



Transportation Planning In Urban And Rural Areas- A Review

A. D. Sangode¹, S. V. Meshram², T. S. Dhomne³, S. N. Shende⁴, R. H. Mohankar⁵

¹²³⁴BE Dept. of Civil Engg. Priyadarshini JL College of Engineering, Nagpur

⁵Department Civil Engineering, Priyadarshini JL College of Engineering, Nagpur University, India

Abstract: India is a developing country. Since the early 1990 S Indian's growing economy has witnessed a rise in demand for transport infrastructure and service. Due to population growth and emerge economic in developing countries, the rapid development of technology makes cities more attractive and thereby increase the growth of urbanization. One of these requirements are the fact and optimal transport from one place to another the city. Therefore, urban management is seriously challenged with adoption and good management of urban transport system the significance of transportation is it reduce the poverty by improving access to labor markets and thus increasing income in prior community services and manufacturing industries particularly concentrate around major urban areas and require efficient and reliable urban transport to connect production facilities to logistics chain.

Index Term: Transportation, traffic, economy.

I. Introduction: Transportation being the basic need of peoples, and is a basic infrastructure transportation is the movement of people and goods from one place to another. The term is derived from the latin word "Trans" means across and prior means to carry. Good physical connectivity in urban and rural area is essential for economic growth with the increasing population the present levels of urban mobility in Indian cities, access to place activities and service is becoming increasingly difficult in term s of convenience, cost and time the main area of concern is affordability of transportation services for the population below the poverty line. The unaffordability of private transport or the lack of public transit option forces this segment of urban population to walk increasingly long distances and consequently suffer server pollution. Transportation planning is required for both rural and urban areas so that peoples can get access to it no specific quarter of people should be unaware about it should be affordable to everyone. Transportation planning is also required to connect peoples and their cities.

II. Body: Transport on roads can be roughly grouped in transportation in goods and transportation of peoples. Traffic and transportation problems, transportation system deficiencies, Pollution and Health Issues, Urban Infrastructure Issues. Gaps in laws and Regulations are some of the major issues of concern.

Urbanization is taking place at a fast rate in Indian migration of peoples from rural areas to urban areas due to employment opportunity have increased to population.

These are three acts that are specific to metro system in India which needs to be examined:

- Tramways ACT - 1886.
- Metro Railways ACT - 1978.
- Delhi Metro Railway ACT – 2002

III. Literature Survey:

Sr. No.	Name of Authors	Description
1	Mr. P. S. Gawande, Shivani Bajpayee, Samiksha Wavare	The research paper focused on the paths accomplished during the morning peak hours of common working days when the transport needs are inundated. The collected findings have verified crucial advantage of fuel conservations correlated with the public transit usage to distinguish with personal car usage.
2	MARRI SRINIVASA REDDY, E. BALA SUDHEER	The aim was to develop a methodology that would allow transport planners to obtain, in a relatively short time, an understanding of the existing rural transport situation and provide information that could assist with policy formulation.
3	SK. Rajabhi, K.Sreekhar Chand	In this research study an attempt was made to identify the problems faced in urban transport system with previous case studies and solution are drawn to improve the transport system in urban areas.
4	Deshpande Yogini, Jachak Sai	In recent years with greater roadwork and construction demand along with increase in industrialization, urbanization, increase traffic congestion and rapidly increasing population the need of traffic management is heightened. For development and proper functioning of the town it is necessary that it should be planned effectively, so that the problems related to traffic can be minimized or controlled.
5	M. Thondoo, O. Marquet, S. Marquez, M.J. Nieuwenhuijsen	A mixed-methods approach was used to assess the alignment between urban transport policies and self-reported citizens' needs in Port Louis city (Mauritius). Logistic regression models were run to detect associations between needs and demographic indicators (age, gender, income).

IV. Proposed Methodology:

Transport has been increased substantially due to increase in population and migration of people from rural to cities of availability moralized transport increase in household incomes cities all the major contributes to economic growth. Inadequate infrastructure road congestion growing population has not led to pollution but also accidental deaths these in a need to encourage public transport over the private transport.

With concern to the loading problems there is a need to enhance the public transport system policy measures such as focusing on bus transport, enhancing transport coordination, restraining the use of polluting vehicles, demand side management measures, supply side management measures, encouraging green modes and need to strength on urban institutions.

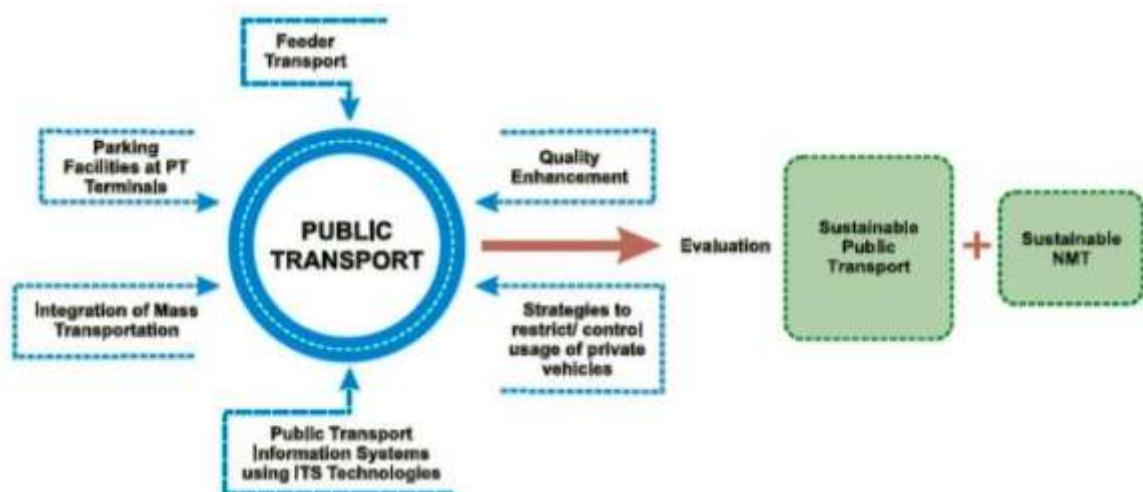


Figure. System Proposed Methodology of Transportation System

By considering the above steps, the sustainable public transportation systems implemented authority's transport corporations, can be by the policy makers etc. The schematic representation of above parameters that are to be considered in achieving sustainability is shown in Figure.

V. Conclusion: Cities play a vital role in country's economic growth with the enhancement in urbanization has pollution, road accidents, deformation has also tools place in several years. Focusing on public transport and retraining the use of public transport can resolve the problem. This will not only reduce the road congestion, pollution but also will help us to maintain the transportation system.

Reference:

- [1]. Mr. P. S. Gawande, Shivani Bajpayee, Samiksha Wavare "Study of Transportation Needs in Rural and Semi-Urban Areas" IJEAT, ISSN: 2321-8134, Issue 4 volume 4, May2020.
- [2]. Marri Srinivas Reddy, E. Bala Sudheer, "A Study of Transportation Needs Rural and Smi – Urban Areas", JES Vol 13, Issue 03, MARCH/2022 ISSN NO:0377-9254.
- [3]. SK. Rajabhi, K.Sreekhar Chand, "Report on Urban Transport Planning" IRJET, e-ISSN: 2395-0056,p-ISSN: 2395-0072 Volume: 08 Issue: 02 | Feb 2021.
- [4]. Deshpande Yogini, Jachak Sai, "Review on Traffic and Transportation Planning a Town" IJTRA, e-ISSN: 2320-8163, Volume 4, Issue 3 (May-June, 2016), PP. 142-144.
- [5]. M. Thondoo, O. Marquet, S. Marquez, M.J. Nieuwenhuijsen, "Small cities, big needs: Urban transport planning in cities of developing countries" Journal of Transport & Health [Volume 19](#), December 2020, 100944.
- [6]. M. Lukes, Martin Kotek, Miroslav Ruzicka Comparison of transport systems in rural and suburbanized areas with regards to energy consumption and travel speed, January 2015.
- [7]. Mohit Patil, Rahul Sakore, (6 June 2014) Smart Parking System Based On Reservation.
- [8]. Ricardo Morla, (November 2005) Vision of Congestion Free Road Traffic and Co-operation Objects.
- [9]. A Review on towns and transportation planning. Aijreas. Santhi j, R Srinivasa Kumar.
- [10]. Transportation Planning, Institute of Transportation Engineers, John Wiley and Sons.
- [11]. Agrawal, Seth A. A Silent Revolution. Journal of Transport Geography. Indian Institute of Technology, Delhi.
- [12]. Radhika B, Pune Institute of Technology. Transportation Planning and Scheduling.
- [13]. Transportation Planning Models, National Conference on Recent trends in Engineering And Technology.