

# Monthly report for the Month of November 2021

## Institute of Wood Science & Technology, Bengaluru

### IMPORTANT RESEARCH FINDINGS:

- **AICRP 8:** Red Sanders: Component 8: Evaluation of heartwood formation in *P. santalinus* using Electric Resistance Tomography PI: Dr. B.N. Divakara  
**Achievement:** Electric Resistance Tomograph equipment has been standardized for estimation of heartwood in standing trees of red sander through development of linear regression model using actual and ERT heartwood data. ERT has shown 91% similarity with  $R^2=0.98$ .
- **AICRP 28:** “*Dalbergia latifolia* Roxb.” [Population status, collection, characterization and evaluation of genetic resources of Indian Rosewood]. Duration: 5 Years (2020-25). PI : T.N. Manohara

**Achievement:** Field survey has been carried out in Haliyal, Yellapur, Semangala, Kushala Nagar, Anekadu, Dubare, etc. and identified 25 plus trees collected the route sucker and sown in nursery bed in IWST sprouts appeared in 45 days and were treated with IBA for rooting.

### 1. NEW PROJECTS SANCTIONED DURING THE MONTH: NIL

### 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: NIL

Sl. No	Topic	Duration	No. of participants	Beneficiaries

### 5. MEETINGS ATTENDED: NIL

Sl. No	Topic	Duration	No. of participants	Beneficiaries

#### 6. WORKSHOP ORGANIZED: NIL

Sl. No	Topic	Duration	No. of participants	Beneficiaries

#### 7. TRAININGS ORGANIZED: 06

Sl.No	Topic	Duration	No. of participants	Beneficiaries
1	Webinar on Wood Protection Practices: A way Forward as part of Azadi Ka Amruth Mahotsav	30 Oct 2021 (1 Day)	500	Wood based industries, researchers, foresters, architects, wood users and students
2	Training on Plant Molecular Biology Techniques	2 – 5 Nov 2021 (4 Days)	6	Students of Surana college
3	Training on Micropropagation of Bamboo	8-12 Nov 2021 (5 Days)	6	Students of Surana college
4	Webinar on <b>Timber Identification &amp; its Importance</b> as part of Azadi Ka Amruth Mahotsav	12 Nov 2021 One day	180	Forest Dept. Officials, forestry students, academicians, researchers, Wood Industries and training centres
5.	Two days online/virtual training on <b>“Basics of Wood, Wood Processing &amp; Utilization, Wood Protection &amp; Wood Modification”</b> under the Umbrella Scheme: Forestry Training and Capacity Building - Training to Other Stakeholders	17-18 Nov 2021 2 days	168	Stakeholders liker like students, teachers, bankers, NGOs, Nature/eco club etc.
6	Webinar on <b>‘Utilization of plant tissue culture</b>	17 Nov 2021	240	Undergraduate and postgraduate students

	<b>techniques in forestry'</b> under Azadi ka Amrit Mahotsav			
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#### 8. TRAININGS ATTENDED:NIL

Sl. No	Topic	Duration	No. of participants	Beneficiaries

#### 9. DEMONSTRATIONS:

Sl.No	Topic	Duration	No. of participants	Beneficiaries
1	Training cum demonstration on " <b>Management and harvesting of bamboos</b> " at IWST Research Station, Gottipura under Azadi Ka Amrit Mahotsav.	26 Nov 2021	50	Farmers

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

Institute	Participated	Duration	Place

#### 11. OTHER EXTENSION ACTIVITY:

- BGS School of Architecture & Planning, Bangalore students of B.Arch-VII Sem visited UTM Lab, Xylarium, workshop, wood museum and Advance Woodworking Training Centre, of IWST on 24 Nov 2021 as part of Prakriti Program of ICFRE. 40 students(2 faculty) interacted, and showed keen interest
- A batch of 19 Students of BSc.(Hons) Agriculture visited Plant nursery, Xylarium, workshop, wood museum and Advance Woodworking Training Centre, of IWST on 30 Nov 2021 as part of Prakriti Program of ICFRE.

#### 12. RESEARCH PAPERS:

- Tamta, B.P., Verma, N, Kumar, R and Uniyal, A. (2019). Identification of natural distribution and selection of superior quality germplasms of *Oroxylum indicum* (shyonak) in different forest divisions of Uttarakhand, Open Access journal of Medicinal and Aromatic Plant: 10 (1) 08-20.

- Kher, M.M., Nataraj, M., Arun Kumar, A.N., Sittther,V. Shekhawat, M.S., Warriar, R. R. and Jaime A. Teixeira da Silva (2021). Tissue culture of Indian rosewood (*Dalbergia latifolia* Roxb.). *Biologia*. <https://doi.org/10.1007/s11756-021-00914-7>
- Durai M V. 2021. Assessment of variations in growth, bark thickness and heartwood content of different populations of red sanders (*Pterocarpus santalinus*) in Karnataka, *Indian Forester*, 147(11): 1067-1074.
- Padma, S. and R Sundararaj (2021). Diversion of spiders (Arachnida: araneae) and impact of prunin in Indian Sandalwood plantations from Karnataka, India. *Journal of Threatened Taxa*, Vol.13 (12:19762—19772).

### **13. VISIT OF DIGNITARIES: NIL**

### **14. CONSULTANCIES: NIL**

### **15. OTHER IMPORTANT ACTIVITIES:**

- A batch of 24 artisans and entrepreneurs from Foundation of MSME Clusters visited IWST on 10 Nov 2021. Aspects related to wood properties, seasoning, preservation, thermal modification of bamboo and wood & bamboo processing at the Advance Woodworking Training Centre was explained
- Vigilance Awareness Week was observed from 26 Oct-01 Nov 2021. Dr. M. P. Singh, Director led the staff in taking Integrity Pledge. Poster designing & Elocution Competitions on theme “Independent India @ 75: Self Reliance with Integrity”. The weeklong celebration concluded on 1 Nov 2021. Dr. M. P. Singh, Director addressed the staff & distributed prizes to the winners of Poster Designing & Elocution Competitions.
- IWST, Bangalore celebrated 72nd Constitution Day, Samvidhan Divas by reading the preamble of the Constitution of India by the officers, scientists, staff and students. On this occasion Dr. Madhumati Deshpande, professor, Christ University, delivered a talk on Indian Constitution.
- State Formation Day - Kannada Rajyotsava was celebrated on 16 Nov 2021 with great enthusiasm. Hoisting of Karnataka flag by Director, felicitating retired employees, prizes distribution of competitions, cultural program by staff & students were part of the event

- Dr. Anil Kumar Sethy delivered a talk on “**Utilization potential of plantation/secondary timbers**” for IFS Officers at IPIRTI, Bengaluru through virtual/online mode on 23 Nov 2021
- Dr. M.V. Durai Dr M. V. Durai, Scientist C, delivered a talk on "**Cultivation and management of *Santalum album***" during the HRD training program on "Cultivation, Processing techniques & management of non-wood forest products including medicinal plants" organized by TFRI, Jabalpur on 24 Nov 2021
- Participation and poster presentation in (virtual international conference) ‘Bengaluru Tech Summit 2021’ on 18.11.2021:
  - a. ‘*In silico* techniques for designing species-specific primers for mangrove species’, as corresponding author.
  - b. ‘*In silico* PCR validation of universal primers for *matK* and *rbcL* in *Dalbergia latifolia* and *D. sissoo*’, as corresponding author.
  - c. ‘Biotechnological tools for production of quality planting material of *Santalum album* L. at IWST’, by Almas Khannam and Tresa Hamalton.
- Conducted online pre-synopsis seminar for Ph.D. students (2020) of FRIDU- IWST Centre
- Dr. Muthukumar, Scientist-E attended the Tree Expert Committee meeting on 16 Nov/2021 with reference to Notice no. ACF/PR.56/2021-22 dated 21/10/2021, as an Expert Member (assigned by High Court of Karnataka / Govt. of Karnataka)
- *In vitro* starter cultures of 2 orchid species (2 tissue culture bottles) were supplied.
- Test reports of 1 sample for identification, 1 sample for moisture content, the same were sent to the concerned department/parties.
- Field inspection regarding widening and comprehensive development of Uttarahalli main road, related to TEC was carried out on 15/11/2021 and the report was submitted.