

ROAD ACCIDENTS: PREVENTION AND CONTROL STRATEGIES

¹GAUTHAMAN P

¹Civil Engineering Department , Prist University, Pondicherry
 Email: ¹gauthamacad25@gmail.com

Abstract: There are considerable level of road accidents in India, and the same is recorded, analyzed and should be prevented for future cause to certain limits. Collection of road accident data is inevitable as it requires accurate level of information needed for further process. Road Safety Audit is a good measure for reducing accidents level. This paper deals with road accidents and its influence on future prospects.

Keywords: Road Safety Audit, Accident prevention

3. ACCIDENT REPORTING FORM

1. INTRODUCTION

Over 1, 37,000 people were killed in road accidents in 2013 alone that is more than the number of people killed in all our wars put together¹. The above line illustrates the need of hour to study the accident as an important factor which governs the traffic stability of the system. It not only affects the injured person but to the other personalities involved among the traffic system. So many parameters are involved in a road accident, and the same should be curbed to minimum or zero level. Without accidents in a country is a dream, and it requires overall support from all levels. So objective should be how to deal with accidents and converting fatal level to injury alone would encourage the planners and other statutory bodies undertaking. Tamil Nadu is the state with the maximum number of road crash injuries. Another Statement which should not be neglected and solid measures to be taken to avoid such crash injuries.

2. FACTORS GOVERNING ROAD SAFETY

There are many factors which governs Road Safety. Geometric Design of the Road is an important parameter which influences Road Safety such as providing lighting during night time, Provide markings for pedestrian crossings. Accidents mostly occur during night time, and Geometric Design aspects should be designed based upon night driving conditions also. Establishment of a quality data base at the primary level requires improving the quality of police recording system. In countries like India, the police or the traffic police, if it exists as a separate entity, does not have the resources or the level of training required to carry out a systematic collection of data as it is done in many high income countries³.

Accident Reporting Form (IRC)					
Particulars	State	City	Police		
Location	Name	Location	Intersection		
Date	Date	Day	Month	Year	
Light	Daylight	Twilight	Dark Hours		
Weather	Fine	Cloudy	Light rain		
Classification	Fatal	Minor	Non-injury		
Type of Vehicle	Registration number	Year of Manufacture			
Nature	Overtaking	Head on collision	Right angled	Skidding	Others
Details of drivers	Name	Sex	Age	Education	
Details of Pedestrians	Male/female	Age			
Road Condition	Horizontal Features of road	Vertical Features of road	Type of surfaces	Condition of surface	
Traffic	One way street	Speed Restrictions	Parking Prohibited		
Cause	Fault of driver	Defect in road	Stray animal	Other causes	

Table 1: Accident Reporting form

4 CONTROL AND PREVENTIVE MEASURES

4.1 Emergency Accident Relief Centres (EARC)

It provides immediate medical attention to the accident victims on major highways at a gap of 50 km on all the National Highways in the Tamil Nadu State. These centres can be conducted by dialing the toll free number 1033 from any landline phone near the accident spot. A fully equipped ambulance with a trained paramedic is always in operation⁵. If any sign of accident is fatal as seen by the passers, they could call emergency number and prevent any loss of human death. In certain critical areas, the kilometer stretch should be minimized or maximum number of vehicles has to be deployed for operation.

4.2 Emergency Management Services (EMS)

Some of the schemes of EMS are discussed here. First One hour are the golden hour in emergencies. According to the statistics of world bank report, about 95 percentage of the accidents occurred due to human error, which open the eye of many to prosecute, plan and emerge in preventing human error, which could prevent being involved in accident happening. Wearing helmet is one option to save lives, but many of the people don't wear helmets during driving, which should be made at least during driving on National Highways.

5. ROAD SAFETY AUDIT

RSA are a tool where the safety performance, design and operation of roadways and intersections are examined by an independent multi-disciplinary team, and short-term, usually low-cost mitigating improvements or strategies are identified and suggested for implementation⁶

6 CONCLUSIONS

So it is of prime importance on the study and impact of accident happening and it should be prevented for future occurrence. Future Scope is to minimize accidents to a considerable limit, where the driving conditions are shown with better characteristics. All forms of traffic users should feel safety in future developments

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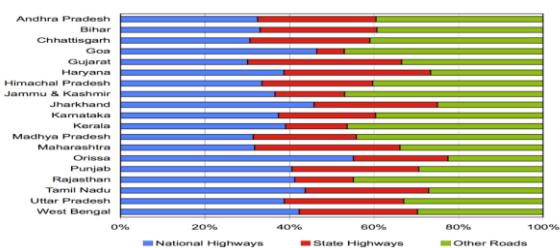


Figure 1 Different State fatal rate percentage