



CHAPTER

INVOLVEMENT OF VEHICLES AT FAULT

Vehicles sold in 80% of all countries worldwide fail to meet basic safety standards.

The safety of vehicles plays a critical role both in averting crashes and reducing the likelihood of serious injury in the event of a crash. (WHO: 10 facts on global road safety)

The extent of damage and severity of accidents increases with the increase in size and speed of the impacting vehicles. With improvement in technology the individual/private vehicles are becoming increasingly safer for the passengers occupying the vehicles. But for heterogeneous and mixed variety of road users on Indian roads, **there is a need to minimize danger to the pedestrians and other small vehicles including non-motorized vehicles.**

Vehicles can be improved by making them safe for passengers, with seat belts, air bags, Anti-lock Breaking System (ABS), strong outer body, non-collapsing body, protective internal design and having safe exit passage in case of any mis-happening. The vehicles however need to be improved also for the safety of the victims (non-passengers).

The vehicle-wise analysis of accidents provides a broad overview of the involvement of vehicles at fault in accidents (Table 4.1).

- In the year 2017, car and taxis caused 287 fatal accidents accounting for 18.3% of total accidents which was the maximum number by a vehicle type. HTV's came next to those with 169 (10.8%). As compared to this in the year 2016, Car and Taxis accounted for the maximum number of fatal accidents (280-18.08%) closely followed by the HTVs (181-11.7%) and two-wheelers (155-10%).
- Two wheelers accounted for 8.9% of fatal accidents this year which is marginally less than 10 % recorded in the year 2016 (Tables 4.1 and 4.2).
- In case of non-fatal accidents, cars and taxis caused 36 % of all simple accidents in the year 2017 which is less than the share of 38.2% in the year 2016.
- Two-wheeler riders (scooter/ motorcycles) were next with 17.1 % of accidents this year, which is higher than their share in the year 2016 at 16.6% (Tables 4.1 and 4.2).
- Hit and run cases have shown an increase in the year 2017 as compared to the last year i.e. 2016 (**647 in the year 2016 to 700 in 2017**). 44.7% of all fatal cases come under this category. Opposite trend is seen in case of simple accidents i.e. the figure has reduced from 1289 to 1107 which is 22.7% of all the simple accidents. Lack of proper identification of vehicle i.e., faulty/smeared number plate is mainly responsible for these fleeing criminals. Passers-by witnessing the accident also refrain from reporting the matter to police. Lack of surveillance cameras at the accident spot is another reason.
- Light Goods Vehicles (LGVs) have been showing a decrease in their share in fatal accidents (Table 4.2).
- City buses have caused fewer fatal accidents this year over 2016. **The percentage share of buses has decreased in fatal accidents but it has increased in simple accidents (Table 4.2).**

FIGURE-4.1 FATAL ACCIDENTS ACCORDING TO MAJOR GROUP OF IMPACTING VEHICLE - YEAR - 2017 (1565)

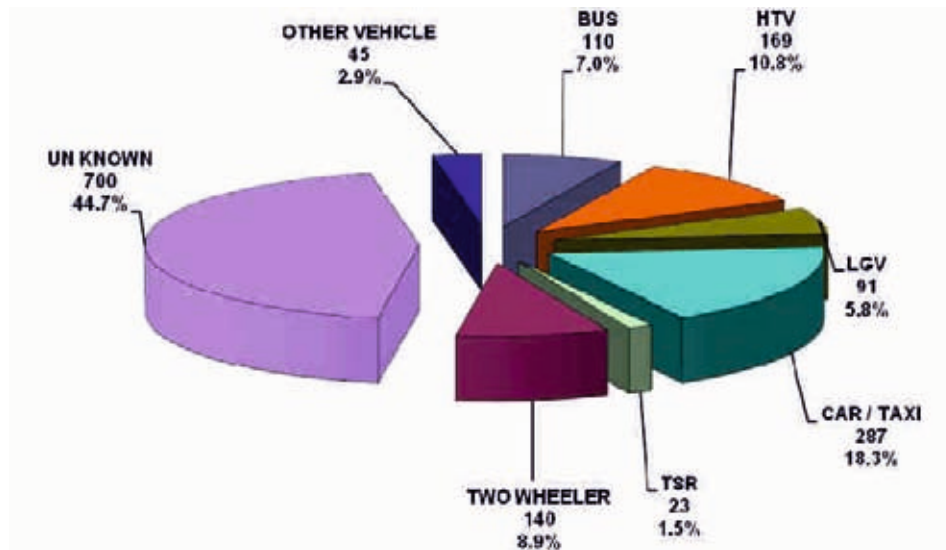


FIGURE-4.2 IMPACTING VEHICLES (TOTAL ACCIDENTS) - 2017 (6673)

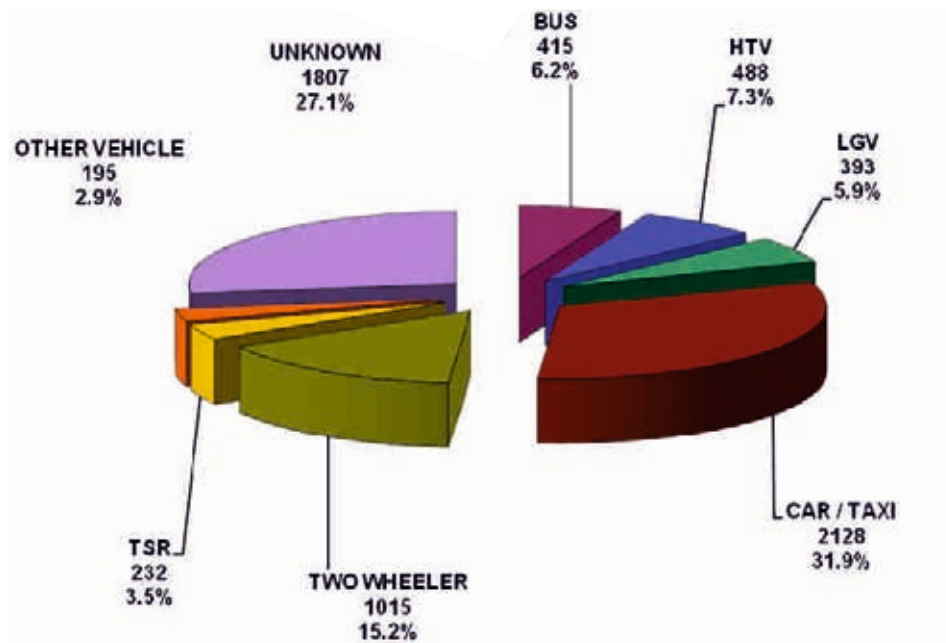


TABLE – 4.1
PROFILE OF VEHICLES AT FAULT

| TYPES OF VEHICLE | FATAL ACCIDENTS | | | | | SIMPLE ACCIDENTS | | | | | TOTAL ACCIDENTS | | | | |
|--------------------|-----------------|------|------|------|------|------------------|------|------|------|------|-----------------|------|------|------|------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2013 | 2014 | 2015 | 2016 | 2017 | 2013 | 2014 | 2015 | 2016 | 2017 |
| DELIVERY VAN | 22 | 22 | 19 | 22 | 20 | 107 | 122 | 98 | 92 | 79 | 129 | 144 | 117 | 114 | 99 |
| TEMPO | 113 | 103 | 82 | 76 | 71 | 331 | 350 | 279 | 234 | 223 | 444 | 453 | 361 | 310 | 294 |
| PRIVATE CAR | 265 | 277 | 277 | 261 | 280 | 2073 | 2435 | 2377 | 2089 | 1722 | 2338 | 2712 | 2654 | 2350 | 2002 |
| TAXI | 10 | 5 | 15 | 19 | 7 | 75 | 90 | 101 | 139 | 119 | 85 | 95 | 116 | 158 | 126 |
| MINI BUS | 15 | 7 | 14 | 16 | 20 | 56 | 64 | 62 | 67 | 43 | 71 | 71 | 76 | 83 | 63 |
| PRIVATE BUS | 42 | 39 | 35 | 45 | 38 | 70 | 111 | 112 | 105 | 75 | 112 | 150 | 147 | 150 | 113 |
| CLUSTER BUS | 7 | 13 | 24 | 11 | 14 | 12 | 41 | 35 | 41 | 53 | 19 | 54 | 59 | 52 | 67 |
| SCHOOL BUS | 2 | 4 | 5 | 3 | 1 | 10 | 10 | 3 | 3 | 4 | 12 | 14 | 8 | 6 | 5 |
| DTC BUS | 66 | 40 | 32 | 31 | 28 | 187 | 165 | 114 | 99 | 111 | 253 | 205 | 146 | 130 | 139 |
| OTHER STATE BUS | 15 | 9 | 7 | 3 | 9 | 11 | 27 | 17 | 8 | 19 | 26 | 36 | 24 | 11 | 28 |
| MATADOOR | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| TRACTOR | 24 | 12 | 13 | 26 | 20 | 38 | 27 | 32 | 34 | 25 | 62 | 39 | 45 | 60 | 45 |
| ROAD ROLLER | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 |
| BYCYCLE | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| CYCLE RICKSHAW | 0 | 2 | 1 | 0 | 0 | 3 | 1 | 0 | 3 | 2 | 3 | 3 | 1 | 3 | 2 |
| BULLOCK CART | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| AMBULANCE | 1 | 0 | 0 | 1 | 0 | 7 | 6 | 3 | 5 | 5 | 8 | 6 | 3 | 6 | 5 |
| CRANE | 11 | 10 | 8 | 6 | 7 | 18 | 16 | 24 | 10 | 21 | 29 | 26 | 32 | 16 | 28 |
| POLICE VEHICLE | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 1 | 2 | 0 | 1 | 1 | 1 | 2 | 2 |
| GOODS CARRIER * | 268 | 218 | 232 | 171 | 165 | 445 | 461 | 401 | 339 | 295 | 713 | 679 | 633 | 510 | 460 |
| TONGA/REHRA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 2 | 0 | 1 |
| MILITARY VEH. | 1 | 2 | 1 | 5 | 3 | 4 | 2 | 2 | 0 | 1 | 5 | 4 | 3 | 5 | 4 |
| TSR | 17 | 27 | 20 | 26 | 23 | 165 | 201 | 211 | 196 | 209 | 182 | 228 | 231 | 222 | 232 |
| TANKER | 14 | 19 | 17 | 10 | 4 | 29 | 39 | 50 | 24 | 24 | 43 | 58 | 67 | 34 | 28 |
| GRAMIN SEWA | 16 | 17 | 9 | 11 | 7 | 103 | 91 | 67 | 48 | 50 | 119 | 108 | 76 | 59 | 57 |
| SCOOTER / M. CYCLE | 159 | 137 | 147 | 155 | 140 | 940 | 1167 | 1078 | 970 | 875 | 1099 | 1304 | 1225 | 1125 | 1015 |
| CALL CENTER CAB | 1 | 0 | 0 | 0 | 1 | 2 | 5 | 7 | 2 | 7 | 3 | 5 | 7 | 2 | 8 |
| E_RICKSHAW | 0 | 2 | 0 | 2 | 5 | 0 | 18 | 9 | 26 | 38 | 0 | 20 | 9 | 28 | 43 |
| UNKNOWN VEHICLE | 706 | 662 | 623 | 647 | 700 | 1100 | 1543 | 1418 | 1289 | 1107 | 1806 | 2205 | 2041 | 1936 | 1807 |

*Goods Carrier includes HTV Trucks, Trailers and Containers

TABLE - 4.2
PERCENT SHARE OF IMPACTING VEHICLE (FATAL ACCIDENTS)

| TYPES OF VEHICLE | FATAL ACCIDENTS | | | | | SIMPLE ACCIDENTS | | | | | TOTAL ACCIDENTS | | | | |
|-------------------|-----------------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| | 2013 | 2014 | 2015 | 2016 | 2017 | 2013 | 2014 | 2015 | 2016 | 2017 | 2013 | 2014 | 2015 | 2016 | 2017 |
| BUSES | 8.26 | 6.87 | 7.39 | 7.04 | 7.02 | 5.97 | 5.97 | 5.27 | 5.54 | 5.97 | 5.57 | 6.14 | 5.68 | 5.85 | 6.21 |
| HTV | 15.86 | 14.54 | 15.73 | 11.69 | 10.79 | 8.18 | 7.14 | 6.93 | 6.22 | 6.24 | 10 | 8.54 | 8.65 | 7.37 | 7.31 |
| LGV | 7.59 | 7.67 | 6.38 | 6.33 | 5.81 | 7.56 | 6.74 | 5.79 | 5.59 | 5.91 | 7.57 | 6.92 | 5.91 | 5.74 | 5.88 |
| CAR / TAXI | 15.46 | 17.31 | 18.45 | 18.08 | 18.33 | 37.11 | 36.10 | 38.10 | 38.23 | 36.04 | 32.02 | 32.55 | 34.26 | 34.00 | 31.88 |
| TSR | 0.95 | 1.65 | 1.26 | 1.67 | 1.46 | 2.85 | 2.87 | 3.24 | 3.36 | 4.09 | 2.24 | 2.64 | 2.85 | 3.01 | 3.47 |
| SCOOTER/ M. CYCLE | 8.94 | 8.41 | 9.29 | 10.01 | 8.94 | 16.24 | 16.68 | 16.57 | 16.64 | 17.12 | 14.52 | 15.12 | 15.15 | 15.25 | 15.21 |
| UN- KNOWN | 39.70 | 40.63 | 39.38 | 41.79 | 44.72 | 19 | 22.06 | 21.80 | 22.12 | 21.67 | 23.86 | 25.57 | 25.24 | 26.25 | 27.07 |
| OTHER VEHICLE | 3.24 | 2.88 | 2.08 | 3.39 | 2.87 | 3.09 | 2.40 | 2.26 | 2.30 | 2.93 | 4.22 | 2.49 | 2.22 | 2.53 | 2.92 |

Table 4.3 provides details of victims versus impacting vehicles for fatal accidents.

TABLE - 4.3
VICTIM V/S IMPACTING VEHICLE (FATAL ACCIDENTS)

| VICTIMS | IMPACTING VEHICLE AT FAULT | | | | | | | | | | | | | | | | | | | | | | | |
|------------|----------------------------|------|------|------|------------------------|------|------|------|-------|------|----------|------|-----------------|------|------|------|---------|------|----------|------|--------|------|-------|------|
| | HTV | | LGV | | * OTHER HEAVY VEHICLES | | BUS | | M.BUS | | ROADWAYS | | CAR/JEEP / TAXI | | TSR | | SC / MC | | UN-KNOWN | | OTHERS | | TOTAL | |
| | 2016 | 2017 | 2016 | 2017 | 2015 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 |
| CAR | 11 | 10 | 3 | 5 | 2 | 2 | 5 | 3 | 0 | 0 | 1 | 0 | 12 | 11 | 0 | 1 | 0 | 1 | 21 | 24 | 0 | 0 | 55 | 57 |
| BUS | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 4 | 3 |
| CYCLE | 9 | 15 | 4 | 6 | 1 | 1 | 1 | 7 | 1 | 1 | 0 | 0 | 19 | 12 | 2 | 0 | 3 | 5 | 11 | 15 | 1 | 3 | 52 | 65 |
| C.RIKSHAW | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 7 | 10 | 0 | 0 | 6 | 2 | 5 | 5 | 0 | 1 | 22 | 18 |
| HTV | 2 | 4 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 3 | 12 |
| TSR | 1 | 5 | 1 | 3 | 1 | 1 | 2 | 3 | 0 | 0 | 0 | 1 | 7 | 10 | 1 | 1 | 1 | 0 | 12 | 12 | 0 | 1 | 26 | 37 |
| PASSENGER | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 7 |
| PEDESTRIAN | 44 | 47 | 29 | 35 | 10 | 14 | 34 | 27 | 8 | 8 | 0 | 2 | 117 | 124 | 12 | 11 | 52 | 59 | 362 | 368 | 10 | 6 | 678 | 701 |
| SELF | 2 | 2 | 7 | 10 | 7 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 22 | 15 | 4 | 7 | 66 | 42 | 0 | 0 | 4 | 3 | 114 | 81 |
| LGV | 5 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 4 | 6 | 0 | 0 | 17 | 17 |
| SC/MC | 85 | 64 | 46 | 29 | 28 | 18 | 40 | 35 | 4 | 9 | 2 | 4 | 88 | 93 | 5 | 3 | 25 | 30 | 227 | 262 | 5 | 4 | 555 | 551 |
| OTHER | 4 | 1 | 4 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 8 | 2 | 0 | 1 | 1 | 3 | 5 | 0 | 0 | 17 | 16 |
| TOTAL | 164 | 157 | 98 | 91 | 49 | 39 | 90 | 81 | 16 | 20 | 3 | 9 | 280 | 287 | 26 | 23 | 155 | 140 | 647 | 700 | 20 | 18 | 1548 | 1565 |

* Other Heavy Vehicles include Trailer/ Container, Tanker, Crane, Steam Roller and Tractor

TABLE - 4.3 (A)
VICTIM V/S IMPACTING VEHICLE (TOTAL ACCIDENTS)

| VICTIMS | IMPACTING VEHICLE AT FAULT | | | | | | | | | | | | | | | | | | | | | | | |
|------------|----------------------------|------|------|------|------------------------|------|------|------|-------|------|----------|------|-----------------|------|------|------|---------|------|----------|------|--------|------|-------|------|
| | HTV | | LGV | | * OTHER HEAVY VEHICLES | | BUS | | M.BUS | | ROADWAYS | | CAR/JEEP / TAXI | | TSR | | SC / MC | | UN-KNOWN | | OTHERS | | TOTAL | |
| | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 | 2016 | 2017 |
| CAR | 65 | 55 | 31 | 39 | 11 | 18 | 26 | 29 | 1 | 3 | 3 | 2 | 205 | 149 | 8 | 10 | 11 | 10 | 57 | 48 | 2 | 3 | 420 | 365 |
| BUS | 6 | 8 | 4 | 1 | 1 | 2 | 7 | 7 | 1 | 0 | 0 | 0 | 3 | 3 | 3 | 0 | 2 | 0 | 1 | 3 | 1 | 1 | 29 | 25 |
| CYCLE | 20 | 25 | 18 | 11 | 6 | 3 | 11 | 15 | 5 | 2 | 1 | 1 | 85 | 64 | 7 | 5 | 51 | 44 | 32 | 27 | 7 | 8 | 243 | 205 |
| C.RIKSHAW | 4 | 0 | 4 | 8 | 1 | 1 | 7 | 7 | 0 | 1 | 0 | 0 | 43 | 46 | 5 | 4 | 16 | 13 | 12 | 8 | 2 | 3 | 94 | 91 |
| HTV | 9 | 12 | 0 | 4 | 1 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 6 | 0 | 1 | 1 | 1 | 2 | 4 | 0 | 2 | 16 | 35 |
| TSR | 15 | 13 | 8 | 11 | 3 | 4 | 16 | 7 | 2 | 0 | 0 | 2 | 103 | 89 | 11 | 7 | 5 | 6 | 35 | 38 | 1 | 3 | 199 | 180 |
| E_RIKSHAW | 3 | 2 | 6 | 7 | 3 | 0 | 4 | 4 | 1 | 0 | 0 | 0 | 29 | 27 | 4 | 3 | 1 | 3 | 4 | 2 | 1 | 0 | 56 | 48 |
| PASSENGER | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 55 | 7 | 11 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 75 |
| PEDESTRIAN | 105 | 99 | 121 | 107 | 27 | 41 | 96 | 99 | 23 | 17 | 1 | 7 | 820 | 690 | 78 | 94 | 674 | 597 | 1041 | 946 | 40 | 42 | 3026 | 2739 |
| SELF | 10 | 9 | 20 | 15 | 8 | 7 | 0 | 1 | 8 | 0 | 1 | 0 | 53 | 43 | 39 | 38 | 113 | 74 | 0 | 3 | 17 | 18 | 269 | 207 |
| LGV | 15 | 20 | 5 | 5 | 3 | 2 | 4 | 5 | 1 | 1 | 0 | 0 | 24 | 15 | 2 | 0 | 3 | 1 | 9 | 17 | 0 | 0 | 66 | 66 |
| SC/MC | 219 | 178 | 196 | 178 | 76 | 55 | 117 | 91 | 34 | 26 | 5 | 9 | 1116 | 970 | 63 | 64 | 239 | 261 | 741 | 705 | 34 | 38 | 2840 | 2575 |
| OTHER | 8 | 2 | 11 | 7 | 1 | 1 | 2 | 4 | 0 | 1 | 0 | 0 | 24 | 26 | 2 | 6 | 9 | 5 | 2 | 6 | 3 | 4 | 62 | 62 |
| TOTAL | 479 | 423 | 424 | 393 | 141 | 138 | 338 | 324 | 83 | 63 | 11 | 28 | 2508 | 2128 | 222 | 232 | 1125 | 1015 | 1936 | 1807 | 108 | 122 | 7375 | 6673 |

- **In 2017, 702 pedestrians have died in 701 accidents caused by all types of vehicles as compared to 678** pedestrian deaths in 2016. Pedestrians' casualties due to cars/jeeps/taxis were 124 this year in comparison to 117 in 2016. Two-wheelers caused 59 pedestrians' deaths in 2017 against 52 in 2016. 368 pedestrians were killed by unknown vehicles in 2017 against 362 in 2016.
- **Two wheeler riders have emerged as second most accident prone victims at 551 in the year 2017 in comparison to 555 in 2016.** These riders were worst hit by Cars/Jeeps/Taxis (93) followed by HTV (64) in 2017. A total of 262 riders were killed by unknown vehicles this year compared to 227 in 2016.
- **Fatal accidents by self vehicles accounted for 81 in 2017 as against 114 in 2016.** Further **two-wheeler riders top this category, 42 in 2017 as against 66 in 2016.** Cars/jeeps/taxis occupants are the next

higher number of victims of fatal accidents caused by own vehicle.

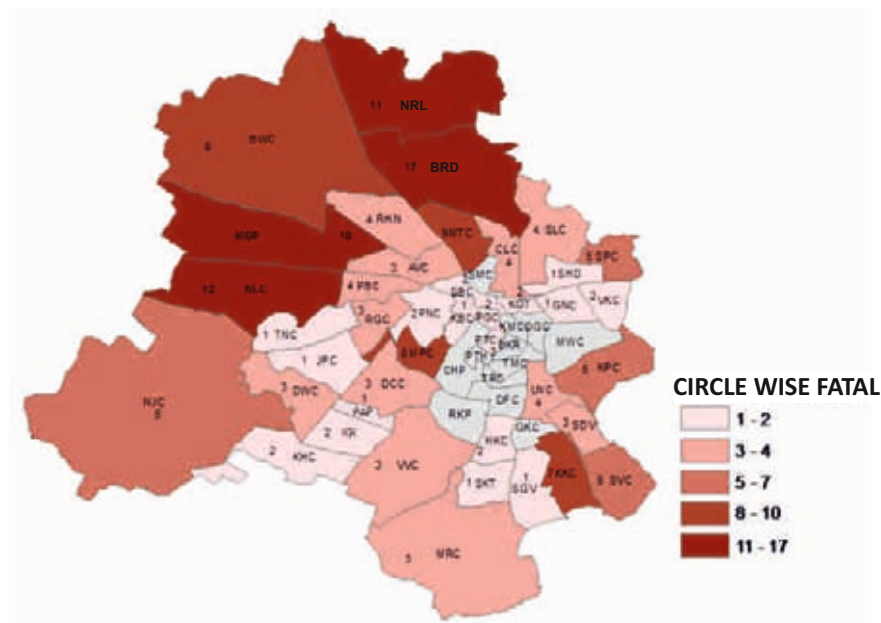
- There has been an increase in **Cyclists'** fatal accident during the year 2017 (65) over 2016 (52). These accidents have been caused by HTVs followed by cars and buses (Table 4.3).

Map 4.1 (HTV's), Map 4.2 (Buses), Map 4.3 (Cars) shows the traffic circle-wise details in terms of concentration of offending vehicle-wise fatal accidents.

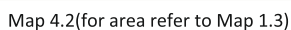
- There are more fatal accidents by trucks in **Burari, Narela, Nangloi and Mangol Puri Circles** (Map 4.1).
- Similarly, more fatality occurred due to **Buses near Najafgarh, Janakpuri, Tilak Nagar, ISBT Kashmiri Gate, Anand Vihar, Nangloi, Mayapuri, Defence colony, Daryaganj, Tilak marg, Shahdara, Vivek Vihar, Bawana and Burari Circles** (Map 4.2).

TOP CIRCLES IN FATAL ACCIDENTS

HTV'S FATAL ACCIDENTS



Map 4.1 (for area refer to Map 1.3)



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CIRCLE WISE FATAL

| | |
|---------------|---------|
| Light Pink | 1 - 3 |
| Light Red | 4 - 5 |
| Medium Red | 6 - 7 |
| Dark Red | 8 - 10 |
| Very Dark Red | 11 - 14 |

In about 53.09% of fatal accidents the importing vehicle remains unknown while this figure was around 33.16% in case of non-fatal accidents.

- More vehicles registered in **Delhi were involved in fatal accidents (67.8% of the vehicles with full registration details) followed by vehicles registered in Haryana (20.7% of the vehicles with full registration details)** (Table 4.4). This scenario is similar to that of the year 2016.
- In case of **simple accidents, vehicles registered in Delhi constituted 78.7%** of all accidents caused by known vehicles while vehicles registered in Haryana constituted 14.1%. Vehicles registered in Uttar Pradesh caused around 6.8% fatal and 4.66% simple accidents of all accidents caused by known vehicles. The number of accidents caused by vehicles registered in other states is insignificant from statistical point of view.
- Among the vehicles registered in other states involved in accidents in **Delhi, cars were involved in maximum number of fatal accidents followed by two wheelers, Buses, and LGVs** (Table 4.5). The cars registered in Delhi accounted for 189 (78.75%) of all fatal accidents by cars/jeeps.

Table – 4.4
ACCIDENTS CAUSED BY STATE-WISE REGISTERED VEHICLES - 2017

| STATE | NON-INJURY ACCIDENTS | SIMPLE ACCIDENTS | FATAL ACCIDENTS | TOTAL ACCIDENTS | PERSONS INJURED | PERSONS KILLED |
|-------------------|----------------------|------------------|-----------------|-----------------|-----------------|----------------|
| ANDHRA PRADESH | 0 | 2 | 1 | 3 | 4 | 1 |
| ASSAM | 0 | 1 | 0 | 1 | 3 | 0 |
| BIHAR | 0 | 0 | 1 | 1 | 0 | 1 |
| CHANDIGARH | 0 | 9 | 0 | 9 | 11 | 0 |
| CHHATTISGARH | 0 | 0 | 1 | 1 | 1 | 1 |
| DELHI | 68 | 2616 | 498 | 3182 | 3503 | 510 |
| GUJARAT | 0 | 5 | 1 | 6 | 10 | 1 |
| HARYANA | 9 | 469 | 152 | 630 | 681 | 155 |
| HIMACHAL PRADESH | 1 | 5 | 3 | 9 | 13 | 3 |
| JAMMU AND KASHMIR | 0 | 3 | 2 | 5 | 5 | 2 |
| JHARKHAND | 0 | 1 | 0 | 1 | 1 | 0 |
| KARNATAKA | 0 | 1 | 0 | 1 | 1 | 0 |
| MADHYA PRADESH | 0 | 1 | 0 | 1 | 1 | 0 |
| MAHARASHTRA | 0 | 3 | 2 | 5 | 4 | 2 |
| NAGALAND | 0 | 3 | 3 | 6 | 6 | 3 |
| PUNJAB | 0 | 13 | 4 | 17 | 18 | 4 |
| RAJASTHAN | 1 | 26 | 12 | 39 | 62 | 12 |
| SIKKIM | 0 | 0 | 1 | 1 | 1 | 1 |
| TAMIL NADU | 0 | 1 | 1 | 2 | 1 | 1 |
| UTTAR PRADESH | 10 | 155 | 50 | 215 | 209 | 50 |
| UTTARANCHAL | 0 | 10 | 2 | 12 | 12 | 2 |
| WEST BENGAL | 0 | 1 | 0 | 1 | 1 | 0 |
| UNKNOWN STATE | 2 | 1692 | 831 | 2525 | 2056 | 835 |
| TOTAL | 91 | 5017 | 1565 | 6673 | 6604 | 1584 |

- Among HTVs, Haryana registered vehicles were involved in 89 (57.8%) fatal accidents of all known state vehicles.

- In the bus category, 78 (82.97% of the vehicles with full registration details) Delhi registered buses were involved in fatal accidents in 2017 (Table 4.5). (Table 4.5).

Table – 4.5
STATE – WISE VEHICLE AT FAULT (FATAL ACCIDENTS) – 2017

| STATE | VEHICLE AT FAULT | | | | | | | TOTAL |
|-------------------|------------------|-------|-------|----------|-------|------------------|-----------------|-------|
| | HTV'S | LGV'S | BUSES | CAR/TAXI | SC/MC | UNKNOWN VEHICLES | OTHERS VEHICLES | |
| ANDHRA PRADESH | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| BIHAR | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| CHHATTISGARH | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| DELHI | 31 | 65 | 78 | 189 | 103 | 0 | 32 | 498 |
| GUJARAT | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| HARYANA | 89 | 9 | 7 | 34 | 4 | 0 | 9 | 152 |
| HIMACHAL PRADESH | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| JAMMU AND KASHMIR | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| MAHARASHTRA | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 |
| NAGALAND | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| PUNJAB | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 4 |
| RAJASTHAN | 9 | 0 | 0 | 2 | 1 | 0 | 0 | 12 |
| SIKKIM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| TAMIL NADU | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| UTTAR PRADESH | 13 | 5 | 7 | 14 | 5 | 0 | 6 | 50 |
| UTTARANCHAL | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| UNKNOWN STATE | 15 | 10 | 16 | 47 | 25 | 699 | 19 | 831 |
| TOTAL | 169 | 91 | 110 | 287 | 140 | 700 | 68 | 1565 |

430 pedestrians were killed by unknown vehicles which accounted for 61.34% of all pedestrians killed in the year 2017 (Table 4.7).

- About 27.5% pedestrians were killed by vehicles with Delhi registration number followed by 6.6% with vehicles registered in Haryana (Table 4.7).
- In the category of two wheeler victims, 55.5% of two-wheeler rider victims were killed by unknown vehicles, 28.85% killed by Delhi registered vehicles and 9.6% were killed by Haryana registered vehicles.
- Similar trends as described above were observed in case of total accidents caused by vehicles of different states in Delhi (Table 4.8).
- **In case of accident by the vehicles registered in Haryana, 34.9% victims of fatal accident were two-wheeler riders, and 30.3% victims were pedestrians. (Table 4.7)**

Vehicles registered in Haryana were responsible for killing and injuring more two wheelers riders than pedestrians. This is opposite in case of other state vehicles.

On analyzing the fatal accident in terms of category of offending vehicles registered in Delhi state, it is found that private cars were responsible for the most of fatal accidents (189 i.e. 37.95%) followed by scooters/motor cycles (103 i.e. 20.7%) and buses (78 i.e.15.7%). (Table 4.5)

- Most victims of the accident caused by the vehicles registered with Delhi state were pedestrians (193 i.e. 38.75%) followed by scooterist/motor cyclists (159 i.e. 31.92%). In 'Self' induced fatal accidents caused by vehicles registered with Delhi state 81 fatal accidents were reported . (Table 4.7)
- Among the category of accidents caused by Delhi registered vehicles, maximum accidents were committed by private cars (1416 viz. 44.5%) followed by scooters/ motor cycles (766 viz. 24.1%). **(Table 4.6)** **A total of 155 'Self' induced accidents were caused by vehicles registered in Delhi.**

Table – 4.6
STATE V/S VEHICLE AT FAULT (ALL ACCIDENTS) – 2017

| STATE | VEHICLE AT FAULT | | | | | | | TOTAL |
|-------------------|------------------|-------|-------|----------|-------|------------------|-----------------|-------|
| | HTV'S | LGV'S | BUSES | CAR/TAXI | SC/MC | UNKNOWN VEHICLES | OTHERS VEHICLES | |
| ANDHRA PARDESH | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| ASSAM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| BIHAR | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| CHANDIGARH | 0 | 0 | 0 | 8 | 1 | 0 | 0 | 9 |
| CHHATTISGARH | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| DELHI | 123 | 316 | 310 | 1416 | 766 | 4 | 247 | 3182 |
| GUJARAT | 2 | 1 | 0 | 2 | 1 | 0 | 0 | 6 |
| HARYANA | 232 | 30 | 20 | 287 | 26 | 2 | 33 | 630 |
| HIMACHAL PARDESH | 6 | 2 | 1 | 0 | 0 | 0 | 0 | 9 |
| JAMMU AND KASHMIR | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 5 |
| JHARKHAND | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| KARNATAKA | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| MADHYA PARDESH | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| MAHARASHTRA | 0 | 1 | 0 | 3 | 1 | 0 | 0 | 5 |
| NAGALAND | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| PUNJAB | 6 | 1 | 6 | 3 | 0 | 1 | 0 | 17 |
| RAJASTHAN | 26 | 0 | 3 | 6 | 2 | 0 | 2 | 39 |
| SIKKIM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| TAMIL NADU | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 |
| UTTAR PARDESH | 28 | 11 | 24 | 102 | 24 | 1 | 25 | 215 |
| UTTARANCHAL | 5 | 0 | 1 | 5 | 1 | 0 | 0 | 12 |
| WEST BENGAL | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| UNKNOWN STATE | 48 | 31 | 49 | 291 | 189 | 1799 | 118 | 2525 |
| TOTAL | 488 | 393 | 415 | 2128 | 1015 | 1807 | 427 | 6673 |

Table – 4.7
STATE V/S VICTIM (FATAL ACCIDENTS) – 2017

| STATE | VICTIMS | | | | | | | | | | | | |
|-------------------|---------|-------|-------|----------|-------|-------|-------------|-----------------|----------|------------|------------|------|--------|
| | HTV'S | LGV'S | BUSES | CAR/TAXI | TSR'S | SC/MC | E_RICKSHAWS | CYCLE RICKSHAWS | CYCLISTS | PEDESTRIAN | PASSANGERS | SELF | OTHERS |
| ANDHRA PARDESH | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BIHAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| CHHATTISGARH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| DELHI | 5 | 1 | 2 | 16 | 13 | 159 | 3 | 9 | 29 | 193 | 2 | 61 | 5 |
| GUJARAT | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HARYANA | 4 | 5 | 0 | 9 | 4 | 53 | 0 | 2 | 16 | 46 | 2 | 9 | 2 |
| HIMACHAL PARDESH | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| JAMMU AND KASHMIR | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| MAHARASHTRA | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NAGALAND | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PUNJAB | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| RAJASTHAN | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 0 | 3 | 2 | 0 | 0 | 0 |
| SIKKIM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TAMIL NADU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| UTTAR PARDESH | 0 | 3 | 0 | 2 | 2 | 16 | 0 | 1 | 0 | 22 | 1 | 2 | 1 |
| UTTARANCHAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| UNKNOWN VEHICLES | 3 | 8 | 0 | 29 | 17 | 306 | 1 | 6 | 17 | 430 | 2 | 8 | 4 |
| TOTAL | 12 | 17 | 3 | 57 | 37 | 551 | 4 | 18 | 65 | 701 | 7 | 81 | 12 |

Table – 4.8
STATE V/S VICTIM (TOTAL ACCIDENTS) – 2017

| STATE | VICTIMS | | | | | | | | | | | | | TOTAL |
|-------------------|---------|-------|-------|----------|-------|-------|-------------|-----------------|----------|-------------|------------|------|--------|-------|
| | HTV'S | LGV'S | BUSES | CAR/TAXI | TSR'S | SC/MC | E_RICKSHAWS | CYCLE RICKSHAWS | CYCLISTS | PEDESTRIANS | PASSANGERS | SELF | OTHERS | |
| ANDHRA PARDESH | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 |
| ASSAM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| BIHAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| CHANDIGARH | 0 | 0 | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 9 |
| CHHATTISGARH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| DELHI | 17 | 23 | 14 | 201 | 95 | 1201 | 39 | 63 | 107 | 1177 | 52 | 155 | 38 | 3182 |
| GUJARAT | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 6 |
| HARYANA | 11 | 13 | 3 | 65 | 21 | 274 | 2 | 8 | 32 | 170 | 4 | 18 | 9 | 630 |
| HIMACHAL PARDESH | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 9 |
| JAMMU AND KASHMIR | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 5 |
| JHARKHAND | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| KARNATAKA | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| MADHYA PARDESH | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| MAHARASHTRA | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 |
| NAGALAND | 1 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| PUNJAB | 0 | 2 | 0 | 1 | 0 | 9 | 0 | 1 | 0 | 3 | 1 | 0 | 0 | 17 |
| RAJASTHAN | 1 | 0 | 4 | 5 | 1 | 12 | 0 | 0 | 4 | 10 | 1 | 1 | 0 | 39 |
| SIKKIM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| TAMIL NADU | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| UTTAR PARDESH | 0 | 6 | 1 | 24 | 8 | 83 | 0 | 2 | 12 | 63 | 3 | 8 | 5 | 215 |
| UTTARANCHAL | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 12 |
| WEST BENGAL | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| UNKNOWN STATE | 5 | 22 | 3 | 62 | 53 | 968 | 6 | 17 | 50 | 1293 | 12 | 24 | 10 | 2525 |
| TOTAL | 35 | 66 | 25 | 366 | 180 | 2575 | 48 | 91 | 205 | 2739 | 73 | 208 | 62 | 6673 |
