



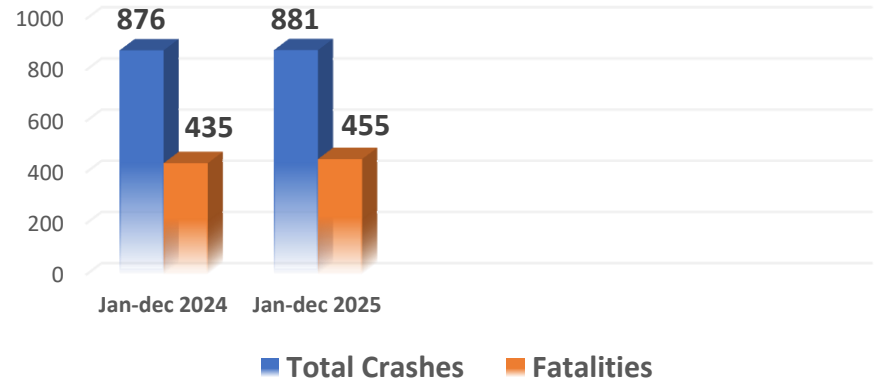
# Road accident analysis- Nagpur (Rural)

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# COMPARISON OF ACCIDENT DATA 2024-2025

Monthwise	Total Crashes	Fatalities
Jan-Dec 2024	876	435
Jan-Dec 2025	881	455

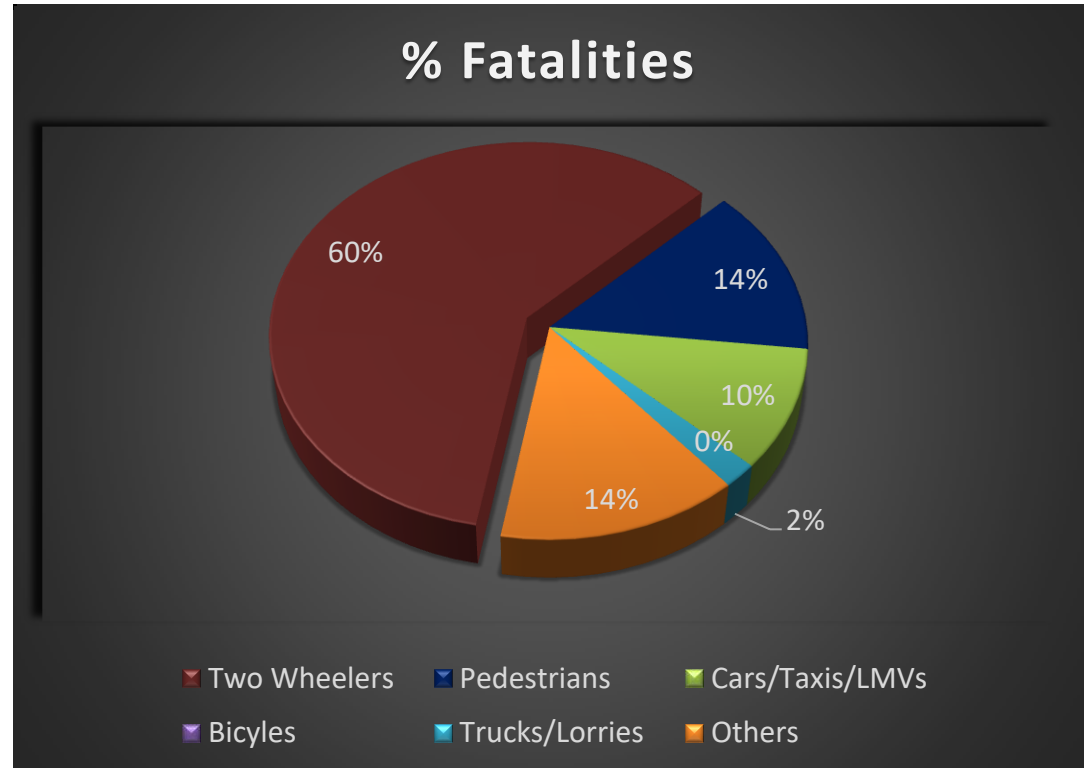
## COMPARISON OF ACCIDENT DATA 2024-2025



Difference between 2024 2025		% Rise in fatalities
Accidents	Fatalities	
5	20	4.59%

# ACCIDENTS AS PER MODE OF TRANSPORT

Mode of transport	% Fatalities
Two Wheelers	60
Pedestrians	14
Cars/Taxis/LMVs	10
Bicycles	0
Trucks/Lorries	2
Others	14



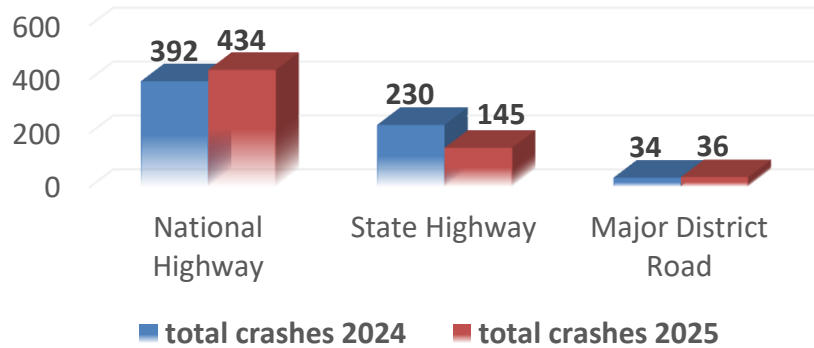
# ROADWISE ACCIDENT DATA 2024

Classification of Road		Number of Accidents					Persons Involved	
		Fatal	Non Fatal			Total	Killed	
			Grievous Injury	Minor Injury (Hospitalised)	Minor Injury (Non Hospitalised)			No Injury
1	National Highway	177	127	79	7	2	392	197
2	State Highway	99	82	44	2	3	230	116
3	Major District Road	13	18	3	0	0	34	13
<b>TOTAL</b>		<b>289</b>	<b>227</b>	<b>126</b>	<b>9</b>	<b>5</b>	<b>656</b>	<b>326</b>

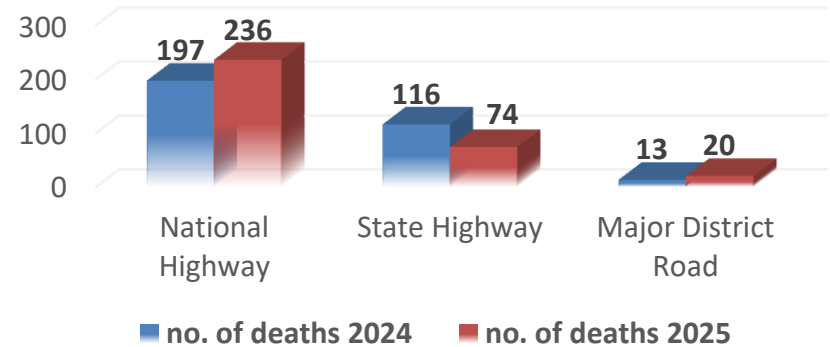
# ROADWISE ACCIDENT DATA 2025

Classification of Road		Number of Accidents					Persons Involved	
		Fatal	Non Fatal			Total	Killed	
			Grievous Injury	Minor Injury (Hospitalised)	Minor Injury (Non Hospitalised)			No Injury
1	National Highway	208	132	79	7	8	434	236
2	State Highway	68	57	17	1	2	145	74
3	Major District Road	18	13	5	0	0	36	20
<b>TOTAL</b>		<b>294</b>	<b>202</b>	<b>101</b>	<b>8</b>	<b>10</b>	<b>615</b>	<b>330</b>

## TOTAL CRASHES ROADWISE 2024-2025



## NO. OF DEATHS ROADWISE 2024-2025



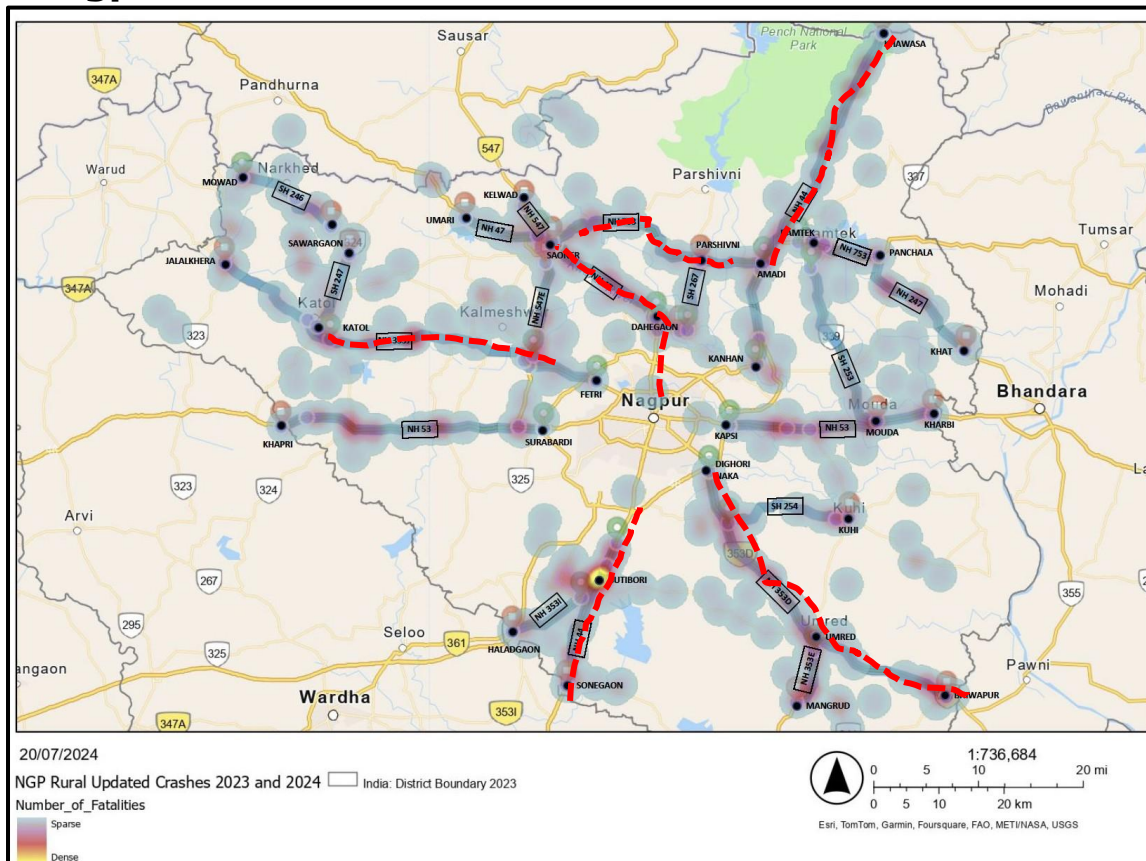
# Fatality Trend : Top Six HFC

January – Dec 2024 vs 2025

S No	Corridor	2024	2025	%Change
1	NH 44 (Nagpur - Deolapar)	11	26	↑ +136%
2	NH 53 (Nagpur - Kondhali)	6	14	↑ +133%
3	NH 44 (Nagpur - Bori)	13	17	↑ +31%
4	NH 47 (Nagpur - Saoner)	8	12	↑ +50%
5	NH 353D (Nagpur - Bhiwapur)	11	14	↑ +27%
6	NH 753 (Mansar - Saoner)	8	12	↑ +50%

# Best Practice 1: Data Analysis

## Nagpur Rural: Critical Corridors



## List of highways

- 1 **NH 44 Nagpur to Deolapar**
- 2 **NH 353D: Nagpur to Umred**
- 3 **NH 53: Nagpur to Mauda**
- 4 **NH 53: Nagpur to Kondhali**
- 5 **NH 47: Nagpur to Saoner**
- 6 **NH 44: Nagpur to Butibori**
- 7 **NH 247: Mansar to Bhandara**
- 8 **SH 247: Laxminagar-Sawargaon**
- 9 **SH 248: Nagpur to Katol**

**Data Source:** Nagpur Rural Police Crash Data for year 2023 and 2024



# Action Plan : NHA I

## NH 44 (Nagpur - Deolapar)

### Common Issues at Amdi, Ramtek Entry Point, Chourbowri, and Deolapar on NH 44

1. Absent and discontinued crash barrier on the median and on the shoulders.
2. Improper end treatment of crash barriers.
3. Edge drops along the roadway
4. Presence of the sudden lane drops
5. Inadequate illumination near the built-up area.
6. Absent road studs on highway, which reduces the night time visibility on the road.
7. Untreated minor road merging sections.
8. Untreated entry and exit points of the service roads.
9. Underpass of flyover is ineffective due to untreated median openings at Sitapur section.
10. Inadequate traffic calming measures downhill grades of the on all flyovers.
11. Absent/inadequate speed calming measures at the entry point of built up areas.
12. Absence of advance intimation boards for heavy vehicles near the RTO check post

# Action Plan : NHAI

## NH 44 (Nagpur - Deolapar)

### Common Enforcement Issues at Amdi, Ramtek Entry Point, ChourBowri, and Deolapar on NH 44

1. **Unauthorised parking** at the amadi section.
2. **Wrong side driving** at Moudi - Sitapur section.
3. **Cattle on roadways** near to Chorbahuli Village.
4. **Non-usage** of Helmets.
5. Presence of unauthorised pick-up and drop points along the highway.
6. Patrolling by NHAI patrol vehicles is inadequate.

# Action Plan : NHA1

## MHSK Dhaba

- Absence of crash barriers
- Lack of road studs
- Missing street lights
- Missing pavement markings

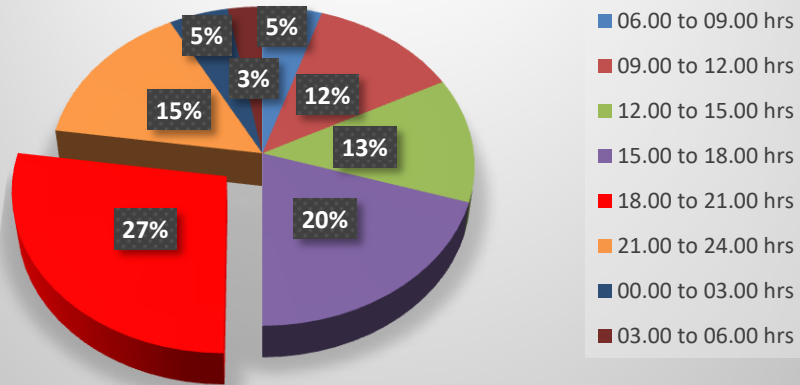


# Timewise Accident Data 2024 Jan to Dec

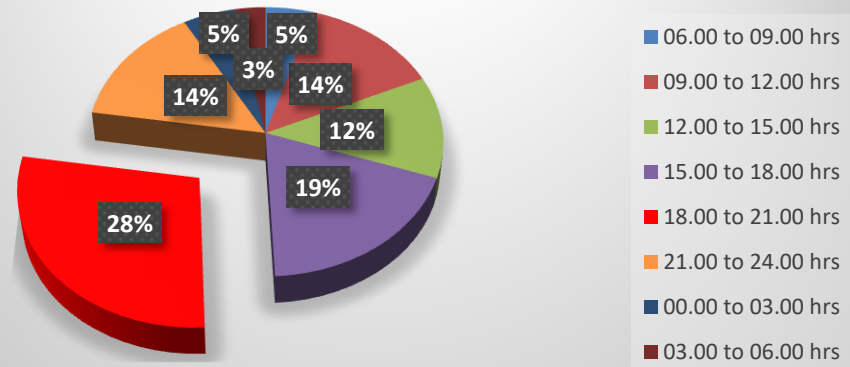
2024	Fatal crashes	Non Fatal Crashes			Total Non Fatal Crashes	Fatalities	Total Crashes
		Grievous Injury	Minor Injury	No Injury			
06.00 to 09.00 hrs	19	33	10	0	44	20	63
09.00 to 12.00 hrs	48	42	31	3	79	59	127
12.00 to 15.00 hrs	49	41	23	1	67	53	116
15.00 to 18.00 hrs	78	47	35	0	85	82	163
18.00 to 21.00 hrs	106	86	45	3	136	123	242
21.00 to 24.00 hrs	58	35	7	1	43	63	101
00.00 to 03.00 hrs	19	13	5	0	18	22	37
03.00 to 06.00 hrs	11	11	5	0	16	13	27
<b>TOTAL</b>	<b>388</b>	<b>308</b>	<b>161</b>	<b>8</b>	<b>488</b>	<b>435</b>	<b>876</b>

# Contd..

## Fatal crashes 2024



## Fatalities 2024

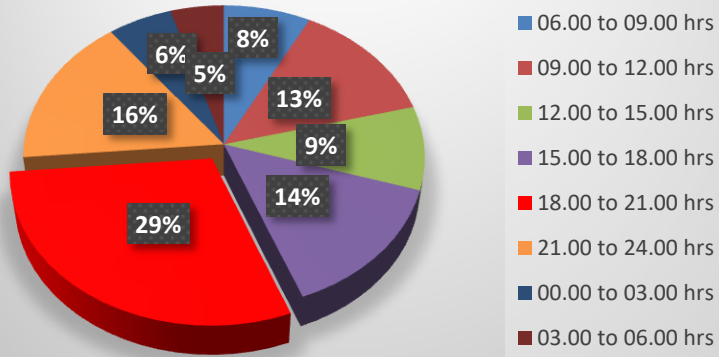


# Timewise Accident Data 2025 Jan to Dec

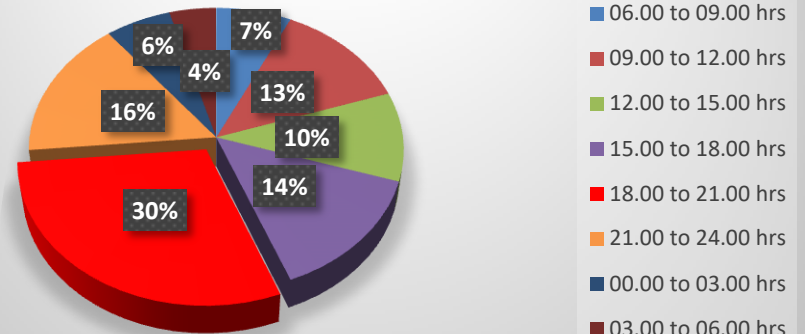
2025	Fatal crashes	Non Fatal Crashes			Total Non Fatal Crashes	Fatalities	Total Crashes
		Grievous Injury	Minor Injury	No Injury			
06.00 to 09.00 hrs	31	20	7	0	27	32	58
09.00 to 12.00 hrs	54	54	30	3	87	58	141
12.00 to 15.00 hrs	36	45	28	1	78	46	114
15.00 to 18.00 hrs	58	55	21	1	79	64	137
18.00 to 21.00 hrs	120	83	32	1	120	134	240
21.00 to 24.00 hrs	65	28	16	3	49	72	114
00.00 to 03.00 hrs	23	8	9	1	18	28	41
03.00 to 06.00 hrs	19	12	2	2	16	20	35
<b>TOTAL</b>	<b>406</b>	<b>305</b>	<b>145</b>	<b>12</b>	<b>474</b>	<b>454</b>	<b>880</b>

# Contd..

## Fatal crashes2025



## Fatalities2025



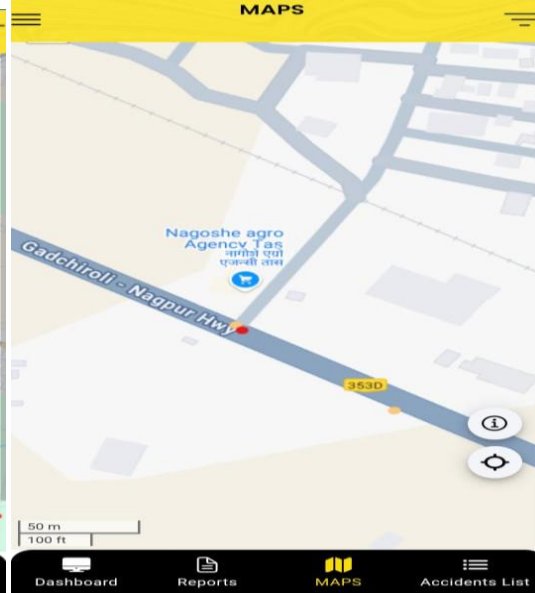
## Work Done On Black Spot :

Out of 37 Black spots in Nagpur Rural Jurisdiction, 31 are completed.  
Work is in progress on remaining 6 Black Spot:

1. Kanhan NH44- Near Kandri Bus Stop
2. Kanhan NH 44 – J.N. Hospital Chowk
3. Mouda- NH 53 Rabadiwala Point
4. Kelwad- NH353D Maru River Bridge
5. Bela- NH 547E Khurajgaon Mouja
6. MIDC Wardha Road – NH 361 Takal Ghat to Morzari Shivar.

# Vulnerable spot-Biwapur Tahsil

## TASGAON FATA



### Issues:

Narrow roads

Increased road side plantation

### Recommendations:

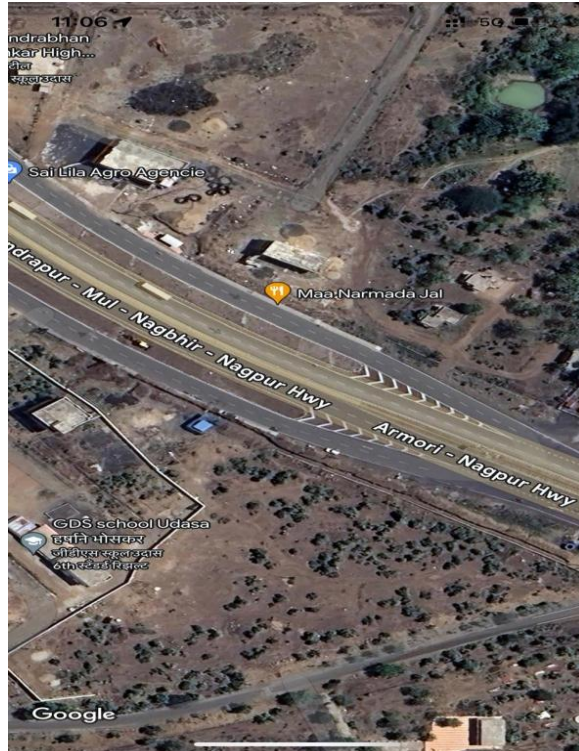
-T Junction

-Need Speed Breaker and Rumbler Strips and convex mirror to see other side traffic.

-Road widening is required.

# Umred Taluka

## CRASH INVESTIGATION Vulnerable spots (based on no. of accident) Udasa ,indian oil petrol pump



Gadchiroli Nagpur Highway,Udasa  
Indian Oil Petrol Pump

# CRASH INVESTIGATION

## Vulnerable spots



Maharashtra  
1 year ago

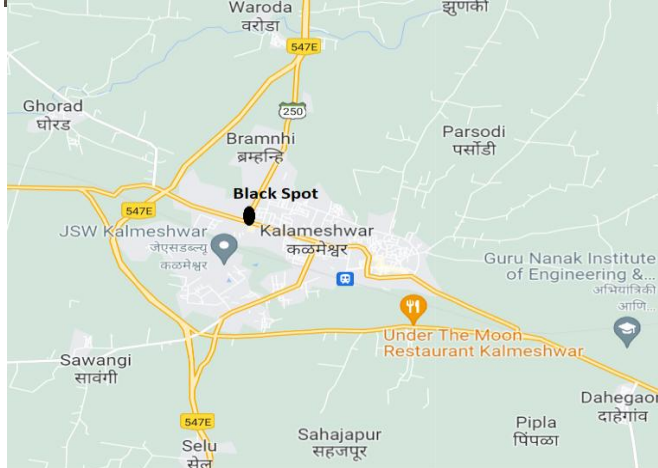


### Gadchiroli Nagpur Highway,Udasa Indian Oil Petrol Pump

S. No.	Location	Concerns Identified	Action Plan	
			Short term	Long term
1	Gadchiroli-Nagpur Highway Udasa near Indian Oil Petrol Pump	Descending highway road merging with the service road.	Use of Rumbler strips, road markings and traffic signs	Road widening, constructing road divider

**Place Name:** Brahmani T Point SH353J

**Latitude and Longitude:** 21°23'70.7"N 78°90'41.5"E



## Probable Causes:

1. Visibility issues for vehicles at the turn on the main road and connecting roads.
2. Vehicles suddenly entering the main road from narrow roads.
3. Speed of vehicles.
4. Encroachments on the main road.
5. Parking vehicles in "No Parking" zones.
6. Road markings need to be done.

## Solutions:

1. Install *rumbler strips* before the T-junction begins on the main road, along with signboards providing relevant information.
  2. Install speed limit signboards.
  3. Install speed breakers on the road coming from Brahmani village towards Kalmeswar, before reaching the main road.
  4. Remove encroachments on the road.
- **Long-term Solutions:**  
Widen the narrow road. Approval for the same has been granted by the Public Works Department.

# DYNAMIC SPEED INDICATORS



**THANK YOU**