Abstract

Rapid urbanization and consequent slapdash growth of cities is a global phenomenon and India is no exception. This is resulting in deterioration of infrastructure facilities, loss of agricultural lands, water bodies, open spaces, and diminution of ground water aquifer zones, water contamination, air pollution, health hazards and many micro-climatic changes. Urban sprawl may be defined as the scattering of new development on isolated tracts, separated from other areas by vacant land (Ottensmann, 1977). It is also often described as leapfrog development (Gordon and Richardson, 1977) as observed in all the major cities across the world. It is in this regard khairagarh municipal area (KMA) showed its pursuit to use the latest technology of KM Area for the period 2021. First of all the population for the year 2021 was determined as 55,968 on the basis of standard statistical methods viz. Arithmetic, Geometrical, Incremental Increase, Exponential and Forecast. To meet the additional demand of this land, an integrated study has been carried out using a multi-parametric index approach. For taking a suitable decision, the study provided the information not only on the existing urban land use pattern, urban sprawl analysis but also on natural hazards, existing infrastructure facilities, hydro geomorphologic features and urban land use suitability suggesting the areas to be used for construction and the
areas to be conserved under green belt. High spatial resolution IRS satellite images helps to prepare urban land use maps depicting urban land uses such as agricultural, residential, industrial, commercial, Public and semi-public uses recreational, transportation etc. Modern technology of remote sensing and GIS which helps us to analyze the data spatially, offering possibilities of generating various options (modeling), thereby optimizes the whole planning process. It is in this context, the suitability analysis attempted in this study must be viewed as a basic "Prioritization of land for urban development."

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