

Forensic DNA profiling and timber tracing for origin of wood with special reference to *Tectona grandis* (Teak) and *Pterocarpus marsupium* (Beeja).

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1. The DNA fingerprinting technique has significant practical applications of molecular markers as a forensic timber identification tools, screening of suspect material and identification of illegally sourced wood.
2. The genetic information which is non-manipulable and authentic provides a trustworthy trait to evaluate any biological material at various levels, and that can be traced by forest department. In addition, the modified protocol also helps to isolate high quality of DNA from wide range of timber wood species (leaf, fresh and dry wood), in short time, cost-effective and suitable for PCR amplification.
3. In this project the stumps and logs (Teak) DNA were isolated successfully and matched through DNA fingerprinting technique for the origin of wood. Hence, this mechanism can be used for identification of origin of wood which helps in wood forensic studies.



