

ABSTRACT

MIS plays an important role in maintaining easy and fast dissemination for sharing, displaying of spatial information in GIS technology which in turn helps in decision making for various Natural Resources. A cheaper yet feature rich alternative to commercial GIS software is Open Source Software which enables user to view, update, customized retrieval, query and analysis of natural resource information for specific needs.

The main objective of the project to develop a Web GIS application for disseminating spatial and non-spatial information where users are allowed to work on interactive map visualization. Moreover the GUI allows the user for automatic Timber Volume calculation based on FSI standard equations and generation of reports based on division, block and plot of Meghalaya along with map view to locate the areas.

The result of this project is based on the potential for further expansion in this area and may also be a source of knowledge for upcoming prospective projects to implement. This report can be used as a reference so that optimization will meet within all boundaries.