



## Road Transportation : “A Journey from mass mobiliser to Mass killer”

Miss Pradnaya V. Dseshpande

Dr. Avinash V. Talmale

### **Abstract**

*Recent emerging life taking Tsunami on Road surface is nothing but Road Accidents. SDG 9 committed for Resilient infrastructure, but owing to Increasing Rate of Road accident has putting serious question mark on Resiliency of our Roads? During 2019 69.3% of Road accident victims are from category of Adult age group of 18-45 Yrs. It create serious concern for analysis of Road accidents from cause effect perspective. This paper provide descriptive analysis for Road accident and further way forward.*

### **Key Words :**

*Resilient infrastructure, Road accident victims, Tsunami, sustainable Development Goal 9.*

### **Introduction :**

One of the most sacrocent Infrastructure for any Nation is Road Infrastructure. But when pot holes in Roads are Getting saturated with blood of human Resources, i.e., adult victims of Road accidents then it will create serious concern for a Nation. In the Era of globalisation Road Infrastructure is panacea for all problems like : Poverty, Unemployment, Infunt mortality Rate, life standard, education enrollment, farmers distress etc. But when such pancea will convert into life taking wheapon, then it's correct time Now to take a Minute out of our busy life and thing about it. Because Road Accidents not just take life of the people, it affect many people associated with victims. In Some case victims may be bread winners for a household, at such instance it affect livelihood of dependents.

Road Traffic accidents accounts to be lossed of 2% countries GDP. (Ref.- 4). In India it is conflicting situation that, vehicles growth Rate are more than the population Growth, and Number of Insurance are also higher for vehicles and not for humans. Now a days thinking perspective of human being are becoming more economical one than social perspective. This paper will provide Descriptive analysis of Road Accidents from cause-effect perspective using secondary data from available sources.

### **Literature Review :**

As Globalisation Increases, Number of motorized vehicle Goes on Increasing even at Higher Rate than population Growth. Urbanisation process Demand worthy Transport Infrastructure and when public Transport are not able to prove its efficiency people opted for are of personalised vehicle.

There are several Reasons for Road accidents i.e., ineffective Urban planning, inefficient designing of Roads. Cognitive ability of Driver, irregular maintains of vehicle, Improper functioning of Traffic Signals etc. If all this causes addressed during policy formulation stage then we can ensured safely of our precious human Resources.

In his article explain Road Accident scenario for Maharashtra. Which explain causes of Road Accident and emphasised more on human error. Perspective human carelessness, Not wearing seatbelt, Not wearing Helmets was of central There.. .it Detailed analyses RTA for Maharashtra and provide suggestions for them (Ref.1)

While Analysing cost associated with Road Traffic accident it put the fact at forefront “Cost Recorded for Road traffic accidents amounted to INR 935.5 Million in 2015, Which was 0.09% of

Nagpur city's GDP” It analyses the major Reason behind Accident are, inefficiency in service, provide by public Transport buses – ultimately which leads into increasing crowd of personalised vehicle on Road. (Rf. 4)

**Methodology :**

It is Descriptive study of casuse – effect for Road Traffic accident and further providing way forward. Thus Secondary Data Used for Analysis i.e. available from literature Review, Research Articles and websites, Basic Road statistics of Govt. Of Maharashtra etc.

**Objective :**

1. To investigate causes of Road Accident.
2. To investigate effect of Road accidents.
3. To provide way forward for Situation of Road accident.

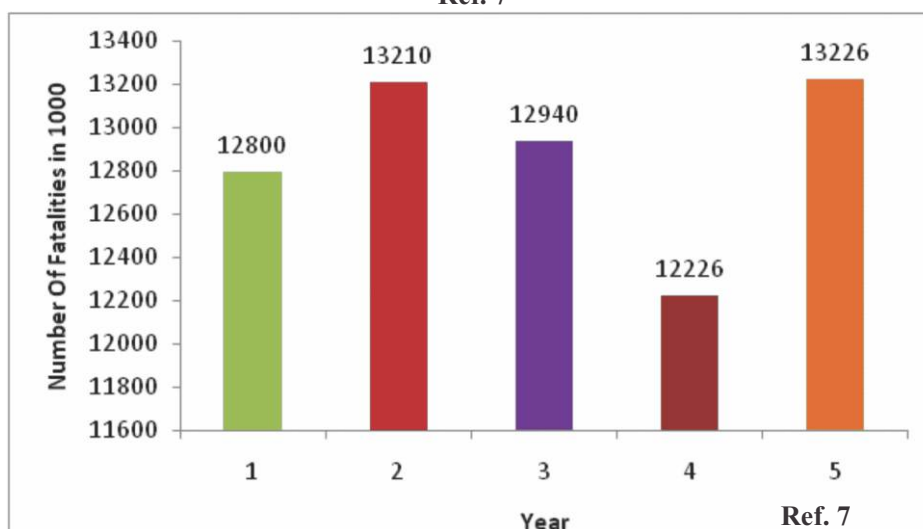
**Maharashtra Road Accident Scenario :**

In the Race of people killed in Road accident Maharashtra stood 4th (Rf. 1) Recording twice Rate of Road accident comparing with India for Year 2018 number of Death's Registered due to Road Traffic accidents, across Indian state of Maharashtra were 13 thousand. Over-speeding of vehicle Reported as main cause behind this Traffic crashes have been major source of Death, injury, and Damaged to property every year (Rf. 7)

**Number of People Killed in Road, Accident across Maharashtra in India  
From 2014 to 2018 in (1000)**

Sr. No.	Year	Number of Fatalities in 1000
1	2014	12.8
2	2015	13.21
3	2016	12.94
4	2017	12.26
5	2018	13.26

Ref. 7



Ref. 7

### **Causes of Road Accident :**

**1. Structural Causes :**

Inefficient Designing of Road Surface include Designing of Alignment, Sharp curve, bends, Not considering super elevation poses serious threats to smoothness of Road, and create vulnerability of Road Accidents. On other side on coin-issue are attached with maintenance of Road for it there is one line “It is impossible to identify whether there is pot Holes on Road or Road in between pot Holes”. Inefficient Traffic Signals add more aesthetic to it .

**2. Cognitive ability of Driver :**

Cognitive abilities of driver affect its perception time during driving. Many a time Driver found of unsound mind or Drunken stage. Its not only Threat for his life but for others also.

**3. Awareness Among People :**

Many a time people are not aware about socio-economic cost associated with Traffic accidents. They are simply unaware of Traffic, Rules- Regulations and in such scenario it create effects of sliding cards i.e. when one card slide down it automatically push other to slide. People are Driving even without taking licenses by adopting “Jugad” Methodology.

**4. Administrative Causes :**

RTO is Agency which issues license for Drivers. There is Real problem lies while issuing license. When Nodol officer is not able to cancel the license, just for few packet of money then who else dare to talk infront of him. Corruption & basic parrot Test method for issuing Driving license is major Threat for RTA from Administrative side.

**5. Careless Attitude of people :**

Casual attitude towards wearing seat belt, wearing Helmet, Maintaining speed limit, Driving without license, even Driving before completing Age of 16 Years, Not following Traffic signals all are explicit cause of Road Accident.

**6. Inefficiency of public Transport :**

The frequency and availability of public transport is a major Reason for problem of Road accident it suddenly Increases uses of Motorised personal vehicle which create crowd on Roads and ultimately leading into crashes.

**7. Inefficiency of feeder services in between destination and public Transport station :**

It causes serious occasion for people to choose for personal motorised vehicle when they found lack of feeder service availability between destination and public Transportation station.

### **Effects of Road Traffic Accident :**

1. Social effect : Road accident not just taking life it simultaneously take livelihood of many who associated with victims. If the victims is bread winners for a family then there is loss from dependents side. It may Rise to poverty unemployment etc.

2. Structural Effect : Road accident are occurred on Road surface thus it. Damaged public property surrounding it. And even some time it block Traffic for Hours which hampered efficiency of Roads.

3. Economic Effect : The economy for a nation not just Run by Physical Resources available with it, but infact that physical Resource achieved its True value when used by human Resources. Road Accidents taking life of Human Resources is serious Threats for economy of a Region.

4. Criminal Effect : Road accident an event is not just a crash between two vehicle but its an collision of two people in which one is victim, from here felling of Revenge may be inculcate

- in his mind. Which may be proven future threat to communal Harmony for Region.
5. Environmental Effects : Disposal waste is already concerning issue for a Region and accident event add another waste in it. Waste Generated out of accident i.e. body parts of vehicles, pieces of glass etc. Create extra burden of solid plastic waste which is Threat to environment.
  6. Accident may lead to another accident : In a region when small accident happen, it takes attentions of many while passing through Roads. And this may lead to collision of that person with another one, and activity take cyclist nature.
  7. Judicial Effect : Already our judiciary are known for pendency of cases and accident events add more aesthetic into it. Increasing number of accident cases create extra burden on judiciary side.

**Way forwards :**

- Efficient designing of Roads (i.e.laying alignment, sharp bends, curves, considering super elevation) Proven to be panacea for all problem associated with RTA.
- For awareness concern strict implementation of recently introduce of motor vehicle amendment Bill.
- Creating social awareness using social media Application.
- Increase Insurance coverage for humans at par with vehicles.
- Using modern Intelligent Traffic signaling system.
- Strict provision for issuing Driving license.
- To avoid collision in peak hours :
  1. Not allowed traffic in front of school only pedestrian will allowed in front of schools during peak Hours.
  2. Provide more alternate Routes for Traffic during peak Hours.
  3. Put extra administrative mechanism for ensuring Traffic control during peak hours.
- Availability of efficient health services, Ambulances facility during Golden hours.
- Soft Inquiry for a person who take accident victim into Hospitals. Otherwise No one will be Ready to take victim into Hospital.
- To Reduce Judicial burden of pendency of cases provide Arbitration mechanism out of court itself.
- Transparent bidding/ Tendering process for ensuring long Term maintainance & efficient structure of Roads.
- Arrange Cognitive seminars for people who have driving as their profession.

**Conclusion :**

To avoid loss of precious human resources we should, understand cause and effect of Road accidents. Designing of Road , implementation of policy, social awareness will be panacea for problems of road Traffic accident. It's a Right time now we should think of it before we losted another human precious life. in short....

“Stop accidents Before they stop You” (Ref. HOWNWHYS.COM)

**References**

1. T. R. Sawant “An Article of Road Accident Causes in Sangli, District of Maharashtra”
2. Atnafu, Baye and Gagandeep Kaur, “Analysis and predict the Nature of Road Accident using Data mining Techniques in Maharashtra India” Int J eng. Technol sci res (IJE TSR) 4.10 (2017): 1153-1162.
3. Bhagyaiah, M., and B shrinagesh. “Traffic analysis and Road Accident a case study of

Miss Pradnaya V. Dseshpande, Dr. Avinash V. Talmale

- Hyderabad using GIS.” IOP conference series: Earth and environmental science. Vol. 20. No. 1 IOP publishing 2014.
4. Bora, Bhaswati, Vishrut Landge, and Bahuguna Dalai, “Socio-economic costing of Road Traffic accident : Evidence from Nagpur city Maharashtra, India” Current science 114.6 (2018) 1275.
  5. Rathi, Romil. “Road Traffic accident- burden on society.” EC orthopedics 9 (2018) : 30-33.
  6. Kohale, Neha D., S.L. Bankar, and nikita S. Bagde, “Road accidents and its social and economical effects.” International Journal of mechanical Engineering and Robotic Research. 3.2 (2014):480.

**\*Miss Pradnaya V. Dseshpande**  
Research scholar, Net JRF  
Department of Geography,  
V.N.G.I.A.S.S.

**\*\*Dr. Avinash V. Talmale**  
Guide/ Supervisor  
Assistant Prof. V.N.G.I.A.S.S.