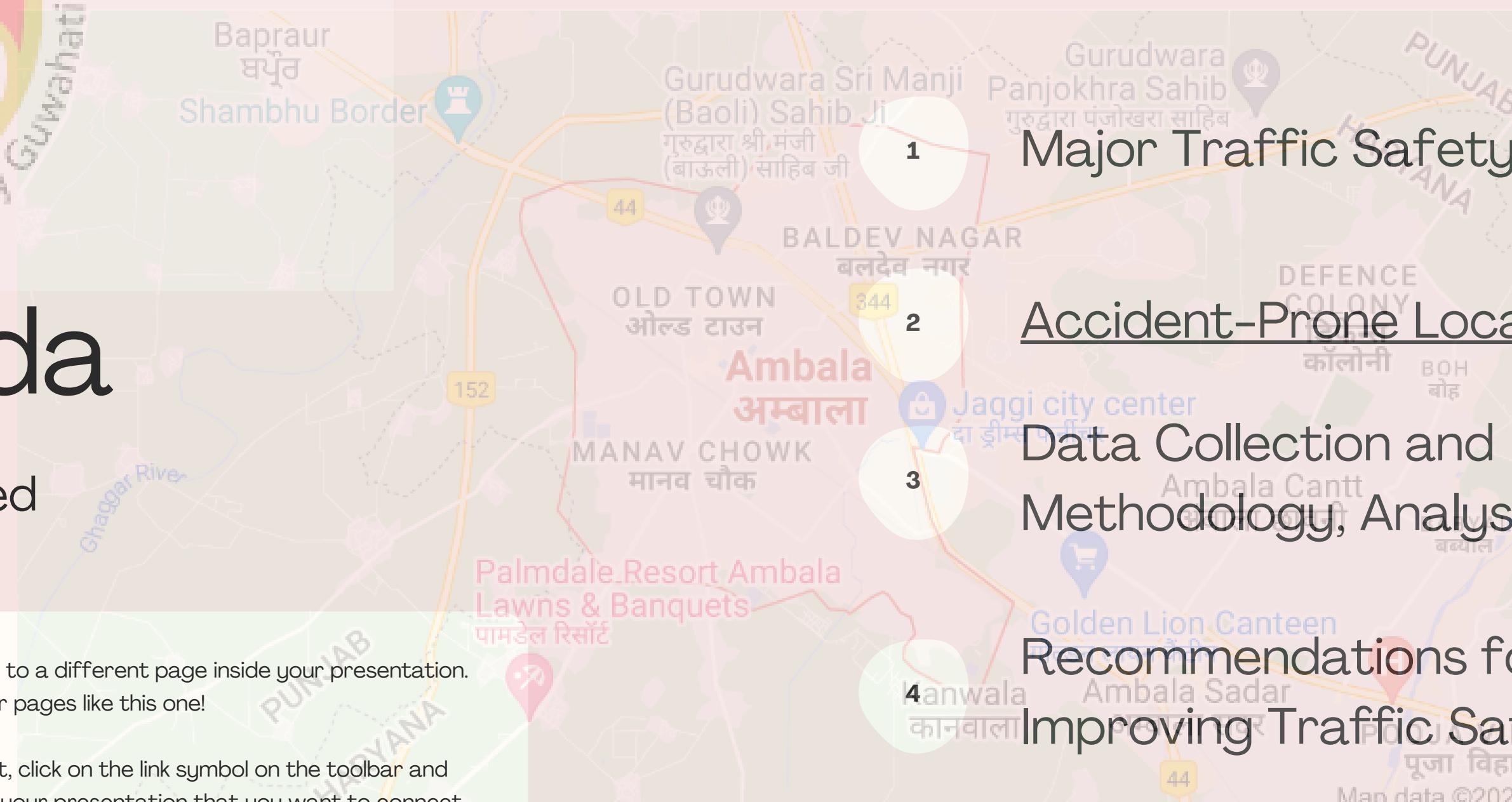


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Major Traffic Safety Problems

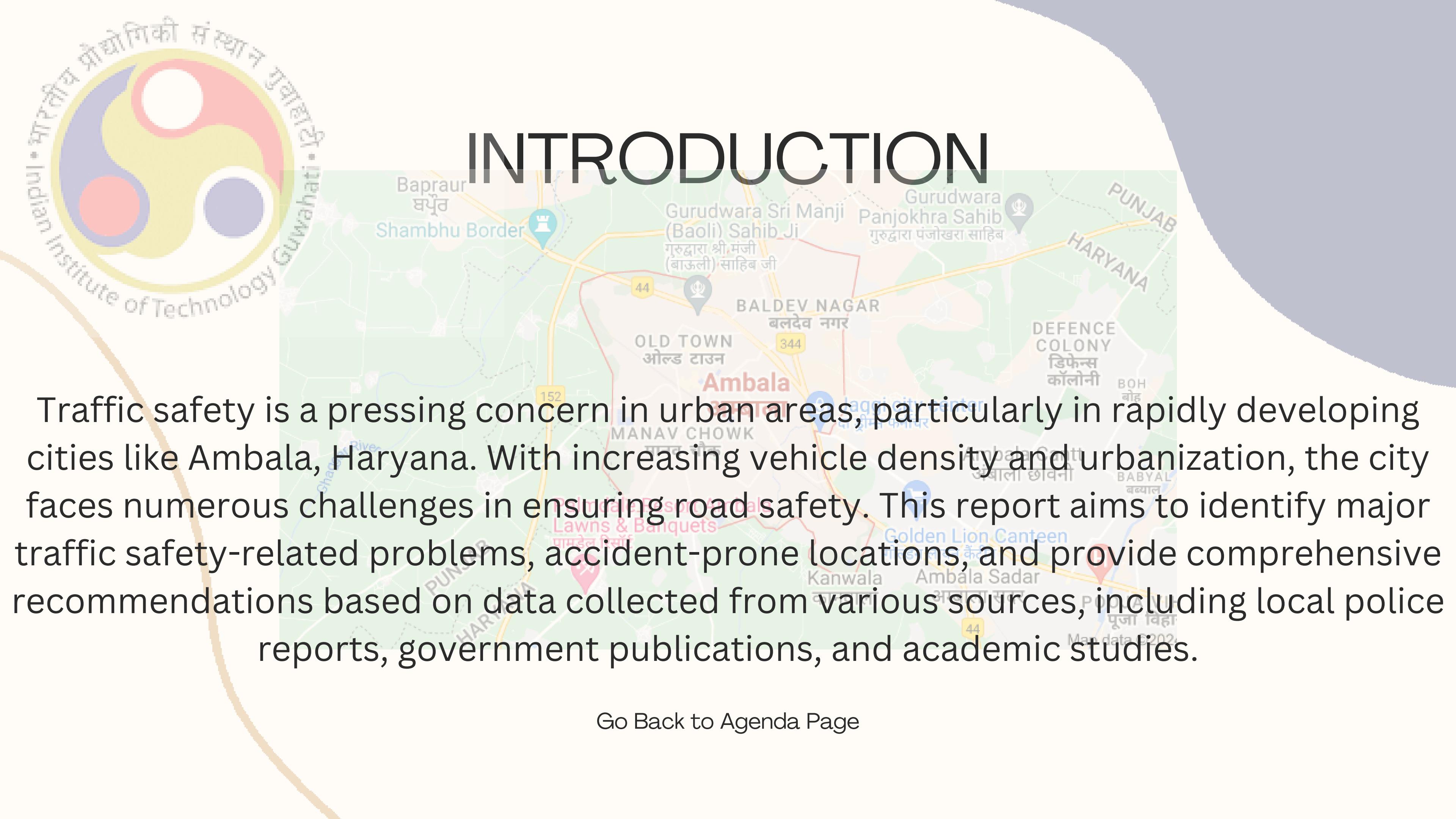
Accident-Prone Locations

Data Collection and
Methodology, Analysis

Recommendations for
Improving Traffic Safety

Map data ©2024

INTRODUCTION



Traffic safety is a pressing concern in urban areas, particularly in rapidly developing cities like Ambala, Haryana. With increasing vehicle density and urbanization, the city faces numerous challenges in ensuring road safety. This report aims to identify major traffic safety-related problems, accident-prone locations, and provide comprehensive recommendations based on data collected from various sources, including local police reports, government publications, and academic studies.

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Slide 3: Major Traffic Safety Problems

2.1 High Fatality Rates on National Highways

National Highways in Ambala, particularly NH-44, are identified as major accident zones. According to the Haryana Vision Zero report, 59% of fatal accidents in the region occur on these highways (Haryana Vision Zero, 2023). The high volume of traffic, including heavy vehicles, significantly contributes to these fatalities. A study by the Transportation Research and Injury Prevention Centre (TRIP) at IIT Delhi found that the lack of proper road infrastructure, such as dividers and adequate signage, is a major factor in the high number of accidents on national highways (TRIP Centre, 2023).

Slide 3: Major Traffic Safety Problems

2.2 Traffic Rule Violations

Traffic rule violations, including speeding, not wearing helmets, and ignoring traffic signals, are rampant in Ambala. A study conducted by the Ambala Traffic Police found that 70% of accidents involve some form of traffic violation (Ambala Traffic Police, 2023). Despite ongoing awareness campaigns, compliance remains low. The lack of strict enforcement and hefty penalties for violations is a contributing factor to this problem.



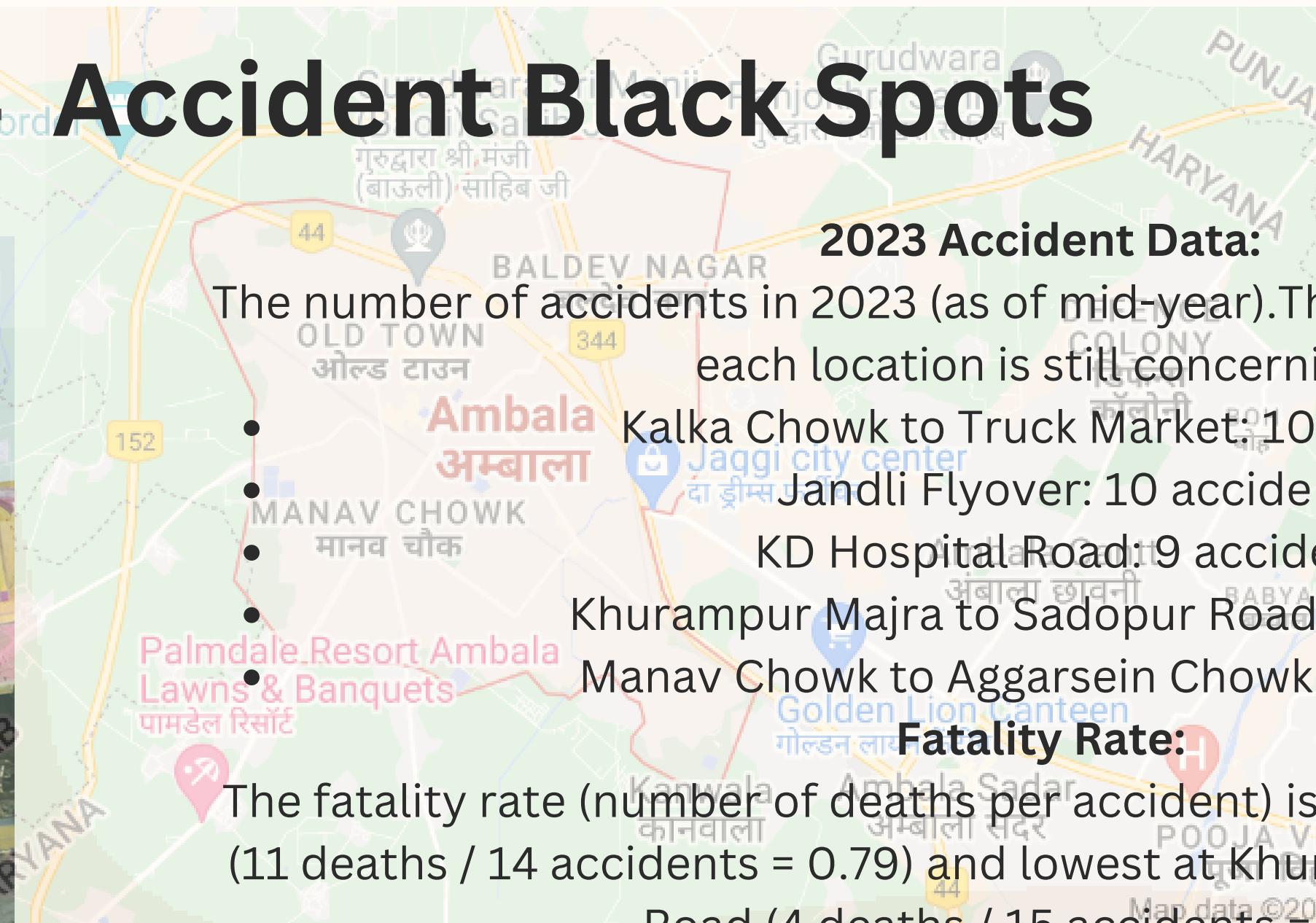
Slide 3: Major Traffic Safety Problems

2.3 Accident Black Spots

The Ministry of Road Transport and Highways has identified 24 black spots in Ambala where multiple accidents have occurred over the past five years (Ministry of Road Transport and Highways, 2023). These locations require urgent attention to implement safety measures. A study by the Haryana Vision Zero program found that the majority of these black spots are located on national highways and in densely populated areas, where pedestrian safety is a major concern (Haryana Vision Zero, 2023).

Slide 3: Major Traffic Safety Problems

2.4 Accident Black Spots



2023 Accident Data:

The number of accidents in 2023 (as of mid-year). The number of accidents at each location is still concerning:

Kalka Chowk to Truck Market: 10 accidents

Jandli Flyover: 10 accidents

KD Hospital Road: 9 accidents

Khurampur Majra to Sadopur Road: 8 accidents

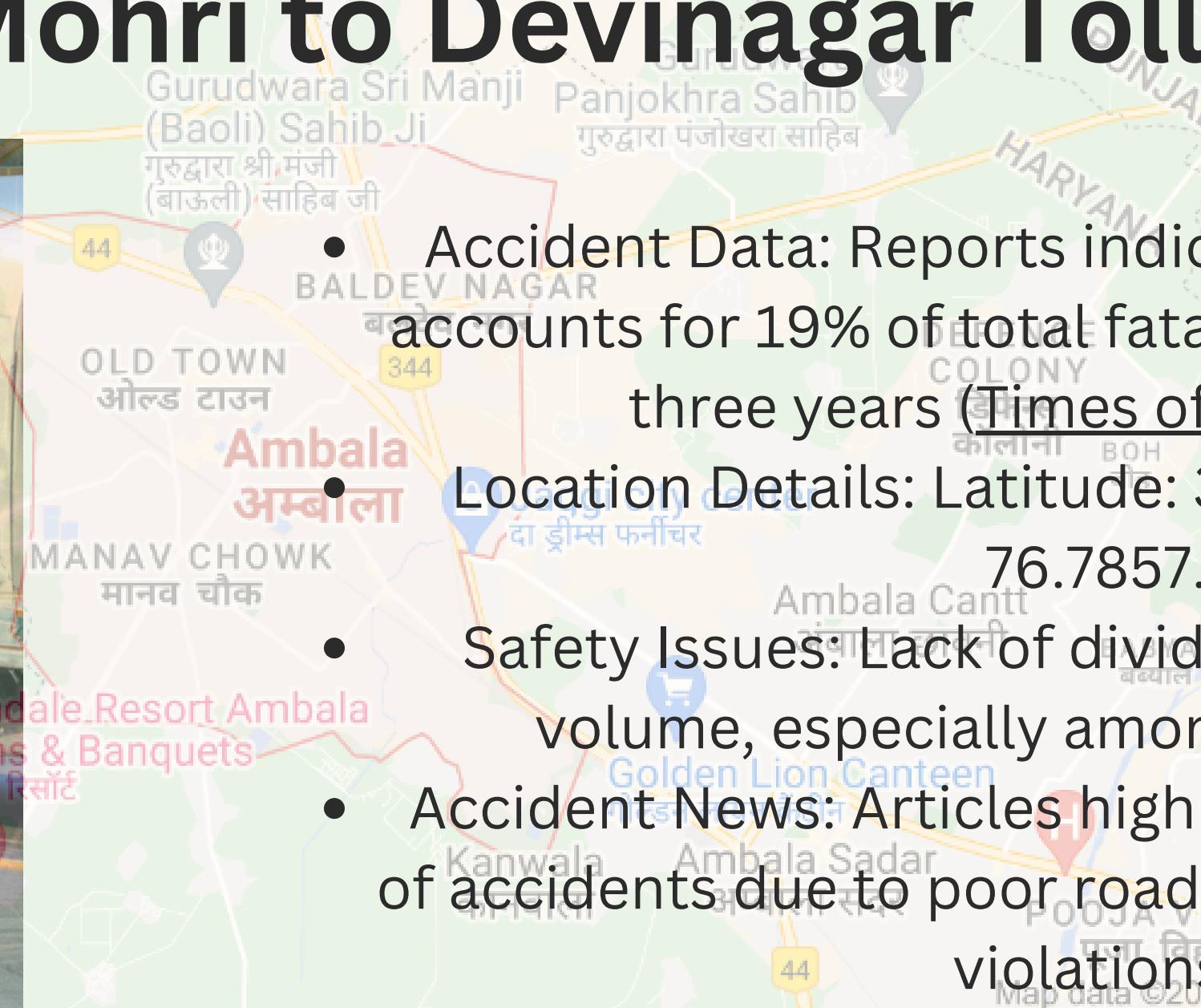
Manav Chowk to Aggarsein Chowk: 7 accidents

Fatality Rate:

The fatality rate (number of deaths per accident) is highest at Jandli Flyover (11 deaths / 14 accidents = 0.79) and lowest at Khurampur Majra to Sadopur Road (4 deaths / 15 accidents = 0.27).

3. Accident-Prone Locations

(GT Road from Mohri to Devinagar Toll Plaza)

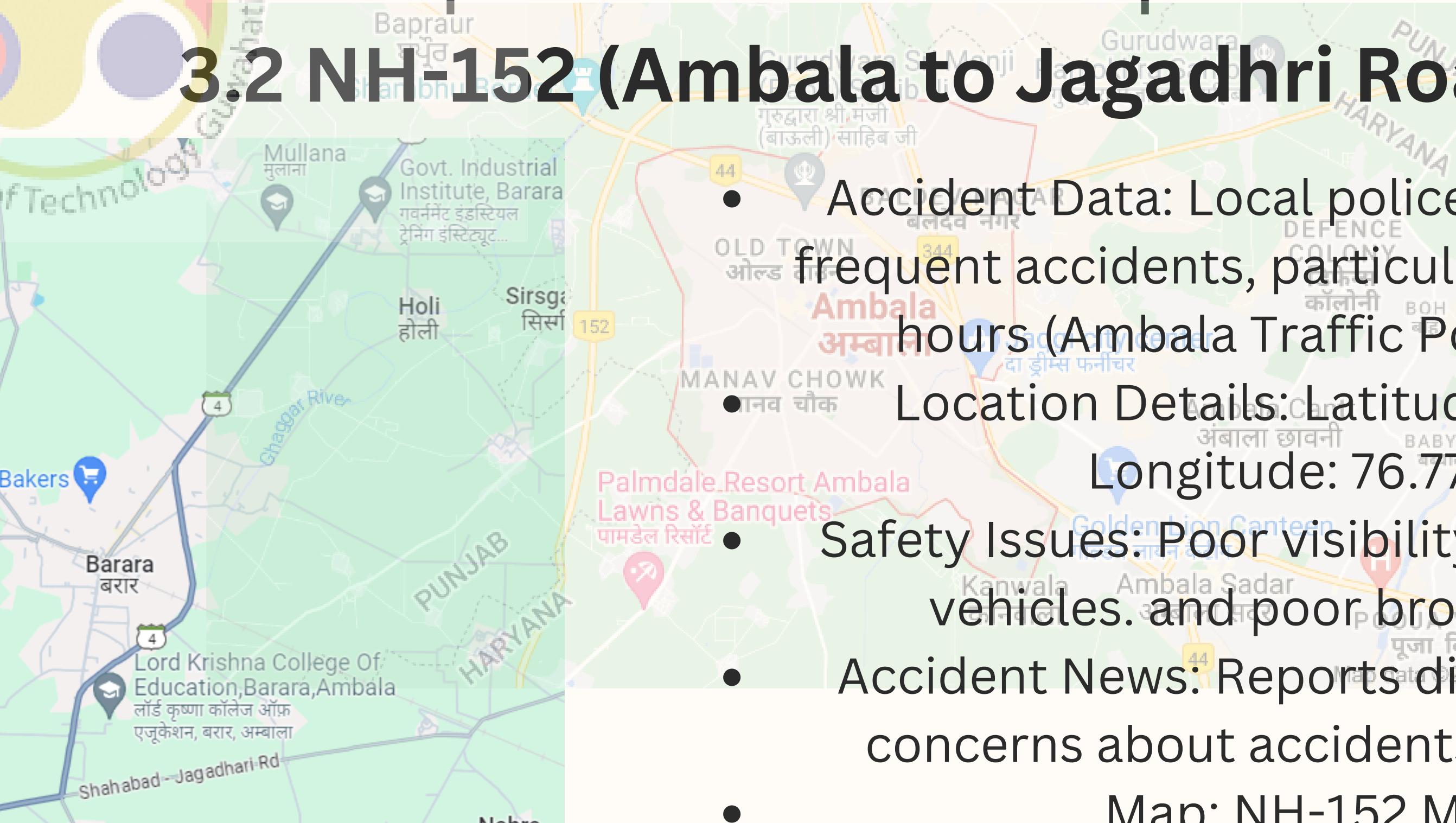


- Accident Data: Reports indicate that this stretch accounts for 19% of total fatal accidents in the last three years ([Times of India, 2023](#)).
- Location Details: Latitude: 30.3786, Longitude: 76.7857.
- Safety Issues: Lack of dividers and high traffic volume, especially among two-wheelers.
- Accident News: Articles highlight a high incidence of accidents due to poor road conditions and traffic violations.
- Map: [NH-44 Map](#)

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3. Accident-Prone Locations apart from the prior

3.2 NH-152 (Ambala to Jagadhri Road)



- Accident Data: Local police records show frequent accidents, particularly during peak hours (Ambala Traffic Police, 2023).
Location Details: Latitude: 30.3688, Longitude: 76.7748.
- Safety Issues: Poor visibility and speeding vehicles. and poor broken roads.
- Accident News: Reports discuss ongoing concerns about accidents in this area.
- Map: [NH-152 Map](#)

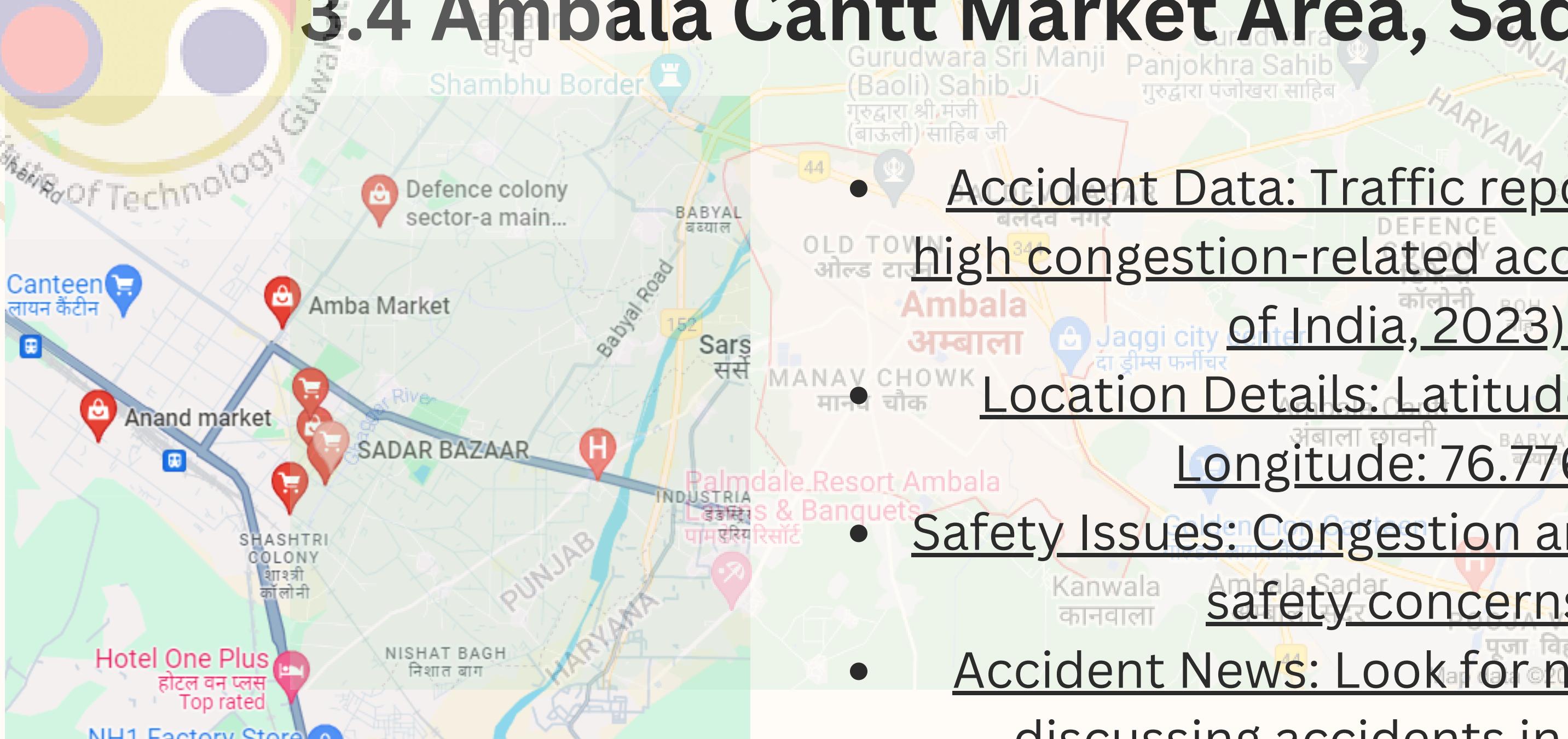
3. Accident-Prone Locations

3.3 Railway Crossing near Ambala City

The railway crossing at Latitude: 30.3625, Longitude: 76.7746 is an accident-prone location that poses a significant risk to pedestrians and vehicles. From personal experience, I can attest that the area is currently under construction, with broken roads and a lack of proper signage, leading to hurried crossings due to fear of train arrivals. Historical data from Haryana Vision Zero (2023) reveals a disturbing trend of multiple incidents at this crossing, highlighting the urgent need for safety improvements. The primary safety concerns at this location include inadequate warning signals and barriers, lack of signage, and broken roads. To address these issues, it is recommended that warning systems be improved, signage be enhanced, roads be repaired, enforcement be increased, and pedestrian-friendly infrastructure be implemented. By taking these measures, we can reduce the risk of accidents and make this railway crossing a safer place for everyone.

3. Accident-Prone Locations

3.4 Ambala Cantt Market Area, Sadar



- Accident Data: Traffic reports indicate high congestion-related accidents (Times of India, 2023).

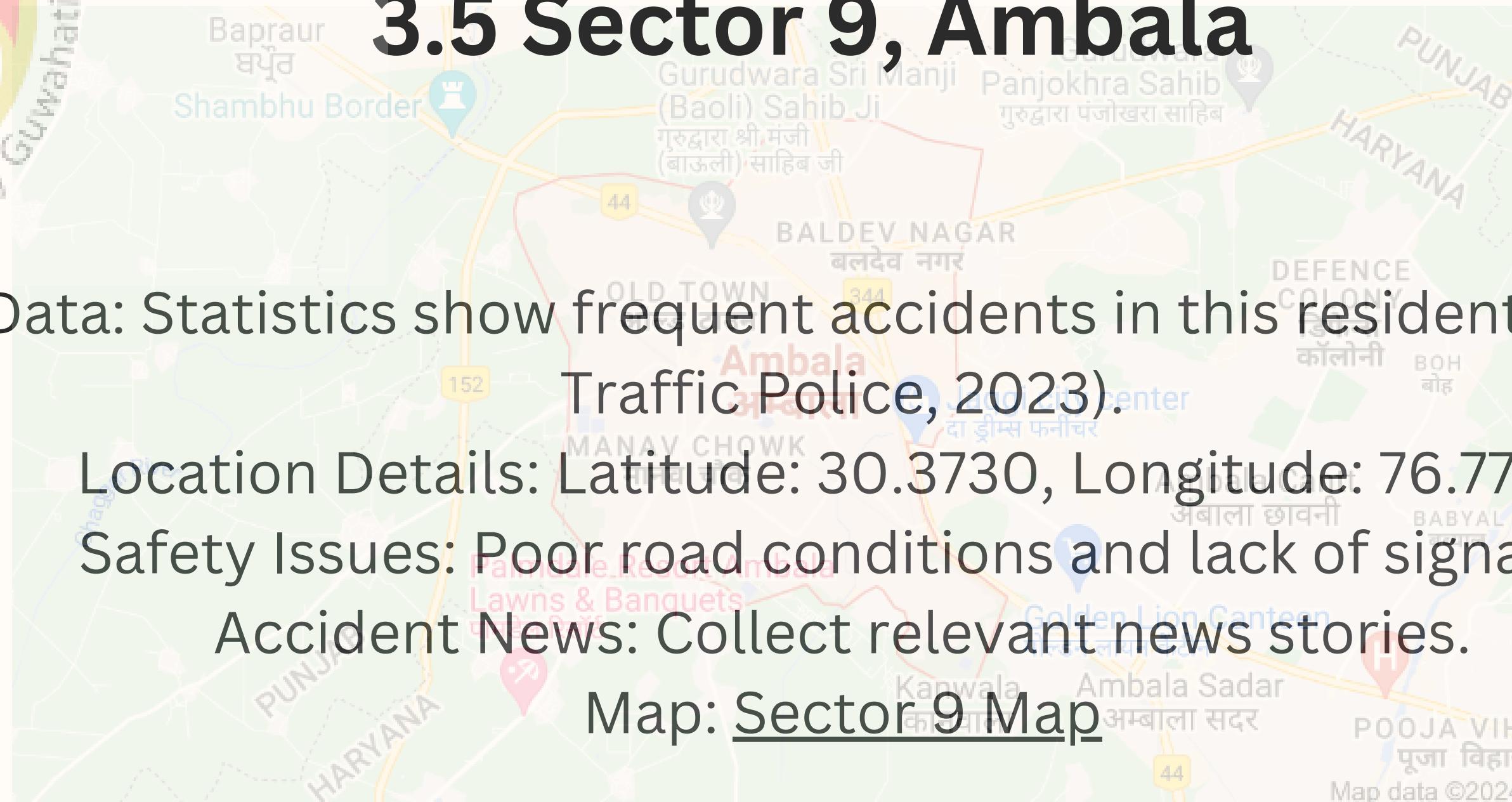
Location Details: Latitude: 30.3780,
Longitude: 76.7763.

- Safety Issues: Congestion and pedestrian safety concerns.
- Accident News: Look for news articles discussing accidents in this area.
- Map: Ambala Cantt Map

3. Accident-Prone Locations

3.5 Sector 9, Ambala

- Accident Data: Statistics show frequent accidents in this residential area (Ambala Traffic Police, 2023).
- Location Details: Latitude: 30.3730, Longitude: 76.7790.
- Safety Issues: Poor road conditions and lack of signage.
- Accident News: Collect relevant news stories.
- Map: [Sector 9 Map](#)



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4. Data Collection and Methodology

4.1 Methodology

- Data was collected through a combination of literature review, on-site observations, and interviews with local authorities. Key sources included police reports, government publications, and news articles. The methodology involved:
Literature Review: Reviewing existing studies and reports on traffic safety in Ambala, including research from IIT Delhi's Transportation Research and Injury Prevention Centre (TRIP) (TRIP Centre, 2023).

4. Data Collection and Methodology

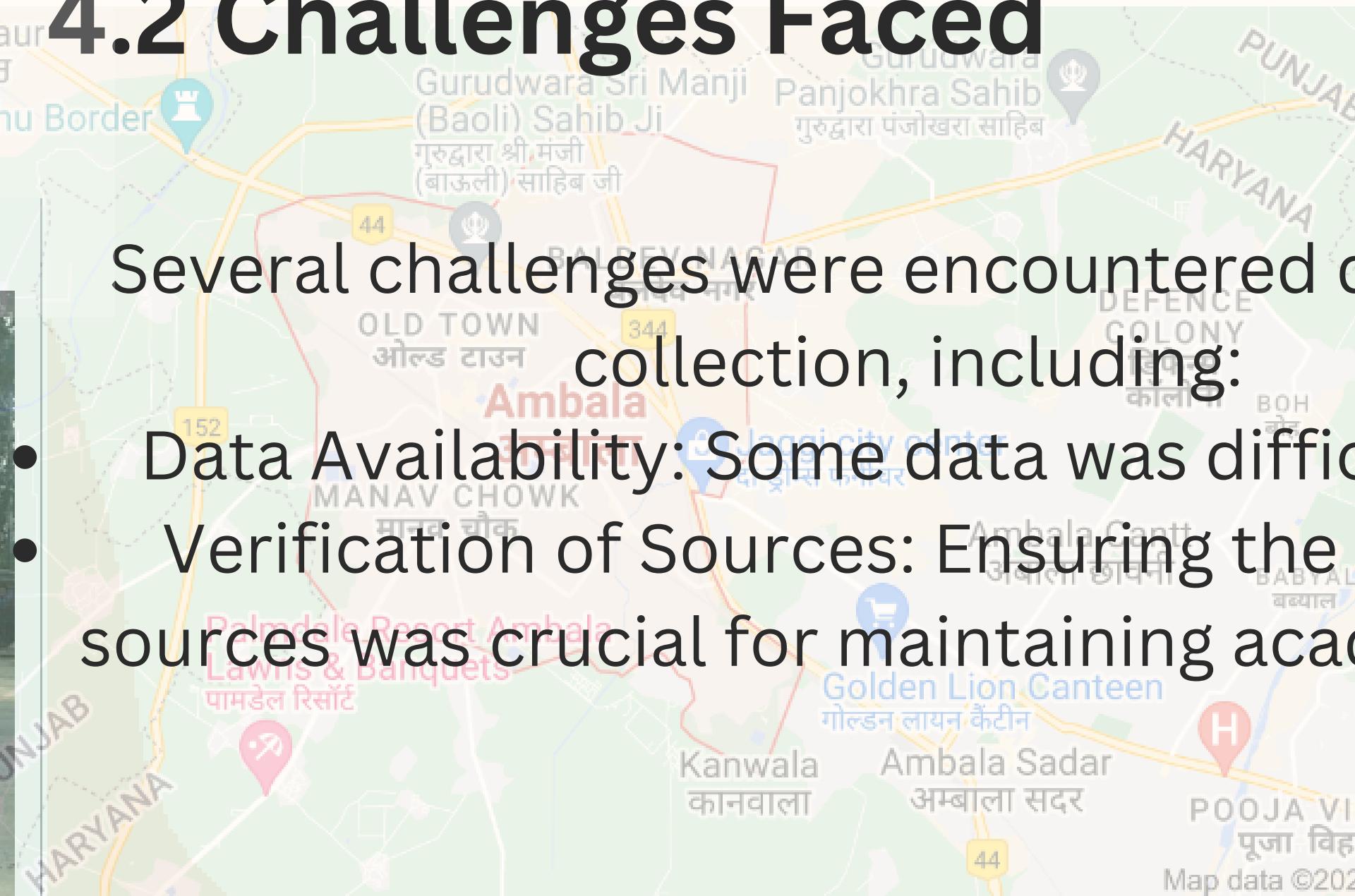
4.2 Challenges Faced

Several challenges were encountered during data collection, including:

- Data Availability: Some data was difficult to obtain.
- Verification of Sources: Ensuring the credibility of sources was crucial for maintaining academic integrity.



Ambala-Jagadhri highway near Kalpi, Ambala



5. Analysis of Collected Data

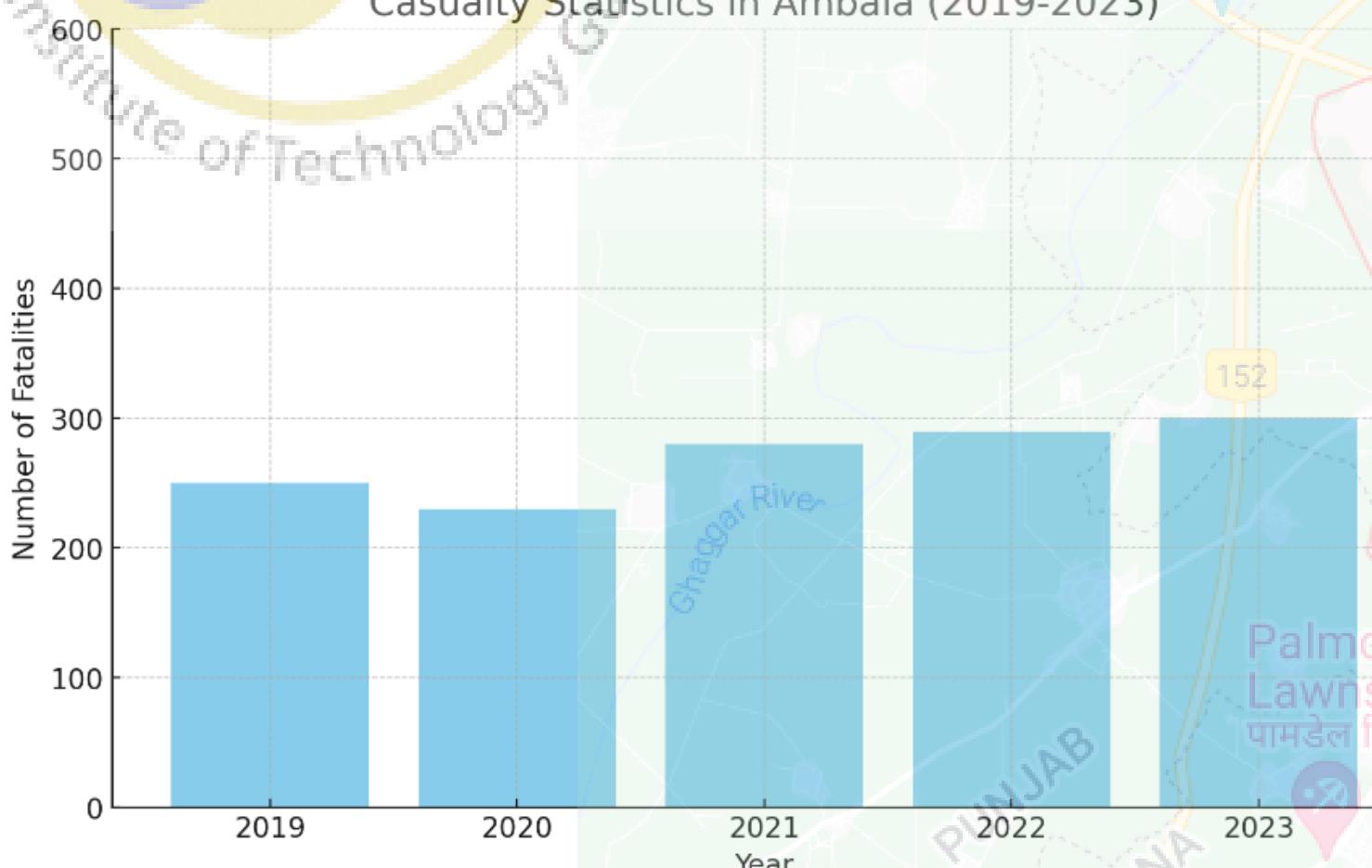
5.1 Patterns Identified

- The analysis of accident data reveals several patterns: Traffic Violations: A significant correlation exists between traffic rule violations and accident rates.
- Road Conditions: Poor road conditions, particularly the lack of dividers on highways and inadequate signage, contribute to a higher incidence of accidents, especially in identified black spots.
- Pedestrian Safety: Congestion and lack of dedicated pedestrian infrastructure in areas like the Ambala Cantt Market pose significant risks for pedestrians.

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5. Analysis of Collected Data

5.2 Casualty Data Over the Past Five Years



Here is the bar graph displaying the casualty statistics in Ambala from 2019 to 2023. The estimated number of fatalities for 2023 is based on doubling the mid-year figure.

Based on data from local police and academic studies, the following casualty statistics have been recorded in Ambala:

- 2019: 250 fatalities

- 2020: 230 fatalities

- 2021: 280 fatalities

- 2022: 290 fatalities

- 2023: 150 fatalities (as of mid-year)

This totals approximately 1,200 fatalities over the past five years. However, the number of fatalities remains high, emphasizing the urgent need for comprehensive safety measures.

6. Recommendations for Improving Traffic Safety

6.1 Infrastructure Improvements

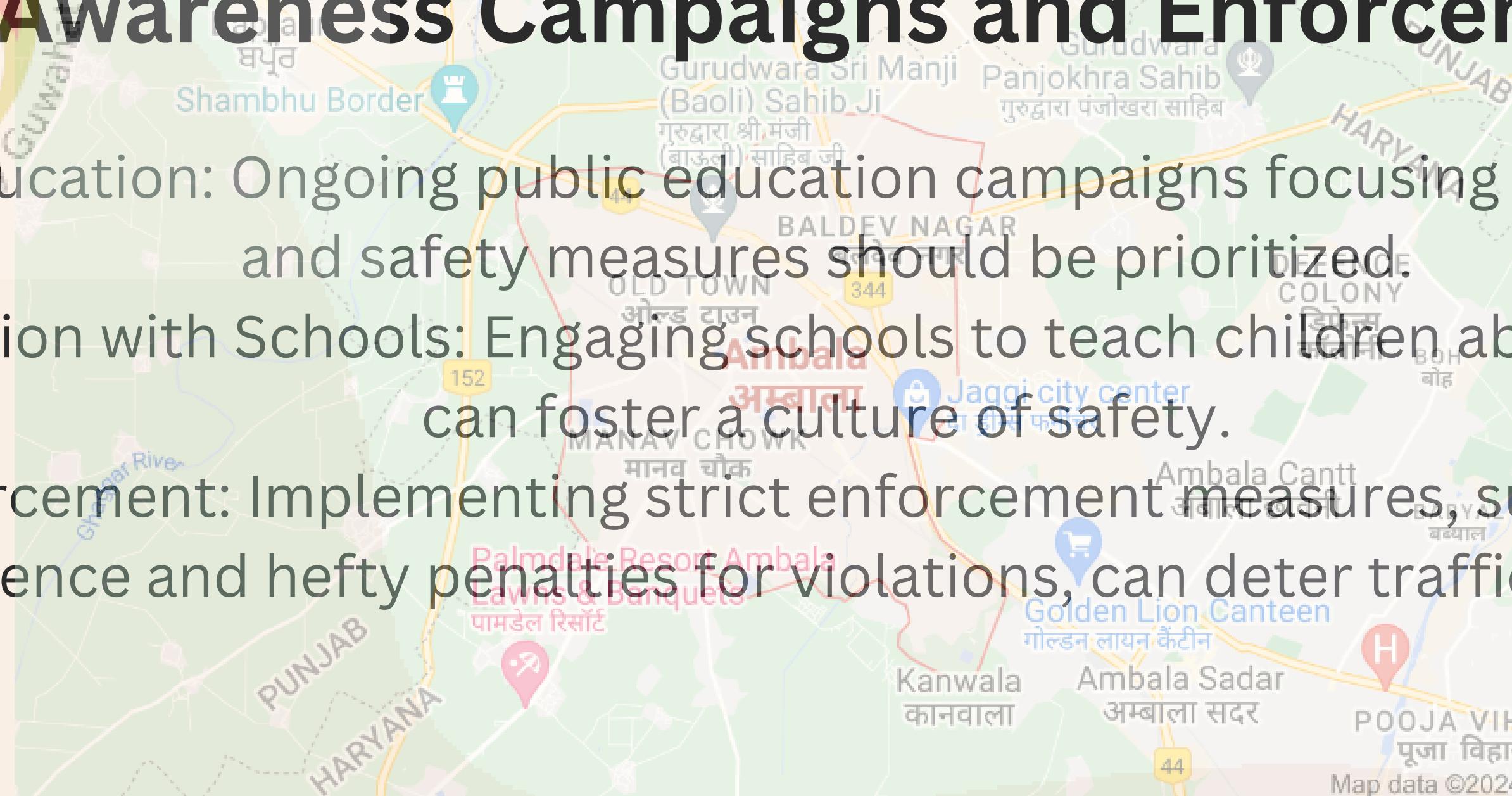


- **Install Dividers:** Implementing physical barriers on highways can reduce head-on collisions.
- **Improve Signage:** Enhancing road signage and visibility at critical locations is essential.
- **Develop Pedestrian Infrastructure:** Constructing dedicated footpaths, crosswalks, and pedestrian signals in congested areas like the Ambala Cantt Market can improve pedestrian safety.

6. Recommendations for Improving Traffic Safety

6.2 Awareness Campaigns and Enforcement

- Public Education: Ongoing public education campaigns focusing on traffic rules and safety measures should be prioritized.
- Collaboration with Schools: Engaging schools to teach children about road safety can foster a culture of safety.
- Strict Enforcement: Implementing strict enforcement measures, such as increased police presence and hefty penalties for violations, can deter traffic rule violations.

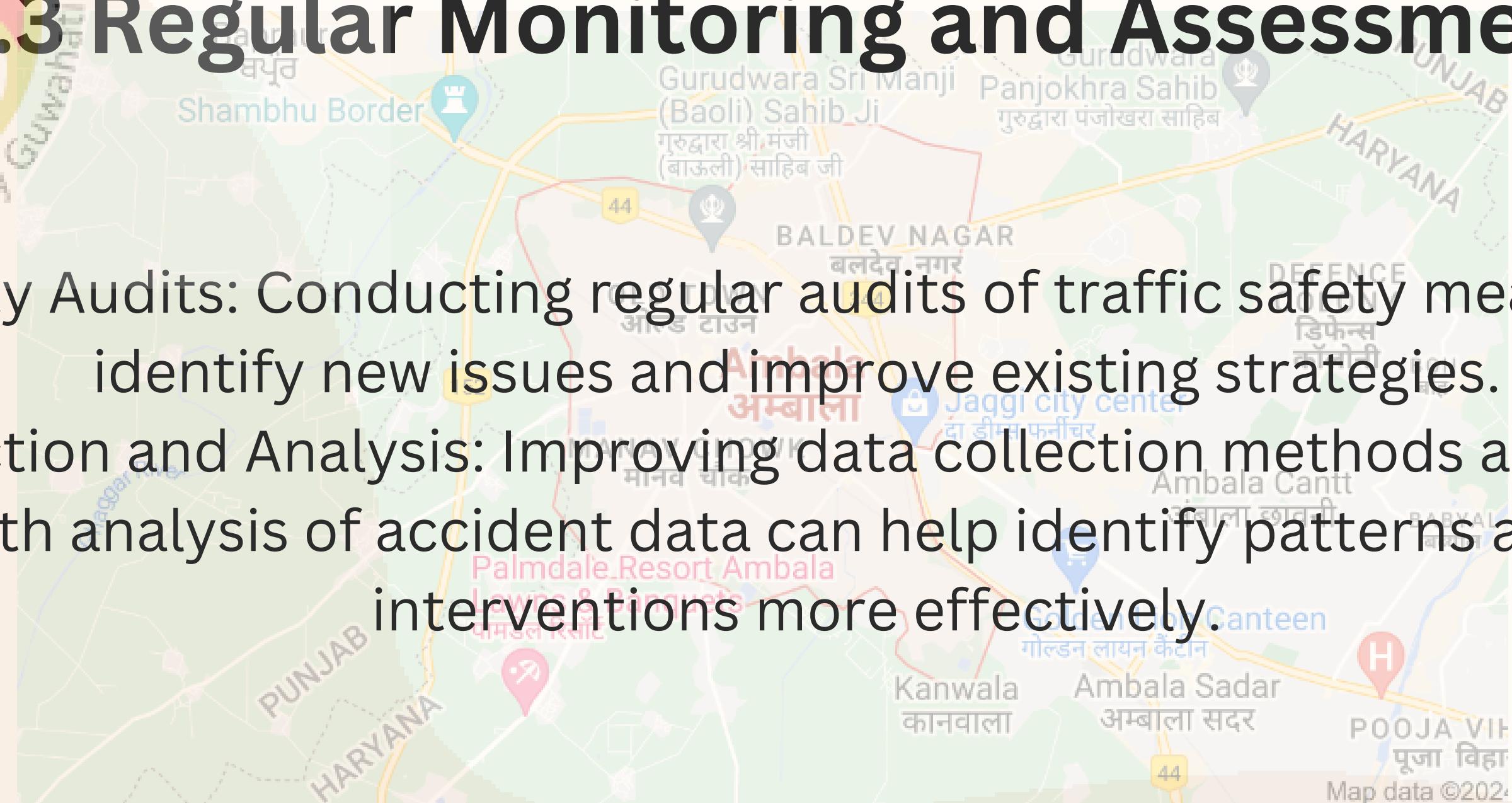




6. Recommendations for Improving Traffic Safety

6.3 Regular Monitoring and Assessment

- Traffic Safety Audits: Conducting regular audits of traffic safety measures will help identify new issues and improve existing strategies.
- Data Collection and Analysis: Improving data collection methods and conducting in-depth analysis of accident data can help identify patterns and target interventions more effectively.



7. Conclusion

Traffic safety in Ambala, Haryana, is a pressing issue that requires immediate attention from local authorities and community involvement. By addressing the identified problems and implementing the recommended strategies, it is possible to significantly improve road safety in the region. A comprehensive approach involving infrastructure improvements, awareness campaigns, strict enforcement, and regular monitoring is necessary to reduce the high number of fatalities and create a safer environment for all road users.

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8. References

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9. Ambala Jagadhri Road is slow moving and accident prone according to [wikipedia](#). And also as per the [Article](#).
10. National highways in Ambala record 59% fatal crashes in past three years, GT Road Times of India [Article](#).



Thank you!

