PROJECT PROFILE

Title:	Assessment of adaptive genetic diversity in teak and sandalwood to guide conservation and genetic improvement efforts	
Principle Investigators:	Dr. R. Yasodha, Scientist G Dr. Modhumita Dasgupta, Scientist G Institute of Forest Constics and Tree Preeding	
Co Investigators:	Dr. Suma Dev, Senior Scientist, Kerala Forest Research Institute, Peechi Prof. Kandasamy Ulaganathan, Centre for Plant Molecular Biology, Osmania University, Hyderabad Dr. A Balasubramanian Dr. Shijo Joseph Dr. R Jayaraj	

019 -2022

Subprojects:

Subproject 1 Development of molecular signatures of local adaptation to enhance the climate change resilience of teak

- Delineation of environmentally distinct populations, identify candidate genes
- Characterization of candidate SNPs in selected teak populations
- Development of molecular signatures of teak populations from different environmental gradients

Subproject 2 Documentation and management of adaptive genetic diversity in *Santalum album* (Indian sandalwood) for conservation and improvement programs

- Documentation of phenological changes in sandalwood populations
- Documentation of adaptive alleles related to different climatic variables.

Funding Agency:	DBT, GoI
Total Budget:	Rs. 152.9 lakhs