Growth on Wheels, Risk on Roads: A Paradox of Infrastructure Development and Road Safety in India.   ICC26115

N.Nithya. Professor, Department of MBA, Sona College of Technology, Salem, Tamilnadu, India. prepared this case solely as a basis for classroom discussion. This case is not intended to serve as an endorsement, source of primary data, or illustration of either effective or ineffective managerial decision-making. Certain names and other identifying details have been disguised to protect confidentiality

Introduction: The Silent Pandemic

It was a cool morning in November 2024. Raghav Menon was sitting in his office in New Delhi, and it was a season of smog outside, but smog was nothing compared to the smog in his office. The last statistics of the previous year, 2023, were flashing on his screen. The figures were not just administrative figures, but that was a demographic catastrophe. In 2023, there were 4,80,583 road accidents which claimed 1,72,890 lives in India. Raghav had done a mental calculation that made him tremble; India was witnessing the crashing of a jumbo jet with 470 passengers, day in day out, all through the year. The previous ten years had seen the government engaged in an unprecedented infrastructure spurt that saw highways being built at a rate of more than 30 km per day. However, the statistics also showed a cruel paradox since in India, which has around 1 per cent of the total number of vehicles in the world, almost one- twelfth of the world street crashes are fatal. The burning question that was on his desk was a simple but frightening question: "Is India's infrastructure development actually killing its citizens?".

The Infrastructure Trap: "Hardware" vs. "Software"

Raghav pulled up Annexure 9 from the Road Accidents in India report published by Ministry of Road Transport and Highways(https://morth.nic.in/). The traditional wisdom applied in ministry was that bad roads caused accidents. The reason behind this was that the culprits were potholes and bad signage. But the statistics screamed the reverse. The National Highways (NH), which are the so-called crown jewels of the modernization of the Indian infrastructure, make up 2.1% of the whole road network in this country. These are high speed roads with flyovers, grade separators and smooth runways. However, these roads caused 36.43 percent of total deaths.

Table 1: The Highway Disproportion

Road Category	Share of Total Road Length (%)	Share of Total Accidents (%)	Share of Total Fatalities (%)	Insight
National Highways (NH)	2.1%	32.9%	36.43%	High Speed = High Severity
Other Roads (State/City)	97.9%	67.1%	63.57%	Moderate Risk, High Volume

Source: Road Accidents in India 2023, MoRTH

"We have paved the roads to save time", Raghav had put in his draft, "but without segregation and enforcement, we made them a racetrack to a people who have no clue about lane discipline". The smoother the road, the faster the speed and as a result, the greater the energy impact in case of an accident.

The "Killer" Behavior: A Culture of Velocity

If the roads were gun, then what was the trigger? The media was prone to paying much attention to drunken driving. But the enemy was different as indicated by violation data (Annexure 35). The number of accidents and deaths caused by over-speeding were 72.3 percent

and 71.2 percent respectively. Drunken Driving on the other hand was only responsible for 2.2% of the accidents. Over-speeding was responsible for 72.3% of all accidents and 71.2% of all deaths. In severe contrast, Drunken Driving accounted for only 2.2% of accidents.

Table 2: The Hierarchy of Violations

Traffic Violation	Total Accidents (2023)	% Share of Total Accidents	Persons Killed	The Reality
Over-Speeding	**3,46,578**	**72.3%**	1,23,289	**The Primary Killer**
Wrong Side Driving	24,961	5.2%	9,637	Discipline Failure
Drunken Driving	10,612	2.2%	4,374	Low Volume, High Visibility
Mobile Phone Use	7,698	1.6%	3,097	Distraction

Source : Annexure 35 (Road Accidents in India 2023, MoRTH)

The data was clear. It was not just "bad driver"; it was actually "fast drivers". An Indian driver in the modern world, with his powerful SUV on a 6-lane expressway, became invincible. The infrastructure promoted speed, and the enforcement mechanism (cameras, patrols) of it had not been increased accordingly.

The Vulnerable Majority and the "Tamil Nadu Paradox"

Raghav then glanced at the victims. Who was dying? It was not mainly those inside the solid air-conditioned cars.

The statistics (Annexure 2 &3) were very unfriendly to equality. The 2-wheeler riders contributed 44.5 percent of all road fatalities, and pedestrian's 18.9 percent. These vulnerable road users represented almost 65 percent of the fatality figures together. The most frustrating shock is from the state of Tamil Nadu. The state was an economic leader, and seatbelt compliance had been high (only 1.47% of fatalities were because of non-seatbelt use). However, it was devastatingly unsuccessful in the compliance of its helmets.

The most frustrating insight came from the state of Tamil Nadu. The state was a leader in economic metrics and had achieved high seatbelt compliance (only 1.47% of deaths were due to non-seatbelt use). Yet, it faced a catastrophic failure in helmet compliance.

Table 3: The Behavioral Dichotomy (Tamil Nadu Case)

Safety Gear	% of Deaths due to Non-Compliance	Interpretation
Seatbelts (Cars)	1.47%	High Compliance (Success)
Helmets (Bikes)	36.88%	Zero Compliance (Failure)

Source : Road Accidents in India 2023, MoRTH

It is, it is a behavioral split. The same citizen who straps into an automobile because he is afraid of the

The "Competence" Myth

Lastly, the most widespread grievance about the situation that Raghav had to deal with was: "Drivers are untrained". The argument frequently accused the uneducated truck drivers or the unlicensed drivers. Annexure 36 disproved this myth.

The statistics showed that 79.8 percent of all accidents were attributed to the drivers with the Valid Permanent Licenses. There were only about 10 percent of drivers with Learner or no licenses. So, the fact is that 3,82,752 crashes featured those drivers who had valid papers. Hence it implies that crisis is not a matter of skill or competence.

These drivers passed the tests; they are aware of how to drive. The crisis is all about will (Compliance). They are opting to be careless.

The Deilemma: Policy Crossroads

Raghav closed the report. The government had set aside Rs.2.7 lakh crore to spend on capital expenditure on roads, but the amount assigned to "Road Safety Awareness and Enforcement" was only a small fraction. By evening he had to write a policy recommendation to the Minister. He had a threefold of conflicting decisions:

The Engineering Solution: Delay the development. Would it be wise of India to reduce the speed limits (artificially) on the expressways (e.g. to 80 kmph), which would probably negatively impact the efficiency of logistics to save lives?

The Enforcement Solution: To Enforce a Surveillance State. Install AI cameras every 5 km and automatically deduct fines out of bank accounts; a bold step that would not be popular politically and will be labelled as a "draconian measure".

The Behavioral Solution: What do you do to alter the attitude of a valid-license holder who simply does not wear a helmet? Decades of awareness campaigns had been done.

Raghav looked at the cursor that was blinking on his screen. Is India in need of Safer Roads or Stricter Fears?

Total Number of Road Accidents in India: 2020 to 2023

S. No.	States/UTs	State/UT-Wise Total Number of Road Accidents					% Share of States/UTs in Total Number of Road Accidents			
		2020	2021	2022	2023		2020	2021	2022	2023
					Number	Rank				
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	19,509	21,556	21,249	19,949	9	5.2	5.2	4.6	4.2
2	Arunachal Pradesh	134	283	227	287	29	0.0	0.1	0.0	0.1
3	Assam	6,595	7,411	7,023	7,421	16	1.8	1.8	1.5	1.5
4	Bihar	8,639	9,553	10,801	11,014	14	2.3	2.3	2.3	2.3
5	Chhattisgarh	11,656	12,375	13,279	13,468	12	3.1	3.0	2.9	2.8
6	Goa	2,375	2,849	3,011	2,846	21	0.6	0.7	0.7	0.6
7	Gujarat	13,398	15,186	15,751	16,349	10	3.6	3.7	3.4	3.4
8	Haryana	9,431	9,933	10,429	10,463	15	2.5	2.4	2.3	2.2
9	Himachal Pradesh	2,239	2,404	2,597	2,253	22	0.6	0.6	0.6	0.5
10	Jharkhand	4,405	4,728	5,175	5,315	20	1.2	1.1	1.1	1.1
11	Karnataka	34,178	34,647	39,762	43,440	5	9.2	8.4	8.6	9.0
12	Kerala	27,877	33,296	43,910	48,091	3	7.5	8.1	9.5	10.0
13	Madhya Pradesh	45,266	48,877	54,432	55,327	2	12.2	11.9	11.8	11.5
14	Maharashtra	24,971	29,477	33,383	35,243	6	6.7	7.1	7.2	7.3
15	Manipur	432	366	508	398	26	0.1	0.1	0.1	0.1
16	Meghalaya	214	245	246	223	30	0.1	0.1	0.1	0.0
17	Mizoram	53	69	133	106	35	0.0	0.0	0.0	0.0
18	Nagaland	500	746	489	303	27	0.1	0.2	0.1	0.1
19	Odisha	9,817	10,983	11,663	11,992	13	2.6	2.7	2.5	2.5
20	Punjab	5,203	5,871	6,138	6,269	18	1.4	1.4	1.3	1.3
21	Rajasthan	19,114	20,951	23,614	24,694	7	5.1	5.1	5.1	5.1
22	Sikkim	138	155	211	182	31	0.0	0.0	0.0	0.0
23	Tamil Nadu	49,844	55,682	64,105	67,213	1	13.4	13.5	13.9	14.0
24	Telangana	19,172	21,315	21,619	22,903	8	5.2	5.2	4.7	4.8
25	Tripura	466	479	575	577	25	0.1	0.1	0.1	0.1
26	Uttarakhand	1,041	1,405	1,674	1,691	23	0.3	0.3	0.4	0.4
27	Uttar Pradesh	34,243	37,729	41,746	44,534	4	9.2	9.1	9.0	9.3
28	West Bengal	10,863	11,937	13,686	13,795	11	2.9	2.9	3.0	2.9
29	Andaman & Nicobar Islands	141	115	141	143	34	0.0	0.0	0.0	0.0
30	Chandigarh	159	208	237	182	31	0.0	0.1	0.1	0.0
31	Dadra & Nagar Haveli and Daman & Diu	100	140	196	182	31	0.0	0.0	0.0	0.0
32	Delhi	4,178	4,720	5,652	5,834	19	1.1	1.1	1.2	1.2
33	Jammu & Kashmir	4,860	5,452	6,092	6,298	17	1.3	1.3	1.3	1.3
34	Ladakh	NA	236	374	289			0.1	0.1	0.1
35	Lakshadweep	1	4	3	1	36	0.0	0.0	0.0	0.0
36	Puducherry	969	1,049	1,181	1,308	24	0.3	0.3	0.3	0.3
	Total	3,72,181	4,12,432	4,61,312	4,80,583		100	100	100	100

Note:

Road length is exclusive of all roads constructed under Jawahar Rozgar Yojana.

Data have been reconciled for West Bengal for the calendar year 2015 to 2017, 2019 & 2020 and Tamil Nadu for the calendar year 2017 to 2020. #: Population for Telangana is not available and it is included in Andhra Pradesh Population

NA: Not Available

Annexure 2 Concld...

Total Number of Road Accidents in India: 2020 to 2023

S. No.	States/UTs	Total Number of Accidents Per Lakh Population				Total Number of Road Accidents per 10,000 Vehicles	Total Number of Road Accidents per 10,000 Km of Roads
		2020	2021	2022	2023	2020	2020
1	*2*	*12*	*13*	*14*	*15*	*16*	*17*
1	Andhra Pradesh	21.5	40.8	40.1	37.5	14.9	1,091.9
2	Arunachal Pradesh	9.8	18.5	14.7	18.4	5.8	25.3
	Annexure 3	19.5	21.1	19.9	20.8	15.1	146.5
4	Bihar	8.0	7.8	8.6	8.7	8.7	288.4
5	Chhattisgarh	43.1	42.0	44.5	44.6	16.7	1,044.2
6	Goa	109.4	182.7	192.2	180.7	16.3	1,251.8
7	Gujarat	20.4	21.8	22.3	22.9	5.0	514.1
8	Haryana	32.5	33.7	34.9	34.6	11.0	1,755.0
9	Himachal Pradesh	30.6	32.5	34.9	30.2	13.1	328.7
10	Jharkhand	12.5	12.3	13.3	13.5	8.7	524.6
11	Karnataka	53.1	51.8	59.1	64.2	13.1	924.5
12	Kerala	76.6	93.8	123.2	134.4	19.7	1,078.9
13	Madhya Pradesh	55.1	57.8	63.6	63.9	25.3	1,225.8
14	Maharashtra	19.9	23.7	26.6	27.9	6.6	409.4
15	Manipur	16.0	11.6	15.9	12.3	11.9	132.1
16	Meghalaya	7.4	7.5	7.4	6.7	5.9	48.4
17	Mizoram	4.8	5.7	10.8	8.6	2.0	27.3
18	Nagaland	20.2	34.0	22.1	13.6	9.6	132.1
19	Odisha	22.4	24.0	25.4	25.9	10.8	323.0
20	Punjab	17.3	19.4	20.1	20.4	4.6	349.7
21	Rajasthan	24.9	26.4	29.5	30.5	9.9	719.7
22	Sikkim	20.5	22.9	30.9	26.4	25.5	112.2
23	Tamil Nadu	70.6	72.9	83.7	87.4	15.5	1,826.0
24	Telangana	#	56.5	57.0	60.1	14.9	1,355.9
25	Tripura	11.7	11.8	14.0	13.9	8.5	131.9
26	Uttarakhand	9.4	12.3	14.5	14.5	3.6	163.5
27	Uttar Pradesh	14.8	16.3	17.9	18.9	9.8	744.7
28	West Bengal	11.2	12.2	13.9	13.9	10.0	380.9
29	Andaman & Nicobar Islands	23.5	28.8	35.1	35.5	9.4	745.1
30	Chandigarh	7.5	17.2	19.4	14.8	1.5	613.5
31	Dadra & Nagar Haveli and Daman & Diu	11.4	13.0	16.8	14.4	3.7	708.2
32	Delhi	17.5	22.9	27.0	27.3	3.5	2,349.0
33	Jammu & Kashmir	37.7	40.7	45.1	46.3	24.7	409.1
34	Ladakh		79.5	125.1	96.3		
35	Lakshadweep	1.2	5.9	4.4	1.4	0.4	44.9
36	Puducherry	49.8	66.8	73.4	79.5	8.7	1,739.2
	Total	**28.1**	**30.3**	**33.5**	**34.6**	**11.4**	**681.6**

Note:

1. Road length is exclusive of all roads constructed under Jawahar Rozgar Yojana.

2. Data have been reconciled for West Bengal for the calendar year 2015 to 2017, 2019 & 2020 and Tamil Nadu for the calendar year 2017 to 2020.

#: Population for Telangana is not available and it is included in Andhra Pradesh Population

NA: Not Available

Total Number of Persons Killed in Road Accidents in India: 2020 to 2023

S. No.	States/UTs	State/UT-Wise Total Number of Persons Killed in Road Accidents					% Share of States/UTs in Total Number of Persons Killed in Road Accidents			
		2020	2021	2022	2023		2020	2021	2022	2023
					Number	Rank				
1	2	3	4	5	6	7	8	9	10	11
1	Andhra Pradesh	7,039	8,186	8,293	8,137	8	5.1	5.3	4.9	4.7
2	Arunachal Pradesh	73	157	148	145	27	0.1	0.1	0.1	0.1
3	Assam	2,629	3,036	2,994	3,296	18	1.9	2.0	1.8	1.9
4	Bihar	6,699	7,660	8,898	8,873	7	4.8	5.0	5.3	5.1
5	Chhattisgarh	4,606	5,371	5,834	6,166	11	3.3	3.5	3.5	3.6
6	Goa	223	226	271	290	23	0.2	0.1	0.2	0.2
7	Gujarat	6,170	7,452	7,618	7,854	9	4.5	4.8	4.5	4.5
8	Haryana	4,507	4,706	4,915	4,968	14	3.3	3.1	2.9	2.9
9	Himachal Pradesh	893	1,052	1,032	889	22	0.6	0.7	0.6	0.5
10	Jharkhand	3,044	3,513	3,898	4,173	16	2.2	2.3	2.3	2.4
11	Karnataka	9,760	10,038	11,702	12,321	5	7.1	6.5	6.9	7.1
12	Kerala	2,979	3,429	4,317	4,080	17	2.2	2.2	2.6	2.4
13	Madhya Pradesh	11,141	12,057	13,427	13,798	4	8.1	7.8	8.0	8.0
14	Maharashtra	11,569	13,528	15,224	15,366	3	8.4	8.8	9.0	8.9
15	Manipur	127	110	127	73	31	0.1	0.1	0.1	0.0
16	Meghalaya	144	187	162	168	25	0.1	0.1	0.1	0.1
17	Mizoram	42	56	113	96	28	0.0	0.0	0.1	0.1
18	Nagaland	53	55	73	86	29	0.0	0.0	0.0	0.0
19	Odisha	4,738	5,081	5,467	5,739	13	3.4	3.3	3.2	3.3
20	Punjab	3,898	4,589	4,756	4,829	15	2.8	3.0	2.8	2.8
21	Rajasthan	9,250	10,043	11,104	11,762	6	6.7	6.5	6.6	6.8
22	Sikkim	47	56	92	57	34	0.0	0.0	0.1	0.0
23	Tamil Nadu	14,527	15,384	17,884	18,347	2	10.5	10.0	10.6	10.6
24	Telangana	6,882	7,557	7,559	7,660	10	5.0	4.9	4.5	4.4
25	Tripura	192	194	241	261	24	0.1	0.1	0.1	0.2
26	Uttarakhand	674	820	1,042	1,054	20	0.5	0.5	0.6	0.6
27	Uttar Pradesh	19,149	21,227	22,595	23,652	1	13.8	13.8	13.4	13.7
28	West Bengal	5,128	5,800	6,002	6,027	12	3.7	3.8	3.6	3.5
29	Andaman & Nicobar Islands	14	20	19	24	35	0.0	0.0	0.0	0.0
30	Chandigarh	53	96	83	67	32	0.0	0.1	0.0	0.0
31	Dadra & Nagar Haveli and Daman & Diu	64	76	90	74	30	0.0	0.0	0.1	0.0
32	Delhi	1,196	1,239	1,461	1,457	19	0.9	0.8	0.9	0.8
33	Jammu & Kashmir	728	774	805	893	21	0.5	0.5	0.5	0.5
34	Ladakh	NA	56	62	59				0.0	0.0
35	Lakshadweep	-	1	2	-	36	0.0	0.0	0.0	0.0
36	Puducherry	145	140	181	149	26	0.1	0.1	0.1	0.1
	Total	1,38,383	1,53,972	1,68,491	1,72,890		100	100	100	100

Note:

1. Road length is exclusive of all roads constructed under Jawahar Rozgar Yojana.

2. Data have been reconciled for West Bengal for the calendar year 2015 to 2017, 2019 & 2020 and Tamil Nadu for the calendar year 2017 to 2020.

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NA: Not Available

Annexure 3 Concld...

Total Number of Persons Killed in Road Accidents in India: 2020 to 2023

S. No.	States/UTs	Total Number of Persons Killed in Road Accidents Per Lakh Population				Total Number of Persons Killed in Road Accidents per 10,000 Vehicles	Total Number of Persons Killed in Road Accidents per 10,000 Km of Roads
		2020	2021	2022	2023	2020	2020

		12	13	14	15	16	17
1	Andhra Pradesh	7.7	15.5	15.7	15.3	5.4	394.0
2	Arunachal Pradesh	5.3	10.2	9.6	9.3	3.2	13.8
3	Assam	7.8	8.7	8.5	9.2	6.0	58.4
4	Bihar	6.2	6.2	7.1	7.0	6.8	223.6
5	Chhattisgarh	17.0	18.2	19.6	20.4	6.6	412.6
6	Goa	10.3	14.5	17.3	18.4	1.5	117.5
7	**Annexure 9**	9.4	10.7	10.8	11.0	2.3	236.7
8	Haryana	15.5	16.0	16.5	16.4	5.2	838.7
9	Himachal Pradesh	12.2	14.2	13.9	11.9	5.2	131.1
10	Jharkhand	8.6	9.1	10.0	10.6	6.0	362.5
11	Karnataka	15.2	15.0	17.4	18.2	3.7	264.0
12	Kerala	8.2	9.7	12.1	11.4	2.1	115.3
13	Madhya Pradesh	13.6	14.3	15.7	15.9	6.2	301.7
14	Maharashtra	9.2	10.9	12.1	12.2	3.1	189.7
15	Manipur	4.7	3.5	4.0	2.3	3.5	38.8
16	Meghalaya	5.0	5.7	4.9	5.0	3.9	32.5
17	Mizoram	3.8	4.6	9.2	7.8	1.6	21.6
18	Nagaland	2.1	2.5	3.3	3.9	1.0	14.0
19	Odisha	10.8	11.1	11.9	12.4	5.2	155.9
20	Punjab	12.9	15.1	15.6	15.7	3.4	262.0
21	Rajasthan	12.1	12.7	13.9	14.5	4.8	348.3
22	Sikkim	7.0	8.3	13.5	8.3	8.7	38.2
23	Tamil Nadu	20.6	20.1	23.3	23.9	4.5	532.2
24	Telangana	#	20.0	19.9	20.1	5.3	486.7
25	Tripura	4.8	4.8	5.9	6.3	3.5	54.3
26	Uttarakhand	6.1	7.2	9.0	9.1	2.3	105.8
27	Uttar Pradesh	8.3	9.2	9.7	10.0	5.5	416.4
28	West Bengal	5.3	5.9	6.1	6.1	4.7	179.8
29	Andaman & Nicobar Islands	2.3	5.0	4.7	6.0	0.9	74.0
30	Chandigarh	2.5	7.9	6.8	5.4	0.5	204.5
31	Dadra & Nagar Haveli and Daman & Diu	7.3	7.1	7.7	5.9	2.4	453.3
32	Delhi	5.0	6.0	7.0	6.8	1.0	672.4
33	Jammu & Kashmir	5.6	5.8	6.0	6.6	3.7	61.3
34	Ladakh		18.9	20.7	19.7		
35	Lakshadweep	0.0	1.5	2.9	0.0	0.0	0.0
36	Puducherry	7.5	8.9	11.3	9.1	1.3	260.3
	Total	**10.4**	**11.3**	**12.2**	**12.5**	**4.2**	**253.4**

Note:

1. Road length is exclusive of all roads constructed under Jawahar Rozgar Yojana.

2. Data have been reconciled for West Bengal for the calendar year 2015 to 2017, 2019 & 2020 and Tamil Nadu for the calendar year 2017 to 2020.

#: Population for Telangana is not available and it is included in Andhra Pradesh Population

NA: Not Available

Total Number of Road Accidents on National Highways*: 2020 to 2023

S. No.	States/UTs	State/UT-Wise Total Number of Road Accidents on National Highways				
		2020	2021	2022	2023	
					Number	Rank
1	2	3	4	5	6	7
1	Andhra Pradesh	7,167	8,241	8,650	8,276	7
2	Arunachal Pradesh	67	147	131	156	28
3	Assam	2,963	3,408	3,244	3,427	16
4	Bihar	4,101	4,349	4,601	4,925	10
5	Chhattisgarh	3,463	3,610	4,115	4,144	12

	Code					
	Goa	787	1,116	1,259	1,125	20
7	Gujarat	3,234	3,406	3,536	3,607	15
8	Haryana	3,039	3,174	3,727	3,642	14
9	Himachal Pradesh	1,045	1,179	1,258	1,074	21
10	Jharkhand	1,772	1,890	2,125	1,994	19
11	Karnataka	11,230	11,462	13,384	14,270	4
12	Kerala	6,594	8,048	17,627	10,640	6
13	Madhya Pradesh	9,866	11,030	13,860	14,561	3
14	Maharashtra	6,501	7,501	9,417	10,881	5
15	Manipur	273	236	313	272	25
16	Meghalaya	128	153	157	114	30
17	Mizoram	25	29	77	57	32
18	Nagaland	309	488	304	201	27
19	Odisha	3,673	4,087	4,317	4,587	11
20	Punjab	2,032	2,288	2,293	2,388	17
21	Rajasthan	5,764	6,424	7,093	7,179	9
22	Sikkim	37	73	74	83	31
23	Tamil Nadu	18,372	16,869	18,972	20,582	1
24	Telangana	6,820	7,214	7,505	8,103	8
25	Tripura	184	199	241	255	26
26	Uttarakhand	524	711	827	840	22
27	Uttar Pradesh	13,695	14,540	14,990	15,184	2
28	West Bengal	3,354	3,821	3,993	3,841	13
29	Andaman & Nicobar Islands	42	41	43	39	33
30	Chandigarh	15	29	29	11	34
31	Dadra & Nagar Haveli and Daman & Diu	0	0	14	3	35
32	Delhi	460	457	799	745	23
33	Jammu & Kashmir	1,512	1,899	2,378	2,342	18
34	Ladakh	NA	119	196	132	29
35	Lakshadweep	0	0	0	0	36
36	Puducherry	567	587	448	497	24
	Total	**1,19,615**	**1,28,825**	**1,51,997**	**1,50,177**	

Note:

* Includes Expressways

NA: Not Available

Accidents Classified according to Type of Traffic Violations during the calendar year 2023   Annexure 35

S. No.	States/UTs	Over-Speeding							Drunken Driving/ Consumption of alcohol & drug				
		Number of Accidents		Persons Killed		Persons Injured			Number of Accidents	Persons Killed	Persons Injured		
		Number	Rank	Number	Rank	Grievously Injured	Minor Injury	Total Injured			Grievously Injured	Minor Injury	Total Injured
1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*
1	Andhra Pradesh	17,171	8	6,889	8	4,903	12,382	17,285	130	70	17	140	157
2	Arunachal Pradesh	124	32	72	27	62	26	88	53	29	32	19	51
3	Assam	5,567	16	2,540	16	4,053	338	4,391	225	112	157	32	189
4	Bihar	7,147	12	5,802	10	3,776	343	4,119	46	10	40	4	44
5	Chhattisgarh	11,298	11	5,351	11	1,579	8,226	9,805	93	40	11	121	132
6	Goa	2,616	21	270	23	278	815	1,093	1	0	0	0	0
7	Gujarat	14,718	10	7,278	7	8,213	5,363	13,576	92	39	37	35	72
8	Haryana	6,272	14	3,124	14	1,699	3,482	5,181	66	28	14	62	76
9	Himachal Pradesh	825	23	355	22	368	839	1,207	69	20	44	68	112

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Theme: Contemporary Context in Innovation, Inclusion, and Impact

Annexure 35 *Contd...*

S.No	States/UTs											
10	Jharkhand	4,066	17	5,245	13	2,168	476	2,644	257	200	200	33	233
11	Karnataka	39,857	3	11,523	1	24,315	23,699	48,014	407	180	227	142	369
12	Kerala	26,500	4	2,107	17	21,181	9,200	30,381	196	19	95	90	185
13	Madhya Pradesh	44,592	1	11,380	2	7,370	36,909	44,279	1,209	219	220	1,154	1,374
14	Maharashtra	23,192	5	10,279	4	14,963	5,168	20,131	311	87	195	166	361
15	Manipur	345	26	55	30	176	376	552	4	2	0	9	9
16	Meghalaya	138	31	94	25	114	44	158	11	9	5	3	8
17	Mizoram	51	34	49	31	20	35	55	22	14	10	12	22
18	Nagaland	166	28	47	32	52	67	119	38	10	15	19	34
19	Odisha	6,925	13	3,470	12	3,576	2,197	5,773	649	254	407	221	628
20	Punjab	3,648	19	2,824	15	1,398	504	1,902	165	116	66	23	89
21	Rajasthan	20,212	6	9,697	5	5,123	13,657	18,780	353	159	113	248	361
22	Sikkim	71	33	15	34	72	94	166	17	7	10	6	16
23	Tamil Nadu	42,372	2	11,153	3	15,846	29,296	45,142	320	74	96	210	306
24	Telangana	19,749	7	6,720	9	2,976	15,086	18,062	383	122	14	344	358
25	Tripura	522	25	237	24	549	3	552	2	1	3	0	3
26	Uttarakhand	1,317	22	790	20	882	284	1,166	8	5	14	0	14
27	Uttar Pradesh	15,879	9	8,726	6	6,950	3,506	10,456	3,838	1,822	1,945	1,094	3,039
28	West Bengal	3,764	18	1,788	18	3,265	457	3,722	81	9	42	30	72
29	Andaman & Nicobar Islands	18	35	0	35	11	9	20	22	2	9	12	21
30	Chandigarh	159	29	60	29	2	135	137	14	4	0	21	21
31	Dadra & Nagar Haveli and Daman & Diu	147	30	64	28	98	92	190	11	6	15	5	20
32	Delhi	2,645	20	703	21	53	2,287	2,340	27	1	0	20	20
33	Jammu & Kashmir	5,666	15	854	19	4,006	3,845	7,851	0	0	0	0	0
34	Ladakh	195		37		32	134	166	9	3	3	8	11
35	Lakshadweep	0	36	0	35	0	0	0	0	0	0	0	0
36	Puducherry	793	24	84	26	335	578	913	14	1	11	3	14
	Total	**3,28,727**		**1,17,682**		**1,40,464**	**1,79,952**	**3,20,416**	**9,143**	**3,674**	**4,067**	**4,354**	**8,421**

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Accidents Classified according to Type of Traffic Violations during the calendar year 2023

S. No.	States/UTs	Driving on Wrong side					Jumping Red Light				
		Number of Accidents	Persons Killed	Persons Injured			Number of Accidents	Persons Killed	Persons Injured		
				Grievously Injured	Minor Injury	Total Injured			Grievously Injured	Minor Injury	Total Injured
1	*2*	*15*	*16*	*17*	*18*	*19*	*20*	*21*	*22*	*23*	*24*
1	Andhra Pradesh	685	206	302	540	842	1	0	1	0	1
2	Arunachal Pradesh	39	18	27	11	38	0	0	0	0	0
3	Assam	642	245	439	73	512	61	23	44	26	70
4	Bihar	1,424	1,119	906	111	1,017	0	0	0	0	0
5	Chhattisgarh	422	129	63	390	453	36	4	5	21	26
6	Goa	1	0	0	1	1	5	0	1	0	1
7	Gujarat	683	251	470	244	714	45	14	21	27	48
8	Haryana	397	195	126	182	308	10	0	5	15	20

9	Himachal Pradesh	234	66	120	237	357	0	0	0	0	0
10	Jharkhand	359	282	242	42	284	38	20	19	2	21
11	Karnataka	1,070	213	755	926	1,681	49	6	29	19	48
12	Kerala	1,931	133	1,532	846	2,378	41	4	26	18	44
13	Madhya Pradesh	3,756	827	676	3,084	3,760	33	1	65	34	99
14	Maharashtra	1,077	425	781	245	1,026	42	13	21	16	37
15	Manipur	13	2	2	15	17	2	0	1	2	3
16	Meghalaya	13	8	12	3	15	0	0	0	0	0
17	Mizoram	5	2	1	3	4	0	0	0	0	0
18	Nagaland	23	3	6	8	14	0	0	0	0	0
19	Odisha	986	402	558	384	942	150	48	104	38	142
20	Punjab	705	522	228	130	358	82	40	34	15	49
21	Rajasthan	839	387	231	614	845	21	5	6	15	21
22	Sikkim	24	8	7	14	21	0	0	0	0	0
23	Tamil Nadu	2,363	675	1,168	1,469	2,637	56	12	31	27	58
24	Telangana	751	170	68	728	796	59	3	1	54	55
25	Tripura	52	22	54	0	54	0	0	0	0	0
26	Uttarakhand	138	72	107	18	125	1	0	0	1	1
27	Uttar Pradesh	5,930	2,920	2,904	1,595	4,499	1,192	543	610	316	926
28	West Bengal	67	25	70	9	79	26	8	20	1	21
29	Andaman & Nicobar Islands	0	0	0	0	0	0	0	0	0	0
30	Chandigarh	1	1	0	1	1	8	2	0	12	12
31	Dadra & Nagar Haveli and Daman & Diu	7	0	6	4	10	0	0	0	0	0
32	Delhi	326	83	46	278	324	296	72	43	225	268
33	Jammu & Kashmir	252	15	202	92	294	186	0	152	34	186
34	Ladakh	0	0	0	0	0	0	0	0	0	0
35	Lakshadweep	0	0	0	0	0	0	0	0	0	0
36	Puducherry	27	6	12	17	29	0	0	0	0	0
	Total	**25,242**	**9,432**	**12,121**	**12,314**	**24,435**	**2,440**	**818**	**1,239**	**918**	**2,157**

Contd...

Annexure 35 *Concld...*

Accidents Classified according to Type of Traffic Violations during the calendar year 2023

S. No.	States/UTs	Use of Mobile Phone					Others				
		Number of Accidents	Persons Killed	Persons Injured			Number of Accidents	Persons Killed	Persons Injured		
				Grievously Injured	Minor Injury	Total Injured			Grievously Injured	Minor Injury	Total Injured
1	*2*	*25*	*26*	*27*	*28*	*29*	*30*	*31*	*32*	*33*	*34*
1	Andhra Pradesh	254	94	134	136	270	1,708	878	450	1,404	1,854
2	Arunachal Pradesh	22	6	9	9	18	49	20	44	18	62
3	Assam	199	91	162	24	186	727	285	521	48	569

4	Bihar	16	12	14	0	14	2,381	1,930	1,231	114	1,345
5	Chhattisgarh	35	5	6	18	24	1,584	637	193	1,090	1,283
6	Goa	0	0	0	0	0	223	20	30	53	83
7	Gujarat	150	33	97	90	187	661	239	438	348	786
8	Haryana	153	67	8	96	104	3,565	1,554	1,301	1,356	2,657
9	Himachal Pradesh	11	2	1	14	15	1,114	446	373	1,240	1,613
10	Jharkhand	91	57	75	15	90	504	369	208	105	313
11	Karnataka	141	32	116	65	181	1,916	367	1,176	1,078	2,254
12	Kerala	50	8	34	12	46	19,373	1,809	14,840	6,446	21,286
13	Madhya Pradesh	821	185	149	1,027	1,176	4,916	1,186	571	4,510	5,081
14	Maharashtra	47	36	14	14	28	10,574	4,526	5,472	2,709	8,181
15	Manipur	5	0	0	7	7	29	14	18	28	46
16	Meghalaya	0	0	0	0	0	61	57	50	28	78
17	Mizoram	2	3	0	1	1	26	28	9	25	34
18	Nagaland	0	0	0	0	0	76	26	41	49	90
19	Odisha	433	163	247	152	399	2,849	1,402	1,445	1,040	2,485
20	Punjab	160	118	47	58	105	1,509	1,209	545	158	703
21	Rajasthan	75	45	73	22	95	3,194	1,469	814	2,125	2,939
22	Sikkim	0	0	0	0	0	70	27	63	96	159
23	Tamil Nadu	299	46	151	116	267	21,803	6,387	9,079	14,803	23,882
24	Telangana	31	6	0	35	35	1,930	639	112	1,604	1,716
25	Tripura	0	0	0	0	0	1	1	0	0	0
26	Uttarakhand	0	0	0	0	0	227	187	101	81	182
27	Uttar Pradesh	3,754	1,815	1,823	1,060	2,883	13,941	7,826	5,539	3,756	9,295
28	West Bengal	14	3	13	0	13	9,843	4,194	7,323	1,385	8,708
29	Andaman & Nicobar Islands	0	0	0	0	0	103	22	40	73	113
30	Chandigarh	0	0	0	0	0	0	0	0	0	0
31	Dadra & Nagar Haveli and Daman & Diu	0	0	0	0	0	17	4	9	4	13
32	Delhi	163	33	28	133	161	2,377	565	83	2,274	2,357
33	Jammu & Kashmir	194	24	121	17	138	0	0	0	0	0
34	Ladakh	0	0	0	0	0	85	19	11	152	163
35	Lakshadweep	0	0	0	0	0	1	0	1	0	1
36	Puducherry	2	0	2	0	2	472	58	243	377	620
	Total	**7,122**	**2,884**	**3,324**	**3,121**	**6,445**	**1,07,909**	**38,400**	**52,374**	**48,577**	**1,00,951**

Annexure 36

Accidents classified according to Licence of Drivers during the calendar year 2023

S. No.	States	Valid Permanent License	Learner's Licence	Without Licence	Others(Not known)	Total Accidents
1	2	3	4	5	6	7
1	Andhra Pradesh	14,600	488	2,278	2,583	19,949
2	Arunachal Pradesh	175	21	39	52	287
3	Assam	5,514	813	362	732	7,421
4	Bihar	5,147	462	700	4,705	11,014
5	Chhattisgarh	8,465	699	1,611	2,693	13,468
6	Goa	2,790	0	36	20	2,846
7	Gujarat	11,902	1,190	1,251	2,006	16,349
8	Haryana	4,083	72	881	5,427	10,463
9	Himachal Pradesh	1,527	17	303	406	2,253
10	Jharkhand	1,765	325	641	2,584	5,315
11	Karnataka	35,152	747	4,768	2,773	43,440
12	Kerala	35,687	88	899	11,417	48,091
13	Madhya Pradesh	36,917	2,606	3,656	12,148	55,327
14	Maharashtra	28,745	906	801	4,791	35,243
15	Manipur	231	95	13	59	398
16	Meghalaya	107	3	17	96	223
17	Mizoram	82	1	11	12	106
18	Nagaland	190	20	19	74	303
19	Odisha	7,443	963	1,363	2,223	11,992
20	Punjab	2,791	510	383	2,585	6,269
21	Rajasthan	20,032	598	374	3,690	24,694
22	Sikkim	168	2	12	0	182
23	Tamil Nadu	54,200	1,350	4,733	6,930	67,213
24	Telangana	16,737	340	1,011	4,815	22,903
25	Tripura	562	8	6	1	577
26	Uttarakhand	1,068	16	5	602	1,691
27	Uttar Pradesh	28,752	2,830	3,534	9,418	44,534
28	West Bengal	6,558	358	3,613	3,266	13,795
29	Andaman & Nicobar Islands	140	0	3	0	143
30	Chandigarh	179	0	3	0	182
31	Dadra & Nagar Haveli and Daman & Diu	112	6	40	24	182
32	Delhi	3,551	266	203	1,814	5,834
33	Jammu & Kashmir	4,406	249	114	1,529	6,298
34	Ladakh	234	14	17	24	289
35	Lakshadweep	1	0	0	0	1
36	Puducherry	947	11	127	223	1,308
	Total	**3,40,960**	**16,074**	**33,827**	**89,722**	**4,80,583**