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ANALYSIS OF TERRAIN ELEMENTS USING IRS P6-LISS-IV IMAGE IN PARTS OF NAGARKURNOOL AND WANAPARTHY DISTRICTS IN TELANGANA STATE, INDIA

*[1]Linga Swamy Jogu, [1]G. Udaya Laxmi, [2]Naveen Kumar Gardas, [1]D. Vidyasagarachary and [3]Ch. Venkateshwarlu
[1]*Centre of Exploration Geophysics, Osmania University, Hyderabad, India*
[2]*Department of Applied Geochemistry, Osmania University, Hyderabad*
[3]*Department of Geology, Osmania University, Hyderabad*
**E-mail: lingaswamyjogugp@gmail.com*

Abstract

Remote sensing satellite data and geographic information system (GIS) have been used in terrain analysis like land use/ land cover, lithology, drainage, and soil characteristics around Nagarkurnool and Wanaparthy districts in Telangana State. The drainage is dendritic to sub-dendritic with domal & parallel systems being recognized in some areas. The diverse land use categories such as forest, agriculture, water bodies, drainage, and the land cover pattern are divided into builtup land, cultivated land, forest land, and uncultivated land (Barren land). Optimum utilization of IRS P6-LISS IV, 2016 satellite image was made for interpretation of terrain analysis in this study.

Keywords: Land Use/Land Cover, IRSP6-LISS-IV satellite image, Agriculture, Plantation, Topography, Soil, Lithology.