STATISTICAL REVIEW OF ROAD TRANSPORTATION IN INDIA

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Abstract

Road accidents continue to be a leading cause of death, disabilities and hospitalization in the country despite our commitment and efforts. India ranks first in the number of road accident deaths across the 199 countries and accounts for almost 11% of the accident related deaths in the World. Road traffic continues to be a major developmental issue, a public health concern and is a leading cause of death and injury across the World killing more than 1.35 million globally as reported in the Global Status report on Road Safety 2018 with 90% of these casualties taking place in the developing countries. Road accidents in India kill almost 1.5 lakh people annually. Accordingly, India accounts for almost 11% of the accident related, deaths in the World. The present paper focused on the causes of road accidents, inter-state comparison of road accident data, Motor Vehicles (Amendment) Act, 2019 and its implementation and road safety initiatives taken by the Government of India.

Keywords: Road Accidents, National Highway, Motor Vehicles, India

Introduction

Through road transport, goods and human resources can be transmitted from one place to another through road route. This transmission is possible either through motor vehicles or non motor vehicles. Everyone should be aware about the traffic rules and signals while driving their vehicles of road. Traffic etiquettes are essential for everyone. Any negligence on the part of driver

may cause temporary or permanent disability or even death. It suffers not only the injured people but also the family of that casualty. Driving below the age of 18 years should be strictly prohibited by law and strict to strict punishment provisions are required. Present paper highlights the details of registered motor vehicles, road accidents and causality involved, geographical view of road accidents, geographical details of person killed in road accidents, basic road statistics, national highways details of state and union territory.

Objectives

- 1. To know the total number of registered motor vehicles in India
- 2. To study the number of road accidents and persons involved.
- 3. To know the geographical view of road accidents and details of person killed in road accidents.

Research Methodology

The main source of collecting the information is annual reports of ministry of road transport and report on road accident in India.

Total Number of Registered Motor Vehicles in India: 2003-2019 (in thousands)

Year (As on 31 st March)	All Vehicles	Two Wheele rs*	Cars, Jeeps and Taxis	Buses@	Goods Vehicles	Others*
1	2	3	4	5	6	7
2003	67,007	47,519	8,599	721	3,49	6,676
					2	
2004	72,718	51,922	9,451	768	3,74	6,828
					9	
2005	81,499	58,799	10,320	892	4,03	7,457
					1	
2006	89,618	64,743	11,526	992	4,43	7,921
					6	

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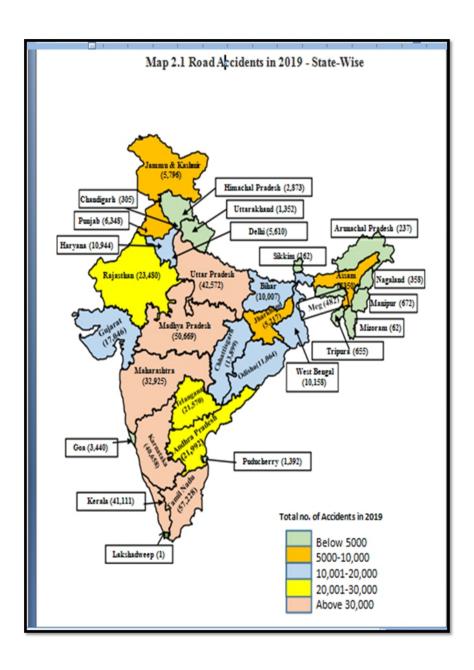
2007	96,707	69,129	12,649	1,350	5,11 8,460 9
2008	105,353	75,336	13,950	1,427	5,60 9,039 1
2009	114,951	82,402	15,313	1,486	6,04 9,710 1
2010	127,746	91,598	17,109	1,527	6,43 11,080 2
2011	141,866	101,865	19,231	1,604	7,06 12,102 4
2012	159,491	115,419	21,568	1,677	7,65 13,169 8
2013	176,044	127,830	24,056	1,814	8,30 14,037 7
2014	190,704	139,410	25,998	1,887	8,69 14,712 8
2015	210,023	154,298	28,611	1,971	9,34 15,799 4
2016	230,031	168,975	30,242	1,757	10,51 18,541 6
2017	253,311	187,091	33,688	1,864	12,25 18,411 6
2018	272,587	202,755	36,453	1,943	12,77 18,663 3
2019	295,772	221,270	38,433	2,049	13,76 20,254 6
CAGR (2009 to 2019)	9.91	10.38	9.64	3.27	8.58 7.63

Source: O ces of State Transport Commissioners/UT Administrations.

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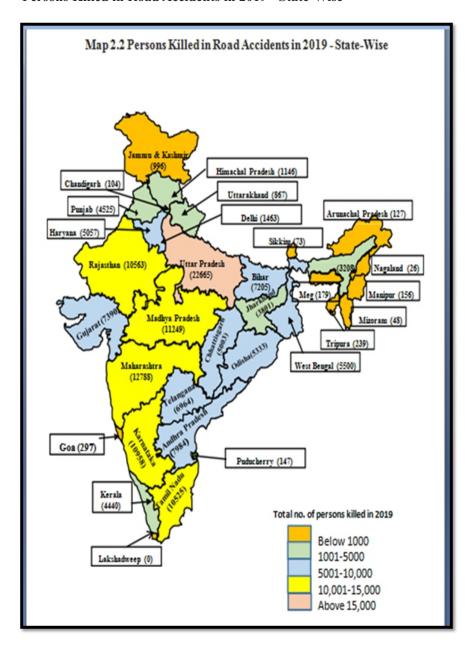
Number of Road Accidents and Persons Involved: 2005 to 2019

Year	Number of Accidents Total	Fatal	Number of Persons Killed	Injured	Accident Severity*
2005	439,255	83491 (19.0)	94,968	465,282	21.6
2006	460,920	93917 (20.4)	105,749	496,481	22.9
2007	479,216	101161 (21.1)	114,444	513,340	23.9
2008	484,704	106591 (22.0)	119,860	523,193	24.7
2009	486,384	110993 (22.8)	125,660	515,458	25.8
2010	499,628	119558 (23.9)	134,513	527,512	26.9
2011	497,686	121618 (24,4)	142,485	511,394	28.6
2012	490,383	123093 (25.1)	138,258	509,667	28.2
2013	486,476	122589 (25.2)	137,572	494,893	28.3
2014	489,400	125828 (25.7)	139,671	493,474	28.5
2015	501,423	131726 (26.3)	146,133	500,279	29.1
2016	480,652	136071 (28.3)	150,785	494,624	31.4
2017	464,910	134796 (29.0)	147,913	470,975	31.8
2018	467,044	137726 (29.5)	151,417	469,418	32.4
2019	449,002	137689 (30.7)	151,113	451,361	33.7



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Persons Killed in Road Accidents in 2019 - State-Wise



Basic Road Statistics of India

s.	Categor y	201 8		2019(P)			Increase/Decre		
No		Total	Surface d	%age Share of Col.(i) in total		Surface d	% age Share of col.(iv) in total	Absolu te value (iv)-(i)	Percent age (vii)/(i)* 100
		(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)
1	Nation al Highw ay	126,350	126,350	2.03	132,499	132,499	2.08	6,149	4.86
2	State Highw ay	186,908	185,495	3	179,535	178,384	2.82	-7,373	-3.94
3	Distri ct Road s	611,268	580,064	9.83	633,383	607,588	9.94	22,115	3.61
4		4,409,5 82	2,295,0 53		4,541,6 31	2,429,3 88	71.27	132,04 9	2.99
5	Urba n Roa ds	534,142	415,859	8.59	541,636	428,157	8.5	7,494	1.4
6	Proje ct Road s	347,547	145,471	5.59	343,163	157,171	5.39	-4,384	1.26

	Total					
7	(includi 6,215	,7 3,931,4	6,371,8	4,116,3	156,05	2.51
	ngJRY 97	94	47	90	0	
	Roads)					
	% age					
8	share	63.2		64.6		
	to					
	total					

State/UT-wise details of NHs As on 31st Dec 2021

S. No.	Name of State/UT	National Highway No.	Total No. of NH's	Total length (inkm)
(1)	(2)	(3)	(4)	(5)
1	Andhra Pradesh	16, 216, 216A, 716, 26, 326, 326A, 30, 40, 140, 340, 340C, 42, 44, 544D, 150A, 65, 165, 516D, 565, 765, 67, 167, 69, 71, 75, 167A, 516E, 167B, 365BB,	54	8,207
		365BG, 544DD, 544E, 130CD, 716A, 716B, 516C, 167BG, 544F, 167K, 342, NE7, 440, 516B, 340B, 167AD, 167AG, 516F, 516W, 150C, 716G, 216E, 216H, 163G		
2	Arunachal Pradesh	13, 113, 313, 513, 713, 713A, 15, 115, 215, 315, 315A, 415, 515,	13	2,537
3	Assam	2, 702, 702C, 702D, 6, 306, 8, 208A, 15, 115, 215, 315, 315A, 415, 515, 715, 715A, 17, 117, 117A, 217, 27, 127, 127A, 127B, 127C, 127D, 127E, 427, 627, 29, 129, 329, 329A, 37, 715K, 137, 137G	38	4,077
		19, 119, 219, 319, 20, 120, 22, 122, 122A , 322, 722, 922, 27, 227, 227A, 327, 327A , 527,		

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4	Bihar	527A, 527B, 527C, 527D, 727, 727A, 31, 131, 131A, 231, 331, 431, 531, 33, 133, 133B, 333, 333A, 333B, 139, 124C, 227F, 227J, 227L, 727AA, 133E, 122B, 333C, 527E, 327AD, 319A, 131B, 131G, 119A,119D, 139W		5,940
5	Chandigarh	5	1	15
6	Chhattisgarh	30, 130, 130A, 130B, 130C, 130D, 930, 43, 343, 45, 49, 149B, 53, 153, 353, 63, 163, 163A, 130CD, 143B,	20	3,620
7	Delhi	9, 44, 48, 148A, 248BB, 709B, 344M, 148AE, 148NA, 344N, 344P, NE3,	13	157

S. No.	Name of State/UT	National Highway No.	Total No. of NH's	Total length (in km)
(1)	(2)	(3)	(4)	(5)
9	Gujarat	27, 927D, 41, 141, 341, 47, 147, 48, 848, 848A, 848B, 51, 151, 251, 351, 53, 753B, 953, 56, 58, 64, 68, 168, 168A, 756, 148M, 751D, 751DD, 351F, 147D, 751, 151A, 754K, NE1, NE4, 351K, 351G, 151K, 848K, 151AD, 927C, 927K,		7,885
10	Haryana	703, 5, 105, 7, 907, 9, 709, 709A , 11, 919, 334B, 44, 344, 444A, 48, 148A, 148B, 248A, 52, 152, 352A, 54, 254, 248BB, 152A, 907G, 352R, 352W,	39	3,259

		709AD, 334D, 152D, 148NA, 344N, 344P, NE2, NE5, NE4, 152G		
11	Himachal Pradesh	3, 103, 303, 503, 503A, 5, 105, 205, 305, 505, 505A, 705, 7, 707, 907, 907A, 44, 154, 154A,	19	2,607
12	Jammu and Kashmir	1,501, 701, 44, 244, 144, 144A, 444, 244A, 701A,NE5	11	1,752
13	Jharkhand	114A , 18, 118, 19, 419, 20, 220, 320, 22, 522, 33, 133, 133A, 133B, 333, 333A, 39, 139, 43, 143, 143A, 343, 49, 143H, 143D, 320G, 143AG, 320D, 218, 143B, 320B	31	3,430
14	Karnataka	44, 48, 648, 748, 948, 50, 150, 150A, 52, 160, 65 66, 766, 766C, 67, 167, 367, 69, 169, 169A, 369, 73 173, 75, 275, 181, 166E, 548B, 561A, 752K, 161A, 544DD, 544E, 548H, 748AA, 367A, 948A, 369E, 373, 275K, 766B, 766BE, NE7, 167N, 150C	45 ,	7,656
15	Kerala	544, 744, 66, 766, 966, 966A, 966B, 183, 183A 85, 185,	'11	1,782
16	Ladakh	1, 3, 301	3	806
17	Madhya Pradesh	719, 27, 30, 34, 934, 135, 135B, 39, 339, 339B 539, 43, 543, 943, 44, 45, 46, 146, 146B, 346, 47, 347, 347C, 347B, 547, 52, 552, 752B, 752C, 56, 548C 752G, 161G, 347A, 753L, 147E, 135BB, 135BD, 135BG, 135C, 347BG, 552G, 752D, 753BE	46	8,911
		NE4. 543K	,	

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S. No.	Name of State/UT	National Highway No.	Total No. of NH's	Total length (inkm)
(1)	(2)	(3)	(4)	(5)
18	Maharashtra	130D, 930, 543, 44, 47, 347C, 547, 48, 348A, 348, 548, 848, 848A, 50, 150, 52, 53, 353C, 353D, 353E, 753, 753A, 753B, 953, 60, 160, 61, 161, 361, 63, 65, 965, 66, 166, 166A, 548C, 753E, 548E, 752G, 561, 753E, 548A, 166E, 266, 548B, 548CC, 161H, 161G, 361H, 548D, 561A, 965C, 752E, 965G, 752K, 347A, 930D, 361B, 353B, 247, 161A, 361C, 161E, 353L, 753J, 753L, 353J, 353K, 752E, 752H, 753M, 548H, 160A, 160B, 753C, 965D, 753BB, 160D, 348B, 348BB, 753AB, 160C, 166H, 761, 753H, 166D, 652, 465, 647, 461B, 160H, 361F, 965DD, 166E, 166G,	102	18,317
19	Manipur	548DD, NF4, 547E, 753BE, 548DG, 150C, 543K 137, 137A,	11	1,840
20	Meghalaya	6, 106, 206, 217, 127B ,	5	1,156
21	Mizoram	2, 102B , 302, 502, 502A, 6, 306, 306A, 108,	9	1,423

22	Nagaland	2, 202, 702, 702A, 702B, 702D, 29, 129, 129A, 12 229.	1,670
		329A, 202K	
		16, 316, 516, 18, 20, 220, 520, 26, 326, 326A,	
23	Orissa	130C, 32	5,897
		143, 49, 149, 53, 153B, 353, 55, 57, 157, 59, 63,	
		126,	
		130CD, 316A, 516A, 157A, 126A, 655, 720,	
		143H,	
		320D,	
24	Puducherry	32, 332,	64
		3, 503, 503A, 703, 703A, 5, 205, 205A, 7, 9, 44,	
25	Punjab	344,	
	1 314,000	37 344A, 344B, 148B, 52, 152, 54, 154, 154A, 254,	4,105
		754,	
		62, 354, 148BB, 105B, 152A, 703B, 354E, 354B,	
		703AA, NE5, NE5A, 503D, 754A, 754AD, 205K	
		709, 11, 919, 21, 23, 123, 25, 125, 325, 27, 927A	
		,	
26	Rajasthan	44, 48, 148, 148B, 148D. 248, 248A, 448, 52, ⁵¹	10,477
		552,	
		752, 54, 56, 156, 58, 158, 458, 758, 62, 162,	
		162A,	
		68, 168, 168A, 954, 311, 921, 70, 925, 925A,	
		911,	
		552G, 754K, 911A, 148C, 968, 752D, NE4,	
		NE4C,	
		125Λ	
27	Sikkim	10, 310, 310A, 310AG, 710, 510, 717A, 717B, 8	709

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S. No.	Name of State/UT	National Highway No.	Total No. of NH's	Total length (in km)
(1)	(2) Tamil Nadu	(3) 16, 716, 32, 132, 332, 532, 36, 136, 336, 536, 38, 138, 40, 42, 44, 544, 744, 944, 48, 648, 948, 66, 75, 77, 79. 81, 181, 381, 83, 183, 85, 87, 544H, 179A, 383,	50	(5) 6,858
29	Telangana	381A, 381B, 785, 716A, 744A, 948A, 338, 136B, 179B, 132B, 179D, 332A, 844, 716B, NE7 30, 44, 150, 353C, 61, 161, 63, 163, 563, 65, 365, 365A, 365B, 363, 565, 765, 167, 353B, 161B, 365BB, 365BG, 765D, 161AA, 161BB, 167K, 765DG, 167N, 930P, 150C, 163G	30	4,926
30	Tripura	8, 108, 108A, 208, 208A, 108B,	6	854
31	Uttar Pradesh	307, 9, 509, 709A, 19, 219, 519, 719, 21, 123, 24, 27, 227A, 727, 727A, 927, 28, 128, 30, 230, 330, 330B, 530, 330A, 730, 730A, 31, 731, 731A, 931, 931A, 34, 334, 334A, 334B, 334C, 534, 734, 234, 35, 135B, 335, 39, 339, 539, 44, 344, 552, 709B, 135BB, 730H, 321, 731AG, 709AD, 319D, 124C, 727B, 727H, 727G, 128B, 128C, 328, 328A, 330D, 530B, 730B, 731K, 727BB, 730S, 730C, 334D, 128A, 135C, 135A, 124D, 321G, 334DD, 727AA,	87	12,245

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		7, 107, 107A, 307, 507, 707, 707A, 9, 109, 109D,		
32	Uttarakhand	309, 309A, 309B, 30, 34, 134, 334, 334A, 534,	24	3,449
		734.		
		•		
		344, 731K, 109K, 344BG		
		10, 110, 12, 112, 512, 14, 114, 114A , 314, 16,		
33	West Bengal	116, 116B , 17, 317, 317A, 517, 717, 717A, 18,	34	3,675
		19,		3,073
		419, 27, 327, 327B, 31, 131A , 33, 133A, 49,		
		316A,		
		116A, 327C, 312, 218		
34	A & N Islands	4,	1	331
35	Dadar Nagar Haveli	848A. NE4,	2	37
36	Daman & Diu	848B, 251,	2	22
Total length				140,995
(km.)				

Conclusion

Human life is too much precious for us. We should take care of it. Without road transportation we cannot move from one place to another. Negligence while driving not only affects our life but the life or family of other one too. So we should follow the traffic rules and be very conscious while driving. Government of India and Ministry of Road Transport and Highway are also doing well in this field. But self-consciousness is essential for it.

Reference:

- 1. Report on Road Accident in India 2019.
- 2. Annual reports of Ministry of Road Transport and Highway 2021-22.