

Ward Wise Analysis of Municipal Facilities (Health & Roads) in Mumbai City

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Abstract

The key for the development of India as a nation will depend on proper urban development along with infrastructural growth. The area of study selected is the city of Mumbai. The objectives of the study is to analyse the ward wise distribution of population and infrastructural facilities (health centres and roads), to represent the findings cartographically using GIS and to find out the relation between population and health care facilities and roads by using Megastat function in Ms-Excel. The present paper is based on secondary data from MMRDA, Google Earth, Google Maps and various district websites and the official website of MCGM. The data was stored, processed, analysed and represented using Q-GIS v. 2.10.0. To carry out quantitative analysis, Megastat function in Ms-Excel is used. It can be observed that very high population is concentrated in the Northern parts whereas the population is less in the southern parts. There is more concentration of economic activities in the south. It is witnessed that in all the wards, private hospitals and nursing homes dominate the health facilities followed by municipal dispensaries, municipal health posts, municipal hospitals and municipal maternity homes. From correlation and regression analysis it can be concluded that the effect of population on the development of health facilities and major roads is significant and the effect of population on minor roads is almost negligible. The study also provides some recommendations for proper planning of Mumbai city.

Keywords: Infrastructure, Municipal, Planning

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