

OBJECTIVES & SCOPE

- **To prepare State of Forest Report biennially, providing assessment of latest forest cover in the country and monitoring changes in these.**
- **To conduct inventory in forest and non-forest areas and develop database on forest tree resources.**
- **To prepare thematic maps on 1:50,000 scale, using aerial photographs.**
- **To function as a nodal agency for collection, compilation, storage and dissemination of spatial database on forest resources**
- **To conduct training of forestry personnel in application of technologies related to resources survey, remote sensing, GIS, etc.**

OBJECTIVES

- To strengthen research & development infrastructure in FSI and to conduct research on applied forest survey techniques,
- To support State/UT Forest Departments (SFD) in forest resources survey, mapping and inventory
- To undertake forestry related special studies/consultancies and custom made training courses for SFD's and other organizations on project basis.

Key Practice Areas in Forestry & Wildlife

- **Forest Surveys & Land records:**
- DGPS / ETS survey & mapping of forest block/ compartment boundaries, plantation sites, areas proposed for diversion/ diverted forest land;
- Survey, demarcation and mapping of other DLC forest land (un-classed forest land);
- DGPS/ GPS location info on (forest trails, inspection routes, transect lines, forest fire, illegal felling, poaching, etc.)
- **Working Plan Preparation**
- Bio-diversity mapping
- Forest Cover/Density mapping
- Vegetation survey and stock mapping

SCOPE OF FOREST SERVICES

- **Aforestation planning and monitoring**
- Study of land use, vegetation soil, slope, hydrology, etc
- Ecosystem studies: wildlife, habitat etc.
- **Thematic Mapping / Digital Cartography:**
- Study of land use, vegetation soil, slope, hydrology, etc
- Management boundaries, blocks & compartments,
- Forest infrastructure,
- Sanctuaries & national parks
- Tracks & trails,
- Hydrology: Watersheds, drainage & water bodies
- topography
- village boundaries & settlements, road & rail, etc

SCOPE OF FOREST SERVICES

- **Data Integration, analysis & Visualisation:**
- Slope Analysis, 3D Modeling, RS-GPS-thematic integration in GIS
- **Conservation planning:**
- Formulation of conservation plans/corridors, etc.
- **Conservation planning:**
- GIS based representation of Wildlife census data for mapping of Wild life habitat/ occupancy of important wild animal species
- **Training & capacity building:**
- DGPS / GIS training for forest officials, Implementation and operationalisation of GIS based systems with handholding support