1. Project Title	**:**	Developing a tissue culture protocol for identified superior genotypes of Teak available in Karnataka for the mass production requested by the Karnataka Forest Department (KaFD)
2. Name of the Principal Investigator	**:**	Dr. Rekha R. Warrier, Scientist-G
3. Name of the funding agency	**:**	Karnataka Forest Department
4. Date of start & end; Total duration	**:**	**2024-2027: 3 years**
5. Total Budget	**:**	Rs.18.02 in lakhs

6. Objectives

Develop a tissue culture protocol for superior genotypes of teak identified for Karnataka.

7. Outline of Research Programme (yearly plan of action):

Year	Activity
First	• Survey and identification of superior genotypes with the support of the Karnataka Forest Department • Establishment of a clonal archive in the Mother Bed Chamber / Teak Germplasm bank of ICFRE-IFGTB • Optimisation of sterilisation procedures for mature explants. • Development of protocol to control browning of cultures. • Optimization of basal nutrient medium and growth regulators. • Impart hands on training on development of protocol to field staff.
Second	• Establishment of cultures • Maintenance of cultures • In vitro / Ex vitro rooting and hardening of rooted plants. • Impart hands on training on development of protocol to field staff.
Third	• Maintenance of cultures • Production of hardened plants • Handing over of 50000 secondary hardened plants • Impart hands on training on development of protocol to field staff.

8. Overall progress since the implementation of the project:

- Epicormic shoots from four superior genotypes of teak identified by Karnataka Forest Department in Thithimathi, Karnataka were placed in polytunnels to produce buds for micro and macro propagation.
- Two genotypes HAL 10 and SHI 13 are in different stages of multiplication.