



Govt. of Assam



Forest Department of Assam

# Activities of Silviculture Division at a glance



In-situ Conservation



Capacity building



Ex-situ Conservation



Awareness



Demonstration



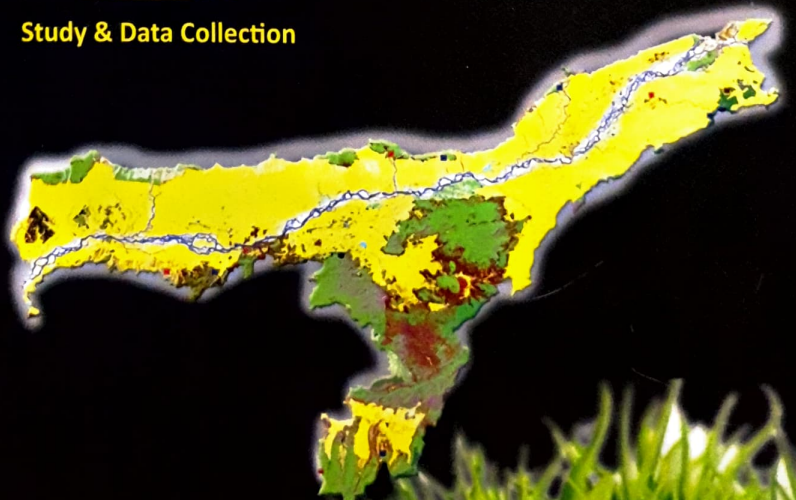
Study & Data Collection



Laboratory activities



Office Beautification



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# SAMPLE PLOTS/EXPERIMENTAL PLOTS/ PRESERVATION PLOTS.



TYPE OF PLOTS	BROAD OBJECTIVES	NO. OF PLOTS
Preservation plot	<ul style="list-style-type: none"> <li>* Preservation of rare and endangered species</li> <li>* Germplasm conservation</li> <li>* Study of change in species composition</li> <li>* Study on causes of sporadicity</li> <li>* Benchmarking carbon sink</li> </ul>	Seven (7)
Experimental plot	<ul style="list-style-type: none"> <li>* Study of species in different climatic and edaphic conditions</li> </ul>	Fifteen (15)
Sample plot	<ul style="list-style-type: none"> <li>* Study the increment</li> </ul>	Thirteen (13)

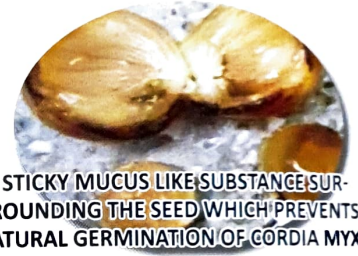
## PROTOCOL ON VEGETATIVE PROPAGATION OF *Cordia myxa* (KOTORA)



MATURED TREE OF *CORDIA MYXA*



MATURED SEEDS OF *CORDIA MYXA*.  
SEED COLLECTION TIME - JULY



STICKY MUCUS LIKE SUBSTANCE SURROUNDING THE SEED WHICH PREVENTS NATURAL GERMINATION OF *CORDIA MYXA*



SIX MONTHS MATURED SEEDLINGS



TREATMENT - REMOVING THE STICKY, MUCUS LIKE SUBSTANCE FROM THE SEEDS DURING JULY

## PROTOCOL ON VEGETATIVE PROPAGATION OF *Swietenia mahagoni* (MAHAGONI)



POD & SEEDS OF MAHAGONY



SEEDS OF MAHAGONY



EXTRACTION AND SUNDRY TREATMENT OF SEEDS FROM POD DURING MARCH



POLYPOT, SEEDLINGS OF MAHAGONY

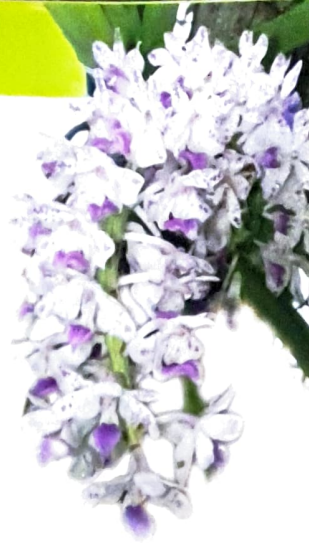


GERMINATION OF MAHAGONY SEEDS DURING APRIL GERMINATION TAKES PLACE AFTER 15-20 DAYS

# ONGOING ACTIVITIES

## STUDY & Ex-Situ CONSERVATION OF ORCHIDS

Orchid House was constructed during 1974-75. Orchids from different parts of the State and outside the State were collected and are maintained here. At present the Orchid Houses have more than 100 species of different types of indigenous orchids collected from areas outside recorded forest area.



## HERBAL GARDEN

Since fifties Silviculture Division has practiced conservation and plantation of various medicinal plants. The Herbal Garden was created at Basistha during 2013-14 with more than 57 herbs, 21 shrubs, 10 climbers & 63 trees species to carry out ex-situ conservation, protocol development and demonstration for the trainees and students.



## LABORATORY ACTIVITIES

- In vitro propagation of rare and endangered orchid species: Foxtail Orchids, Dendrobium Orchids, Ground Orchids and Vanilla.
- In vitro propagation of Bambusa balcooa and Bambusa tulda species initiated.
- Successful identification and control measure against the pathogenic disease of the Mimosop elengi (Kasul) and Cinnamomum camphora (Karpur) and Bamboo species.
- In vitro Culture of Azolla pinnata which is used as a bio fertilizer.



## CAPACITY BUILDING



Tree Watch Programme

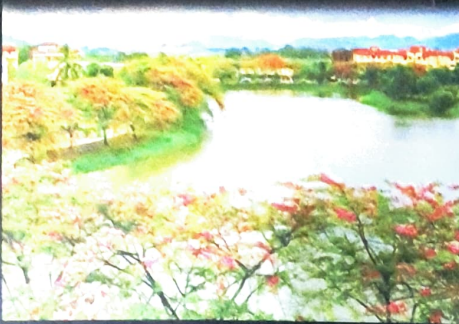


Social outreach



Exhibition

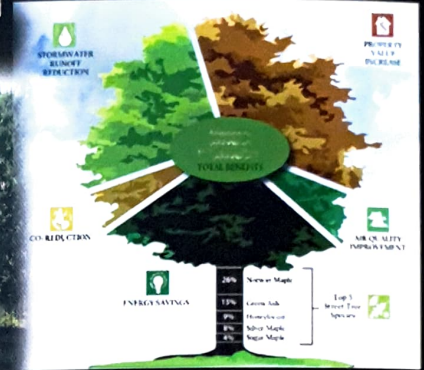
# ACTIVITIES IN THE PIPELINE



➔ PILOT BASED STUDY OF QUANTIFICATION OF FOREST ECOSYSTEM SERVICE BY INVOLVING PREMIER EDUCATIONAL AND RESEARCH INSTITUTIONS.

➔ COMPARATIVE STUDY OF SAL OF NORTH & SOUTH BANK OF BRAHMAPUTRA BY ESTABLISHING SAMPLE PLOT AT SENGLIMARI RF & KACHADAL RF RESPECTIVELY.

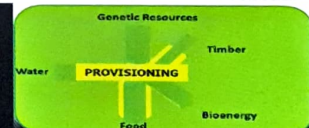
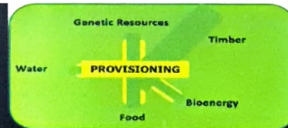
➔ STUDY ON DEVELOPING MECHANISM FOR ECOSYSTEM SERVICE PAYMENT OUT OF CARBON SEQUESTRATION AT GARU PAWAN JFMC, SIBSAGAR DIVISION.



➔ DEVELOPMENT OF INFRASTRUCTURE – BUILDING, RESEARCH, INFRASTRUCTURE & FENCING.

➔ STUDY ON URBAN FORESTRY AND ITS SUBSIDIARY COMPONENTS ALONGWITH NGOs, RESEARCH ORGANISATION, BIOLOGISTS.

➔ PILOT STUDY OF BAMBOO CLUMP THICKENING BY ESTABLISHING BAMBUSETUM FOR BAMBUSIA BALCOOA.



*We contribute together...*