Application of Geo-Informatics for Designing National Forest Inventory System and Forest Resources Potential Assessment of Bhutan

Authors

Dr. Moe Myint
Chief Scientist
Mapping and Natural Resources Information Integration (MNRII)
Switzerland

Mr. Kinley Tshering
Chief Forestry Officer
Forest Resources Management Division (FRMD)
Bhutan

Mr. Arun Rai
Senior Forestry Officer
Forest Resources Management Division (FRMD)
Bhutan

Abstract

Geo-Informatics plays an important role in designing the national forest inventory (NFI) system of Bhutan to collect data spatial explicitly and generate the estimates of resource quantity at the desired level of accuracy. Moreover, Bhutan has successfully conducted Forest Resources Potential Assessment (FRPA) using NFI and Geo-Informatics. This paper will discuss how integrated application of Geo-Informatics, Forestry and Sampling Statistics create National Forest Inventory (NFI) System of Bhutan to achieve desired level of statistical accuracy. Moreover, the paper will describe how NFI and Geo-Informatics are applied for National Forest Resources Potential Assessment and valuation of forest resources for National Level Forest Resources Planning.

Contact Author Email: maungmoe.myint@mnrii.com