

Monthly report for the Month of June 2022

Institute of Wood Science & Technology, Bengaluru

IMPORTANT RESEARCH FINDINGS:

Project Title: AICRP-3: Component-3.1 Evaluation of heartwood formation in *Santalum album L.* using nondestructive: PI: Dr. B.N. Divakara

Achievements: Standardized the ERT equipment for sandalwood by developing a linear regression model using actual and ERT heartwood data. Achieved a similarity of 90% with $R^2 = 0.95$. Plotted the graph of ERT heartwood data and resistance pattern for 32 plantations.

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
Properties of Cross Laminated Timber from plantation grown hardwoods (IWST/WP/XI/175)	11.30 lakhs	ICFRE, Dehradun

3. PARTICIPATION IN SEMINARS/WORKSHOPS (BOTH NATIONAL & INTERNATIONAL): 01

Sl. No	Topic	Duration	No. of participants	Beneficiaries
01	7 th international conference on laminates organized Indian Laminates Manufacturers Association at Bangalore	01 June 2022 (one day)	02	Wood industry and other allied sectors including researchers.

4. MEETINGS ORGANIZED: 01

Sl. No	Topic	Duration	No. of participants	Beneficiaries
1	Regional Research Conference on “ Forestry Research in Southern States of India with	10 June 2022 (1 day)	126	State Departments, Forestry college and Universities, ICFRE

	special focus on Agroforestry issues”			scientists
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5. MEETINGS ATTENDED: 01

	Topic	Duration	No. of participants	Beneficiaries
1	Smt. Tresa Hamalton, Sci-D attended meeting conducted by ‘Forest, Ecology and Environment Department, GoK on ‘Rapid identification of highly traded wild flora’	31 May 2022	1	Scientists
2	Dr. A. Muthukumar, Scientist-E participated in a conference titled “Wood in Architecture & Design (WAD)”, at India Wood Exhibition, Bangalore.	3 June 2022	1	Participants from wood sector

6. WORKSHOP ORGANIZED: Nil

Sl. No	Topic	Duration	No. of participants	Beneficiaries

7. TRAININGS ORGANIZED: 02

Sl.No	Topic	Duration	No. of participants	Beneficiaries
1	Webinar on “ Application of IT tools in Forestry ” as part of Azadi Ka Amruth Mahotsav	23 June 2022	89	
2	Webinar on “ Fodder species for different Agro-climatic zones of Karnataka ” as part of Azadi Ka Amruth Mahotsav	29 June.2022	66	Scientists and Researchers

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
IWST	India Wood Exhibition 2022 organized by NurnbergMesse India Pvt. Ltd	2-6 June 2022 (5 Days)	Bangalore International Exhibition Centre, Bangalore

11. OTHER EXTENSION ACTIVITY:

- About 43 Range Forest Officer trainees from Tamilnadu Forest Academy, Coimbatore visited the laboratories, plant nursery, wood workshops, Xylarium, AWTC and Museum of IWST on 20.6.2022

12. RESEARCH PAPERS:

- Divakara B N, Chaithra S. 2022. Electric Resistance Tomograph (ERT): A Review as Non-Destructive Tool (NDT) in Deciphering Interiors of Standing Trees, Sensing and Imaging. 22:1-24 DOI: <https://doi.org/10.1007/s11220-022-00385-3>
- Durai, M V and Kartik, A.G Distribution and Diversity of Fodder Resources in Karnataka
Indian Forester, 148(5): 527-531, 2022 DOI: 10.36808/if/2022/v148i5/158245
- Kumar, Ritesh, Jayshree Gunjal, and Shakti Chauhan. Effect of borax-boric acid and ammonium polyphosphate on flame retardancy of natural fiber polyethylene composites. Maderas-Cienc Tecnol 24(2022):35, 1-21.

Conference/Workshop paper

- Shiny, K. S., **Sundararaj R.** and Mamatha, N. 2022. A new approach to wood protection: Potential of biologically synthesised CuO and ZnO nanoparticle formulation as a wood preservative. Paper presented in the IRG 53 meeting held at Bled, Slovenia from 29th May to 2nd June 2022.

13. VISIT OF DIGNITARIES: Nil

14. CONSULTANCIES: Nil

15. OTHER IMPORTANT ACTIVITIES:

- Smt. Tresa Hamalton, Sci-D delivered a lecture on ‘Methodology for designing and screening of species/genus specific barcode primers for mangrove species’ to four interns/trainees from Bharathiar University, Coimbatore on 22 June 2022
- With reference to Notice no. ACF/PR.15/2022-23 dated 02/06/2022, Dr. A. Muthukumar, Scientist-E as an Expert Member of TEC (assigned by Hon’ble High Court of Karnataka / Govt. of Karnataka) attended TEC meeting on 04/06/2022.
- Dr. Muthukumar, Scientist-E, with reference to Notice no. ACF/PR.17/2022-23 dated 06/06/2022, as an Expert Member of TEC (assigned by Hon’ble High Court of Karnataka / Govt. of Karnataka) executed field inspection on 11/06/2022..
- Dr. Muthukumar, Scientist-E, with reference to Notice no. ACF/PR.22/2022-23 dated 14/06/2022, as an Expert Member of TEC (assigned by Hon’ble High Court of Karnataka / Govt. of Karnataka) executed field inspection on 16/06/2022 and 18/06/2022.
- Mr. Siddhartha, JRF and Mr. Ritesh Kumar, Scientist – F delivered lecture on “Wood polymer composite for hybrid panel products” on 30-06-2022 in Monthly Seminar conducted by Institute.
- The institute celebrated International Yoga Day on 21 June 2022 under Azadi Ka Amrit Mahotsav. Yoga class was conducted by Yoga instructor Mr. Ravi from Saral Yoga Vedike. For officers/staff/students and visiting RFO trainees of Tamilnadu Forest Academy, Coimbatore.
- Smt. Tresa H amalton, Sci-D & Presiding officer-ICC, convened a meeting of the members of ICC-IWST on 17.6.2022
- Test Reports(5) wood samples for identification, (3) samples for moisture content,(3) samples for Density, Chemical Analysis (1No) Static Bending (1No) Shear (1No) Compression parallel to Grain (1No) Compression Perpendicular to Grain (1 No) Hardness (1 No.) were sent to the concerned department/parties.