



INSTITUTE OF FOREST BIODIVERSITY (IFB), HYDERABAD

August, 08th, 2022

A Report on Seminar by Dr. S. Pattanaik, Sc-F, Hyderabad held on 08th August, 2022.

As part of the seminar series, a seminar on “**Identification of potential areas for *Syzygium alternifolium* introduction/reintroduction through species distribution modeling**” has been organized on 08/08/2022 in the Conference Hall of the Institute of Forest Biodiversity, Hyderabad. The seminar started with a brief introduction on the topic by Shri E. Venkat Reddy, IFS, Head Extension Division, IFB, Hyderabad. The speaker of this seminar was Dr. S. Pattanaik, Sc-F, IFB, Hyderabad. A total of 11 members of officials from IFB participated in the seminar.

The seminar started with a brief introduction and the detailed presentation includes:

Species distribution mapping, Species distribution models, Elements of species distribution modeling, Species Niche concept, Drives of species distribution, Biodiversity: Global plant species, Tolerance ranges, Conceptual model on factors controlling species distribution, Source of species occurrence data, Source of Environmental data, Statistical models, MaxEnt model, Model calibration,

Model validation, Species distribution modelling in *Syzygium alternifolium*, Survey & recording species occurrence data, Environmental variables, Selection of useful environmental variables, Contribution of response variables to model building, Identification of potential distributions/ Suitable habitats using Maxent, Identification of suitable forest beats for introduction/ reintroduction, etc.

The overall program is coordinated by Shri E. Manikanta Reddy, Technician, Extension Division.

Glimpses of the Seminar

