

Department : Civil

Year : 2014-2015

Group No: 8

Guided By

**ASST. PROF. VINEET
JAIN/ASST. PROF.
HIREN V. PATEL**

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

IDENTIFICATION OF NEED OF PUBLIC TRANSPORTATION SYSTEM: A CASE STUDY OF MEHSANA CITY

Abstract:

India is essentially a rural oriented country. Even then the urban population has been growing at a fast rate. Population residing in urban areas in India increasing decade to decade as 11.4%, 28.53% , 30% in 1901, 2001, 2011 respectively. Most of the cities are overburdened by highly population growth, high private vehicle growth, inadequate transport and facilities. Increasing number of private vehicles causes number of transportation problems like: congestion, pollution problems, parking problems and increasing road accidents. Promotion of public transport to be pursued is one of the important measure to meet the problems arise in urban areas. Public transport means a system of vehicles such as buses and trains which operate at regular times on fixed routes, used by the public. Bus contributed as the most important in public transport across all cities. However, it is needed to identify the problems in existing transportation facilities. A case study is proposed therefore the objective of this study is to identify need of the public transportation system in a Mehsana city. Therefore, Public transportation planning is proposed in this study. The proposed methodology in this study is divided in five stages. First to collect data related to household information and trip information. Second stage includes development of trip generation model by multiple liner regression equation to estimate the future trips based on the identified parameters. Third stage presents the Origin Destination matrix for the tip distribution. Forth stage of the proposed methodology presents the willingness of Public towards Public transportation. Last stage of this methodology define the routes decided for the public transportation system in Mehsana city.

Prepared By:

| Sr. No. | Student Name | Enrollment No |
|----------------|---------------------|----------------------|
| 1 | PATEL SANKET B. | 110780106017 |
| 2 | PATEL VIKRAM V. | 120783106006 |
| 3 | PATEL AKSHAY K. | 120783106005 |
| 4 | PATEL KISHAN M. | 110780106029 |

