

Physiographic Analysis of the Hivare Bazar Village Using GIS and RS Techniques

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Abstract

In these research paper physical aspect such as location, site and situation, relief, drainage, soil, forest and climate of study area. The environment of the study region tremendously affects its physical and cultural aspects. The socio-economic condition and its interaction within itself play an important role. That is why it becomes necessary to study how these factors exert their influence. Physical factors do play a vital role in the economic development of the region. The natural resources like relief, drainage, soil, water, forest and climate contribute to the economic development of the region. These natural resources primarily fulfill the basic needs i.e. food, cloth's and shelter of the mankind. The imbalance of natural resources not only affects economic development, but also affects characteristics of population of the region. This chapter focuses on the aspect like relief, drainage, soil, forest, and climate of the Hivare Bazar.

Keyword: Hivare Bazar, Physiographic Analysis, Model Village

1. Introduction

Various relief, climatic, watershed and hydrological phenomena is correlated with the physiographic characteristics of a drainage basin such as size, shape, slope of the drainage area, drainage density, size and length of the contributories, etc. (Kudnar N.S., 2015, Bhagat R.S. 2015). Application of remote sensing provides a reliable source for the preparation of various thematic layers for morphometric analysis. The digital elevation data is used for generating the elevation model of a landscape to any extent. The resolution of the image may vary with respect to the satellite sensors. The processed DEM is used for generating the stream network and other supporting layers (Horton, 1932, 1945; Kale Vishwas S., 1990, 2002; Kudnar, N.S. & Rajasekhar, M, 2020; Bisen, D.K, and Kudnar, N.S., 2013). Geographical information systems (GIS) have been used for assessing various basin parameters, providing flexible environment and powerful tool for determination, interpretation and analysis of spatial information related to river basins.