

RELIEF ANALYSIS USING GIS AND REMOTE SENSING

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ABSTRACT

The knowledge of relief and forms is essential for understanding spatial arrangement of the landforms, which facilitate a better placing, and more rational use of particular area. The word relief is used to describe the broad features and relative heights of highland and lowland, which are characterize by its form as mountain, plateau, hills, plain, spur and Valley etc. The difference in relief features of the landscape is due to its geological history and structure. Landscape is dynamic and the change is caused either by endogenic or exogenic processes. Relief analysis is important for land-use planning, disaster management and development planning. Relief of Tarat River Basin has been analysed with the help of GIS and Remote Sensing where Relative relief, absolute relief, relief profile and hypsometric curve have been studied. Study area falls under the Vth Seismic Zone and reported tectonically very active. Though it is not possible to stop the occurrence of natural disasters but through proper knowledge based on scientific studies it can be managed.

KEYWORDS: Relief, Profile, Landscape, Analyse, Dissection Index, Hypsometric, River Basin, ILWIS