

Integrated Forest Management Toolbox (IFMT) User Manual



Integrated Forest Management Toolbox (IFMT)

IFMT is a forest management planning tool, developed with the objective to assist forest officials in preparing working plans in accordance with the National Working Plan Code, 2014 (NWPC) that calls for management of forests for a range of ecosystem services.

IFMT consists of a suite of tools which enable forest officials to collect and collate geo-spatial and ground level data, identify potential forest management activities based on flow of ecosystem services and assist in finalising working plan prescriptions. The individual tools that constitute the toolbox were developed to meet the requirements of NWPC-2014. Following is the list of the tools:

- **Forest Resources Observatory (FRO)** A repository of data from publicly available open data sources that provides certain mandatory and optional spatial layers as required by NWPC-2014.
- **Forest Data Kit (FDK)** A mobile device based android application that provides a digital platform for collection of field data. The data is further analysed and processed to create geo-spatial layers for visualisation.
- Composite Land Assessment and Restoration Tool (CLART) Tool for classifying areas based on water recharge potential and identifying areas for soil moisture conservation working circle activities that can improve yield of water.
- Species Distribution Model (SDM) Tool for planning of plantation working circle and non-timber forest
 produce working circle as per the local agro-climatic and edaphic factors. It will assist in finding areas suitable
 for specified tree species. It can also assist in locating biodiversity hotspots for conservation working circles.

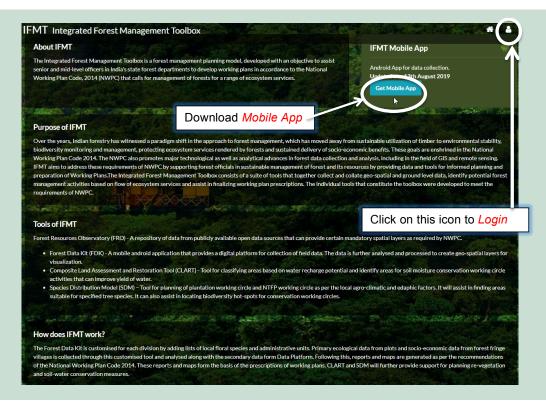
1.0 Getting Started

1.1 System Requirements

Use Google Chrome Version 70 or above for best performance.

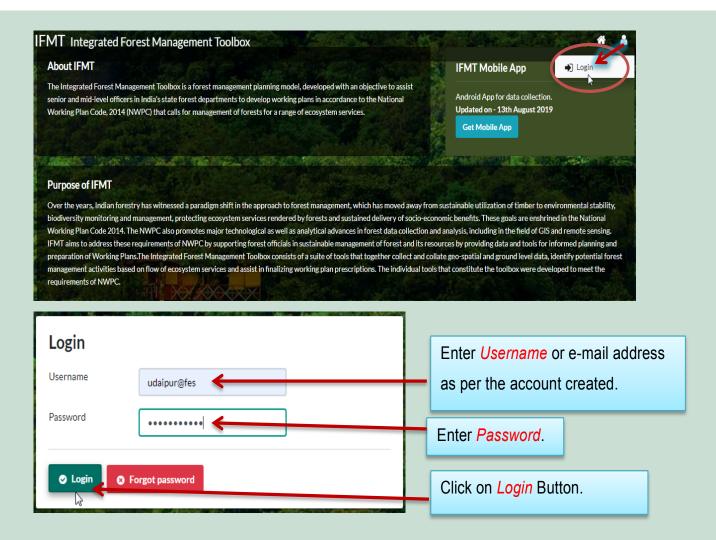
1.2 Home Page

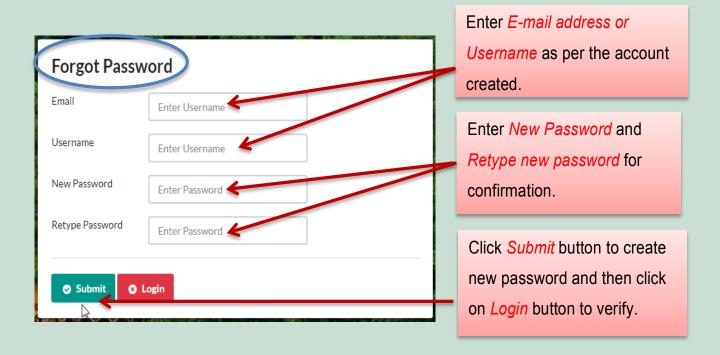
Open Google Chrome and enter IFMT URL (http://http://ifmt.fes.org.in/) in the Address bar. The Home Page will be displayed as shown below, wherein Login option is displayed.



1.3 Login

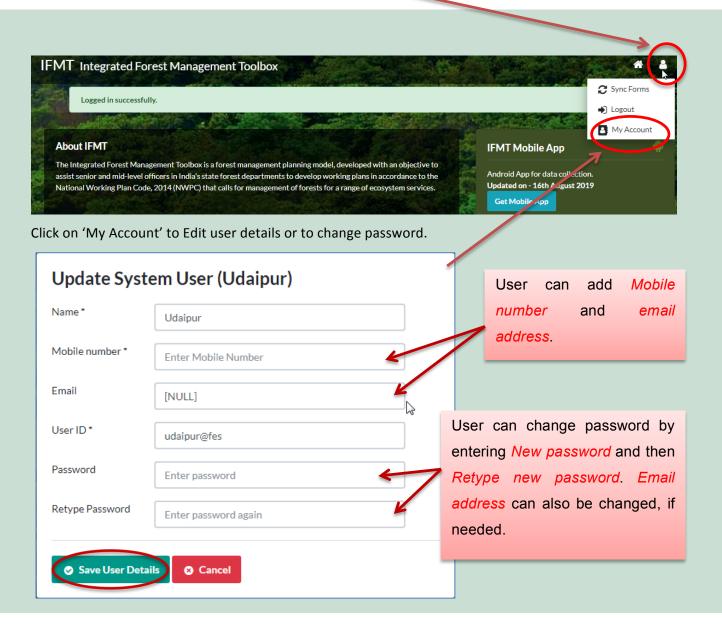
· How to login?





1.3.1 View / Edit User Account

Access the details of your account by clicking on user in the upper right corner. Dropdown menu options will be displayed as shown in the image below.



1.3.2 Logout

Click on Logout to exit from the portal as shown in the image below.



1.3.3 Sync Forms

Click on 'Sync Forms' to sync the field data with the central server and save the entered data for future access.



2.0 Using IFMT

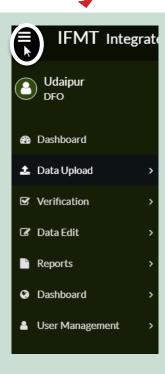
After successful User login, Dashboard will be displayed and Menu Options can be viewed by clicking on , as shown in the image below.

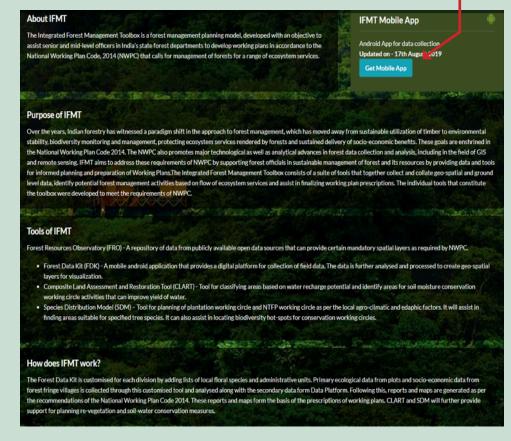
2.1 Menu Options

The functionalities of the above menu options are described below.

2.1.1 Dashboard

Dashboard is displayed along with Mobile app download option.





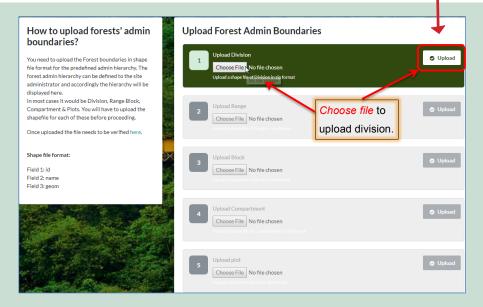
2.1.2 Data Upload

Data upload menu option will open the sub-menu options named Forest Admin Boundaries and Species Data.

2.1.2.1 Forest Admin Boundaries

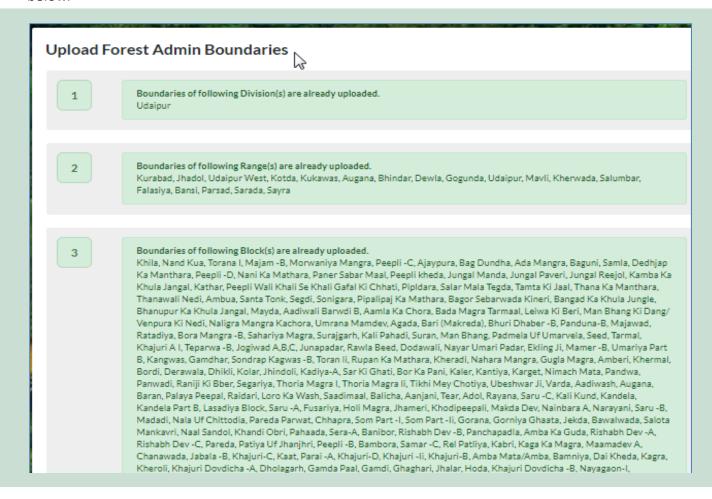
Click on Forest Admin Boundaries menu option to upload Forests' boundaries in shape file format. The Following window will appear.





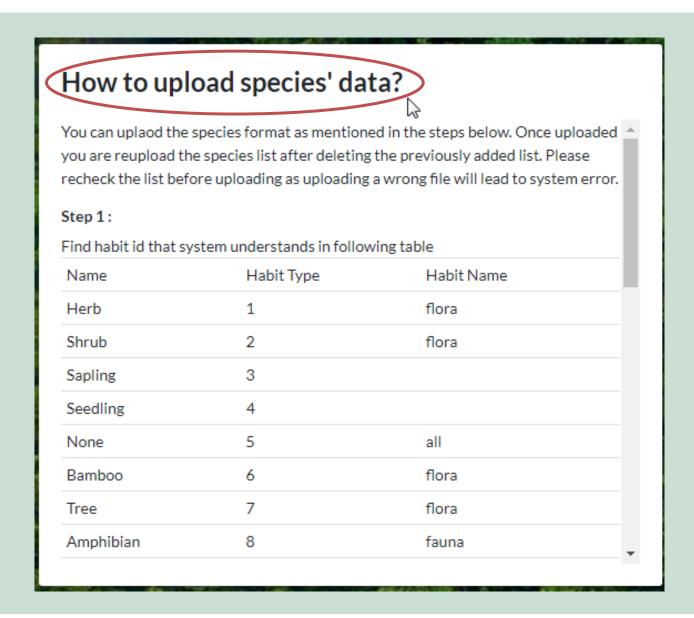
In Addition to the help window, one can upload a list of Forest admin boundaries.

Uploaded boundaries of division, range, blocks, compartments, plots can be later viewed, as shown below.

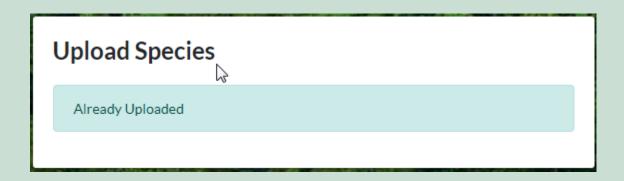


2.1.2.2 Species Data

Click on Species Data option to upload species data. Following Help window will appear.

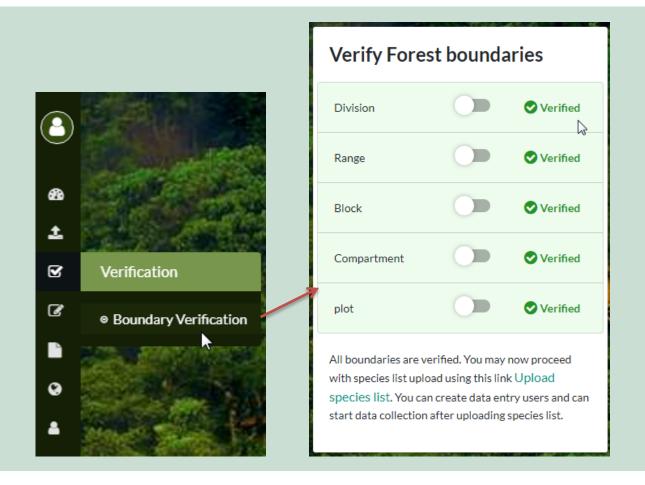


Next to the Help window, the following window will appear if Species data has already been uploaded.

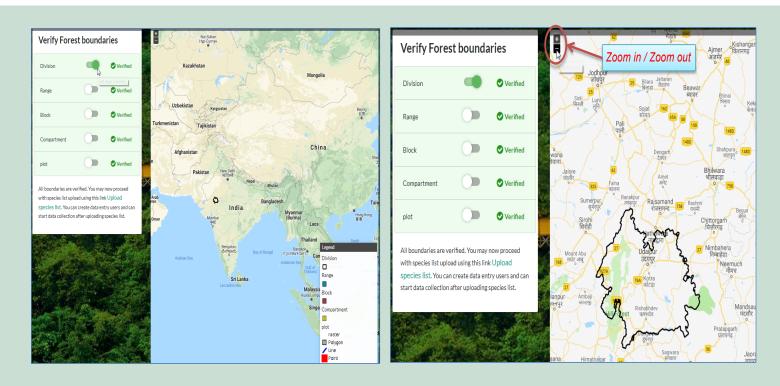


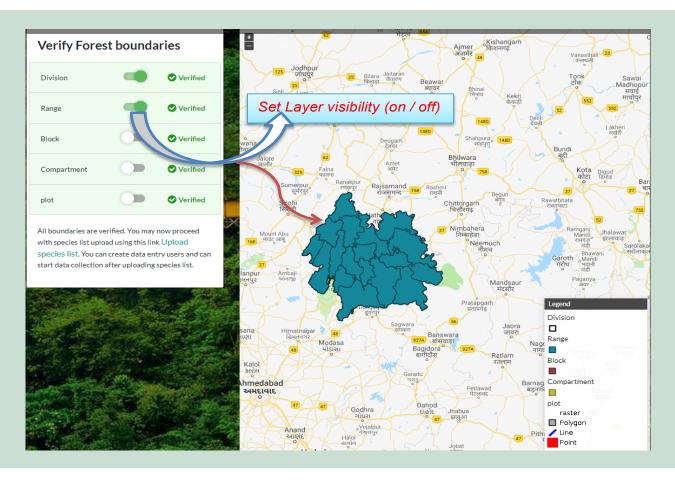
2.1.3 Verification

Click on Verification menu option to verify uploaded forest boundaries.

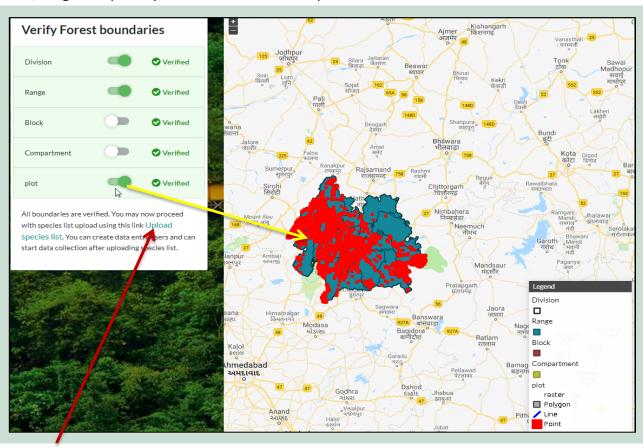


Already verified boundaries will be displayed on the map. Use Zoom in and Zoom out functions for display purposes, as shown in the image below.





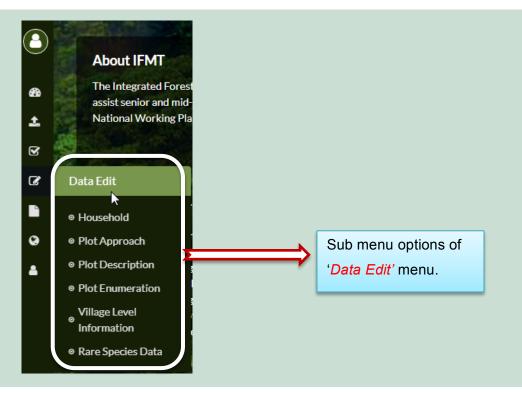
Division, range and plot layers are visible in the map below:



Species can be uploaded by clicking on 'Upload species list' as well. Functionality is same as mentioned in 2.1.2.2

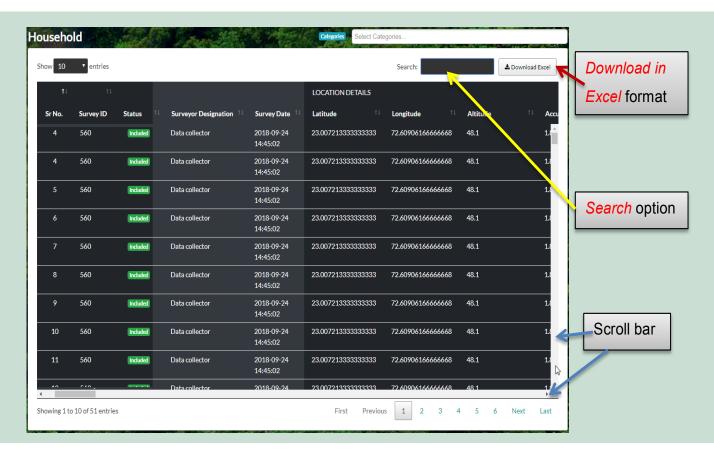
2.1.4 Data Edit

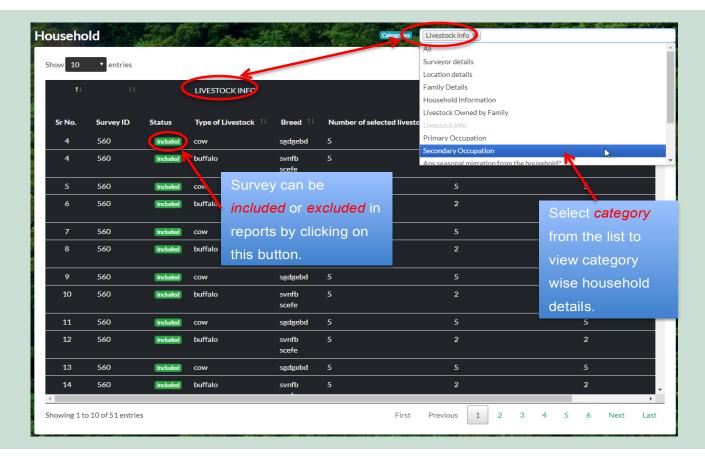
Click on Data Edit menu to display sub-menu options.



2.1.4.1 Household

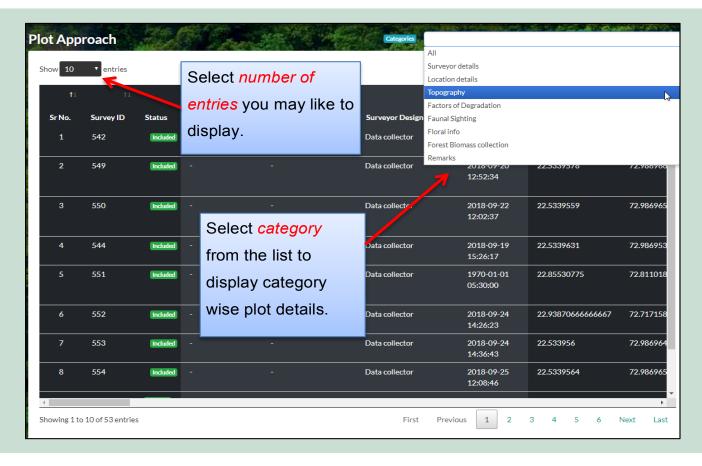
Click on the Household sub-menu option to view details of each Household interviewed and field data collected about their dependency on forest resources. Category wise household details can be viewed and downloaded in Excel format as shown below:





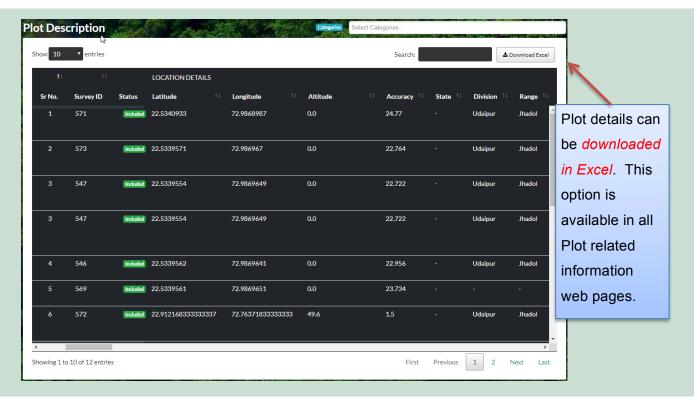
2.1.4.2 Plot Approach

This option displays the information gathered on the way to the sample plot like details of surveyor, location, topography, floral info, forest biomass collection, factors of degradation etc.



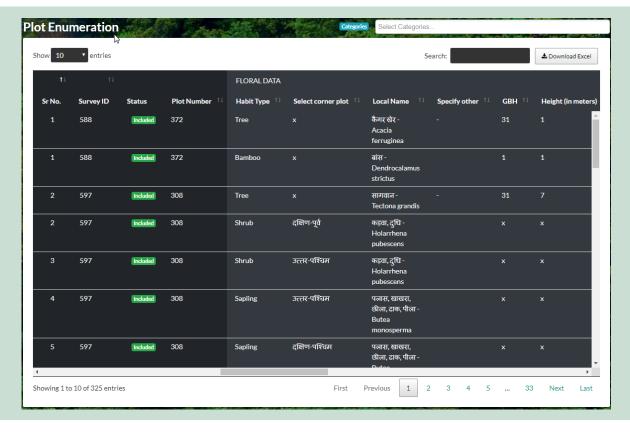
2.1.4.3 Plot Description

This option displays detailed information of the sample plot like location detail, topography, crop composition, bamboo info, grasses and weed, factors of degradation, water body, etc.



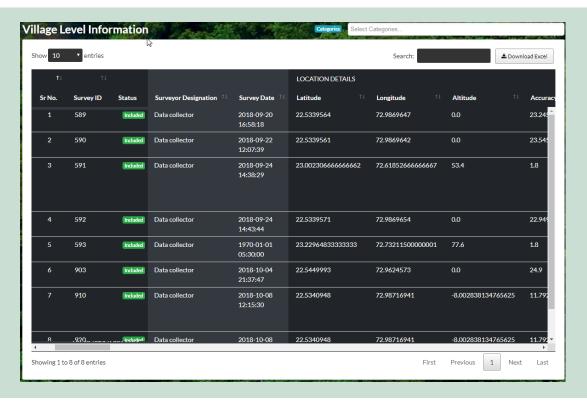
2.1.4.4 Plot Enumeration

This option will display surveyor details, location details and flora and fauna data collected under the Plot enumeration form prescribed as per NWPC-2014.



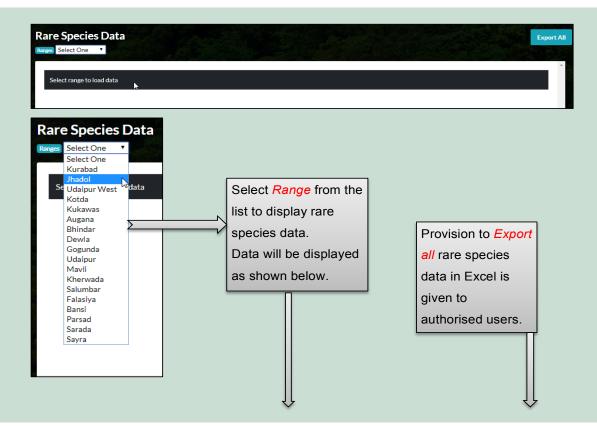
2.1.4.5 Village Level Information

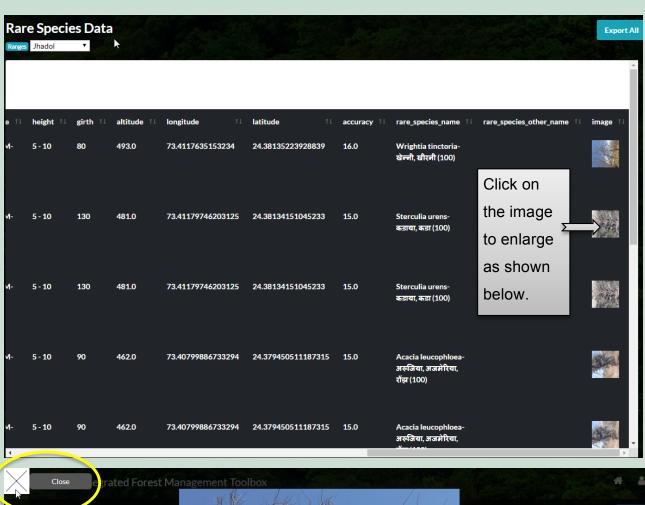
This option shows information about forest fringe villages and their dependency on nearby forest areas or forest blocks, like location details, fuel wood info, fodder requirement, NTFP information, etc.

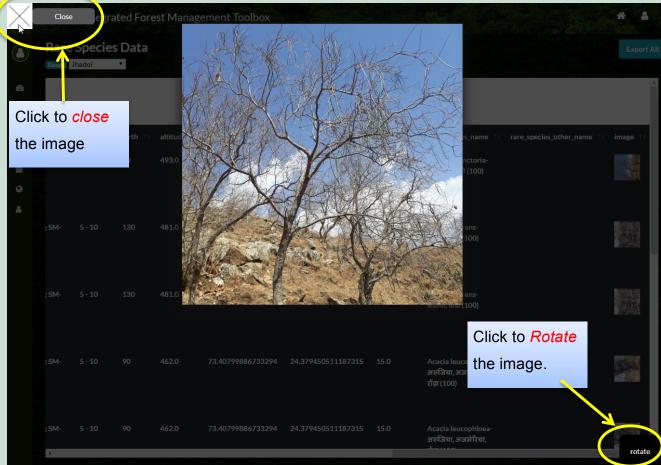


2.1.4.6 Rare Species Data

Click on this option to load Rare species data for the region as shown below:

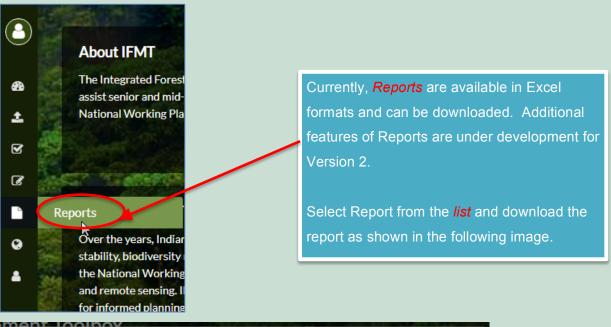


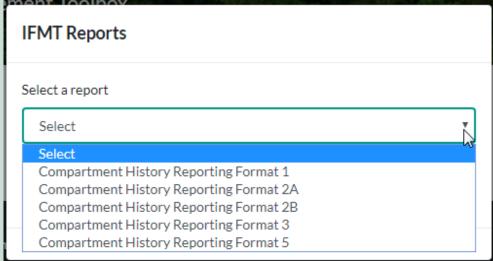


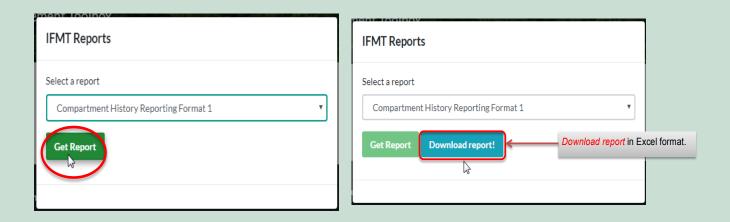


2.1.5 Reports

This menu option will display a list of reports and the user can select the report he/she intends to view and download from the dropdown list as shown below.

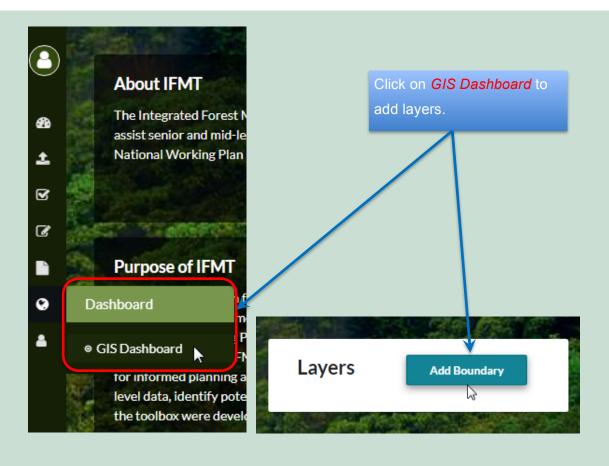


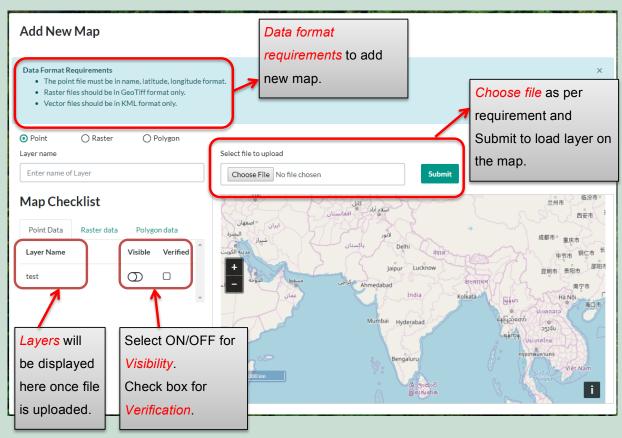




2.1.6 Dashboard

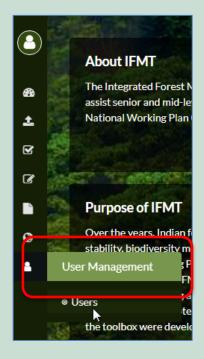
GIS Dashboard enables the user to add layers and boundaries to prepare an on-screen map composition and visually interpret GIS thematic layers.

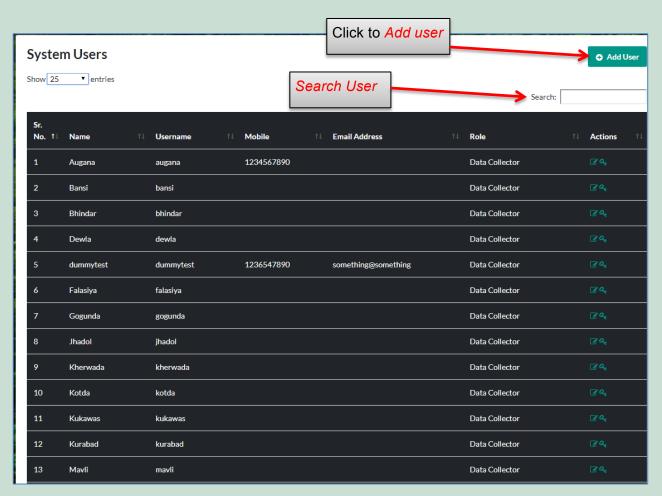




2.1.7 User Management

User management helps to create a new user and view existing user details.







FOUNDATION FOR ECOLOGICAL SECURITY

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