

# ACCIDENT RESEARCH STUDY - RAJKOT

---

FOR THE DURATION OF JANUARY, 2018 TO AUGUST, 2018



# OBJECTIVE OF THE RESEARCH

---

Rajkot is the fourth largest city of Gujarat and has a population of about 1.8 million people. Gujarat has been making frog-leaping progress since the last two decades, and Rajkot too is not left behind. According to a Times of India Report, Gujarat has the highest number of vehicles with a ratio of 2.84 vehicles per 100 people. Although transportation has been the backbone of the development of urban areas, people's personal choices and freedom have resulted in a huge rise of privately owned vehicles. This has resulted in a decreasing use of public transport.

Rajkot has a dense road network. Because of the spread of commercial and industrial activities in the city and surrounding towns, the city road network leading to these surrounding towns is heavily congested. Traffic has been one of the major problems plaguing this city. With the increase in traffic woes, number of accidents have spiraled up in this city. With an average of 10 accidents every day, Rajkot is seeing a red flag in this aspect and needs to quickly bring down this number.

This research study analyzes the number of accidents in Rajkot from January'18 to August'18 and comes up with interesting analysis in terms of time, day, type and location of accidents. This in-depth analysis shall provide key insights for the government bodies to take appropriate steps to lower the accident rate in Rajkot.

# SALIENT POINTS

The report examines 1980 accidents that have occurred in Rajkot across its 11 police stations from January 2018 to August 2018.

There has been average reduction in number of accidents May onwards.

A significant amount of accidents (31%) occur on weekends.

Most of the accidents (28%) happen between 7pm and 10pm.

People aged 21 to 40 are involved in 50% of the accidents.

Majority of the accidents involve two wheelers (93%).

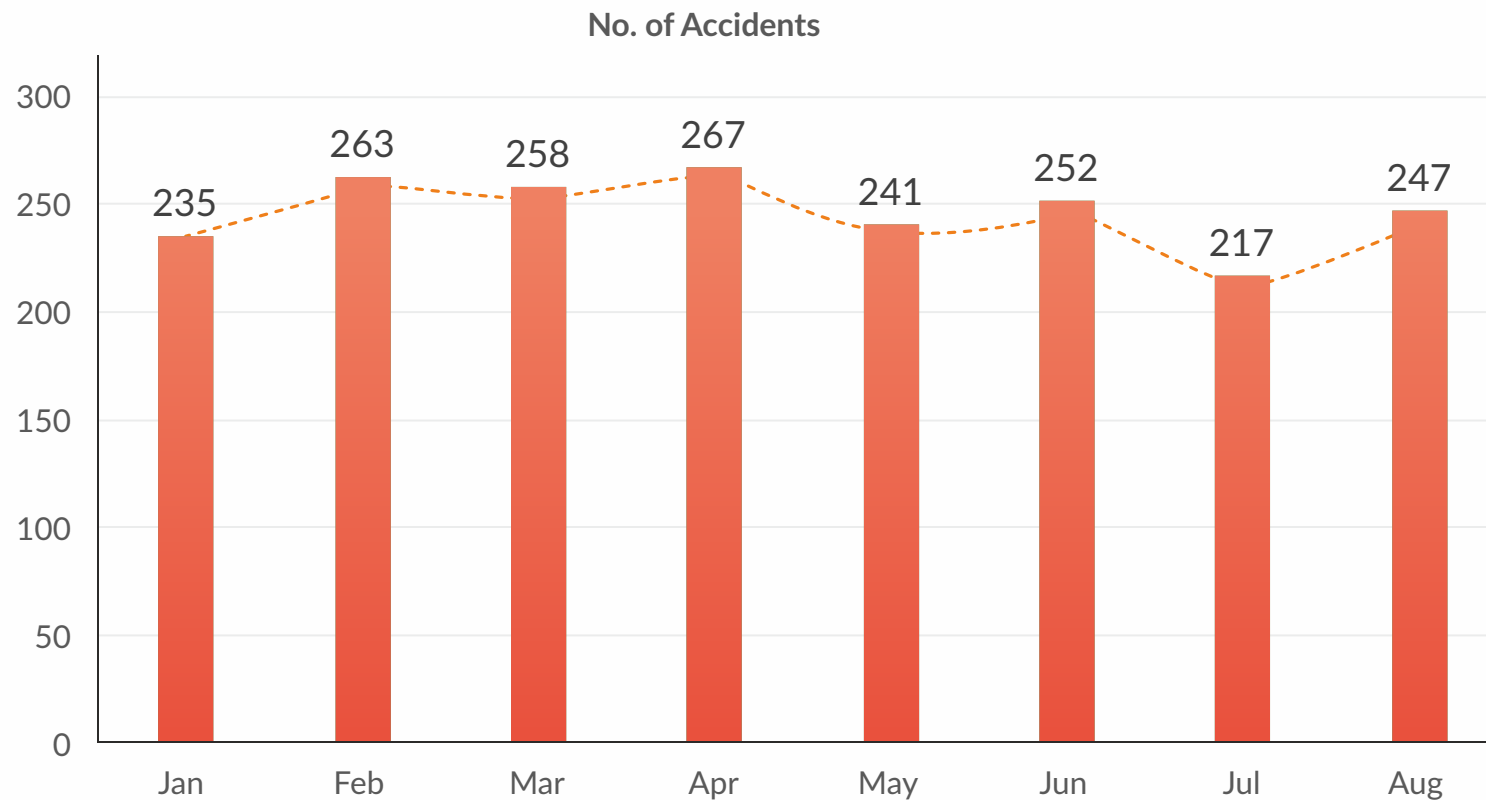
Weekend nights see a lot of accidents (11%).

Northern Rajkot has a higher accident rate.

Kuvadava Highway and Ajidem Highway are areas that are accident prone.

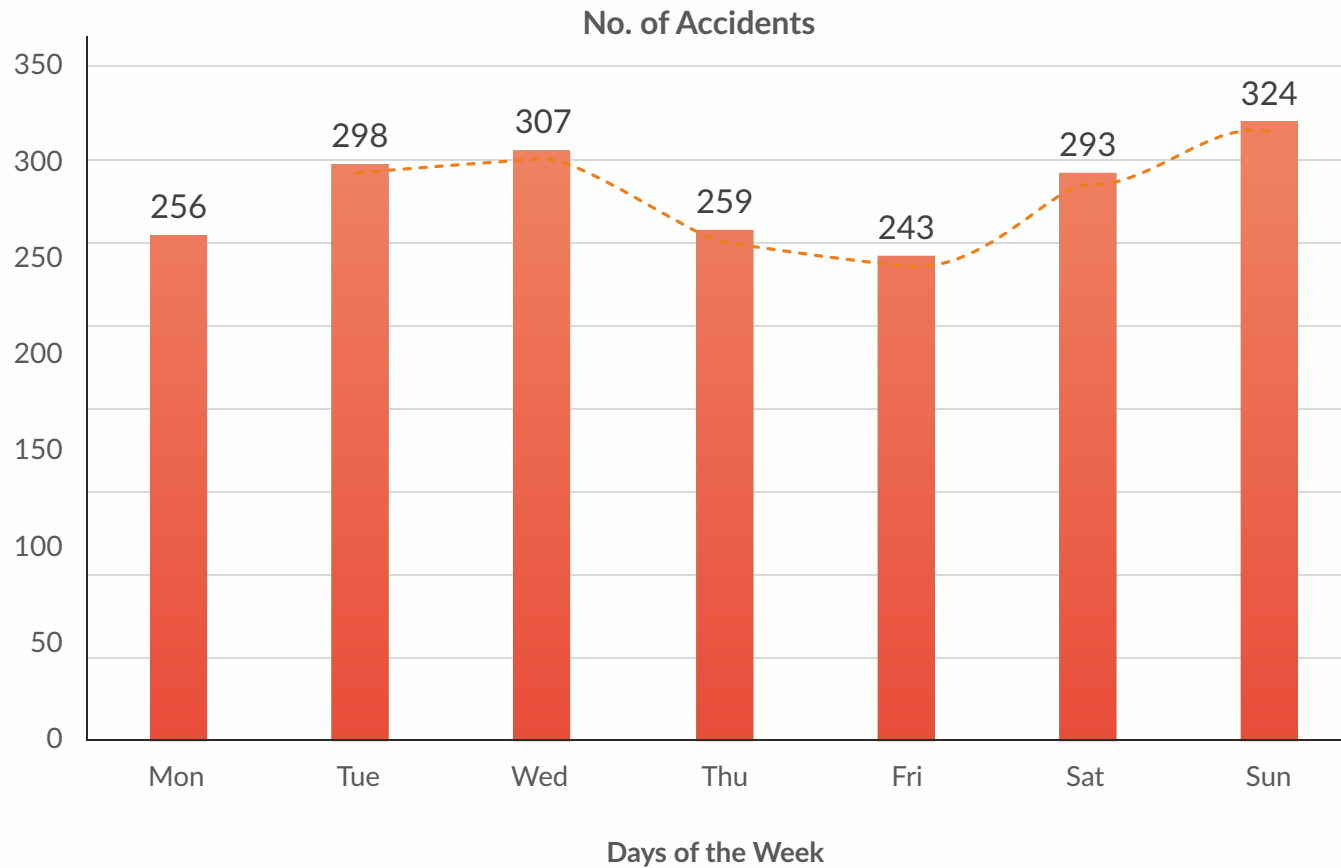
On Wednesdays, the rate of accidents shoot up as most of the industrial areas have a weekly day-off on this day.

# MONTH ANALYSIS



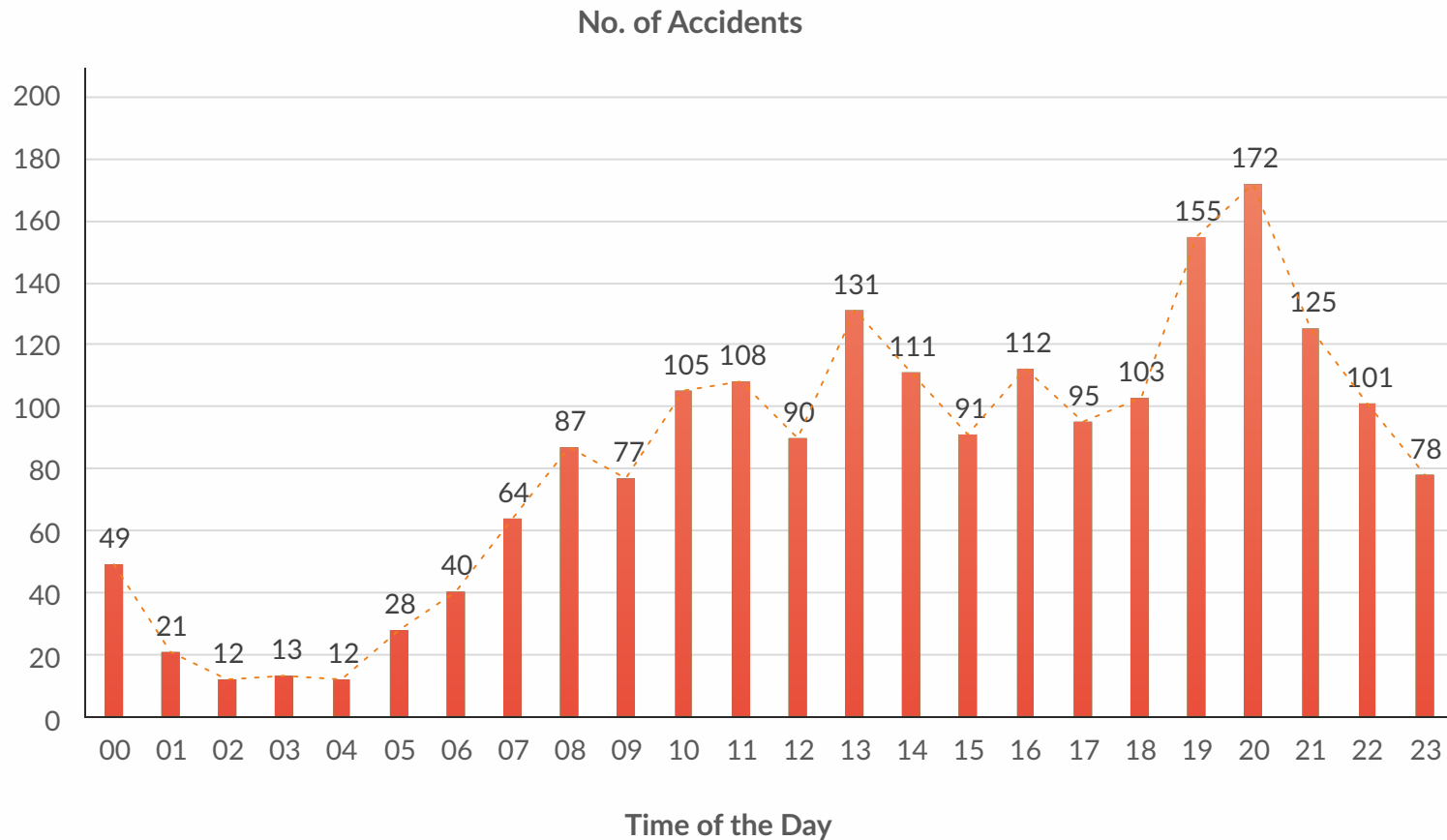
- The number of accidents have seen a rise till month of April where it reached the peak of 267 accidents.
- Post April there has been a reduction in accidents with July having only 217 accidents.

# DAY ANALYSIS



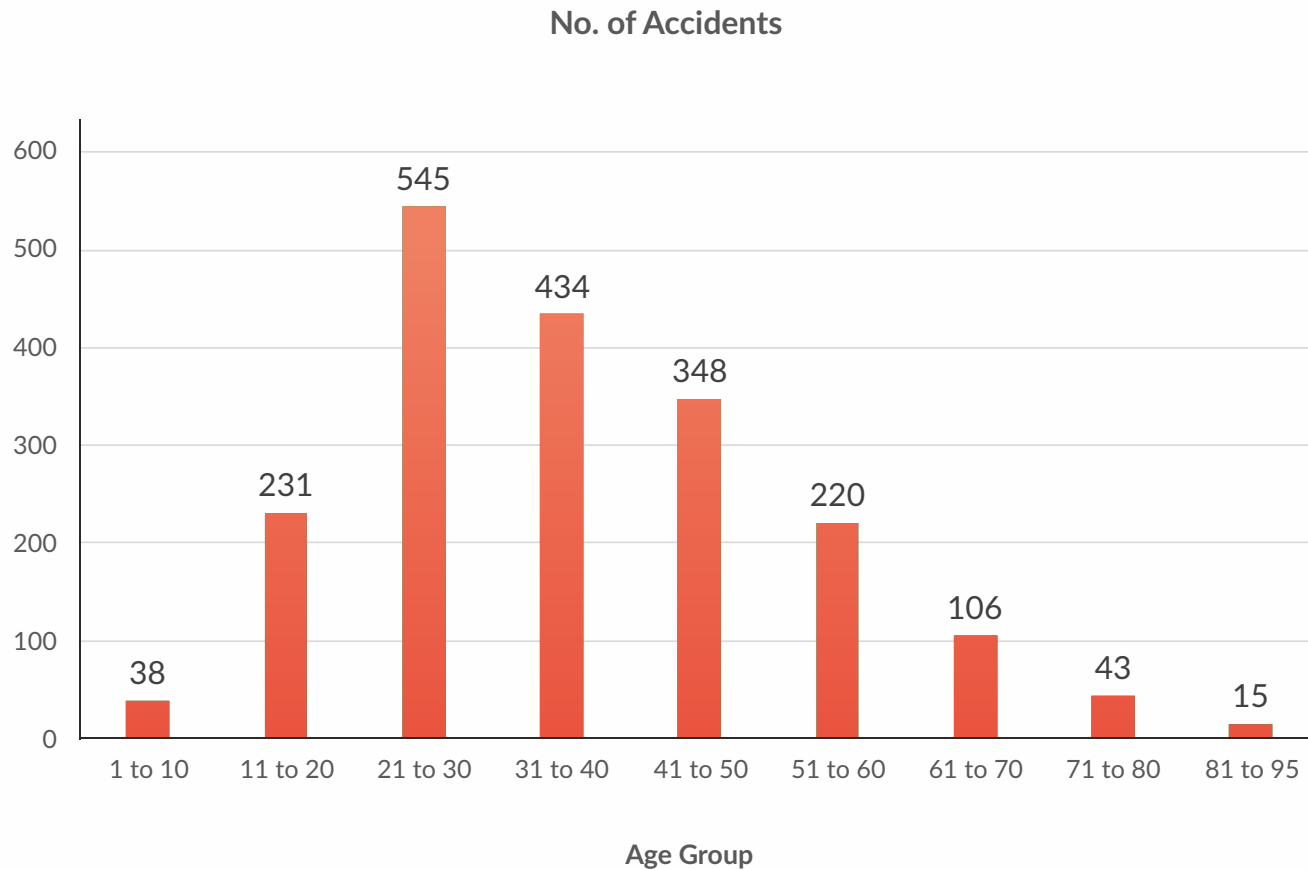
- Sunday makes up for the most number of accidents followed by Wednesday and Saturday.
- Weekends seem to be responsible for higher number of accidents.

# TIME ANALYSIS



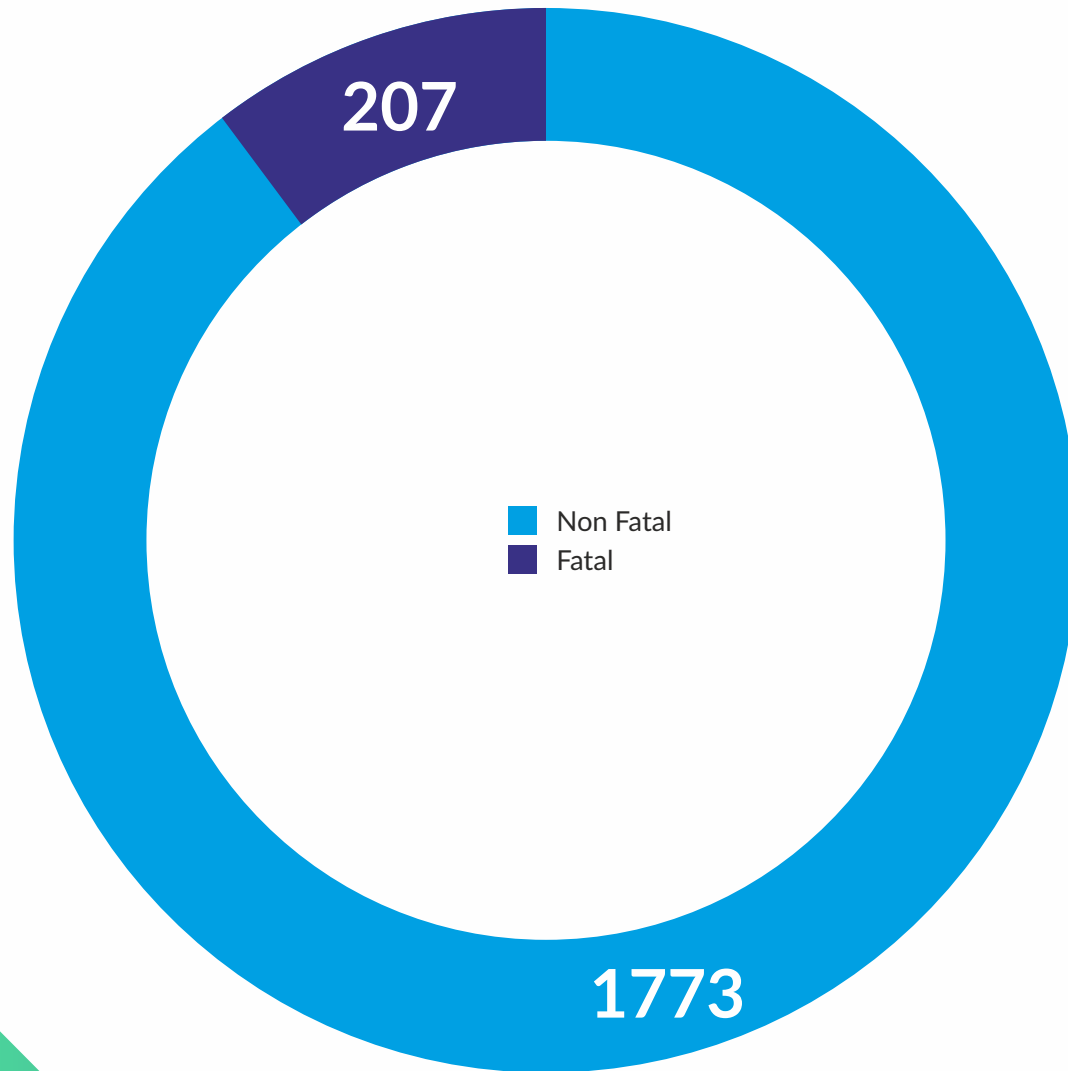
- Most accidents have happened from 7 pm to 10 pm as they make up for almost 28% of total accidents.
- Office hours have an average of over 100 accidents spread in the timespan.

# AGE ANALYSIS



- The age group of 21 to 30 years have been involved in maximum accidents (28%)
- They are followed by age group of 31 to 40 years.
- Together they makeup for 45% of

# FATAL vs NON FATAL



Out of the total accidents, around 10.50% are fatal accidents.



# HEAT MAP ANALYSIS OF DAY & TIME

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon	6	7	1	1	2	0	5	11	20	10	13	8	10	14	19	15	10	16	10	15	20	16	16	11
Tue	9	0	5	2	1	1	4	13	16	14	15	18	15	19	16	12	15	10	17	24	23	15	16	18
Wed	4	2	1	2	1	5	6	7	10	10	20	25	18	24	16	20	15	18	11	21	23	21	15	12
Thu	6	4	2	2	0	4	8	16	7	18	22	13	11	22	10	4	15	7	11	16	23	21	11	6
Fri	4	4	0	0	3	3	7	8	16	8	8	18	7	18	13	8	7	12	16	23	19	21	11	9
Sat	13	1	1	1	0	10	6	6	6	9	12	12	16	12	20	16	24	11	20	28	28	20	15	6
Sun	7	3	2	5	5	5	4	3	12	8	15	14	13	22	17	16	26	21	18	28	36	11	17	16

- Heat Map suggests that major accidents happen on nights of Saturday and Sunday.
- Weekend nights have been seen as a major factor for accidents.

# HEAT MAP ANALYSIS OF AGE GROUP & TIME

Age Group	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1 to 10	6	3	5	4	8	2	10
11 to 20	39	30	33	23	29	42	35
21 to 30	63	85	94	75	64	73	91
31 to 40	46	69	62	53	58	72	74
41 to 50	47	54	47	56	43	56	45
51 to 60	32	33	36	29	26	28	36
61 to 70	15	19	21	11	7	13	20
71 to 80	6	5	6	4	4	7	11
81 to 95	2	0	3	4	4	0	2

- Young age and weekend seem to be a combination making up for high number of accidents.
- Interestingly age group of 21 to 30 have abnormally high number of accidents on Wednesday.

# HEAT MAP ANALYSIS OF AGE GROUP & TIME

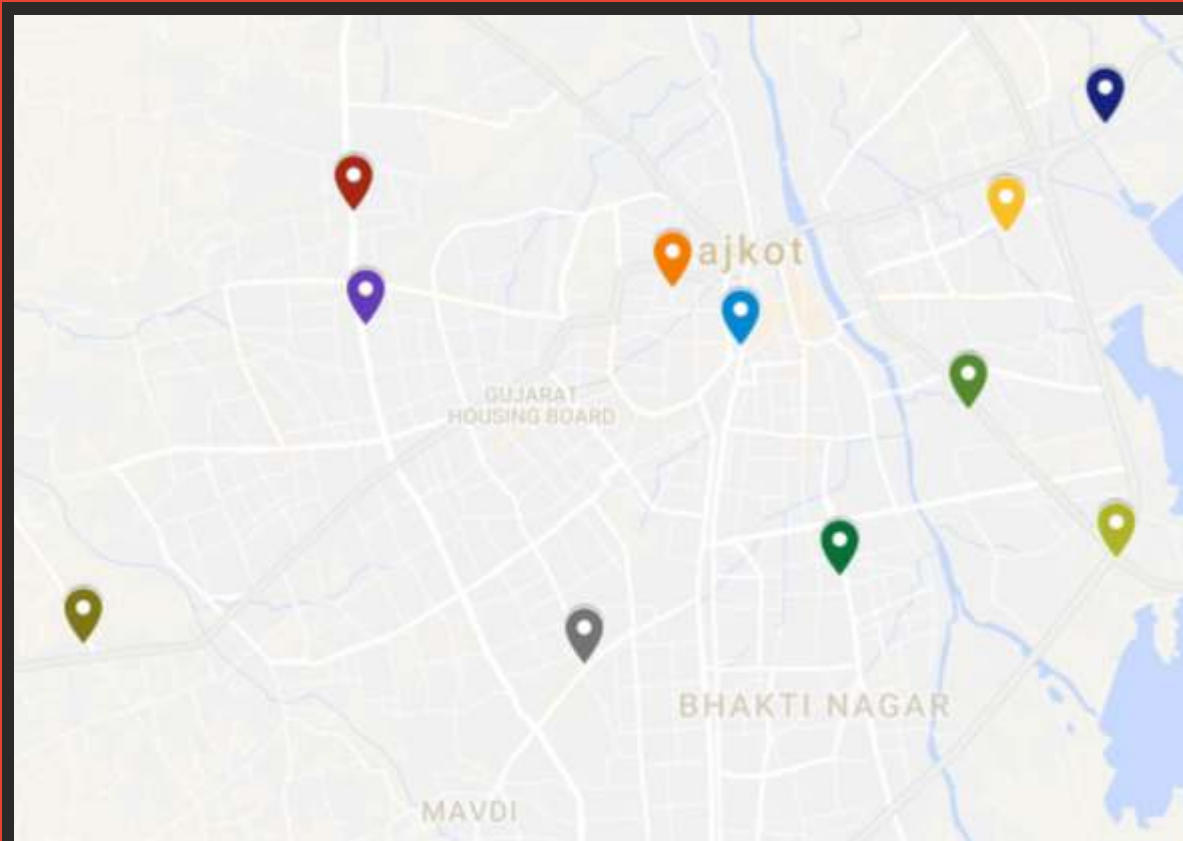
Age Group	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 to 10	0	0	0	0	0	1	1	4	1	0	3	2	1	3	1	2	3	3	6	5	0	2	0	0
11 to 20	5	3	1	1	0	2	1	15	13	14	6	8	16	20	15	12	13	10	7	17	20	10	10	12
21 to 30	20	10	6	4	7	9	11	13	21	14	28	27	21	23	34	26	27	18	23	43	46	49	34	31
31 to 40	9	3	3	3	0	8	5	14	20	15	18	23	16	33	26	18	22	23	23	31	44	31	22	24
41 to 50	8	3	2	3	4	4	10	13	14	15	23	21	12	27	18	15	26	18	17	26	28	18	18	5
51 to 60	4	1	0	2	1	2	7	1	9	15	14	18	14	15	11	8	10	11	11	16	26	9	11	4
61 to 70	3	1	0	0	0	2	3	4	6	2	7	5	6	9	1	9	7	3	10	12	7	4	3	2
71 to 80	0	0	0	0	0	0	2	0	3	2	5	3	2	1	3	0	3	9	3	3	1	1	2	0
81 to 95	0	0	0	0	0	0	0	0	0	0	1	1	2	0	2	1	1	0	3	2	0	1	1	0












Heat map clearly points out that young people are having maximum accidents in the time frame of 7 pm to 9 pm.

# POLICE STATION ANALYSIS


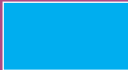



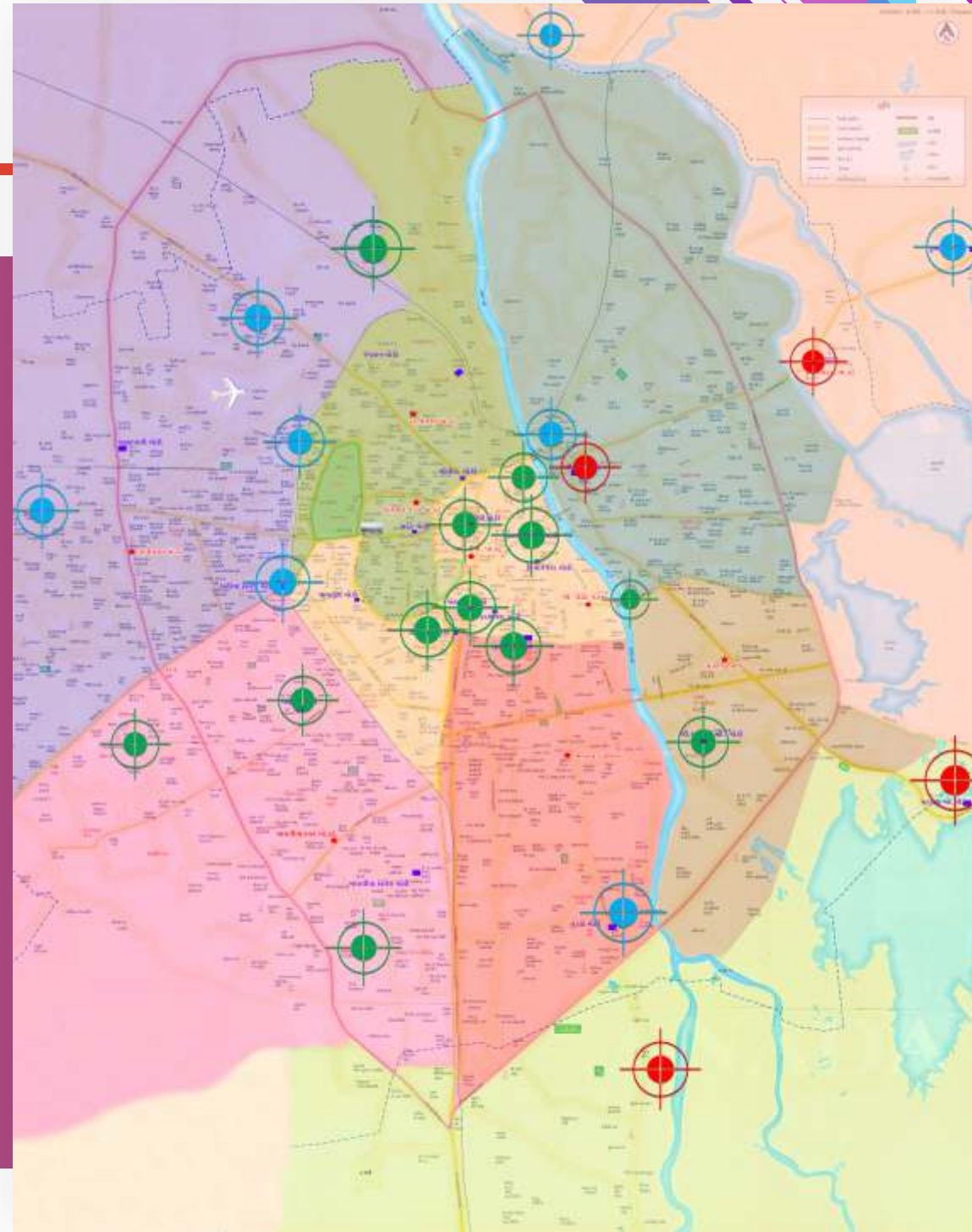
# RAJKOT POLICE STATIONS



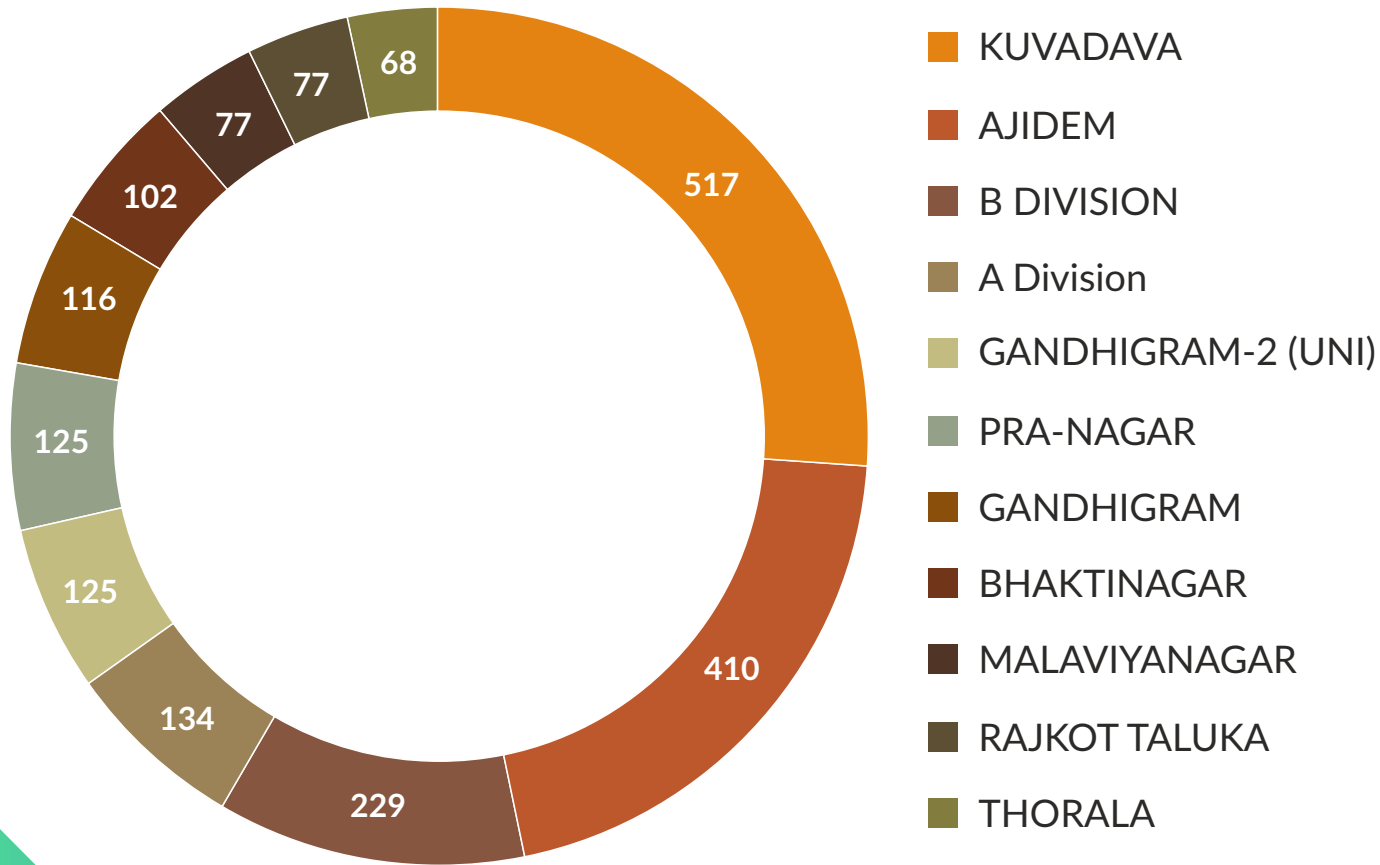
-  A - division Police Station
-  Ajidem Police Station
-  B - Divison Police Station
-  Bhakti Nagar Police Station
-  Gandhigram Police Station
-  Gandhigram - 2 (University) Police Station
-  Kuvadava Road Police Station
-  Malviya Nagar Police Station
-  Pradhyuman Nagar Police Station
-  Rajkot Taluka Police Station
-  Thorala Police Station

# RAJKOT CITY ANALYSIS

-  High Accident Zones
-  Medium Accident Zones
-  Low Accident Zones

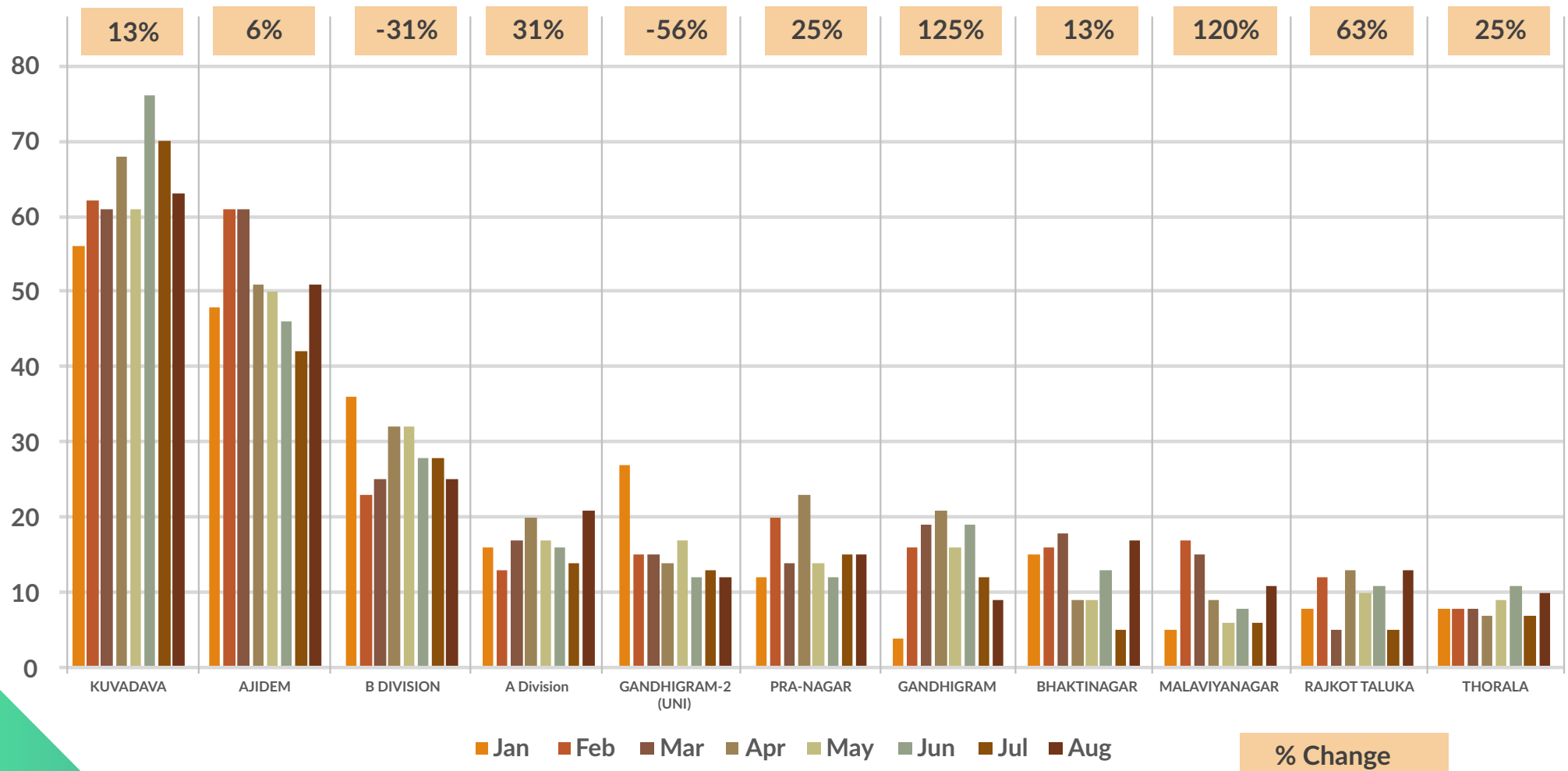


# ACCIDENT DISTRIBUTION



Kuvadava Police Station leads the tally with 517 accidents followed by Ajidem Police Station with 410 accidents.

# CHANGE IN RATE OF ACCIDENTS



Kuvadava Police Station has seen a rise in number of accidents by 13% while Gandhigram-2 (UNI) has seen a steep drop by 56% followed by B Division with drop of



# DAY-WISE HEAT MAP ANALYSIS

Days

Police Station	Mon	Tue	Wed	Thu	Fri	Sat	Sun
KUVADAVA	13%	14%	18%	10%	11%	15%	20%
AJIDEM	13%	14%	14%	15%	12%	16%	16%
B DIVISION	13%	20%	17%	11%	8%	14%	17%
A Division	16%	19%	9%	18%	11%	13%	13%
GANDHIGRAM -2 (UNI)	14%	15%	16%	15%	16%	12%	11%
PRA-NAGAR	16%	16%	16%	10%	10%	18%	15%
GANDHIGRAM	15%	16%	15%	14%	16%	11%	15%
BHAKTINAGAR	14%	13%	13%	14%	15%	19%	14%
MALAVIYANAGAR	10%	16%	18%	17%	16%	10%	13%
RAJKOT TALUKA	9%	13%	17%	17%	13%	10%	21%
THORALA	4%	12%	16%	12%	24%	19%	13%

- Kuvadava sees 20% of total accidents (102) on Sundays
- B Division witnesses 20% of total accidents on Tuesdays
- Rajkot Taluka sees 21% of accidents on Sundays
- Thorala witnesses the highest number of accidents (24%) on Fridays

# TIME-WISE HEAT MAP ANALYSIS

## Hour of the Day

Police Station	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KUVADAVA	2%	1%	1%	1%	1%	3%	3%	3%	5%	4%	5%	6%	4%	7%	5%	4%	8%	5%	5%	8%	9%	6%	3%	3%
AJIDEM	2%	1%	0%	0%	0%	2%	1%	2%	6%	7%	4%	6%	4%	4%	6%	4%	6%	4%	6%	9%	12%	5%	5%	3%
B DIVISION	3%	0%	0%	0%	0%	0%	1%	1%	4%	4%	7%	4%	4%	7%	7%	5%	7%	5%	6%	11%	10%	5%	6%	4%
A Division	6%	1%	1%	1%	1%	1%	3%	5%	2%	3%	6%	4%	7%	4%	5%	5%	5%	6%	3%	3%	9%	9%	7%	3%
GANDHIGRAM -2 (UNI)	1%	4%	0%	2%	0%	0%	2%	4%	4%	2%	2%	8%	6%	10%	8%	4%	4%	2%	9%	4%	5%	6%	5%	8%
PRA-NAGAR	3%	0%	1%	0%	0%	1%	2%	2%	0%	4%	5%	3%	6%	10%	7%	6%	2%	10%	5%	6%	6%	10%	6%	4%
GANDHIGRAM	3%	3%	3%	1%	2%	1%	3%	3%	3%	2%	6%	7%	2%	6%	5%	5%	2%	7%	8%	9%	6%	5%	4%	5%
BHAKTINAGAR	2%	0%	0%	1%	0%	1%	0%	6%	6%	2%	5%	3%	3%	3%	4%	8%	6%	2%	4%	8%	9%	11%	11%	7%
MALAVIYANAGAR	1%	0%	0%	1%	1%	3%	1%	5%	8%	1%	9%	5%	5%	13%	1%	6%	1%	4%	5%	5%	8%	6%	1%	6%
RAJKOT TALUKA	1%	4%	0%	0%	1%	0%	4%	4%	3%	3%	12%	6%	4%	8%	4%	3%	1%	3%	1%	10%	5%	9%	10%	4%
THORALA	4%	1%	0%	0%	1%	0%	4%	7%	7%	3%	6%	6%	7%	6%	4%	3%	10%	3%	6%	7%	3%	4%	3%	1%

- Kuvadava and Ajidem Stations witness most number of accidents between 7 pm and 9 pm.
- A-Division witnesses 34% of accidents overnight (from 8 pm to 1 am).

# AGE-WISE ANALYSIS OF ACCIDENTS

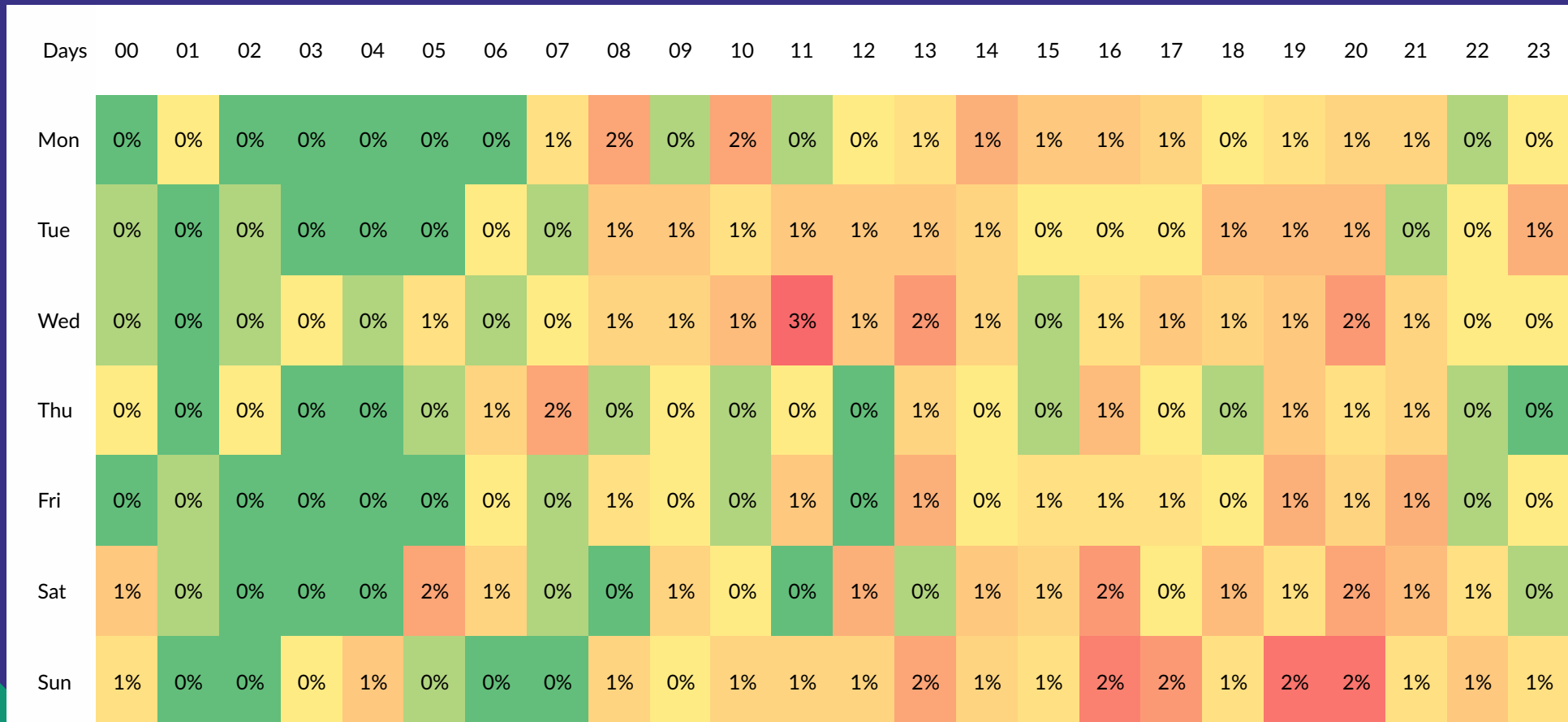
Age Group

Police Stations	1 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 70	71 to 80	81 to 95
KUVADAVA	3%	12%	28%	21%	17%	13%	4%	2%	0%
AJIDEM	2%	12%	30%	21%	18%	11%	6%	1%	0%
B DIVISION	3%	11%	22%	26%	17%	11%	6%	2%	1%
A Division	1%	7%	28%	16%	19%	14%	7%	3%	3%
GANDHIGRAM -2 (UNI)	0%	12%	25%	29%	17%	8%	5%	3%	2%
PRA-NAGAR	1%	14%	27%	19%	17%	9%	8%	3%	2%
GANDHIGRAM	1%	9%	31%	25%	20%	7%	4%	3%	1%
BHAKTINAGAR	2%	14%	25%	16%	20%	12%	8%	3%	2%
MALAVIYANAGAR	0%	10%	26%	17%	17%	17%	9%	4%	0%
RAJKOT TALUKA	3%	17%	31%	21%	17%	4%	4%	4%	0%
THORALA	3%	7%	29%	34%	15%	12%	0%	0%	0%

- People aged 21 to 40 are involved in most accidents
- Malaviya nagar station witnesses 30% accidents in people age groups of 50 years and above
- Rajkot Taluka has 20% accidents happening amongst people aged 20 years and below

# HEAT MAP ANALYSIS OF KUVADAVA

Hour of the Day



- Sunday evenings are worst affected with around 9% of total accidents happening between 4 pm and 9pm.
- On Wednesdays between 11 am and 12 noon, 3% of the accidents

# HEAT MAP ANALYSIS OF NAVAGAM BEAT

Hour of the Day

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon	0%	0%	0%	0%	0%	0%	0%	1%	2%	0%	2%	0%	0%	1%	2%	1%	1%	1%	1%	1%	1%	1%	0%	1%
Tue	0%	0%	0%	0%	0%	0%	1%	0%	1%	1%	1%	1%	1%	1%	1%	1%	0%	0%	1%	1%	1%	0%	1%	1%
Wed	0%	0%	0%	0%	0%	1%	0%	1%	1%	1%	1%	3%	1%	2%	1%	0%	1%	1%	1%	1%	2%	1%	0%	1%
Thu	1%	0%	0%	0%	0%	0%	0%	2%	0%	0%	0%	1%	0%	1%	1%	0%	2%	1%	0%	1%	1%	1%	0%	0%
Fri	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	1%	0%	1%	1%	1%	1%	1%	1%	1%	1%	2%	0%	1%
Sat	1%	0%	0%	0%	0%	2%	1%	0%	0%	1%	1%	0%	2%	0%	1%	1%	2%	0%	1%	1%	1%	2%	0%	0%
Sun	1%	0%	0%	0%	1%	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%	3%	1%	1%	1%	2%	0%	1%	1%

- Maximum number of accidents are happening between 11am to 12 noon on Wednesday and between 4pm to 5pm on Sunday.
- Highest number of accidents around 9% occur in span of 4pm to 5pm followed by 8pm to 9pm (8%).

# HEAT MAP ANALYSIS OF AJIDEM

## Hour of the Day

Days	00	01	02	03	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Mon	0%	0%	0%	0%	0%	0%	0%	2%	2%	0%	1%	0%	0%	1%	0%	0%	0%	0%	1%	1%	1%	1%	1%	0%
Tue	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%	1%	0%	0%	1%	0%	0%	0%	1%	2%	2%	0%	1%	1%	
Wed	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	0%	1%	2%	1%	1%	0%	1%	1%	1%	0%	0%	
Thu	0%	0%	0%	0%	1%	0%	0%	0%	3%	0%	1%	0%	1%	0%	0%	0%	0%	1%	1%	2%	1%	1%	1%	
Fri	0%	0%	0%	0%	1%	0%	0%	1%	1%	0%	1%	0%	0%	0%	0%	0%	0%	1%	1%	2%	1%	0%	0%	
Sat	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	1%	1%	2%	0%	2%	1%	0%	1%	3%	1%	0%	0%	
Sun	0%	0%	0%	0%	0%	0%	0%	1%	0%	1%	0%	1%	1%	0%	1%	2%	0%	1%	2%	2%	0%	1%	0%	

- At Ajidem, 3% accidents occur on Thursdays between 9 am and 10 am.
- On late evenings on Saturdays (7 pm to 9 pm), Saturday late evening,

# HEAT MAP ANALYSIS OF AJI BEAT

Hour of the Day

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
<b>Mon</b>	0%	0%	0%	0%	0%	0%	0%	0%	2%	0%	0%	1%	0%	0%	0%	0%	0%	0%	1%	2%	2%	1%	2%	0%
<b>Tue</b>	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%	2%	0%	0%	1%	0%	2%	2%	0%	2%	1%
<b>Wed</b>	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	2%	2%	1%	2%	1%	1%	2%	0%	1%	1%	1%	0%	0%
<b>Thu</b>	0%	0%	0%	0%	0%	1%	0%	0%	1%	2%	0%	1%	0%	0%	0%	0%	0%	0%	1%	1%	2%	1%	1%	2%
<b>Fri</b>	0%	0%	0%	0%	0%	1%	1%	0%	1%	1%	1%	0%	0%	0%	0%	1%	0%	0%	1%	1%	2%	1%	0%	1%
<b>Sat</b>	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	1%	2%	0%	2%	1%	0%	1%	4%	0%	1%	0%
<b>Sun</b>	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%	2%	2%	0%	1%	3%	0%	2%	2%	2%	0%	0%	0%

- Saturday from 20:00 to 21:00 hours sees the highest number of accidents (4%).
- This is followed by 16:00 to 17:00 hours on Sunday (3%).
- On Monday, from 12:00 to 18:00 hours, there have been no recorded accidents.

# KEY FINDINGS FOR MAJOR STATIONS

---

## KUVADAVA

- Most accident occur between 11 am and 12 noon on Wednesdays (3%)
- Sunday evening (4pm - 8pm) witness 8.86% of accidents

## AJIDEM

- Most accidents occur between 9 am and 10 pm on Thursdays(3%)
- Saturday evening (6-10 pm) witness 6% of accidents

## B DIVISION

- Most accidents occur between 2pm and 3pm on Mondays (3%)
- Sunday evening (4-8 pm) witness 11% of accidents

## A DIVISION

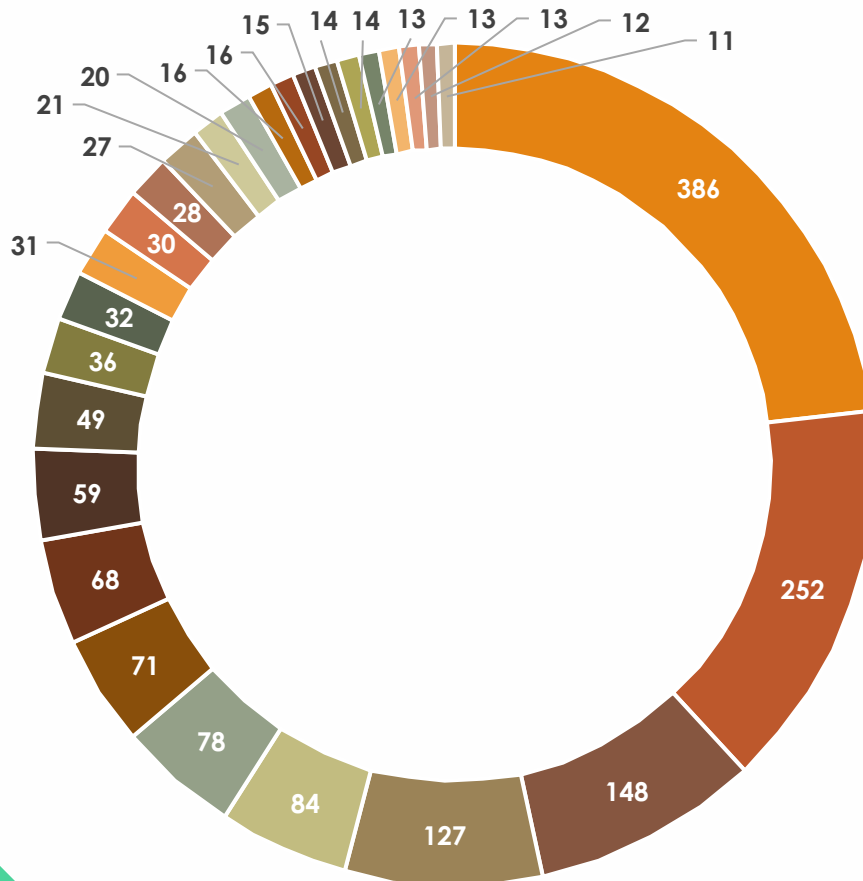
- Most accidents occur between 10pm and 11pm on Mondays(4%)
- Saturday early mornings (12-1 am) witness 3% of accidents



# POLICE STATION BEAT ANALYSIS



# ACCIDENT DISTRIBUTION



- Navagam
- Sardhar
- Bhagvatipara
- Kuvada
- Race Course
- Mahila College
- College Choki
- Jubeli Chowki
- Kothariyanaka Chowki
- S T Chowki
- Parsana
- Panchayat
- Jaganath Chowki
- Relnagar
- Aji
- Bedipara Choki
- Hudko Choki
- Bajrang Wadi
- Bedigam
- Ganjivada
- Raiyadhar
- Parnkuti Choki
- GIDC
- Gokuldharm
- Lodhavada Chowki
- Chunaravad
- Sarkari
- Gundavadi Choki

• Navagam Beat leads the tally with 386 accidents followed by Aji with 252 accidents.

# DAY-WISE ANALYSIS OF ACCIDENTS

## Age Group

Beat	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Navagam	15%	14%	19%	10%	10%	15%	17%
Aji	12%	13%	16%	15%	13%	16%	15%
Sardhar	15%	16%	7%	17%	11%	17%	17%
Bedipara Choki	7%	25%	21%	14%	7%	10%	15%
Bhagvatipara	19%	11%	14%	8%	8%	17%	23%
Hudko Choki	12%	15%	13%	13%	13%	21%	14%
Kuvada	6%	14%	11%	13%	11%	23%	23%
Bajrang Wadi	22%	10%	12%	13%	16%	13%	13%
Race Course	19%	14%	19%	14%	8%	15%	12%
Bedigam	4%	12%	18%	8%	10%	18%	29%
Mahila College	3%	25%	11%	14%	17%	11%	19%
Ganjivada	6%	16%	6%	16%	34%	16%	6%
College Choki	6%	3%	26%	23%	16%	10%	16%
Raiyadhar	20%	3%	10%	20%	13%	17%	17%
Jubeli Chowki	18%	21%	4%	11%	7%	21%	18%
Parnkuti Choki	15%	22%	15%	7%	19%	15%	7%
Kothariyanaka Chowki	19%	10%	10%	19%	5%	24%	14%
GIDC	5%	10%	15%	10%	5%	35%	20%
S T Chowki	19%	13%	6%	31%	13%	19%	0%
Gokuldharm	6%	31%	6%	19%	13%	6%	19%
Parsana	20%	20%	7%	7%	13%	20%	13%
Lodhavadi Chowki	14%	7%	14%	21%	29%	0%	14%
Panchayat	21%	29%	7%	14%	0%	14%	14%
Chunaravadi	0%	0%	31%	8%	31%	8%	23%
Jaganath Chowki	15%	31%	15%	23%	0%	8%	8%
Sarkari	23%	31%	15%	0%	8%	8%	15%
Relnagar	8%	17%	25%	8%	0%	33%	8%
Gundavadi Choki	18%	0%	9%	0%	45%	9%	18%

- Bedipara Beat sees high number of accidents on Tuesday (25%) and Wednesday (21%)
- Ganjivada witnesses almost 34% (11 nos) accidents on Friday.
- Navagam sees 19% of its total accidents on Wednesdays.
- Bhagvatipara witnesses 23% (19 nos) of its accidents on Sunday.

# TIME-WISE HEAT MAP ANALYSIS

## Hour of the Day

Beat	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Navagam	3%	1%	1%	0%	1%	3%	2%	4%	6%	4%	5%	6%	4%	7%	6%	3%	9%	5%	4%	6%	8%	5%	3%	4%	
Aji	2%	1%	0%	1%	0%	2%	1%	2%	6%	4%	2%	5%	6%	4%	6%	3%	7%	4%	5%	10%	14%	4%	6%	4%	
Sardhar	0%	0%	1%	0%	0%	2%	1%	3%	6%	11%	6%	8%	1%	5%	7%	6%	4%	4%	7%	6%	11%	6%	4%	1%	
Bedipara Choki	4%	1%	0%	0%	0%	0%	1%	1%	2%	6%	9%	2%	6%	6%	9%	5%	6%	4%	7%	11%	13%	6%	2%	2%	
Bhagvatipara	1%	0%	0%	1%	0%	0%	2%	1%	5%	1%	6%	10%	2%	5%	5%	2%	11%	6%	2%	11%	6%	5%	10%	8%	
Hudko Choki	1%	0%	0%	0%	0%	1%	0%	8%	1%	3%	5%	1%	4%	3%	5%	5%	8%	1%	4%	10%	10%	10%	13%	6%	
Kuvada	0%	0%	1%	1%	0%	0%	8%	0%	4%	6%	4%	4%	4%	7%	4%	6%	8%	10%	4%	7%	7%	4%	3%	6%	
Bajrang Wadi	6%	3%	4%	0%	3%	0%	4%	6%	3%	0%	6%	7%	3%	4%	1%	6%	0%	7%	7%	12%	9%	3%	1%	3%	
Race Course	3%	0%	0%	0%	0%	2%	2%	3%	0%	5%	3%	3%	8%	5%	7%	10%	2%	10%	2%	5%	8%	12%	7%	2%	
Bedigam	4%	2%	0%	4%	4%	2%	2%	0%	4%	0%	6%	0%	4%	12%	0%	6%	0%	4%	8%	16%	14%	4%	2%	0%	
Mahila College	0%	3%	3%	0%	0%	0%	0%	0%	0%	6%	6%	8%	0%	8%	11%	3%	6%	8%	11%	6%	0%	11%	11%	0%	
Ganjivada	3%	3%	0%	0%	3%	0%	6%	9%	6%	3%	3%	6%	6%	0%	3%	3%	16%	3%	9%	6%	0%	0%	6%	3%	
College Choki	3%	0%	0%	3%	3%	0%	3%	0%	6%	3%	6%	6%	3%	10%	3%	10%	0%	0%	6%	6%	10%	6%	0%	10%	
Raiyadhar	0%	7%	0%	0%	0%	0%	0%	3%	3%	0%	0%	10%	7%	20%	10%	3%	0%	0%	13%	3%	0%	7%	3%	10%	
Jubeli Chowki	14%	4%	0%	4%	0%	4%	7%	11%	0%	4%	4%	4%	7%	4%	11%	4%	0%	7%	0%	4%	7%	0%	0%	4%	
Parnkuti Choki	0%	0%	0%	0%	0%	4%	0%	11%	7%	0%	11%	7%	4%	19%	0%	7%	4%	4%	4%	4%	4%	4%	7%	0%	4%
Kothariyanaka Chowki	0%	0%	0%	0%	0%	0%	0%	0%	0%	5%	10%	0%	14%	0%	0%	5%	5%	5%	5%	5%	14%	24%	10%	0%	
GIDC	5%	0%	0%	0%	0%	0%	5%	10%	15%	5%	0%	10%	5%	10%	5%	5%	0%	0%	5%	10%	10%	0%	0%	0%	
S T Chowki	0%	0%	0%	0%	6%	0%	6%	0%	0%	6%	0%	0%	0%	6%	6%	19%	6%	6%	0%	0%	19%	6%	6%	6%	
Gokuldham	0%	0%	0%	0%	0%	6%	0%	6%	13%	0%	13%	0%	13%	13%	0%	0%	0%	13%	6%	0%	0%	6%	6%	6%	
Parsana	7%	0%	7%	0%	0%	0%	0%	0%	0%	0%	7%	0%	0%	7%	13%	7%	7%	13%	13%	0%	0%	0%	13%	7%	
Lodhavad Chowki	0%	0%	0%	0%	0%	0%	7%	7%	14%	0%	7%	0%	7%	7%	0%	0%	7%	7%	0%	0%	7%	14%	14%	0%	
Panchayat	0%	7%	0%	0%	0%	0%	0%	7%	0%	7%	7%	14%	7%	0%	7%	0%	0%	0%	14%	0%	14%	0%	0%	14%	
Chunaravad	8%	0%	0%	0%	0%	0%	0%	0%	0%	0%	23%	0%	15%	8%	8%	0%	8%	0%	0%	8%	0%	23%	0%	0%	
Jaganath Chowki	8%	0%	8%	0%	0%	0%	0%	8%	0%	0%	8%	15%	0%	0%	8%	0%	0%	15%	8%	0%	8%	0%	15%	0%	
Sarkari	8%	0%	0%	0%	0%	0%	8%	0%	0%	0%	0%	0%	8%	38%	8%	0%	0%	8%	0%	8%	0%	15%	0%	0%	
Relnagar	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	17%	0%	0%	0%	0%	17%	8%	8%	33%	0%	17%	
Gundavadi Choki	0%	0%	0%	0%	0%	0%	0%	0%	18%	0%	0%	18%	0%	9%	0%	9%	0%	0%	9%	0%	9%	18%	9%	0%	

- Aji Beat sees around 24% (60 nos) of its total accidents between 7 pm to 10 pm.
- Sardhar Beat witnesses 11% (17 nos) accidents between 9 am to 10 am.
- Sarkari Beat sees 38% (5 nos) of accidents between 1pm to 2pm
- Hudko Chowki witnesses 43% (34 nos) of accidents between 7pm to 10 pm.

# AGE-WISE ANALYSIS OF ACCIDENTS

## Age Group

Row Labels	1 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 70	71 to 80	81 to 95
Navagam	3%	13%	28%	22%	15%	13%	4%	2%	0%
Aji	1%	11%	31%	22%	15%	12%	6%	1%	0%
Sardhar	3%	15%	26%	19%	21%	9%	5%	1%	0%
Bedipara Choki	2%	11%	22%	20%	20%	12%	9%	2%	2%
Bhagvatipara	4%	8%	21%	37%	12%	12%	2%	4%	0%
Hudko Choki	3%	10%	27%	18%	21%	9%	9%	1%	3%
Kuvada	1%	11%	27%	21%	21%	14%	3%	1%	0%
Bajrang Wadi	0%	6%	32%	29%	24%	7%	1%	0%	0%
Race Course	0%	19%	29%	19%	15%	7%	8%	2%	2%
Bedigam	4%	6%	31%	12%	33%	8%	6%	0%	0%
Mahila College	3%	17%	22%	14%	17%	6%	11%	8%	3%
Ganjivada	6%	9%	31%	28%	16%	9%	0%	0%	0%
College Choki	0%	3%	26%	19%	13%	16%	16%	6%	0%
Raiyadhar	0%	7%	23%	47%	10%	10%	3%	0%	0%
Jubeli Chowki	0%	11%	25%	29%	21%	0%	7%	7%	0%
Parnkuti Choki	0%	11%	30%	11%	26%	19%	4%	0%	0%
Kothariyanaka Chowki	0%	0%	33%	10%	14%	29%	0%	0%	14%
GIDC	0%	5%	35%	30%	15%	15%	0%	0%	0%
S T Chowki	6%	6%	38%	0%	13%	25%	13%	0%	0%
Gokuldhham	0%	25%	19%	25%	6%	19%	0%	6%	0%
Parsana	0%	0%	33%	20%	13%	13%	0%	13%	7%
Lodhavad Chowki	0%	7%	36%	14%	14%	14%	7%	7%	0%
Panchayat	0%	14%	14%	21%	21%	21%	7%	0%	0%
Chunaravad	0%	8%	15%	54%	15%	8%	0%	0%	0%
Jaganath Chowki	0%	15%	23%	15%	15%	15%	15%	0%	0%
Sarkari	8%	0%	23%	15%	15%	8%	23%	8%	0%
Relnagar	0%	17%	17%	25%	25%	17%	0%	0%	0%
Gundavadi Choki	0%	45%	18%	0%	0%	27%	0%	9%	0%

- Bhagvatipara Beat sees around 37% (31 Nos) for age group between 31 to 40 years.
- Majority of accidents for Navagam Beat and Aji beat are happening in age group of 21 to 40 years.
- Bendipara Choki has around 25% (31 Nos) accidents happening in age group 51 to 95 years.

# KEY FINDINGS FOR MAJOR STATIONS

## NAVAGAM

- Maximum number of accidents are happening between 11am to 12 noon on Wednesday and between 4pm to 5pm on Sunday.
- Highest number of accidents around 9% occur in span of 4pm to 5pm followed by 8pm to 9pm (8%).

## AJI

- Saturday from 20:00 to 21:00 hours sees the highest number of accidents (4%).
- This is followed by 16:00 to 17:00 hours on Sunday (3%).

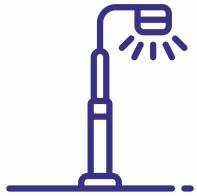
## SARDHAR

- Most accidents occur between 09am to 10am on Mondays and Thursdays (3%)
- Saturday and Sunday witness high number (17%) of accidents

## BEDIPURA CHOWKI

- Most accidents occur between 5pm to 16pm hours Wednesdays (4%)
- Tuesday witnesses 25% of total accidents mainly around 7pm to 10pm.

# OVERALL RECOMMENDATIONS



Poor street lighting may be responsible for high number of accidents at night time.



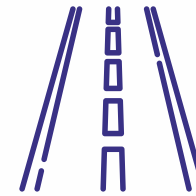
Youngsters need to be made more aware and educated about good traffic habits.



Traffic police deployment at weekends and specifically at weekend nights, may help in reduction of accidents.



Two wheelers being responsible for maximum accidents, issuing driving license to two-wheeler riders should be staunchly regulated.



Identification of high traffic intensity lanes like Kalawad Road, Amin Road, Raiyadhar Road, 150 feet Ring Road and others should be done in order to initiate appropriate steps to curb the number of accidents on these roads.



Municipal corporation and NHAI should make amends and ensure proper infrastructure and facilities.



**THANK YOU**