

- 1. Project Title & Code** : Selection and Evaluation of *Haldina cordifolia* (Roxb.) Ridsdale for Higher Wood Productivity.
IFGTB-RP-177/2018-2025
- 2. Name of the Principal Investigator** : Dr. R. Archana, Scientist C, GTI
- 3. Date of start & end;** : 06.09.2018. to 31.03.2025;
Total duration 6.5 years
- 4. Total Budget** : Rs.29.19 lakhs

5. Main Objectives

1. To identify population of *H. cordifolia* in Tamil Nadu and Kerala.
2. To select Candidate Plus Trees (CPTs) tree based on the tree form, trait and growth superiority.
3. To study wood properties variations among the selected CPTs.
4. To establish three progeny trials from the selected phenotypes for future breeding programme.

6. Significant achievements of the project in brief:

- Carried out extensive surveys in Palakkad, Malappuram, Thrissur, Ernakulam Kozhikode, Kollam, Kasaragod, Kannur and Thiruvananthapuram districts and identified 155 CPTs
- Carried out wood property analyses in 30 CPTs. The results were published in an international journal
- Raised 3000 progenies from 30 selected CPTs sources from various agro climatic zones of Kerala
- 30 open-pollinated progeny families of *Haldina cordifolia* were established at two IFGTB field research stations located in Chennai and Salem, respectively.

7. Publications made:

1. Warriar, K.C.S., Abinaya, R., Gireesan, M. and Jayakumar, M. 2023. Wood fibre properties and genetic divergence in *Haldina cordifolia* (Roxb.) Ridsdale. International Journal of Environment and Climate Change, 13(11): 617-627.
2. Muthupandiyar, S., Gireesan, K. and Warriar, K.C.S. 2019. *Haldina cordifolia* (Roxb.) Ridsdale - A Promising Tree for Domestication. International Journal of Agriculture, Environment and Biotechnology. 12(3):225-228.
3. Muthupandiyar, S., Gireesan, K. and Warriar, K.C.S. 2019. *Haldina cordifolia* (Roxb.) Ridsdale – A multipurpose tree species. In: National Workshop on Securing Wood Demand through Enhancing Productivity for Planted Forests (Eds. Mayavel, A., Nicodemus, A., Murugesan, S. and Gera, M.). Institute of Forest Genetics and Tree Breeding, Coimbatore. pp 68.