

## PROJECT PROFILE

Title:	Selection, Evaluation, Conservation and Documentation of Genetic Resources of Teak and other important tree species for Enhancement of Productivity
Principal Investigator:	Dr. D. Thangamani, Scientist-D
Project Associate :	Dr. A. Shanthi, Scientist-B
Starts and Completion dates :	2019-2022
Objectives 1.	<ol style="list-style-type: none"><li>1. Evaluate the genetic diversity, flowering and fruit setting in seed production areas of teak and identify the potential SPAs.</li><li>2. Evaluate and document the established genetic resources of Teak and other important tree species.</li><li>3. Study the variation in teak populations / plantations and select the desirable populations for conservation.</li><li>4. Develop teak clones for clonal plantation programme.</li><li>5. Ex situ conservation of valuable germplasm of teak and other important species in field gene bank and seed bank.</li><li>6. Develop a Register on Status of Forest Genetic Resources of Kerala State</li></ol>
Funding Agency	Kerala Forest Department
Total budget outlay:	Rs. 19.86lakhs

## SUMMARY

The valuable germplasms of Teak were being documented and will be conserved as ex-situ conservation through field gene bank and seed bank. The seeds were collected from the SPAs of Nilambur, Wayanad and Nemmara, Ranni and Konni forest divisions are preserved in -20 °C.

## Publications:

1. D.Thangamani, O.M. Mohamed Nawas, S. Lalitha, S.P. Subramani and K. Palanisamy. 2020. Genetic diversity and genetic variation assessment among *Tectona grandis* seed

production area populations - International Journal of Creative Research Thoughts (IJCRT); ISSN:2320-2882; Volume.8, Issue 4, pp.3842-3846.

2. D.Thangamani, S. Lalitha, O.M. Mohamed Nawas, R.Vasudevan, S. Poopathirajan and T. Arul prakash.2019. Impact of climate change on teak seed production area and possible adaptation strategies. Poster presentation in 4th National Conference on Frontiers in Ecobiological Sciences and Its Applications (FESA-2019) on 16-18 October, 2019 held at Periyar University, Salem.
3. K.Palanisamy, D.Thangamani, V.N. Mutharaian, M. Krishnamoorthi and S.P. Subramani.2021. Evaluation, Documentation and Conservation of Genetic Resources of Teak in Tamil Nadu and Kerala. IFGTB News, Vol 3, No 3 October 2021.