



इंस्टीट्यूशन ऑफ सेफ्टी इंजीनियर्स (इंडिया)

INSTITUTION OF SAFETY ENGINEERS (INDIA)

(Formerly Run Under ZJEW Trust & Regd. Under Section 8 of Companies Act 2013 MCA & Govt. of India)

"AIM TO PREVENT ACCIDENT, PROTECT ENVIRONMENT + MINIMISE LOSSES DURING DISASTER"



**WELCOME**

# Webinar on **ROAD ACCIDENT PREVENTION**

**Conducted by**

Institution of Safety  
Engineers (India)

[www.iseindia.in](http://www.iseindia.in)



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MEMBERSHIP SERVICES

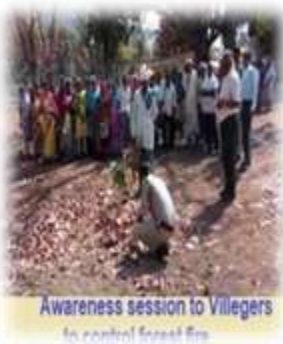
About us

JOURNAL PUBLICATION



INSTITUTION OF SAFETY ENGINEERS (INDIA)  
MEMBERSHIP

SAFETY HEALTH ENVIRONMENT RELATED  
TRAINING & SERVICES



Awareness session to Villagers  
to control forest fire



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## OUR SPEAKER

**MR. ALOK PATHAK:** HOD Safety, Gujrat  
Cement work (Unit of Ultra Tech Cement Limited),  
CEng (OH&S), SMISE, PGDIS, B.Tech, MBA,  
PGHRM, IOSH MS, LE (ISO 9001/18001/14001)  
PhD (Scholar)

**S Rampuri:** Director, Institution of Safety  
Engineers (India), CEng, M.Tech, M.I.E, A.M.I.E,  
NEBOSH-IGC, IOSH-MS, ADOSHEM, Lead Auditor  
(OHSMS, QMS, EMS, EnMS), PGHRD, PGDGC,  
OSHA-30 GIS, IOSH Train the Trainer, IDOHSEM,  
SMISE, PDIS



# Topics for discussion



# WEBINAR ON ROAD ACCIDENT PREVENTION

## ❑ Conducting webinar :

- To Safe and Sustainable Travel to promote road safety
- Create awareness among society people about road safety & traffic rules to Prevent Road related accident
- To increase awareness of the dangers encountered as a pedestrian, cyclist and passenger.
- Ensure adequate safety always to control road accident related risk





# WEBINAR ON ROAD ACCIDENT PREVENTION



सदैव सीटबेल्ट/ हेलमेट  
पहन कर ही वाहन चलाएं



**सड़क  
सुरक्षा  
सप्ताह**  
11-17 जनवरी 2023

अपने परिवार को  
**सुरक्षित** रखने के लिए,  
स्वयं को  
**सुरक्षित** रखें



**“34<sup>th</sup> Road Safety Week”**



# BACKGROUND OF NATIONAL ROAD SAFETY WEEK

- The **Ministry of Road Transport & Highways** is observing the Road Safety Week from **11 Jan.-17th 2023**, under “Swachhata Pakhwada” to propagate the cause of safer roads for all.
- The first National Road Safety Week was organized in 1989 by the National Safety Council which was established by the Ministry of Labour in 1966.
- In 2023, the National Road Safety Week is in its 34<sup>th</sup> edition.
- Theme of last year’s road safety week was ‘Sadak Suraksha - Jeevan Raksha’ to promote the cause of safer roads for all.





# Objective of “Road Safety Week Celebration”

- The aim of celebrating road safety week is to promote the road safety measures in the community, schools, colleges, workplaces, on roads and etc.
- To decrease and completely remove out the road accidents, road accident death, and injury cases to take effective safety measure
- To encourage all the travelers to follow the traffic rules and wear helmets and seat belts while driving.
- To implement the new preventive measures which are proved to lessen the risk of road accidents, death or injury.
- To aware the people about the speed limit of the vehicles to prevent road accidents.
- To maintain the speed and required distance from other vehicles
- To aware people that do not drink, do not drive when tired and do not use phones or radios while driving.



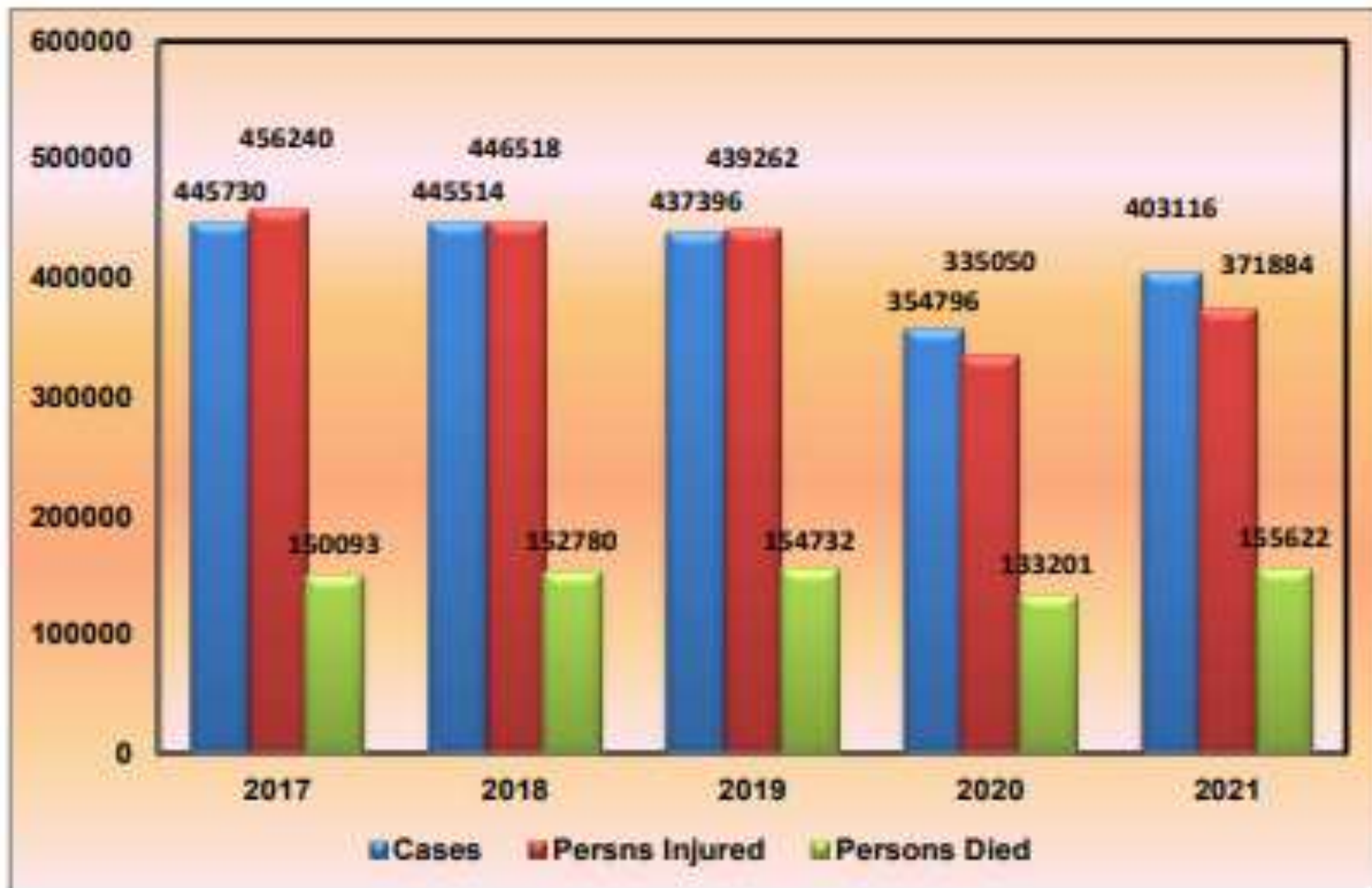
# No. & SHARE DEATH DUE TO TRAFFIC ACCIDENT DURING 2017-2021

Sl. No.	Year	Number of Accidental Deaths					Total Accidental Deaths due to 'Other Causes'	Percentage Share of 'Traffic Accidental Deaths' in Accidental Deaths due to 'Other Causes'
		Road Accidents	Railway Accidents	Railway Crossing Accidents	Total Traffic Accidents	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1	2017	1,50,093	23,959	1,534	1,75,586	3,89,441	45.1%	
2	2018	1,52,780	24,545	1,507	1,78,832	4,04,933	44.2%	
3	2019	1,54,732	24,619	1,762	1,81,113	4,12,959	43.9%	
4	2020	1,33,201	11,968	1,185	1,46,354	3,66,992	39.9%	
5	2021	1,55,622	16,431	1,807	1,73,860	3,90,404	44.5%	

• As per data provided by States/UTs.

Sources: <https://ncrb.gov.in>

# TREND OF ROAD ACCIDENT CASES, PERSONNEL INJURED & PERSONNEL DIED DURING 2017-21



• As per data provided by States/UTs.

Sources: <https://ncrb.gov.in>



# WEBINAR ON ROAD ACCIDENT PREVENTION

- Number of 'Traffic Accidents' in the country have increased from 3,68,828 in 2020 to 4,22,659 in 2021.
- The rate of deaths in road accidents per thousand vehicles has also increased from 0.45 in 2020 to 0.53 in 2021.
- Maximum increase in number of traffic accidents cases in States from 2020 to 2021 was reported in Tamil Nadu (from 46,443 to 57,090) followed by Madhya Pradesh (from 43,360 to 49,493), Uttar Pradesh (from 30,593 to 36,509), Maharashtra (from 24,908 to 30,086) and Kerala (from 27,998 to 33,051).
- These traffic accidents resulted in injuries to 3,73,884 persons and 1,73,860 deaths during 2021.

Sources: <https://ncrb.gov.in>



# WEBINAR ON ROAD ACCIDENT PREVENTION

- State of Uttar Pradesh (24,711 deaths) followed by Tamil Nadu (16,685 deaths) and Maharashtra (16,446 deaths) have reported maximum fatalities in traffic accidents in the country; these 3 States accounted for 14.2%, 9.6% and 9.5% of total deaths in traffic accidents respectively and collectively accounted for 33.3% (57,842 out of 1,73,860) of total fatalities reported at all India level during 2021.
- The percentage share of traffic accidental deaths in total deaths due to 'Other Causes' has decreased from 45.1% in 2017 to 44.5% in 2021. A rising trend was seen in total number of deaths in 'Traffic Accidents' from 2017 to 2019 with sharp decline in 2020, which has again increased in 2021 but this number in 2021 is less than that in 2017, 2018 & 2019.
- Total number of Accidental deaths have increased by 18.8% (from 1,46,354 to 1,73,860) in 2021 over 2020

[Sources: https://ncrb.gov.in](https://ncrb.gov.in)





# STATE/UT- WISE TRAFFIC ACCIDENT CASES DURING 2021



Sources: <https://ncrb.gov.in>

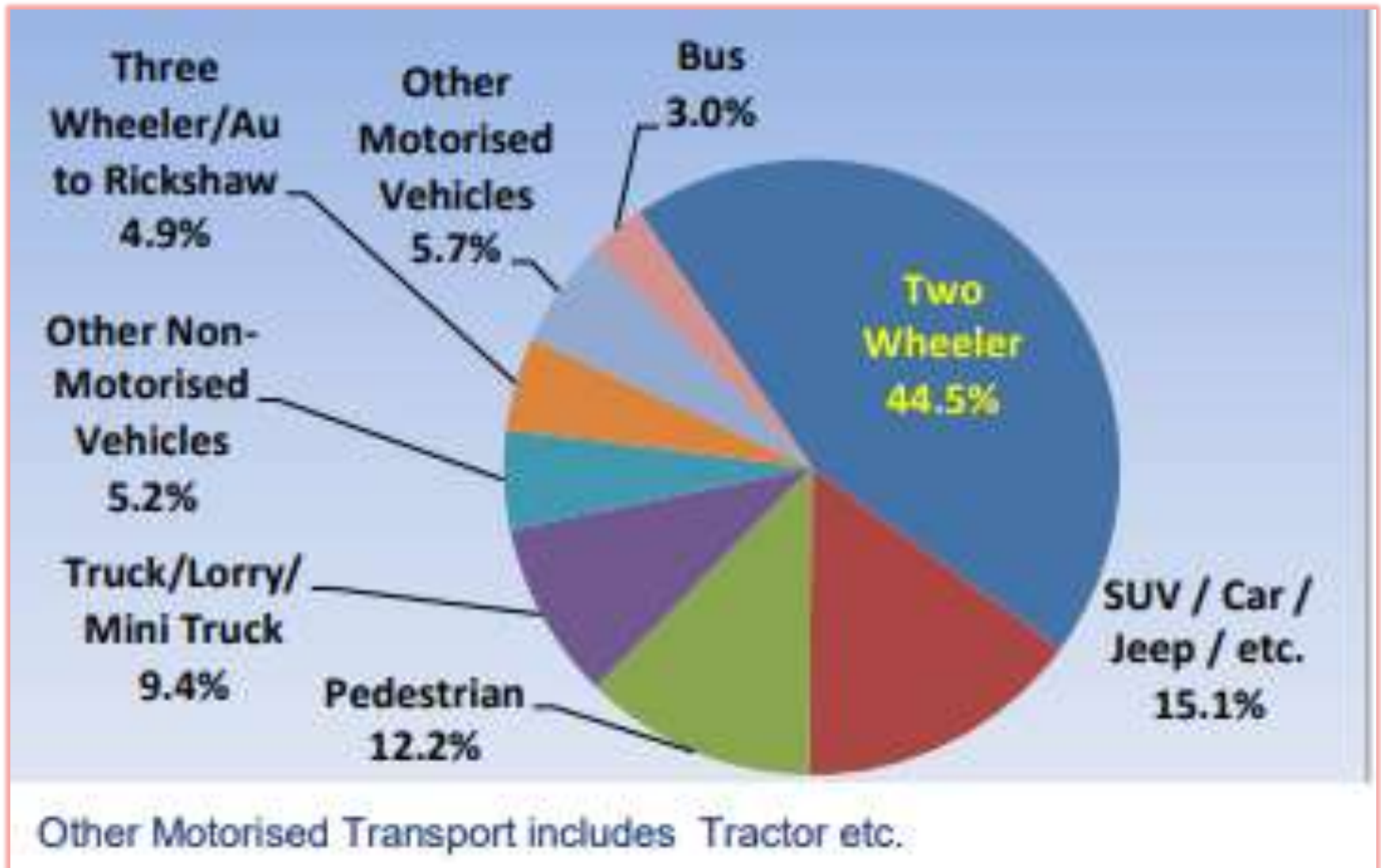


# STATE/UT- WISE ROAD ACCIDENT DEATH 2021





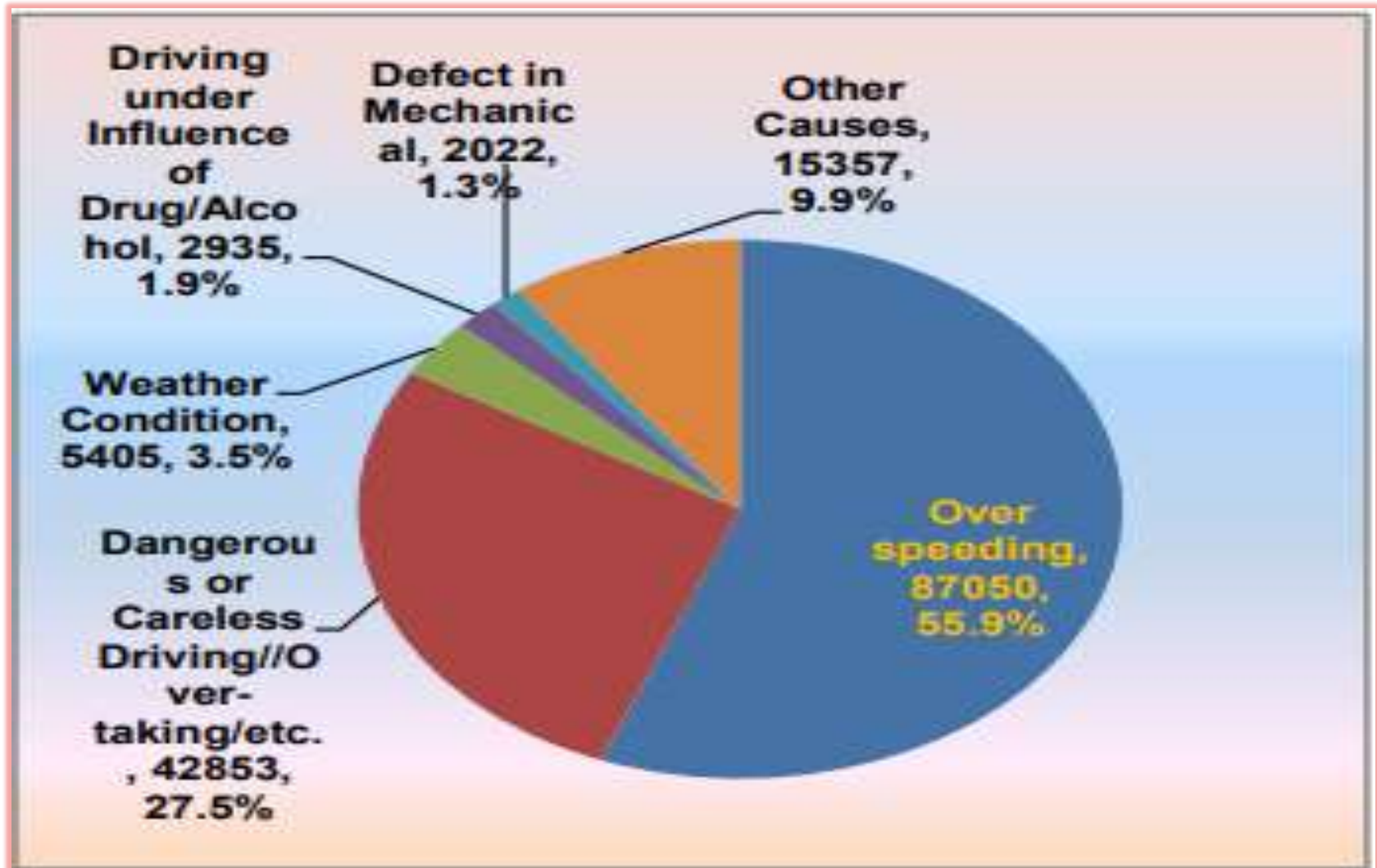
# VEHICLE WISE ROAD ACCIDENT DEATH DURING 2021



Sources: <https://ncrb.gov.in>



# MAJOR CAUSES OF ROAD ACCIDENT DEATH DURING YEAR 2021



- As per data provided by States/UTs.





# STATISTICAL RECORD

- ❑ Global death due to Road Accident = 13 lakh
- ❑ Non-fatal injuries = 2 to 5 crore people/ year
- ❑ Economical loss = 3% of total GDP of that country
- ❑ 90% of total death occurred in low & middle income nation like India & African countries.
- ❑ Road accidents are the leading cause of death for children and young generation between age 5 to 29.
- ❑ 73% males are killed every year in road accidents compare to 27% females.



Source: WHO



# CAUSES OF ROAD ACCIDENT





# MAJOR FACTORS OF ACCIDENTS

- Over Speeding
- Driving under the influence of Drug or alcohol.
- Not using Helmets, Seat Belts and child restraints.
- Distracted driving (gossiping, Music, not focused)
- Using of Mobile phone increases 4 times the chance of accident.
- Poor Road conditions (pot holes, invisible marking, road studs, damaged road, super elevation, speed breaker etc)
- Defective or unsafe vehicles
- In-adequate law enforcement
- Incompetent driver (without DL or with DL)
- Stray Animal (23% cases increased in last 6 years)
- Fall asleep





# CAUSES OF ROAD ACCIDENT







# CAUSES OF ROAD ACCIDENT





# CAUSES OF ROAD ACCIDENT







# CAUSES OF ROAD ACCIDENT





# CAUSES OF ROAD ACCIDENT







# CAUSES OF ROAD ACCIDENT





# SAFETY MEASURE TO PREVENT ROAD ACCIDENT





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# SAFETY MEASURE TO PREVENT ROAD ACCIDENT





# EMPLOYER RESPONSIBILITIES

- Ensure Safe transportation of employees to & from workplace.
- Ensure all vehicles are regularly inspected and fit.
- All drivers are trained and medically fit.
- GPS tracking of vehicles speed as well as route mapping
- Implementing strict guidelines to use seatbelt and crash helmet.
- Alcohol monitoring







# VEHICLE USER RESPONSIBILITIES

- Respect pedestrian, allow them first to cross road.
- Follow lane discipline
- Read, understand & obey the signboards rule
- Check your vehicle critical conditions at least once in a day.
- Check vehicle safety features
- Don't drink & drive
- Always use low beam light during night
- Never modified your head lights
- Use seat belts / crash helmet
- Never overloaded your vehicle with too passenger / materials.
- Follow traffic signal
- Never use cell phone while driving. Park your vehicle at road side, before picking a call.







# PEDESTRIAN USER RESPONSIBILITY

- Try to walk in the opposite of traffic moving direction on foot path.
- Don't walk directly on road, if foot path is not available then use road shoulder.
- Use zebra crossing / foot over bridge/ subway to cross roads. Never cross roads near MBCB or divider.
- Never use ear phones while walking.
- Never try to stop a bus or taxi in the mid of road, always use the dedicated bus stop.






# TRAFFIC SIGNANGE

Traffic Signs or Road Signs are signs erected the side of roads to provide information to road users. Pictorial signs are used as symb in place of words. As control devices for traffic, signs need full attention, respect and adequate driver's response.



# TRAFFIC SIGNAGE

<b>Mandatory Signs</b>	Signs that give orders. These are represented by red circles.	
<b>Cautionary Signs</b>	Signs that give warnings. These are represented by red triangles	
<b>Informative Signs</b>	Signs that give information. These are represented by blue rectangles.	

# TRAFFIC SIGNAGE

## Note:

Circles give orders, Triangles warn and Rectangles inform.

Blue circles give a mandatory instruction



## All triangular signs are red.

There are a few exceptions to the shape and colour rules, to give certain signs greater importance.



**STOP**



**GIVEWAY**



# TRAFFIC SIGNAGE



**STOP**



**NO ENTRY**



**GIVE WAY**



**ALL MOTOR VEHICLES PROHIBITED**



**NO MOTORCYCLES**



**NO BICYCLES**



**NO BULLOCK CARTS**



**NO HEAVY VEHICLES**



**ONE - WAY TRAFFIC**



**NO STRAIGHT AHEAD**



**NO VEHICLES IN BOTH DIRECTION**



**NO LEFT TURN**



**NO RIGHT TURN**



**NO OVERTAKING**



**NO U-TURN**



**HEIGH LIMIT**



**SPEED LIMIT**



**WEIGHT LIMIT**



**LENGHT LIMIT**



**NO PARKING**



**HORN PROHIBITED**



**NO PEDESTRIANS**



**LEFT CURVE**



**RIGHT CURVE**



**TRAFFIC SIGNALS AHEAD**



**LEVEL CROSSING WITH BARRIER AHEAD**



**UNEVEN ROAD**



**LEVEL CROSSING WITHOUT BARRIER AHEAD**



**NARROW BRIDGE**



**ROUNDAABOUT AHEAD**

# CASE STUDY OF SOME ACCIDENTS

**Truck Helper was driving**



**Not obeyed Signboard**





# CASE STUDY OF SOME ACCIDENTS

## Wrong Direction movement



# CASE STUDY OF SOME ACCIDENTS

## Fire Accident





# CASE STUDY OF SOME ACCIDENTS

## Drink & Drive

## Over taking



# POTENTIAL SOURCES & ACTS OF ROAD ACCIDENT



Pic - 1



Pic - 2



Pic - 3



Pic - 4

# POTENTIAL SOURCES & ACTS OF ROAD ACCIDENT



Pic - 5



Pic - 6



Pic - 7



Pic - 8



Pic - 9



# POTENTIAL SOURCES & ACTS OF ROAD ACCIDENT



Pic - 10



Pic - 11





# ROAD SAFETY WEEK CELEBRATION







# ROAD SAFETY WEEK CELEBRATION





# POINTS TO BE REMEMBER

**Always wear a helmet while riding a two-wheeler**

**Never drink and drive**

**Always wear a seatbelt while driving a car**

**Ensure Safety Devices such as side mirror, horn, emergency brake in your Vehicle**

**Never text or talk on the phone while driving**

**Always obey traffic rules**

**Act as a Good Samaritan and help road accident victims**

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**ANY QUESTIONS?**





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*"AIM TO PREVENT ACCIDENT, PROTECT ENVIRONMENT & MINIMISE LOSSES DURING DISASTER"*

**THANK YOU!**

FOR MORE DETAILS VISIT - [WWW.ISEINDIA.IN](http://WWW.ISEINDIA.IN)

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