

LIST OF ONGOING RESEARCH STUDY

1. Comparative study on growth and productivity of bamboo growing in controlled and cultivated plots:
 - One cultivated plot and one naturally growing plot of *Melocanna baccifera* was selected.
 - GPS reading taken
 - Study carried out through quadrature method
 - Harvesting was done following sustainable harvesting method
 - Total culm per clump for both the plots were counted
 - Length of the harvested bamboo culms were taken
 - Diameter at breast height of the harvested culms were also measured
 - Detail data recorded manually
 - The Natural plot showed higher productivity than the cultivated plot.

2. Study on productivity and growth of broom grass:
 - Broom grass harvested from Research Station, Nagicherra which is a cultivated plot
 - Two more Natural plots selected at Subalsingh and Pecharthal Range and broom grass was harvested.
 - GPS reading of all the three spots taken.
 - Broom grass harvested maintaining the rules of sustainable harvesting
 - The study was done through quadrature method
 - Culms per tussock counted
 - Average height of the tussock recorded
 - Fresh weight and dry weight of the unplucked and plucked grass recorded
 - Best broom grasses were obtained from the cultivated plot at Forest Research Station, Nagicherra.

3. Research on trial on vegetative propagation technique in different bamboo and medicinal plant species:
 - Vegetative propagation is being done on different species of bamboo.

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- At present branch cutting is done in *Bambusa vulgaris*, *Bambusa striata*, *Bambusa balcooa*, *Bambusa cacharensis*, and *Bambusa wamin*.
 - Macroproliferation is done in *Bambusa pallida*, *Bambusa tulda*, *Bambusa cacharensis*, *Bambusa polymorpha*, *Thyrsostachys oliveri* and *Bambusa striata*.
 - Propagation from seed is done in *Calamus tenuis*, *Dendrocalamus longispathus*, *Aquilaria malaccensis* and *Asparagus racemosus*.
 - Propagation from direct cutting is done in *Piper nigrum* and *Piper betel*.
 - Propagation through culm cutting is done in *Bambusa vulgaris*, *Bambusa tulda*, *Bambusa striata* and *Bambusa balcooa*.
4. Preparation of field manual on identification of different bamboo species from seeds:
- Seeds of different bamboo species collected.
 - Detail taxonomical study was carried out.
 - Detail photographs taken with Digital camera
 - Description done and the material is ready for publication.
5. Clonal Propagation Centre:
- Addition of new bamboo provisional plus clump to the Clonal Propagation Centre or CPC plot for the conservation of best mother culm for future propagation.
6. Tissue culture:
- Tissue culture of *Thyrsostachys oleveri*, *Bambusa pallida* and *Bambusa tulda* is carried out on an experimental basis from node cutting.
 - Tissue culture of *Dendrocalamus longispathus* is done from seeds on an experimental basis.
7. Layering:
- Air layering is done in *Saraca ashoka* on an experimental basis and the results are good.
8. Plantation
- Plantation of some economically important NTFPs like *Andrographis paniculata*, *Asparagus racemosus*, *Lagerstroemia parviflora*, *Curcuma caesia*, *Homalonema aromatica* and *Thysanolaena maxima* is done for research on productivity and the results are good.

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