

**A STUDY ON CITY BUS TRANSPORTATION SYSTEM:
CASE STUDY OF VINAYAK LOGISTIC**

M Tech Dissertation

Submitted in
partial fulfillment of the requirements
for the degree of

MASTERS OF TECHNOLOGY

in

Civil-Transportation Engineering

by

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May 2018

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ABSTRACT

A review of relevant literatures covering the occupancy level of the vehicle and its impact on mobility suggest that, a heavy reliance on this mode of transportation increases the efficiency of urban mobility while at same time easing the level of congestion. The literatures reviewed also suggest that the presence of an efficient public transport system creates safe, sustainable and equitable urban mobility. The study evaluates the extent to which the public transport in Vadodara has an impact on the urban mobility of the city. It also asses the possible strategies and approaches that can be devised to enable this mode play a significant role in mitigating the worsening level of congestion that we see in the city today. The study mainly relies on the secondary data for its analysis and findings, however primary data has also been generated and analysed with the help of sample surveys and structured interviews.

The overall findings of this study revealed that despite the fact that an efficient public transport system is the best way to maximize urban mobility, in reality this mode of transport is in critical condition to begin within Vadodara. Furthermore it has been observed that increasingly heavier reliance on vehicles with small passenger carrying capacity, such as private automobiles and mini bus taxi is resulting in congested junction, with heavy traffic. Other factor such as the existence of only one dominant core area in the city, demand overlap that emanates from the similar working hour that are observed for almost all the institutions in the city have also been identified to be the main drawbacks that need to be addressed to create and efficient public transport system in Vadodara city.