

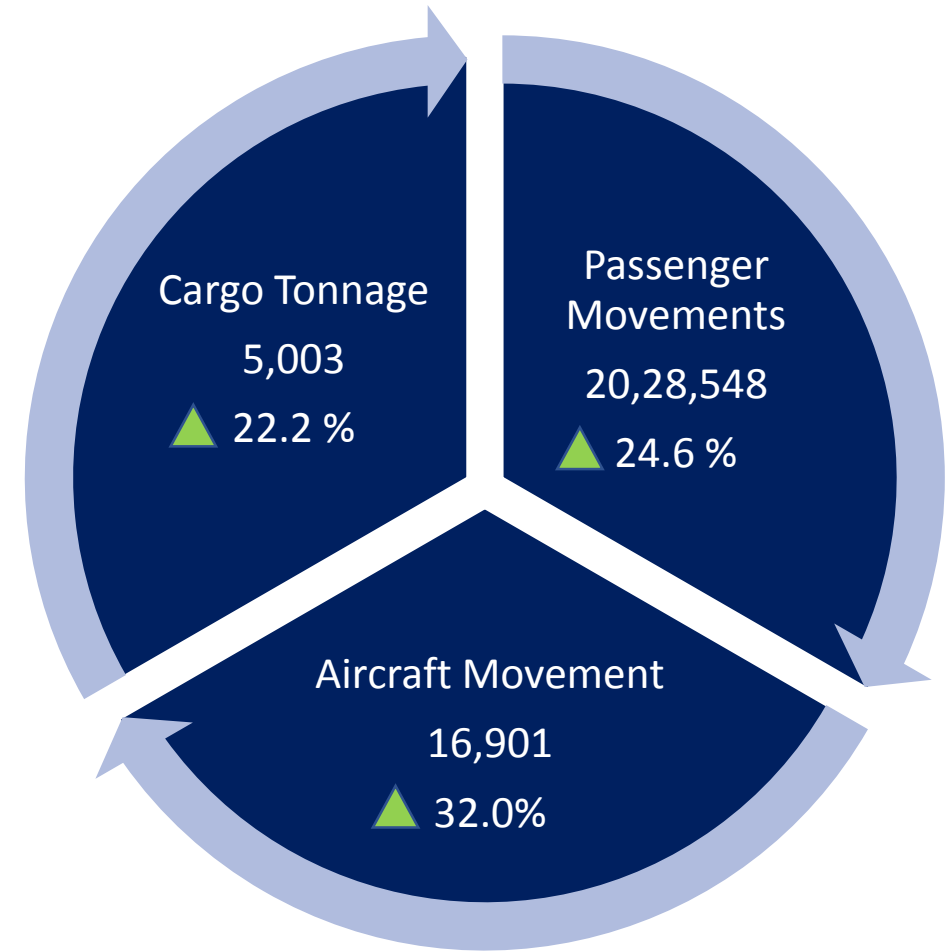
A nighttime photograph of Raipur Airport Road. The image shows a wide road with several cars parked or moving. In the background, a large, modern airport terminal with a complex, white, lattice-like roof structure is visible. The sky is dark, and the scene is illuminated by streetlights and the terminal's lights. The overall tone is blue and dark.

Road Safety Analysis of Raipur Airport Road

STATE URBAN DEVELOPMENT AGENCY, CHHATTISGARH

An Overview

- Swami Vivekananda Airport, formerly known as Raipur Airport , is the primary and the only domestic airport serving the state of Chhattisgarh, India.
- The airport is located at Mana between Raipur (15 km (9.3 mi)) and Naya Raipur 10 km (6.2 mi).
- It is the **29th busiest airport** in India by passenger traffic and 32nd busiest by aircraft movement.
- It is designed to handle **1300 passengers** at a time, including 400 international passengers.
- Currently it operates **25 flights daily** with a passenger load of 5558 passengers per day and the count is **rising @ 25% per annum**.
- The total length of Road which the survey was conducted is **9.1 Km**, also known as VIP Road.



Statistics from April 2018- March 2019

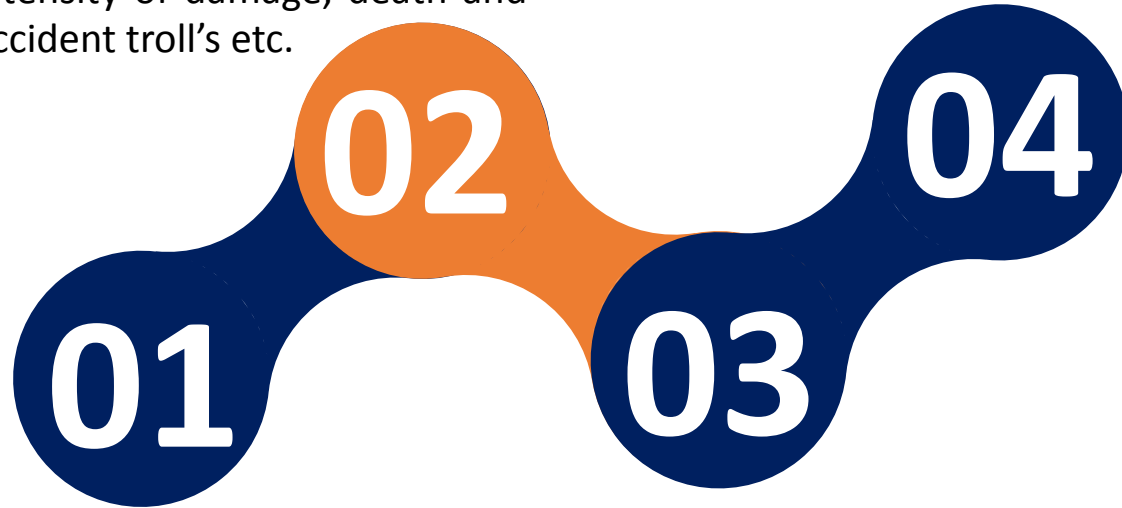
Objectives of the Analysis

Crash Data Analysis

Its main objective is to analyze the causes leading to crash of vehicles, types of collision, intensity of damage, death and accident toll's etc.

Road Comforts and Safe User Characteristics

The main objective behind analyzing the Road Safety Analysis is Safety and user comforts. This indicator would measure the safety and comfort of the travelers



Safety Deficiencies in Road Construction

It aims at extracting the root causes for faulty construction practices leading to discomfort of the road users and major causes of accidents.

Road Side Plantation and Street Furniture

Identification of vulnerable plantation spots that have/might lead to mishap while using the road



Data Analysed

Location of the accident

Public/Commercial Buildings

Number of injuries

Vehicle data

Accident cause

Sketch of the accident situation

Statements of witnesses

Date and time of day

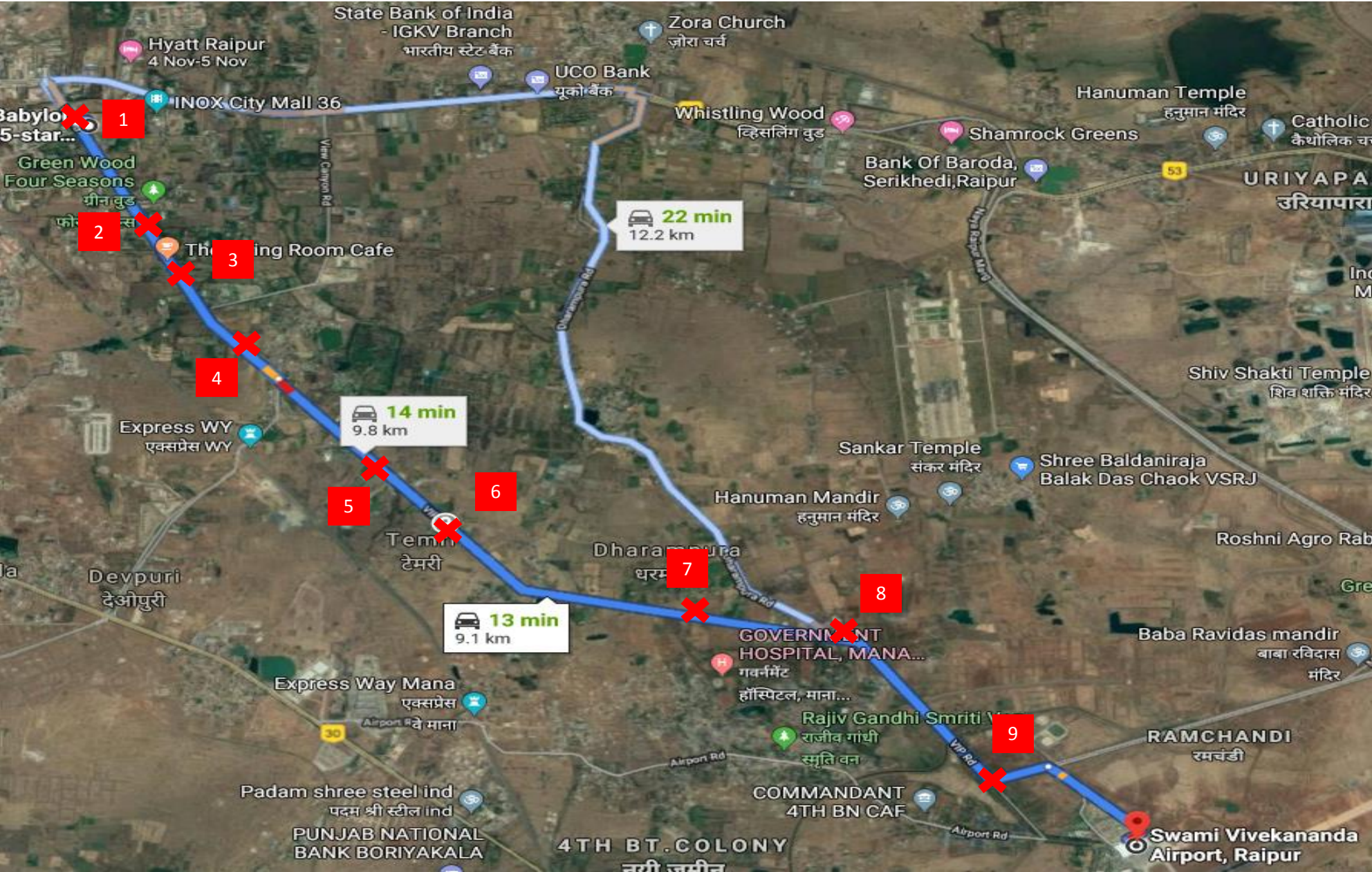
Collision type

Road type and condition

Weather and visibility

Particulars	Description
1. Type of Road	Bituminous road 1 Way- 2 Lane(Towards Airport)- 2 Way- 1 Lane Road each- 2 Roads
2. Function of Road	Traffic Conveyance - LMV
3. No. of Public Commercial Buildings	
• Marriage Palaces/Hotels Restaurants	11
• Offices	2
• Resorts	6
• Schools	2
• Others (temples, water bodies etc.)	4
4. Speed Limit	80 Kmph
5. Number of Intersections	3
6. Number of Road Side Vendors	15
7. No. of Lay-bays along the entire road length	0
8. Peak Volume of Traffic	558 PCU/hr
9. Identified Critical Zones	Phundar Chowk
10. Name of Water Logging areas	Near Mana Training Centre

Spatial Map-Conflict Points



(Latitude, Longitude)

1. 21.235409, 81.681167
2. 21.229178, 81.684809
3. 21.224023, 81.687735
4. 21.218262, 81.692571
5. 21.211105, 81.699466
6. 21.203777, 81.706300
7. 21.202397, 81.712829
8. 21.200500, 81.722771
9. 21.190556, 81.732273

Crash Analysis Data

Number of Accidents
Reported (in last 1 year):12

Number of Deaths
Reported (in last 1
year): 3 +15

Number of Injuries
Reported(in last 1
year): 20

Number of Animal
deaths reported(in
last 1 year): 19

Number of Crash
Spots (in last 1
year): 5

Name of zone with
maximum number
of Crash Spots:
Phundhar Chowk

Sr No	Information	Peak Time of Accidents	Total Accidents	Injuries (Persons)	Deaths Reported
1.	Car Accidents with Street Animals	8:00 PM to 2:00 AM	13	5	3 Human 15 Animals
2.	Car Accidents with Car	8:00 PM to 2:00 AM	2	5	None
3.	Car Accidents with Pedestrian	6:00 PM to 11:00 PM	3	3	None
4.	Two Wheeler Accidents with Street Animals	6:00 PM to 11:00 PM	4	7	None
5.	HMV with Street Animals	11:00 PM to 4:00 AM	5	0	4 Animals

Photographic Evidences (1/2)



Photographic Evidences (2/2)



Safety Measures and Recommendations



1.LIDAR Gun

2.Light Detection and Ranging Gun



.Speed Indication Display



Introduction of proper signage



Proper Railing / Site safety railing to prevent entry of animals



Safety Mirrors



Enforcement and maintenance



रायपुर

VIP रोड से
एयरपोर्ट जा रहा
था जवान



/IBC24news

में कार और बाइक की टक्कर

inh



BREAKING
NEWS

रायपुर: कार ने बाइ

21 : 21

में ए विजन केबल में चैनल नंबर 383 पर INH देख सकते हैं

A grayscale photograph of a paved path leading through a wooded area. The path is flanked by a low concrete wall on the left and a metal railing on the right. Large trees with dense foliage are visible on the right side, casting shadows on the path. The background shows more trees and a clear sky. A dark blue banner is overlaid across the center of the image, containing the text "Thank You" in white.

Thank You