

# Traffic Congestion – Causes & Solution Greater Noida

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## ABSTRACT

*Greater Noida is the industrial city of UP. Greater Noida is swiftly moving towards the 'Smart City' but the road jam and encroachment on road is the biggest problem in some places of greater noida. To solve this problem we should take a step for road capacity expansion, improved road infrastructures, restricting routes for auto rickshaw financial penalty to the traffic law brokers and application of fly over most importantly, proper traffic management system along with appropriate implementation of traffic rules is necessary to mitigate the problems of traffic congestion.*

## INTRODUCTION

**Greater Noida City** is a north Indian city with a population in excess of 100,000, located in the Gautam Budh Nagar district of the northern state of Uttar Pradesh. The city was created under the *UP Industrial Area Development Act, 1976*. It is a part of the National Capital Region (NCR) of India. Situated 30 km south-east of capital city of New Delhi, it takes around 30 minutes to travel between the cities via the Noida-Greater Noida Expressway. The Noida Metro Rail Corporation (NMRC) launched metro connectivity in Greater Noida on January 25, 2019. This project was announced in 2013. The metro runs primarily across the Noida-Greater Noida Expressway.

## CONGESTION

Traffic congestion occurs when vehicles travel at slower speeds because there are more vehicles than the road can handle. This makes travel time longer, slows speed and increases vehicular queuing. This is also known as a traffic jam.

## IMPACTS OF CONGESTION

Congestion involves queuing, slower speeds and increased travel times, which impose costs on the economy and generate multiple impacts on urban regions and their inhabitants. Congestion also has a range of indirect impacts including the marginal environmental and resource impacts of congestion, impacts on quality of life, stress, safety as well as impacts on non-vehicular road space users such as the users of sidewalks and road frontage properties.

## BEHIND REASON TRAFFIC CONGESTION

### 1. Inadequacy of traffic police

Traffic police in Greater Noida is inadequate. It should not fulfill the requirement at every road intersection of the Greater Noida.

### 2. Illegal Parking

Illegal parking on the road is the main reason behind serious traffic congestion on different parts of the Greater Noida. For example, in Jagat Farm Market, Commercial Alfa 1, Authority Gol Chakkar, mostly people park their vehicles on the road.

### 3. Increasing number of population

Some areas of Greater Noida are facing an increasing number of population which is a bad indicator for the traffic management and this could be a vital reason behind traffic. Greater Noida has knowledge parks which include lots of colleges and coaching hubs and approximately 1 lakh students take admission in the colleges for engineering and medical every year. The population in Greater Noida increases every year in the form of migration of the people towards the modern cities.

#### **4.Higher Purchasing power of the public**

Due to the higher purchasing power of the citizen, easy vehicle loan facility, stallement payments, popularity of private transportation is increasing and but existing roads and highway are not supportive or changing according to the increasing number of vehicle. As a result vehicle congestion is increasing at an alarming rate.

#### **5. EXCESS OF AUTORICKSHAW**

Non-motorized vehicles (i.e.rickshaw) and small size motorized vehicles (i.e. auto-rickshaw) are popular para-transit modes that provide domestic services of transportation. These autorickshaws are responsible for the traffic on roads in the cities. They does not follow the traffic rules and overtake the big vehicles in congested areas of the cities.

#### **6.Improper lane management**

Lane management is an important fact in managing the traffic in Greater Noida. Many types of the vehicles try to overtake the vehicles even in the single undivided road. This is the main reason that the city roads are unequipped with the lane dividers which divide the lane into incoming and outing traffic.

#### **SOLUTION OF TRAFFIC JAM**

##### **1.Strict lane management**

Different lanes for different types of vehicles should be marked on the roads and law i.e. financial penalty should be imposed to make the drivers maintain the lane discipline.

##### **2.Restricting routes for Rickshaw**

Rickshaw should not be allowed in all the routes of the city. R.T.O should take some responsibility to control the increasing number of rickshaws by imposing registration fee and legal documentation.

##### **3.Financial penalty to the traffic law breakers**

Government can take such strict step like imposing financial penalty on the law disobeying drivers. They should be made to dissude the drivers from certain Congestion-causing habit such as wrong overtaking, one way driving. Mobile court should be introduced to fine the truck drivers for disobeying traffic law and driving unfit truck. This kind of implication of law can mitigate the traffic jam in short run, but in long run all the people should be involved to create awareness and responsible to the society. Otherwise traffic jam solution is impossible.

##### **4.Supply and demand**

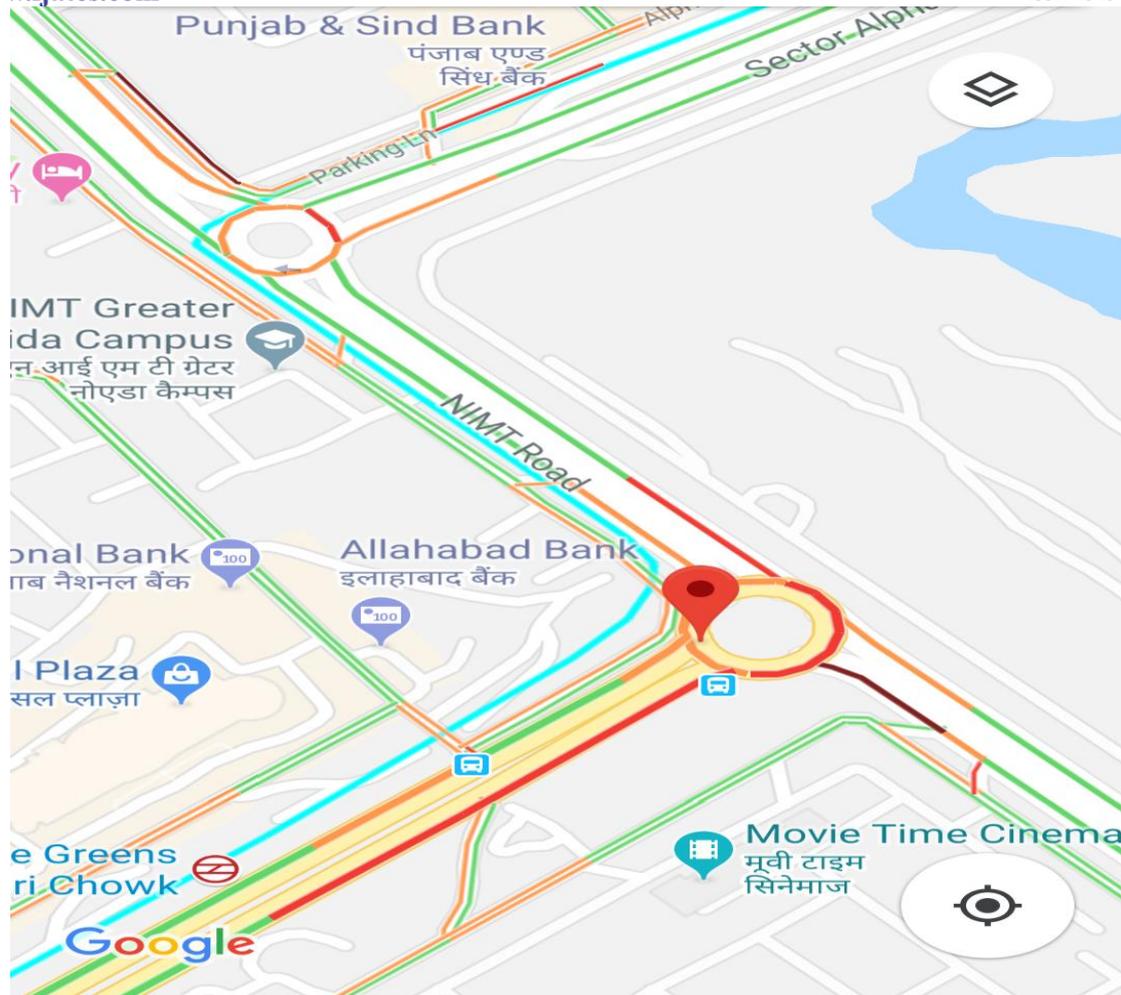
Congestion can be reduced by either increasing road capacity (supply) or by reducing traffic (demand) revealed that road capacity can be increased in a number of ways such as adding more capacity over the whole of a route or at bottlenecks, creating new routes, and improvements for traffic management. Reduction of demand can include, parking restriction, park and ride, congestion pricing, road space rationing, incentives to use public transport and introduction of e-education, e-shopping and home based working options will reduce the number of people traveling.

##### **5.Increasing and developing the manpower (Traffic police)**

As the city is running with inadequate amount of traffic police than required, so it is the need of the hour for the authority to increase the number of traffic police. This step will create some scope for employment also. Only recruitment is not enough, they should be trained up for the betterment of the traffic management.

##### **6.Road widening**

Road widening have been undertaken. However some research indicates that road widening provides only slight reductions in urban traffic congestion.



**Figure :- GPS IMAGE OF PARI CHOWK**

### **PARI CHOWK**

- Greater NOIDA has excellent connectivity by roads –NOIDA-Greater NOIDA Expressway and DSC Road which are 100 Mt and 80 Mt ROW respectively.
- Entry to Greater NOIDA is relatively unhindered compare to other cities like Gurgaon, Ghaziabad and Faridabad
- Both the roads are not plagued by unauthorized construction/encroachment along them as the development is coming up in a planned manner.
- In long run, Greater NOIDA - NOIDA Expressway and ultimately Yamuna Expressway to Agra will emerge as regional spine and lead to manifold increase in Traffic volume .
- This has led major roundabouts of the city vulnerable to road accidents like Amritapuram Chowk, L.G.Chowk,Pari Chowk,Ryan International School Chowk and Authority Chowk.
- Buses do not stop at the designated Bus bays.
- None of the major intersections are manned by Traffic Policemen.



## CONCLUSION

Traffic congestion is a global as well as local problem. All over the world, the prime cause of traffic congestion is on street parking. In Greater Noida now traffic congestion is a common issue like Mumbai, delhi. Different infrastructural and managerial projects are granted for reducing traffic jam. However in Greater Noida this type of policy is not addressed yet. Traffic congestion constraints can be ameliorated by embarking on various strategies such as road capacity expansion, improved road infrastructures, restricting routes for Rickshaw, financial penalty to the traffic law breakers and application of Fly over. Most importantly, proper traffic management system along with appropriate implementation of traffic rules is necessary to mitigate the problems of traffic congestion in Greater Noida city.

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