GeoForest

Geomatics-based Forest Mapping System

for

Forest Department Madhya Pradesh

Product Overview

Madhya Pradesh is endowed with rich and diverse forest resources. The forest area of the state is about 30.71% of the geographical area of the state and 12.44% of the forest area of the country.

GIS based methods are useful to identify mapping of area, type, density, deforestation and encroachment, forest management planning and wildlife habitat analysis.

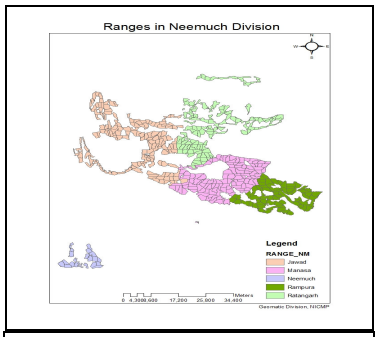
The purpose of the project is development of a Geomatics-based Forest Stock Mapping Inventory System.

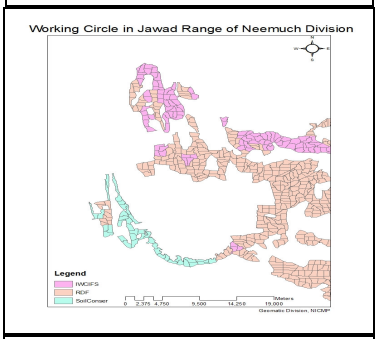
The scope of the project is

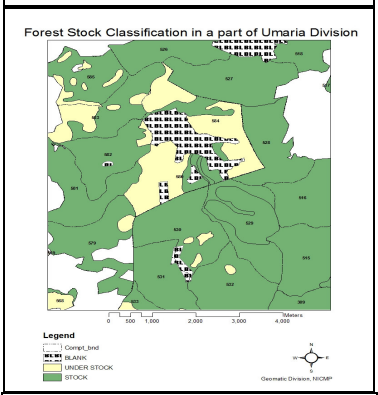
- Digitization of Forest Stock Maps
- Integration of attribute data with digital data
- Generation of the required thematic maps.
- Query based output in the form of derived maps
- Updation of spatial data using PDA device

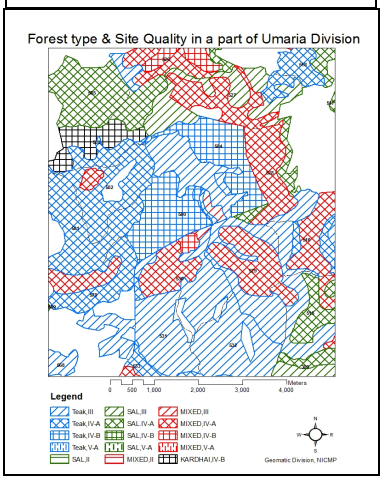
Product Platform

- ArcGIS Server
- Open Source (J2EE) based front end
- Apache Tomcat Web server
- Enterprise Geodatabase
- High-end Servers
- Client with IE 6.0 or higher javascript enabled browser









Product Features

- Sector-specific compilation of thematic maps.
- Special tool bar for map viewing / editing.
- Support for zoom, pan and map composition.
- Built-in traverse-aid and distance computation.
- Query-based map output.
- MIS for Attribute Data Management
- MIS Reports
- Printing of Maps

Salient Features

- Assessment of forest area including wild life sancturies/national parks
- Identification of potential forest planning and management areas
- Controlling Demarcation of Forests
- Analyse spread spiecies on forest area
- Web enabled updation model for attribute data updation

Impact/Benefits

- Helps for Thematics maps updation
- Helps in Gap analysis and stadardisation
- Can be used to access the existing forest resource and decide treatment programs to enrich forest.
- Helps to achieve transparency & easiness in planning & monitoring processes.

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