



BFIS Tree Species Identification Module

<http://bfis.bforest.gov.bd/bfis/>



About the Tree Species Identification Module:

Identification of tree species is important to estimate the value and status of tree and forest resources (biomass, volume etc.). It helps decision makers to plan for sustainable forest resource management and monitoring. Moreover, estimates of biodiversity indices that indicate ecosystem species richness depend on species identification. Tree species identification is difficult in a country like Bangladesh where there is a large number of species both introduced and native.

The BFIS Tree Species Identification module is an interactive tool which helps users to identify tree species in Bangladesh. Photos and identifying characteristics systematically aid the user in the identification process. The initiative was made successful by the collaborative effort of Bangladesh Forest Department and Bangladesh National Herbarium with support from the Food and Agriculture Organization of the United Nations.

This module contains:

A comprehensive tree species list: An updated list of almost all available tree species of Bangladesh is given in the module.

Searchable database of tree attributes: Detailed information about many tree attributes such as bark texture, leaf type, leaf arrangement and others provide a rich information available from a single source.

Photos and illustrations: Photos of the leaves and structures aid to confirm the user's identification visually. Sketches are used to define unfamiliar terms.

Multiple searching options: Trees can be searched by attribute, species name, local name, or English name.

User friendly interface and results: Tree Species Identification module has an easy and friendly interface to direct the user. Possible matches of the user's search appear as a list which can then be selected to view detailed tree descriptions.



Functionalities:

Search from species list: The list contains all tree species names, arranged in alphabetical order. Desired species can be selected or checked individually from the list.

List of Trees	
Species Name	Family Name
Sauraula roxburghii	ACTINIDIACEAE
Alangium barbatum	ALANGIACEAE
Alangium chinense	ALANGIACEAE
Alangium salviifolium	ALANGIACEAE
nacardium occidentale	ANACARDIACEAE

Taxonomical search: Searches by family, genus and species name separately or together to find desired species.

Attributes search: Finding species using the attribute search helps identify species unknown to the user. Botanical criteria and photos guide the user to narrow down results.

Search by name: Local tree names may vary with regions. The module database compiles many of the most common local names. Another search option by the English name of the species.

Highlights:

- Newly identified tree species can be added into the list through admin panel approval.
- An android application was developed and made available in Google Play Store. Search for “BGD Trees” to download.
- The tree species database was used as a tool for tree identification in a national inventory of Bangladesh’s tree and forest resources.

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