



Indian Council of  
Forestry Research  
and Education

# ICFRE NEWSLETTER

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### SIGNIFICANT RESEARCH FINDINGS:

#### Institute of Wood Science and Technology, Bengaluru

- Performance of *P. pinnata* planted by Karnataka Forest Department was assessed based on yield potential by collecting 157 clones out of 264 clones. Selection of superior germplasm based on oil and pod/seed parameters was achieved by application of Mahalanobis statistics and Tocher's technique. The best cluster having total oil content of more than 34.9 % with 100 seed weight of above 125 g were selected. Clonal propagation was achieved by cleft grafting method and Vegetative Multiplication Garden (VMG) and Multi-Locational Trial (MLT) was established under three different agroclimatic zones. Twenty-five clones of *P. pinnata* L. planted under MLT were assessed for average growth performance and found that the clones in CS Kaval (1331.50 cm<sup>3</sup>) and BathanaHalli (1185.20 cm<sup>3</sup>) is better than Makali as indicated by scores for volume index.

#### Arid Forest Research Institute (AFRI), Jodhpur

- Twenty six villages were surveyed under the project "Assessment of biological diversity and people participation for developmental plan and awareness generation in different community reserve of Jodhpur" in different clusters for socioeconomic, wildlife and vegetation status in different land uses. *Salvadora oleoides* *Capparis decidua*, *Acacia tortilis* and *Prosopis juliflora* dominate Gaucher areas, whereas *Ziziphus nummularia* and *Prosopis cineraria* in 'Orans'. Agriculture lands are dominated by *P. cineraria*, but forest lands are dominated by *A. tortilis*. Among the grasses most of the area is dominated by *Dactyloctenium indicum*.
- In agroforestry project "Study on the effects of tree on soil fertility and crop production in Rajasthan", Crop reduction was observed in all agroforestry systems. The reduction was lowest (17.3%) in *Prosopis cineraria*, whereas the highest reduction in crop yield was 61.1% in *Salvadora oleoides* based agroforestry system. Economic return of traditional and improved agroforestry systems have been worked out. Economic return was highest (Rs. 132500/ha)

in paddy/wheat with *Acacia nilotica* in Kota district followed by cotton/wheat with *Dalbergia sissoo* based agri-silvi system (Rs. 121070/ha) in Shree Ganganagar district under irrigated condition. Economic benefit was lowest (Rs. 565-12922) in hyper-arid region viz. Churu and Barmer district. However, crop failure was observed in some sites due to very low rainfall in hyper-arid region. Economic return of Guava based agri-horti system was highest (Rs. 126653/ha/annum) in Swaimadhopur district followed by grafted Ber (Rs. 106750/ha/annum) and pomegranate (Rs. 89503/ha/annum) in Barmer District under irrigated condition.

#### Himalayan Forest Research Institute (HFRI), Shimla

- *Thysanoplusia orichalcea* has been found to be the major defoliator of *Saussurea costus* (Fale) Lipsch, locally known as kuth, causing 70 – 80 per cent leaf defoliation thereby, resulting in 40 per cent loss in its productivity. After indepth study, the institute has recommended environmentally and ecologically sound pest control methodology, which can be practiced to keep the crop safe from the pest.

## PUBLICATIONS:

TFRI, Jabalpur published two Technical Bulletin on Maida Chhal (*Litsea glutinosa* Lour) Status & Conservation and Model Guidelines for management of white grubs in forest nurseries, One Brochure on Half Decade of Research (2012-2017) and one pamphlet on TFRI.

## TREE GROWERS MELA/ KISAN MELA:

Institute	Participated/organized	Duration	Place
IWST, Bengaluru	India Wood Exhibition	8 -12 March 2018	Bengaluru
TFRI, Jabalpur	Swarojgar Mela	15 March 2018	MP Higher Education Department at Govt. Science College, Jabalpur
RFRI, Jorhat	Krishi Unnati Mela-2018	16 – 18 March 2018	Indian Agricultural Research Institute (IARI) PUSA, New Delhi



A view of TFRI stall during SwarojgarMela

## WORKSHOPS/ SEMINARS/ MEETINGS:

Sl. No.	Topic	Duration	Beneficiaries
<b>Institute of Forest Genetics and Tree Breeding, Coimbatore</b>			
1.	The 17th Institutional Biosafety Committee meeting of IFGTB	12 March 2018	6 Nos. Scientists, IFGTB
2.	Forest Genetic Resource Management and its Conservation-An overview – Periodical seminar	7 March 2018	81 Nos. All IFGTB Officers, Scientists, Staff, Research fellows
<b>Institute of Wood Science and Technology, Bengaluru</b>			
3.	Collaborative Research	20 March 2018	faculties of IWST and IISc

**Arid Forest Research Institute, Jodhpur**

4.	Institute Level Seminar on Agroforestry	16 March 2018	Scientists/Technical staff/Research scholar of AFRI, representatives from Rajasthan Forest department, KVK, CAZRI, Agriculture Dept. and farmers.
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**Himalayan Forest Research Institute, Shimla**

5.	Development of Bio-pesticides and Bio-fertilizer for use in Forestry	27 March 2018	Scientists, officers including research and technical support staff
6.	Studies on improving livelihood generation through scientific interventions in <i>Pinus gerardiana</i> and important wild mushrooms in Himachal Pradesh	29 March 2018	-



**Meeting on Studies on improving livelihood generation through scientific interventions in *Pinus gerardiana* and important wild mushrooms in Himachal Pradesh”**

**Advanced Research Centre for Bamboo and Rattan, Aizawl**

7.	Activities of ARCBR and Progress of REDD+ pilot project	13-14 March 2018	-
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**POPULARIZING FORESTRY THROUGH ALL INDIA RADIO/ DOORDARSHAN:**

Programme Topic	Channel	Date
<b>Arid Forest Research Institute, Jodhpur</b>		
Van Sanrakshan Evam Paryavaran	All India Radio	21 March 2018

## TRAINING PROGRAMMES:

Sl. No.	Topic	Duration	Beneficiaries
<b>Institute of Forest Genetics and Tree Breeding, Coimbatore</b>			
1.	Borne Oilseeds for economic and environmental benefits	5-6 March 2018	23 Nos. farmers/ tree growers, nursery entrepreneurs and NGOs
			
<b>Training on Borne Oilseeds for economic and environmental benefits</b>			
<b>Institute of Wood Science and Technology, Bengaluru</b>			
2.	Instrumentation Techniques for Phytochemical Analysis	5 - 7 March 2018	students of Ramaiah College of Arts, Science and Commerce, Bengaluru
3.	Wood Identification	13 - 14 March 2018	15 students of College of Forestry, ponnampet, Bengaluru
4.	Technicalities of Wood Science	21 - 23 March 2018	49 students of 2 <sup>nd</sup> year B.Sc. students of TSFD-Forestry College and Research Institute, Mulugu
<b>Tropical Forest Research Institute, Jabalpur</b>			
5.	Application of Biofertilizers in Forestry	11 and 23 March 2018	Staff of Rewa R&E Circle and Indore R&E Circle MP State Forest Dept.
6.	Training on Instrumentation	19-23 March 2018	26 Students and Research professionals

7.	Training to Zila Parishad officials on Watershed	24 March 2018	35 Zila Parishad officials
8.	Training on Scientific cultivation of Sandal	27 March 2018	40 farmers
9.	Training on Scientific cultivation of Sandal	30 March 2018	50 Forest Department Officials and other

**Rain Forest Research Institute, Jorhat**

10.	Bamboo Cultivation, Propagation technique and Nursery Management	7-8 March 2018	Seven Farmers of Golaghat, Assam
11.	Skill Development	10-11 March 2018	Forty two JFMC Members, NGO Members, Students and Farmers



**Training on Bamboo Cultivation, Propagation technique and Nursery Management**



**Training on Skill development**

12.	Bamboo Cultivation, Propagation technique, Nursery management, Vermicomposting, Agarwood Cultivation, Agroforestry and Medicinal & Aromatic plants	13- 14 March 2018	Thirty five JFMC Members of Mukokchung, Nagaland
13.	Agarwood & Mushroom Cultivation	16 and 26 March 2018	Thirty five NGO members and local farmers of Phesual, Jorhat
14.	General Forestry, Genetic improvement, Propagation technique and Nursery practices, Bamboo and its importance, selection, identification and silviculture practices, propagation, tissue culture, preservation technique , Science of Soil, Agarwood and Mushroom cultivation	17 -19 March 2018	Thirty two Trainee Foresters of Assam Forest School, Jalukbari (Assam)

### Himalayan Forest Research Institute, Shimla

15.	Application of Mycorrhizae in forestry and eco-friendly management of insect-pests and diseases	7-8 March 2018	front line staff of HPSFD and college students of the state
16.	Eco-restoration of Degraded Areas	14- 16 March 2018	18 Nos. participants comprising of Officials of Block Development Office, Nichar and representatives of Panchayat of Kinnaur and Shimla

### Institute of Forest Productivity, Ranchi

17.	Techniques of Lac cultivation on traditional and nontraditional host trees"	26 March 2018	29 nos. Mukhiya, Panchayat Members of Chandwa, Latehar district of Jharkhand State
18.	Production and uses of vermicompost	27 March 2018	28 nos. Farmers of Mandar Block

### Centre for Forest-based Livelihoods and Extension (CFLE), Agartala

19.	Strengthening Public Participation in Environment and Forest Clearance Process	14 March 2018	Fifteen participants from Mandai area of West Tripura
20.	Bamboo preservation, joints and joinery Techniques & tress making	25-26 March 2018	Twenty nine participants from Bargachia area of West Tripura



**Training on Strengthening Public Participation in Environment and Forest Clearance Process**



**Training on Bamboo preservation, joints and joinery Techniques & tress making**

### PATENTS:

- IWST, Bengaluru sustainable, low cost & affordable bamboo fiber reinforced thermoplastic composite with high-stiffness properties and the manufacturing process thereof. (Application filed and the patent number: 201841009278) on 15 March 2018.

## CONSULTANCIES:

### Indian Council of Forestry Research and Education, Dehradun

- Presently works on 11 consultancy projects, which are awarded by Tehri Hydro Development Corporation India Ltd; Himachal Pradesh Power Corporation Limited; Karnataka State Official Authority; Uttarakhand Jal Vidyut Nigam Limited (UJVNL); MoEF&CC GoI, New Delhi; Coal India Limited, Kolkotta; NTPC Ltd Noida; CMPDI Ranchi and NMDC Ltd, Hyderabad are in progress.

## RAJBHASHA NEWS:

- TFRI, Jabalpur organized quarterly meeting Official Language Implementation committee was organized on 22 March 2018.
- RFRI, Jorhat organized Hindi Workshop for the nominated officials of different Research Divisions and Sections of RFRI on 20 March 2018.
- हिमालयन वन अनुसंधान संस्थान, शिमला द्वारा दिनांक 12 मार्च, 2018 को संस्थान की राजभाषा कार्यान्वयन समिति की बैठक का आयोजन किया गया, जिसमें अक्टूबर से दिसम्बर, 2017 को समाप्त तिमाही के दौरान राजभाषा की प्रगति से संबंधित कार्यों की समीक्षा की गई तथा इसमें और अधिक सुधार लाने हेतु सदस्यों द्वारा सुझाव भी दिए गए।

## MISCELLANEOUS:

Institute	Special day/ theme	Duration
RFRI, Jorhat	Swatchh Bharat Mission	8, 15, 22 March 2018
IFGTB, Coimbatore		
AFRI, Jodhpur	International Day of Forests 2018	21 March 2018
HFRI, Shimla		
AFRI, Jodhpur	World Water Day 2018	22 March 2018



International Day of Forests 2018 at HFRI, Shimla



World Water Day 2018 at AFRI, Jodhpur

## VISIT OF DIGNITARIES:

- Shri. C. K. Mishra, IAS, Secretary, Ministry of Environment & Forests & Climate Change, Government of India visited IFGTB, Coimbatore on 23 March 2018. On the occasion the Secretary, MoEF & CC also released the natural pigment named "Tara Red" a red natural pigment extracted from red tamarind fruit, *Tamarindus indica var rhodocarpa*. The natural colorant "Tara Red" has been successfully added in jam preparation. The pigment can also be used as a natural colorant for food, beverages, cosmetics and textile.
- Dr. David Molden, DG, International Centre for Integrated Mountain Development (ICIMOD) visited ARCBR, Aizwal from 13-14 March 2018 and visited the areas where REDD+ Himalaya project is being implemented.

## AWARDS:

- RFRI, Jorhat is awarded by Town Official Language Implementation Committee (TOLIC), for the excellent work towards implementation of Official Language during the year 2016-17 in the 33<sup>rd</sup> Meeting of TOLIC held at North East Institute of Science & Technology, Jorhat on 1 March 2018.

## HR NEWS:

Promotion	Date of Joining	Retirement Name of Officer	Date of Retirement
Shri Sardar Singh Chauhan, Under Secretary, ICFRE	7.3.2018	Shri Ranjeet Singh, R.O. Grade -I,	31.03.2018
Shri Prem Lal, Under Secretary, ICFRE	12.3.2018	Shri Jawahar Singh, Technical Officer FRI, Dehradun	31.3.2018



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