



Indian Council of  
Forestry Research  
And Education

# NEWS LETTER

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## 30<sup>th</sup> Annual General Meeting

- The 30<sup>th</sup> Annual General Meeting of ICFRE was held on 5<sup>th</sup> August 2024 at MoEF&CC, New Delhi, chaired by Shri Bhupender Yadav, Hon'ble Minister for Environment, Forest & Climate Change. Shri Kirtivardhan Singh, Minister of State, Smt. Leena Nandan, IAS, Secretary, MoEF&CC, Mr. Jitendra Kumar, IFS, DGF&SS, MoEF&CC, Smt. Kanchan Devi, IFS, DG, ICFRE, PCCF's, members from other ministries and ICFRE officials attended the meeting. During the meeting, two publications: "Factors Responsible for Sal Mortality in Jharkhand State" and "Compendium of Sustainable Land Management Practices Vol.II" were also released.

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# 78<sup>th</sup> Independence Day 2024

- 78<sup>th</sup> Independence Day celebrated on 15<sup>th</sup> August 2024 by ICFRE Headquarter, Institutes and Centres.





## Mission LiFE

- Plantation Activities was carried out by ICFRE institutes and centres under Ek\_Ped\_Maa\_Ke\_Naam campaign.



ICFRE-RFRI



## Significant Research Finding

### ICFRE-Forest Research Institute, Dehradun

- Assessment of Species Diversity of Heterocera (moths) across the Shiwalik Landscape of Northern India and Development of a Database:- A total of 36 species belonging to 6 families 804 individuals were sampled at 3 locations and 22 moth specimens were collected, pinned and preserved.
- All India Coordinated Research Project on Bamboo: Extended the viability of stored seeds of *Dendrocalamus strictus* and *Bambusa bambos* through standard storage procedures. Germination of *D. strictus* is 77% after 35 months storage period and *B. bambos* is 84% after 37 months storage.
- Neem oil was extracted from neem seed samples using the solvent extraction method. The oil yields from a total of 15 samples were estimated and found to vary from 36.6% to 45.8%.
- Essential oil was isolated from the dried leaves of *Skimmia laureola* collected from Rudraprayag, Uttarakhand. Essential oil yield was estimated to be  $0.48 \pm 0.01\%$  (V/W). The chemical composition of the isolated oil was analyzed using GC-MS and a total of 34 compounds accounting 87.53% of the total oil were identified. Oxygenated monoterpenes (54.11%) were the dominant components of the essential oil. The major constituents of the oil included linalyl acetate (19.51%), linalool (11.71%),  $\beta$ -phellandrene (7.75%), geijerene (9.08%),  $\alpha$ -terpineol (5.76%), geranyl acetate (5.55%), and  $\alpha$ -terpinyl acetate (4.20%).



- Dyeing trials on cotton fabric were conducted with six different mordant's namely alum, copper sulphate, ferrous sulphate, potassium dichromate, stannous chloride using *Stevia ovata* extracted dye. All six dyed samples were found suitable for dyeing cotton fabrics in terms of consistency and visual appearance.

### ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- Silvicultural interventions for productivity enhancement and carbon sequestration in plantations of important tree species: Preliminary observations on growth of teak in 2-year-old mixed plantation trial plot at Muthur village in Tiruppur district of Tamil Nadu showed greater girth (20.2 cm) and height (7.92 m) growth under Teak + Casuarina in 50:50 proportion when compared to pure teak (Girth – 17.9 cm; Height – 7.48 m) and Teak + Casuarina in 25:75 proportion (Girth – 17.4 cm; Height – 6.65 m). Further, there was greater percentage (34.4%) of bigger girth trees (having girth above 20 cm) under trial plot with Teak + Casuarina in 50:50 proportion than in pure teak plot (17.3%) and in plot with Teak + Casuarina in 25:75 proportion (25.6%). The interim results are encouraging for promoting Teak + Casuarina

based mixed plantations for harnessing three-pronged benefits viz.i) enhancing productivity ii) reducing of planting stock requirements up to 50% and iii) providing short-term and interim economic returns to the teak growers through harvesting of Casuarina in 3<sup>rd</sup> or 4<sup>th</sup> year of planting.

### ICFRE-Rain Forest Research Institute, Jorhat

- Restoration of degraded coal mined land of Meghalaya through soil amendment and microbial technology for accelerated succession: A total of 6.5 ha of abandoned coal mined land near Latyrke Village, Saipung Block, East Jaintia Hill District, Meghalaya was restored with about 32 numbers of native plant species with the application of plant growth promoting *rhizobacteria* (PGPR) and *Arbuscular Mycorrhizal Fungi* (AMF).

### ICFRE- Institute of Forest Biodiversity, Hyderabad

- A rare, highly valued wavy-grained heartwood containing CPT of Red Sanders (*Pterocarpus santalinus*) was identified in the Kadapa Division. High-quality DNA has been isolated from leaf samples for further molecular studies.

## Participation in Exhibition

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

- ICFRE-IWST, Bengaluru participated and installed display stall in “Matecia Exhibition 2024” at Yasobhoomi, Dwarka, New Delhi from 22<sup>nd</sup> to 25<sup>th</sup> August 2024 and showcased various R&D activities of institute.



Stall by ICFRE-IWST, Bengaluru in “Matecia Exhibition 2024”, at Yasobhoomi, Dwarka, New Delhi



## Workshops/Seminars/Meetings

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

- |     |                                    |                              |   |
|-----|------------------------------------|------------------------------|---|
| 01. | Forest Research So Far-Way Forward | 28 <sup>th</sup> August 2024 | 250 participants including PCCF & HoFF of Karnataka, Kerala and Tamilnadu and Officials from Forest Department of Goa |
|-----|------------------------------------|------------------------------|---|

### ICFRE- Rain Forest Research Institute, Jorhat

- |     |   |  |   |
|-----|---|--|---|
| 02. | Research requirements for livelihood generation through forestry inventions in North Eastern Region | 29 <sup>th</sup> to 30 <sup>th</sup> August 2024 | 88 participants including Scientists, Technical officers from ICFRE institutes, ZSI, Kolkata, BSI, G.B. Pant NIHE, Almora and State Forest Department North East Region |
|-----|---|--|---|



Workshop on “Forest Research So Far-Way Forward” by ICFRE-IWST, Bengaluru



Workshop on “Research requirements for livelihood generation through forestry inventions in North Eastern Region” by ICFRE-RFRI, Jorhat

### ICFRE-Himalayan Forest Research Institute, Shimla

- |     |   |                              |   |
|-----|---|------------------------------|---|
| 03. | Integrated Approaches for Managing Forest against Emerging Threats of Insect Pests and Diseases: Challenges and Solution strategies | 09 <sup>th</sup> August 2024 | 70 participants including Scientists, Researchers, Stakeholders and Forest officers |
|-----|---|------------------------------|---|



Workshop on “Integrated Approaches for Managing Forest against Emerging Threats of Insect Pests and Diseases: Challenges and Solution strategies” by ICFRE-HFRI, Shimla



04.	Sacred Groves : A repository of Biodiversity	29 <sup>th</sup> August 2024	37 participants including Scientists and Research staff of institute
05.	Assessment of Non Timber Forest Products (NTFPs)	29 <sup>th</sup> to 30 <sup>th</sup> August 2024	15 participants including Scientists, Technical staff and Project staff of institute

### ICFRE- Institute of Forest Biodiversity, Hyderabad

06.	Biodiversity Research for Achieving Sustainable Development Goals	02 <sup>nd</sup> August 2024	Participants including Scientists, Technical staff, Research staff and Stakeholders
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### ICFRE- Institute of Forest Genetics & Tree Breeding, Coimbatore

07.	Tree Improvement	20 <sup>th</sup> to 21 <sup>st</sup> August 2024	100 officials from Agriculture University, State Forest Department and ICFRE Institutes
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Workshop on “Biodiversity Research for Achieving Sustainable Development Goals” by ICFRE-IFB, Hyderabad



Workshop on “Tree Improvement” by ICFRE-IFGTB Coimbatore

## Trainings Programme

ICFRE- Forest Research Institute, Dehradun			
01.	Mitigating Land Degradation and Desertification	28 <sup>th</sup> August 2024	150 participants including Farmers, Scientists, Researchers and other Stakeholders from Bhatinda
ICFRE- Rain Forest Research Institute, Jorhat			
02.	Junior Rangers - Connecting students with Nature	21 <sup>st</sup> to 23 <sup>rd</sup> August 2024	20 students from Kendriya Vidyalaya, NEIST (RRL), Kendriya Vidyalaya, AFS, Rowriah and Kendriya Vidyalaya, ONGC, Cinnamara, Jorhat



03.	Bamboo Handicrafts for Livelihood Development	19 <sup>th</sup> to 23 <sup>rd</sup> August 2024	22 Self Help Group Members from West Tripura
			
Training programme on “Junior Rangers - Connecting students with Nature ” by ICFRE-RFRI, Jorhat		Training programme on “Bamboo Handicrafts for Livelihood Development” by ICFRE-RFRI, Jorhat	
04.	Propagation and cultivation of <i>Schumannianthus dichotomus</i>	28 <sup>th</sup> August 2024	38 Foresters of Tripura State Forest Academy
			
Training Programme on “Propagation and Cultivation of <i>Schumannianthus dichotomus</i> ” by ICFRE-RFRI, Jorhat			
ICFRE- Institute of Wood Science and Technology, Bengaluru			
05.	Determination of formaldehyde content by perforator method	01 <sup>st</sup> to 02 <sup>nd</sup> August 2024	02 participants from Bureau of Indian Standards, Mohali
06.	Sandalwood Cultivation and Management	07 <sup>th</sup> to 09 <sup>th</sup> August 2024	13 IFS officers from different state Forest Department
07.	National Working Plan Code-2023 and Indian forest Management Standard	19 <sup>th</sup> to 23 <sup>rd</sup> August 2024	19 IFS officers from different state Forest Department





Training programme on "Sandalwood Cultivation and Management" by ICFRE-IWST, Bengaluru



Training programme on "National Working Plan Code-2023 and Indian forest Management Standard" by ICFRE-IWST, Bengaluru

08. Bamboo Preservation Techniques

20<sup>th</sup> to 21<sup>st</sup> August 2024 40 Bamboo Artisans

### ICFRE- Tropical Forest Research Institute, Jabalpur

09. Bamboo Propagation and Hi-Tech Nursery Techniques

05<sup>th</sup> to 09<sup>th</sup> August 2024 20 Forest Officers from Chhattisgarh Forest Department and Telangana Forest Development Corporation

10. Candidate Plus Tree selection of timber and non- timber species

21<sup>st</sup> to 23<sup>rd</sup> August 2024 17 Forest Guards from Chhattisgarh Forest Department



Training programme on "Bamboo Propagation and Hi-Tech Nursery Techniques" by ICFRE-TFRI, Jabalpur



Training programme on "Candidate Plus Tree selection of timber and non- timber species" by ICFRE-TFRI, Jabalpur

11. Establishment and management of progeny trials, Seed Production areas & Seed Orchards(SSO&CSOs)

28<sup>th</sup> to 30<sup>th</sup> August 2024 20 Forest Guards from Chhattisgarh Forest Department



## ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

12. Nursery raising and cultivation of wild edible fruits

08<sup>th</sup> August 2024 24 farmers from Palghat, Kerala



Training Programme on “Nursery raising and cultivation of wild edible fruits” by ICFRE-IFGTB, Coimbatore

## ICFRE- ICFRE-Arid Forest Research Institute, Jodhpur

13. Assessment of Water requirement of different Forest Tree species and its impact on subsoil moisture

31<sup>st</sup> August 2024 Scientist, Researcher and Engineers from ICFRE-AFRI, Jodhpur, ICFRE-FRI, Dehradun and Green Spectrum Solution, New Delhi

## Activities under Van Vigyan Kendra

### ICFRE- Himalayan Forest Research Institute, Shimla

- ICFRE-HFRI, Shimla organized plantation drive on 13<sup>th</sup> August 2024 at Van Vigyan Kendra, Longani, Mandi. 30 students along with teachers participated in plantation activity & planted 25 seedling of Harad, Behera, Taur, Arjuna, Sagwan and Amla.



ICFRE-HFRI, Shimla organized a Plantation Drive at VVK, Longani, Mandi

### ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- ICFRE-IFGTB, Coimbatore organized a training programme on “Cultivation Techniques of Commercially Important Tree Species” on 14<sup>th</sup> August 2024 at ICAR, KVK, Pongalur. 50 farmers from Tiruppur district participated in the programme.



Training programme on “Cultivation Techniques of Commercially Important Tree Species” under VVK by ICFRE-IFGTB, Coimbatore at ICAR, KVK, Pongalur



- 26 farmers from Tindivanam, Villupuram and participated in Skill development training programme on “Nursery Techniques” on 08<sup>th</sup> August 2024 organized by KVK TNAU, Tindivanam at ICFRE-IFGTB, Coimbatore.



Training programme on “Nursery Techniques” by KVK, TNAU, Tindivanam at ICFRE- IFGTB, Coimbatore

## Memorandum of Understanding

- MoU was signed between ICFRE-IWST, Bengaluru and Mount Carmel College, Bengaluru on 29<sup>th</sup> August 2024 for academic and technical collaboration and sharing of facilities.



Signing of MoU between ICFRE-IWST, Bengaluru and Mount Carmel College Bengaluru

- MoU was signed between ICFRE-HFRI, Shimla and HIMOARD, Khaneri, Rampur, Shimla on 09<sup>th</sup> August 2024 for collaboration in various activities related to forestry research, environment protection and extension.



Signing of MoU between ICFRE-HFRI, Shimla and HIMOARD, Khaneri, Rampur, Shimla

- MoU was signed between ICFRE-AFRI, Jodhpur and College of Forestry, Navasari Agricultural University, Navasari on 22<sup>nd</sup> August 2024 to establish New VVK in Gujarat.



Signing of MoU between ICFRE-AFRI, Jodhpur and College of Forestry, Navasari Agricultural University, Navasari

- MoU was signed between ICFRE-RFRI, Jorhat and School of Pharmacy, Assam, Kaziranga University, Jorhat on 02<sup>nd</sup> August 2024 to open new vista for joint collaborative work between the two organizations.



Signing of MoU between ICFRE-AFRI, Jodhpur and School of Pharmacy, Assam, Kaziranga University, Jorhat



- MoU was signed between ICFRE-IFGTB, Coimbatore and The Directorate of Extension Education, Tamil Nadu Agriculture University, Coimbatore on 11<sup>th</sup> August 2024 for promoting extension activities through conducting theme based trainings to various stakeholders, establishment of demo plots with improved clones/varieties of tree species and keeping ICFRE-IFGTB technologies and products in the KVKs for wider reach.

## Prakriti Programme

### ICFRE- Arid Forest Research Institute, Jodhpur

- A group of 44 students along with teachers from Jawahar Navodaya Vidyalay, Tilwasani visited ICFRE-AFRI, Jodhpur on 29<sup>th</sup> August 2024. They were explained about the process of making Neem Patti Khad.



Visit of students from Jawahar Navodaya Vidyalay, Tilwasani to ICFRE-AFRI, Jodhpur

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

- 483 students along with teachers from Presidency School, Nandini Layout, New Baldwin International School, TC Playa, The Indian Public School and Thirumala Vidyaniketan School, Bengaluru visited tissue culture lab, nursery, wood museum and advance wood working training centre at ICFRE- IWST, Bengaluru on 01<sup>st</sup>, 02<sup>nd</sup>, 20<sup>th</sup>, 21<sup>st</sup>, 23<sup>rd</sup> & 28<sup>th</sup> August 2024.



Visit of students from New Baldwin International School, TC palya, Bengaluru to ICFRE-IWST, Bengaluru

### ICFRE- Institute of Forest Biodiversity, Hyderabad

- ICFRE-IFB, Hyderabad organized a programme on "Biodiversity and Conservation" from 8<sup>th</sup> to 9<sup>th</sup> August 2024 at Vyasa School, Bowrampet, Hyderabad. 124 students along with teachers participated in programme.



Visit of students from Vyasa School, Bowrampet, Hyderabad to ICFRE-IFGTB, Hyderabad

### ICFRE-Institute of Forest Productivity, Ranchi

- ICFRE-IFP, Ranchi organized a Prakriti Programme on "Environment Awareness" on 28<sup>th</sup> August 2024 at Kendriya Vidyalaya, Samastipur. About 100 students participated in the programme and they were made aware about Measure of Nature Conservation.

### ICFRE-Rain Forest Research Institute, Jorhat

- A group of 42 students along with teachers from National Telegraph Girls High School, Jorhat visited ICFRE- RFRI, Jorhat on 16<sup>th</sup> August 2024. They were briefed about the research and development activities of the institutes.



culture lab, nursery, wood museum and advance wood working training centre at ICFRE- IWST, Bengaluru on 05<sup>th</sup> August 2024.



Visit of students from National Institute of Fashion Design Global College HSR, Layout, Bengaluru to ICFRE-IWST, Bengaluru

- ICFRE-IWST, Bengaluru organized a programme on "Silage Preparation" on 09<sup>th</sup> August 2024 at University of Agriculture and Horticultural Sciences, Iruvakk, Shivamogga, Karnataka. 92 participants including students of UAHS and farmers from Iruvakk, Shivamogga participated in the programme.

### ICFRE- Tropical Forest Research Institute, Jabalpur

- 48 Forest Range Officers from Chhattishgarh Forest Department visited ICFRE-TFRI, Jabalpur on 05<sup>th</sup> & 21<sup>st</sup> August 2024. They were explained about ICFRE-TFRI technologies displayed in the museum cum interpretation centre of the institute.



48 Forest Range Officers from Chhattishgarh Forest Department visited ICFRE-TFRI, Jabalpur

- 25 Forest officials from Chandrapur Forest Department visited ICFRE-TFRI, Jabalpur on 21<sup>st</sup> August 2024 and they were briefed about activities of Insectary and biological control of forest insect pest.

Visit of students from National Telegraph Girls High School, Jorhat to ICFRE-RFRI, Jorhat

### ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- 680 students along with teachers from Anan International Schools, Kalapatti, Corporation Girls High School, Selvapuram, Shri Visweswara Vidyalaya, Matriculation Higher School, Coimbatore Manchester International School, Palaniappa International School, Avinashi, St. Ursulas Anglo Indian Higher Secondary School, Chennai, Smart Model School, Tirupur and Appu Arivaleyam CBSE school, Salem, Coimbatore visited ICFRE-IFGTB, Coimbatore on 1<sup>st</sup>, 2<sup>nd</sup>, 6<sup>th</sup>, 12<sup>th</sup>, 16<sup>th</sup> and 23<sup>rd</sup> August 2024. Lecture on Human Animal Co-existence, Climate change, Agroforestry, Food chain, Basic Technique of DNA Finger Printing and Genetic Transformation, Environmental Protection, Tissue culture and DNA Finger Printing and Genetic Transformation were also delivered to students.



Visit of students from Matriculation Higher School, Coimbatore to ICFRE-IFGTB, Coimbatore

### **Awareness Programme**

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

- A group of 09 students along with faculty from National Institute of Fashion Design Global College, HSR Layout, Bengaluru visited tissue



- ICFRE-TFRI, Jabalpur organized a Awareness Programme on “Restoration of Ravine Lands” on 30<sup>th</sup> August 2024 at Useth village, Ambah, Morena. 60 participants from Ambah, Morena and adjoining areas participated in the programme.

### ICFRE- Rain Forest Research Institute, Jorhat

- 34 students from College of Horticulture & Forestry, Pasighat, Arunachal Pradesh and Bosco Institute, Jorhat visited ICFRE-RFRI, Jorhat on 12<sup>th</sup> & 22<sup>nd</sup> August 2024. They were briefed about R&D activities of the institutes.



Visit of students from College of Horticulture & Forestry, Pasighat, Arunachal Pradesh to ICFRE-RFRI, Jorhat

### ICFRE- Forest Research Institute, Dehradun

- ICFRE-FRI, Dehradun organized a “Green Skill Development Programme” on 29<sup>th</sup> August 2024 at Raiwala. 50 women from Self Help Group, Raiwala participated in the programme.



Awareness Programme on “Green Skill Development Programme” by ICFRE-FRI, Dehradun at Raiwala, Uttarakhand

### ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- 117 students along with faculties from Shri Nehru Maha Vidyalaya College of Arts and Science and Tamil Nadu Agricultural University, Coimbatore visited ICFRE-IFGTB, Coimbatore on 05<sup>th</sup>, 07<sup>th</sup> & 12<sup>th</sup> August 2024. Lectures on Vegetative Propagation Techniques was also delivered to students.



Visit of students from Shri Nehru Maha Vidyalaya College of Art and Science, Coimbatore to ICFRE- IFGTB, Coimbatore

### ICFRE-Arid Forest Research Institute, Jodhpur

- 30 FRO trainees from Chandrapur Forest Academy, Maharashtra visited ICFRE-AFRI, Jodhpur on 28<sup>th</sup> August 2024. They were briefed about the research and development activities of institute.



30 FRO trainees from Chandrapur Forest Academy, Maharashtra visited ICFRE-AFRI, Jodhpur

- 58 IFS Probationers along with faculty from IGNFA, Dehradun visited ICFRE-AFRI, Jodhpur on 28<sup>th</sup> August 2024. They were briefed about research activities, viz. sand dune stabilization,



rehabilitation of saline land, rehabilitation of degraded hills and waterlogged areas, conservation of genetic resources and variability, screening of genetic variability through provenance trials, improvement of planting stock, mass multiplication through tissue culture and vegetative propagation of forest tree, biofertilizers, neem compost.

Composite Centre, Bamboo Charcoal Unit, Bamboo Treatment Unit and Bah Bathika of RFRI, Jorhat on 28<sup>th</sup> August 2024.



Dignitaries from Phoenix Foundation, Maharashtra visited ICFRE-RFRI, Jorhat



58 IFS Probationers from IGNA, Dehradun visited ICFRE-AFRI, Jodhpur

## Visit to Institutes

- Smt. Kanchan Devi, IFS, DG, ICFRE, Dehradun visited Gass Forest Museum of ICFRE-IFGTB and she also inaugurated the Seed Gene Bank at ICFRE-IFGTB, Coimbatore from 21<sup>st</sup> to 20<sup>th</sup> August 2024.



Smt. Kanchan Devi, IFS, DG, ICFRE, Dehradun visited ICFRE-IFGTB, Coimbatore

- A group of people from Phoenix Foundation, Maharashtra headed by Shri Pasha Patel, Chairmen of Phoenix Foundation visited Bamboo Nursery, Bambusetum, Bamboo

## HR NEWS

### RETIREMENT

Name of Officer	Date
Shri Subhash Chand Vishwash, ICFRE-TFRI, Jabalpur	31.08.2024
Shri K. Gireesan, CTO, ICFRE-IFGTB, Coimbatore	01.08.2024
Shri Ganesh Ram, Section Officer, ICFRE-FRI, Dehradun	31.08.2024

### TRANSFER

Name of Officer	Date
Shri P.S. Srikant, Scientist-B, ICFRE-RFRI, Jorhat to ICFRE-IFB, Hyderabad	07.08.2024

### PROMOTION

Name of Officer	Date
Shri Ganesh Ram, ICFRE-FRI, Dehradun	30.08.2024

### REPATRIATION

Name of Officer	Date
Shri Parmod Chand Lakra IFS (MH:2010) DCF, ICFRE-IFP, Ranchi	31.08.2024



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Smt. Kanchan Devi, IFS, Director General,  
ICFRE, Dehradun

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