

INDIAN INSTITUTE OF FOREST MANAGEMENT

Working Paper

Occurrence of Forest in Ranchi District and its Relation to Soil – A GIS Approach of Analysis*

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ABSTRACT

This paper attempts to analyse the relationship of occurrence of forest in Ranchi district with reference to type of soil. This gives the detailed analysis involving spatial correlation between forest and soil type; a new use of GIS tools for such phytogeographical analysis. This methodology can be used for fresh interpretation of ecological theories. The objective of this study is -

- To find spatial relationship, if any between occurrence of forest with respect to different soil type.
- To test the hypotheses that the variation between spatial distribution of forest and the soil type over which it occurs is minimum for Red sandy soil, compared to Red and Yellow soil, Red gravelly soil and Older alluvial soil.

Key words: Soil-Forest Correlation, Spatial, Phytogeographical Analysis, GIS, Ranchi Forest