

# Analysis of the Traffic Problems and Comprehensive Study on the Traffic Strategies & Suggestions on Traffic Improvement at Madhavganj Chowk in Vidisha City

Abhishek Singh Chauhan<sup>1</sup>, Prof. Sanjay Saraswat<sup>2</sup>

<sup>1</sup>PG Student, Department of Civil Engineering, Samrat Ashok Technological Institute, Vidisha (M.P.) 464001, India

<sup>2</sup>Assistant Professor, Department of Civil Engineering, Samrat Ashok Technological Institute, Vidisha (M.P.) 464001, India.

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**Abstract** - In Madhya Pradesh one of the most developing and fast-growing city is the Vidisha city, needs to maintain its growth momentum in a sustainable manner, and this event comes under household characteristics that is one of the factors affecting the trip generation and trip attraction, and for assigning Traffic signals, channelization and intersections according to each zone in Vidisha city. The present study analysis the existing problems of the automobiles in the city area at madhavganj chowk, mainly difficulties that vehicular traffic is faced with. Further the study looks at possible solutions to extend the road facilities. The aim of this research is to perceive the keys which results in traffic problems and also the way-out to these issues in vidisha city. Madhavanj area is also very much affected by Indian railways as Vidisha railway station is too close to the market area and the whole area is influenced due to the travelers generated also due to the rack points which area located near the vidisha railway station. And a percentage of the answers are representing the corrupted police who take bribe from the low breakers. And the survey shows that auto & taxi drivers not following traffic laws because they are informed of the traffic laws. As Madhavganj chowk is one of the important and busy junctions in the city, at this junction- Dividers and intersections are not provided, that are usually the serious traffic congestion problems.

**Key Words:** Traffic System, Road blocking, Rack Points, Congestion and Major Performers.

## 1. INTRODUCTION

Transportation, particularly the municipal transport structure, is an interdisciplinary subject containing several playing fields of education such as geography, politics, structural design, and etc. source: KNOWLES, 2008. The controlling determining factor of the monetary and community welfare of all the towns is the transportation infrastructures.

The area analysed is madhavganj chowk area. The area is basically known as the old market area. Madhavganj area is one of the busiest markets of vidisha owing to its location at on main market as well as commercial area, it handles all the traffic generated from railway station as well as the traffic towards hospital road and khari Pathak road. This area is very much affected because of street sellers like

sellers of fruits and vegetables, government employees of banks as well as other major sectors which are daily came from Bhopal as an origin and their destination is Vidisha. [Transportation infrastructure in India: Development Challenges & lessons from Japan (Pravakar Sahoo, March 2011)]. Madhavganj area is one of the major areas in Vidisha city to be study on traffic challenges and traffic management because due to the connectivity of rail, this area is one of the closest market areas which generated peoples or passengers traveling through trains. Railways Rack point is also located near this area because of which heavy vehicles also passes through these areas and creating difficulties in traffic management. Traffic signals are not installed in this major area and intersections are also not provided. one of the major issues in this type of small-town city areas are not provided parking facilities. [Urban Transport and Traffic Management - For Sustainable Transport Development in Mysore City (Dr. Harish M, March et. al. 2013)].

## 2. RESEARCH MOTIVES, METHODOLOGY & SAMPLING

### 2.1 Research Motives:

Madhya Pradesh the heart of our country is one of the large states in central India, its capital is Bhopal and vidisha city is just 56.5 kms away from Bhopal. Vidisha district with population of about 14.6lakh is Madhya Pradesh's the 21st most populous district, located in the state Madhya Pradesh in India. Vidisha District is in Bhopal commissioner's division and is well connected by roads and railway but there is an improvement requires in the transportation sector, therefore urban area of Vidisha province is playing a huge role as compare to the rural area, thus there is a need to improve the infrastructure of the city mainly the infrastructure of the transportation. The major motives of the research is to determine the reasons of the difficulties in traffic system and also the possible solution for these challenges at madhavganj Chowk in Vidisha city area as predicted by various performers.

### 2.2 The Methodology of the Study:

For adopting this research various performers (road users, motorist, related police and street sellers etc.) are interviewed by personal interview (is a method of interview which need an interviewer this type of interviews is made by

face to face asking question by the interviewer) some questionnaires on their insight and the difficulties they are faced with from city traffic and the possible solution they have suggested regarding these challenges. A pre-prepared and tested questionnaire was distributed, for collecting the information on secondary basis related governmental organizations are asked for help. Also, the interviews conducted with the government bodies like the designators of municipal corporation as well as with the traffic police, on the behalf of these personal interviews we are collecting the main issues/problems and then take out the proper solutions of these problems.

### 2.3 Sampling and the Size of Sample:

Appropriate methods are applied for collecting data the related questionnaires are filled in serious crowded portions of the Madhavganj Chowk market city area, Railway station, Khari phatak road, Hospital road. According to poor answer and even one questionnaire filled by two three people the extent of the sample is tried to be slight for accurate selection of the sample. Also, after collecting the data related to the traffic signals and management we are going to decide the more relevant solutions to control conflicts, congestions and easy movement of the traffic. The research exemplification is taken at 148 from the Madhavganj Chowk market area the most serious challenged portion of the city.

**Table, 2.1: Sampling and the Size of Samples.**

S No.	Response of the people	Classifications	Exemplification size	total
1	Motorists	City Taxi 4 +Auto Rickshaws 6 + Transport Heavy Vehicle 2 + motor cycle 6	18 Hospital road, 16 Madhavganj Chowk, 16 Railway station, 12 Station road, 12 khari phatak road	74
2	Problem related police	Organization of traffic police force and street police	Organization of traffic police force 6 + street police 6	12
3	Localities	Shopkeepers, transporters, Colony peoples	Shopkeepers 6 + 2 transporters + 6 Colony peoples	14
4	Individual users	Street sellers, Street cart sellers, Others	Street sellers 6 + Street cart sellers 6 + Others 6	18
5	Travelers	Businessman, city taxi	Businessman 6 + city taxi 6	12
6	Employees	Individual, Governmental	Individual 6 + Governmental 6	12
7	Municipal Corporation	Organization of Municipal Corporation	4 Organization of Municipal Corporation + 2 Cleaning Staff	6
Summation				148

### 3. EXPLICATION OF THE INFORMATION AND ANALYSIS

The Analysis part in every research starts very earlier than that of the collection of the information for the research purpose, and the analysis part plays a key role in every part of a study. The most difficult and time requiring task in a research is the analysis of the data collected from the sources; the current study is adopted on the difficulties of the vehicular traffic at madhavganj chowk in Vidisha city. This is very clear that most of the residents in Madhavganj Chowk area in Vidisha city which are in weaker section of that society are the shopkeepers, Auto or Taxi Drivers, cart sellers etc. are not able to fill the questionnaires in English language therefore personal interviews are preferred because if the questionnaires would be distributed in local language it would be another difficulty in this study, the above mentioned reasons are taken into consideration and personal interviews are adopted. The data collected through questionnaires are analyzed and explicated in this section of the study and are sited in tabulated form for easy explication and analysis, are sited in this section.

#### 3.1 Common information about the interviewed people:

The general information about the interviewed people are sited in following table which comprise the categories and their ages because the interviews are carried out from a section of people who can best answer the questions, therefore their ages are taken into consideration.

**Table, 2.2: Ages and gender of the interviewed people.**

Extent of Age			Sex			
Stage of Life	Occurrence	%	Men		Women & Girls	
			Occurrence	%	Occurrence	%
18-29	34	22.973	25	23.148	08	20.000
30-41	57	38.514	42	38.889	14	35.000
41-55	24	16.216	23	21.296	07	15.000
>55	33	22.297	18	16.667	11	27.500
Summation	148	100	108	100	40	100



**Fig -2.1: Exact location of Madhavganj Chowk.**



**Fig -2.2: Street cart sellers and blockage of foot paths.**

#### 4. CONCLUSIONS

The analysis of the collected information through survey carried out on the field give the conclusion that challenges of the vehicular traffic in the city is getting increased every day, because the major performers which are mentioned earlier are playing considerable role in making difficulties to the system of traffic in the city. It should not be left unsaid that main reason of these challenges to system of traffic at madhavganj chowk in Vidisha is rapidly increase in population. After analysis of the data collected I got the result that the following types of the difficulties should be improved or removed from the city area in near future:

- Insufficient number of the public transport and lack of co-ordination between the traffic department in Vidisha city.
- Excessive number of para-transit and auto rickshaws.
- Unawareness of the motorists and other road users from traffic rules.
- Excessive of the cart sellers at madhavganj chowk market area in Vidisha city.
- Violation of the traffic rules by top management of the government.
- Corruption from the traffic related organizations.
- Railway Rack points at the nearest of madhavganj chowk due to which heavy vehicles passes through the main market area at peak hours which is used for the supply of government goods.
- The Stray animals creating problems and challenges to the vehicular traffic and road users not only at madhavganj chowk but also in the entire major areas in Vidisha city. This issue is one of the very critical problem in all over the country. Accident at highways increased at a very rapid rate in the past few years because of the stray animals.
- Improper parking and insufficient area for parking is one of the major areas not only at madhavganj

chowk market area but also in the Vidisha city as well.

- Lots of garbages on road at madhavganj chowk area at Vidisha city.
- Parking areas are allotted to the autorickshaws, taxis and two wheelers but still most of them didn't parked their vehicles at no parking yards and creates so much chaos.
- Due to temples so much rush is there at morning as well as in the evening at madhavganj chowk market area. Temple is just beside the Madhavganj chowk.

#### 5. SUGGESTIONS

According to outcomes of the research for reduction of the challenges of the vehicular traffic as a researcher I have the following suggestion:

1. The related organizations of the traffic should make efficient strategies to reduce the number of private vehicles.
2. And find a way how to make the people aware of the traffic rules, further the traffic organization should make a complaint regarding the top management members of the government who are the frequent violators of the rules and also to the members of the political parties who are the violators of the traffic rules.
3. The municipality of Vidisha city which is responsible for the structure of Vidisha city should carry out a survey at Madhavganj chowk area to specify the exact location where they construct foot bridges or flyover bridges that maximum of the city habitants should use it and which will result in reduction of the congestions.
4. The government should introduce new fleet transport with better facilities that could attract the passengers from para-transit to the public modes of the transport.
5. The related governmental organizations should find better solution for the reduced parking space to avoid on street parking at madhavganj chowk area in Vidisha city.
6. Providing the signalized intersection and new rules for rule breakers as well updating the urban structure is of great importance to ignore the problems in Vidisha city area.
7. Lots of autorickshaws during whole day at madhavganj chowk area causes a major congestion at this location. I suggested that Electric auto vehicles should be allotted instead of autorickshaws.
8. Indian railways rack points which are used as a stockyard for the supply of government goods located at the nearest madhavganj chowk market area should be shifted as the heavy vehicles which are used for the transport of these goods create serious challenges for the development of traffic.



9. As per my discussion with Harish soni sir land accusation engineer at municipal corporation and he told me that Indian railways already shifted rack point at outer location at saurai but due to political pressure or the requirement of the agricultural goods to the farmers they are unable to execute it.

10. The traffic responsible bureau should restrict the vehicles and drivers by licensing them; as well it is required to reduce the number unrequired street blocks.

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