

Abstract

Urban sprawl is the expansion of urban areas with increase in population and migration over time. In this study, 2 years of 2001 and 2021 have been chosen to analyse and compare the urban sprawl of the city of Chennai, the capital of state of Tamil Nadu. Considered as a major metropolitan city, it has seen a lot of change over the past few years. The results of this study show that the area covered by urban settlements has doubled since the year 2001 to 2021 from 792.51 to 1654.53 sq.km in the study area consisting of the neighbouring districts of Thiruvallur and Kanchipuram. There is a major expansion of the urban settlements into these districts. Considering just the district of Chennai, the area has changed from 118.82 to 141.59 sq.km in the considered 20 years' time period. The change detection map also shows the amount of area that has changed from other classes to urban in 2021.