

Monthly report for the Month of May2022

Institute of Wood Science &Technology, Bengaluru

IMPORTANT RESEARCH FINDINGS:

Project Title: AICRP-28: All India Coordinated Research Project on *Dalbergialatifolia* (Indian Rosewood) Population status, collection, conservation, characterization, and evaluation of genetic resources of Indian Rosewood, *Dalbergialatifolia* Study of climate driven effects on Indian forests through long term monitoring :

Achievements: Hundred Root suckers of *Dalbergialatifolia* from four plus wood trees were collected from Sampaje range and they were sown in IWST nursery sand bed.

Project Title: Taxonomy, Silviculture and Management Practices of selected rattan species of Karnataka PI: Dr. T.N. Manohara; Karnataka Forest Department

Achievements: Studies on Rattans polination, collecton of Rattans, seedlings, Fruits and vourcher, specimens for herbarium, species collected- *calamus lakshmanae*, *calamus laceiferus*, *calamus karnatakansis*, *calamus prasinus*, *calamus nagbettai*, *calamus traveneoricus* from Makuta, Sampaje, Bagamandal, Talakaveri and near by areas.



1. NEW PROJECTS SANCTIONED DURING THE MONTH: Nil

Sl.No	Name of the project	Amount Sanctioned (in Lakhs)	Sponsoring Authority

2. PROJECTS CONCLUDED DURING THE MONTH: Nil

Name of the project	Amount Sanctioned	Sponsoring Authority

3. PARTICIPATION IN SEMINARS/WORKSHOPS (BOTH NATIONAL & INTERNATIONAL): Nil

Sl. No	Topic	Duration	No. of participants	Beneficiaries

4. MEETINGS ORGANIZED: 02

Sl. No	Topic	Duration	No. of participants	Beneficiaries
1	Brainstorming Session on Certification system for Agriwood with experts of IT sector (Avani Info tech Pvt. Ltd)	20 May 2022 1 day		Officials of both the organizations.
2	Regional Research conference of Wood Scientists from three research institutes (IWST, IPIRTI and FRI)	23 May 2022 1 day		Director, Forest Officers and scientists of IWST, FRI and IPIRTI

5. MEETINGS ATTENDED: 01

	Topic	Duration	No. of participants	Beneficiaries
1	Attended the Board of studies meeting of MSc Wood Science and Technology, course, FRIDU, Dehradun.	17 May 2022	1	To finalize course content of MSc Wood Science and Technology

6. WORKSHOP ORGANIZED: Nil

Sl.	Topic	Duration	No. of	Beneficiaries

No			participants	

7. TRAININGS ORGANIZED: 01

Sl.No	Topic	Duration	No. of participants	Beneficiaries
1	Webinar on Identification, Analysis and Adulterants of sandalwood and its oil to celebrate Azadika Amrit Mahotasav	12 May 2022 1 day	90	Stakeholders

8. TRAININGS ATTENDED: Nil

Sl. No	Topic	Duration	No. of participants	Beneficiaries

9. DEMONSTRATIONS: Nil

Sl.No	Topic	Duration	No. of participants	Beneficiaries

10. PARTICIPATION IN KISAN MELA/EXHIBITION/TRADE FAIR ETC: Nil

Institute	Participated	Duration	Place

11. OTHER EXTENSION ACTIVITY:

- About 51 Range forest Officer Trainees of Kundal Forest Academy, Maharashtra visited IWST on 30 April 2022. Dr. Anil Kumar Sethy, Scientist E, delivered a lecture on wood anatomy. They were conducted to wood workshop, Wood Museum & Advanced Wood Training Center and explained the research activities
- As part of Prakriti program of ICFRE, about 23 M.Sc. Chemistry students of Thiagarajar College, Madurai visited the Plant Tissue Culture lab and other facilities at IWST on 13.5.2022.
- As part of Prakriti program of ICFRE, about 51 B.Sc. Forestry students from Forest College and Research Institute, Mulugu, Telanganavisited various research facilities like laboratories, nursery, wood workshop, Advance Woodworking Training Centre and Museum at IWST on 23.5.2022.
- As part of Prakriti program of ICFRE, about 112 B.Sc. Biotech (6thSem) students of Oxford College of Science, Bangalore visited laboratories, nursery, wood workshop, Advance Woodworking Training Centre and Museum at IWST on 25.5.2022.
- As part of Prakriti program of ICFRE, about 22 B.Sc. Biotech students of M.E.S. College of Arts, Commerce and Science, Bangalore visited Plant Tissue Culture and Molecular Biology laboratory at IWST on 27.5.2022.

- Twenty Post Graduate students from Nrupatunga university are undergoing internship under Mr.B.S. Chandrashekar, Scientist-E, IWST

12. RESEARCH PAPERS:

- Arun Kumar A. N. and S. S. Bisht. (2022). Variability for Oil, α - and β -santalol Content in Indian Sandalwood (*Santalum album* L.) from Marayoor Sandalwood Reserve – The only Natural Population in India. *Indian Forester*, 148(4) : 429-433.
- **BN Divakara** and Chaithra S 2022. Electric Resistance Tomograph (ERT): A review as Non-Destructive Tool (NDT) in deciphering interiors of standing trees, Sensing and Imaging, <https://doi.org/10.1007/s11220-022-00385-3>
- Sharma, R. and Kumar, R. and Ray, S. (2022). Dielectric heating: an eco-friendly alternative for drying of wood, PLANTA-Research Book Series- Vol. – 4; 933-940.
- Ray, S., Kumar, R. and Sharma, R. (2022). Bamboo: The Green Gold, PLANTA-Research Book Series- Vol. – 4; 941-951.
- Kumar, R. and Tripathi, Y. C. (2022). Exploring leaves of *Lannea coromandelica* as a renewable source of natural dye for textile applications, *Indian Forester*; 148 (4): 407-414. 10.36808/if/2022/ v148i4/169091
- Kamboj, G., Gaff, M., Smardzewski, J., Haviarová, E., Hui, D., Rezaei, F., &**Sethy, A. K.** (2022). Effect of Cellulose Nanofiber and Cellulose Nanocrystals Reinforcement on the Strength and Stiffness of PVAc Bonded Joints. *Composite Structures*, 115821.
- Tresa Hamalton, Almas Khannam, Bhuvaneshwari M. and Chandrakala D. (2022) Vegetative propagation techniques for bamboo species: A review. *International Journal of Agriculture, Environment and Biotechnology*, 15(1): 1-7.

Book chapter:

- Tresa Hamalton and Lavanya V. (2022) Investigating the effect of storage and drying conditions on DNA extracted from *D. brandisii*, in *Research Aspects in Biological Science* Vol.2, B P International,p.27-34
- Sundararaj, R., Shanbhag, R.R., Padma, S., **Shashikala, S.**, Rao, R.V. (2022). Wood Degradation, Challenges, and Mitigation. In: Sundararaj, R. (eds) *Science of Wood Degradation and its Protection*. Springer, Singapore. https://doi.org/10.1007/978-981-16-8797-6_1

13.

VISIT OF DIGNITARIES: Nil

14. CONSULTANCIES: Nil

15. OTHER IMPORTANT ACTIVITIES:

- IWST, Bangalore observed Anti-Terrorism Day on 20 May 2022., All Officers, Scientists, staff/ employees took the pledge on this occasion.
- IWST Bangalore celebrated International day for Biological Diversity in collaboration with Indian Academy of Wood Sciences on 22 May 2022. On this occasion Dr. R. Sundararaj and Dr. S. R. Shukla delivered talk on Insects and Wood Diversity. Dr. M. P. Singh, Director, IWST urged the scientists to work on sustainable utilization of wood diversity.

- Test reports of (6) wood samples for identification, (4) samples for moisture content,(3) samples for Density, Hollow (1 No.) Hollow filled with filler plywood (WPC) (1 No.) Decking (WPC) (1 No.) were sent to the concerned department/parties.