

# Newsletter for the Month of March 2020

## Institute of Wood Science & Technology, Bengaluru

### 1. Significant Research Findings:

- Organo-metallic complexes of Eucalyptus and *Lantana camara* species were evaluated as a potential wood preservative. Extractives from bark, wood and leaves were prepared using different solvents (viz, Hexane, acetone, alcohol and water) of varying polarity. Rubberwood samples were treated with extractives of the above species by pressure method and dipping method and were exposed to field test to study the toxicity of different extractives. Results of the initial experiment showed that alcohol and water extract after sequential extraction was performing better compared to other two solvents. This step was very important for selection of solvent extract for the preparation of organo metallic complexes with inorganic salts i.e., Sodium dichromate and Copper Sulphate. Of the two extractives i.e. alcohol and water; water extractive performed better and solubility of this extractive and mixing with the inorganic salt was very good compared to alcohol extract. Fixation property of both the extractives was almost same. Both the extractives (Lantana and Eucalyptus) in combination are performing good. Eucalyptus bark and wood extractives are performing better compared to leaf extract.

### 2. Publications: Nil

### 3. Consultancies: Nil.

### 4. Tree Growers Mela/KisanMela/ Trade fairs: Nil

Institute	Participated	Duration	Place

### 5. Visit abroad: Nil

### 6. Meetings Organized:

Sl. No	Topic	Duration	No. of participants	Beneficiaries

**7. Meeting Attended:**

Sl. No	Topic	Duration	No. of participants	Beneficiaries
1	Institute –Industry Meet organized by IPIRTI at Gandhidham, Gujarat	1 day	1	Wood Based Industries
2	Training on Environmental Impact Assessment at CSE, New Delhi	2-6 March 2020	2	Scientists
3	Two-day training workshop on “Awareness on ISO/IEC 17025:2017 ” related with switching over from ISO 2005 to ISO 2017 version of NABL	12 - 13 March, 2020	2	Deputy Quality Manager, all the Technical Managers, Deputy Technical Managers and technical staff.

**a) Training Programs Organized:**

Sl. No	Topic	Duration	No. of participants	Beneficiaries

**b) Training Programs Attended:**

Sl. No	Topic	Duration	No. of participants	Beneficiaries

**8. Rajbhasha News:**

- Hindi orientation program was conducted on the topic “Implementation of Rajbhasha policies in the institute” on 6 March 2020 at IWST, Bangalore

**9. Visit of Dignitaries: Nil****10. Popularizing forestry through Radio/TV etc.: Nil****11. Awards: Nil****12. Miscellaneous:**

- Dr. R. Sundararaj, Scientist-G attended (acted) as external examiner for Ph.D. public Viva Voce exam at Bharatiyar University Coimbatore on 13.3.2020

- Dr. A Muthukumar, Scientist-E submitted research outcome on “status of trans-plantation of trees” based on data generated by periodical surveillance to ADG (FC), MoEF on 6<sup>th</sup> March, 2020 .
- Dr. A Muthukumar, Scientist-E as a expert member in Tree Expert Committee (TEC) working under Gov.t of Karnataka, participated in a meeting under the chairmanship of TEC on 17/03/2020 followed by a field visit on 18/03/2020 for physical verification of trees at various project developmental sites of BMRCL viz., Jayanagar fire station, Vellora metro station, MG road station, Shivajinagar station, Cantonment station and Pottery town station and the report was submitted to BBMP.
- Mrs. C.N. Vani delivered a lecture on bamboo preservation for trainees to NBM sponsored training on Bamboo Nursery and Management at IFGTB Coimbatore on 6<sup>th</sup> March, 2020.
- Wood testing enquiries (6 samples for identification, 4 samples for moisture content were received and test reports of 5 samples for identification, 3 samples for moisture content, 3 sample for specific gravity tests and 2 samples for other tests were sent to the concerned department/parties.)

**13. Staff News: Nil**