

NEWSLETTER

31st Annual General Meeting

- The 31st Annual General Meeting of ICFRE was held on 6th October 2025 at ICFRE-FRI, Dehradun, under the chairmanship of Shri Bhupender Yadav, Hon'ble Minister for Environment, Forest and Climate Change. The meeting was attended by Mr. Sushil Kumar Awasthi, IFS, DGF&SS, MoEF&CC; Smt. Kanchan Devi, IFS, Director General, ICFRE; Principal



31st Annual General Meeting of ICFRE at ICFRE-FRI, Dehradun

Chief Conservators of Forests (PCCFs); representatives from other ministries; and ICFRE officials. During the meeting, four publications: “Cashing on *Casuarina*”, “Extension Strategy of ICFRE 2025–30”, “Compendium of Lesser Known Forest Plants”, and “Breeding Plants for Important Tree Species of India” were released. The Forest Soil Health Card web portal was also inaugurated.



Release of “Cashing on *Casuarina*”, “Extension Strategy of ICFRE 2025–30”, “Compendium of Lesser Known Forest Plants”, and “Breeding Plants for Important Tree Species of India”

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Significant Research Finding

**ICFRE- Forest Research Institute,
Dehradun**

- The α amylase inhibitory activity of *Hyptis suaveolens* leaves essential oil (HSLEO) was evaluated using the starch–DNS colorimetric assay, where IC_{50} values for the oil and the standard inhibitor acarbose were determined from percent inhibition of α amylase at 540 nm. HSLEO exhibited poor inhibition with an IC_{50} of 1134 ± 1.032 μ g/mL, in comparison to the IC_{50} of acarbose 254 ± 1.531 μ g/mL under identical conditions.
- Medicinally important seeds of aromatic tree *Zanthoxylum armatum* were hydro-distilled and light yellow colored essential oil of characteristic aroma in 0.9% yield was isolated.
- The antimicrobial potential of *Skimmia laureola* leaf essential oil was systematically evaluated against *Acinetobacter baumannii* using both disk diffusion and broth microdilution assays. The essential oil exhibited pronounced, concentration -dependent antibacterial activity. In the disk diffusion assay, the largest inhibition zones were recorded at 12.5% (21.61 ± 0.56 mm) and 6.25% (19.89 ± 0.36 mm), with a gradual reduction in activity observed at lower concentrations. The broth microdilution assay further validated these findings, demonstrating complete bacterial growth inhibition ($\geq 95\%$) at 100% and 50% concentrations, moderate inhibition at 25% and 12.5%, and a marked decline below 6.25%. Meropenem, used as a positive

control, produced the maximum inhibition zone, confirming the reliability of the assay.

**ICFRE-Institute of Wood Science and
Technologies, Bengaluru**

- An amalgamation of lignocellulosic fibers, flax, hemp, and coir fibers for producing panels were carried out. The study findings reveal that all the amalgamated panels exhibited excellent mechanical properties. All board combinations, including flax–hemp, hemp–coir, and flax–coir and vice versa, satisfied the required properties of medium-density fiberboards (IS 12406), for panel densities ranging between 900 and 1200 kg/m³. All the panels emission level was in the E1 class when tested as per IS: 13745. Similarly the amalgamated panels properties (WA, TS, MOR, MOE) were compared with coir board standard (IS 15476) and high density particle board (IS 3478). It is only the Flax to hemp and flax to coir combination conformed to all the properties of Indian standard high density particle boards and medium density coir board respectively.
- The construction concept by using the species *Azadirachta indica* (Neem wood) for the manufacture of 60 minutes fire retardant door was optimized and demonstration on commercial scale was made. The shutter manufactured in the factory conforms to 60 minutes of rating as per IS:3614.

Workshops/Seminars/Meetings

ICFRE- Forest Research Institute, Dehradun

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| 01 Webinar on “ Human-Elephant Conflict” | 07 th October 2025 | 100 participants including Officers & Scientists of ICFRE-FRI and other organizations under ICFRE and other institutes and students of FRI Deemed to be University, Dehradun and other universities |
| 02 Research Advisory Group meeting | 08 th October 2025 | 25 participants including Scientists, Technical Officers of ICFRE-FRI, Dehradun |



Webinar on “ Human-Elephant Conflict” at ICFRE-FRI, Dehradun



RAG meeting at ICFRE-FRI, Dehradun

ICFRE-Institute of Forest Biodiversity, Hyderabad

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| 03 Monitoring and Evaluation of Plantations and Soil and Water Conservation | 13 th October 2025 | 25 participants including Scientists, Technical Officers of ICFRE- IFB, Hyderabad |
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ICFRE-Himalayan Forest Research Institute, Shimla

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| 04 Seminar on “Ecosystem- its components threats and conservation” | 31 st October 2025 | 20 participants including Scientists, Forest Officers and Researchers of ICFRE-HFRI |
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ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

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| 05 Seminar on “Safe science: Biosafety regulations and practices” | 27 th October 2025 | 35 participants including Scientists, Officers, Technical staffs and Research fellows of ICFRE-IFGTB, Coimbatore |
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Training Programmes

Indian Council of Forestry Research and Education

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| 01 Environmental Impact Assessment – Evidence Based Decision Making | 06 th to 10 th October 2025 | 25 participants including Scientists and Technologist from 11 state Government Departments |
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Training Programme on “ Environmental Impact Assessment – Evidence Based Decision Making ” at ICFRE(HQ)

ICFRE- Forest Research Institute, Dehradun

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| 02 Plywood Manufacture | 13 th to 17 th October 2025 | 19 participants from different plywood industries |
| 03 Wood and Bamboo Preservation | 27 th to 31 st October 2025 | 15 participants from different academic institutions, government organizations and industries |



Training Programme on “ Plywood Manufacture ” at ICFRE-FRI, Dehradun



Training Programme on “Wood and Bamboo Preservation” at ICFRE-FRI, Dehradun

ICFRE NEWSLETTER 2025

ICFRE- Arid Forest Research Institute, Jodhpur

04	Nursery Technologies for Arid and Semi-Arid Species	07 th to 09 th October 2025	20 participants including Students and NGO's members
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ICFRE- Himalayan Forest Research Institute, Shimla

05	"Diversity, Identification, Conservation and Utilization of Medicinal Plants of North Western Himalayan Region	06 th to 08 th October 2025	30 participants including Ayurvedic Officer, Teachers, Students, Horticulture Field staff, Vaidya, Mahila Mandal, Yoga teacher and Eco Task personnel
06	Utilization of Mycorrhiza biotechnology for capacity building and production of planting material in the establishment of modern nurseries	15 th to 16 th October 2025	35 participants including Forest Officers and Field staff of Bilaspur Forest Department, H.P.



Training Programme on "Diversity, Identification, Conservation and Utilization of Medicinal Plants of North Western Himalayan Region" at ICFRE-HFRI, Shimla



Training Programme on "Utilization of Mycorrhiza biotechnology for capacity building and production of planting material in the establishment of modern nurseries" at ICFRE-HFRI, Shimla

07	Seed, Nursery and Plantation Techniques of Oak Species	22 th to 24 th October 2025	50 participants including Students, Eco Task Force, Panchayat representative and NGO's working on medicinal plants
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Training Programme on "Seed, Nursery and Plantation Techniques of Oak Species" at ICFRE-HFRI, Shimla



08	Rastriya Karmayogi Large Scale Jan Seva Programme	31 st October 2025	19 participants including officers & Scientists of ICFRE HFRI Shimla
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ICFRE NEWSLETTER 2025

ICFRE- Rain Forest Research Institute, Jorhat

09 Capacity Building Programme for Biodiversity Survey	27 th October 2025	10 participants from Imphal, Manipur
10 Bamboo for personnel of other services	28 th to 30 th October 2025	30 officers from different Departments of Mizoram, such as Agriculture, Horticulture, Soil Conservation, Veterinary, Education, Medicinal & Plant Board, State Bamboo Mission and Pollution Control Board



Training Programme on “Bamboo for personnel of other services” at ICFRE-RFRI, Jorhat

ICFRE- Institute of Wood Science and Technology, Bengaluru

11 Wood as a Sustainable Material	06 th to 10 th October 2025	16 IFS officers from different State Forest Department
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Training Programme on “Wood as a Sustainable Material” at ICFRE-IWST, Bengaluru

ICFRE- Tropical Forest Research Institute, Jabalpur

12 Conservation and Propagation Techniques of RET and Economically important species	07 th to 10 th October 2025	25 participants including Range Officers and Nursery In-charge
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Awareness and Demonstration Programme

ICFRE- Forest Research Institute, Dehradun

- Conducted training programme on “Cultivation and Utilization of Medicinal and Aromatic Plants” from 27th to 29th October 2025 at Krishi Vigyan Kendra, Dhakrani. Around 35 farmers from nearby area of Dhakrani participated in the programme.



Training Programme on “Cultivation and Utilization of Medicinal and Aromatic Plants” at Krishi Vigyan Kendra, Dhakrani

ICFRE-Institute of Wood Science and Technology, Bengaluru

- Establishment of Sandalwood based Agroforestry Demo Plot at Chattiya Alappuzha, Kerala on 26th October 2025.

ICFRE- Arid Forest Research Institute, Jodhpur

- 73 FRO trainees from Chandrapur Forest Academy, Maharashtra and Tamil Nadu Forest Academy, Coimbatore visited Interpretation Centre, VMGs of Shisham Clones and Thar Shobha Khejri trial of ICFRE-AFRI Jodhpur on 02nd & 09th October 2025. They were briefed about various research activities of the institute.



FRO trainees from Tamil Nadu Forest Academy, Coimbatore visited ICFRE-AFRI, Jodhpur

- 40 students along with faculty from College of Agriculture, Vellayani, KAU, Kerala visited VMGs of Shisham Clones, Neem Patti khad and Thar Shobha khejri trial on 14th October 2025. They were briefed about various research activities of the institute during the visit.



Students from College of Agriculture, Vallayani, KAU, Kerala visited ICFRE-AFRI, Jodhpur

ICFRE-Tropical Forest Research Institute, Jabalpur

- 15 students from St. Aloysius College, Jabalpur visited ICFRE-TFRI, Jabalpur on 17th October 2025. They were briefed about Environmental and Forestry Research during the visit.



Students from St. Aloysius College, Jabalpur visited ICFRE-TFRI, Jabalpur

ICFRE-Institute of Forest Productivity, Ranchi

- Organized awareness programme on “Role of Millets in preventing Malnutrition's” on 08th October 2025 at Deepu Tola, Lalgutwa, Ranchi. 25 participants from Deepu Tola, Lalgutwa, Ranchi participated in the programme.

ICFRE- Institute of Forest Genetics & Tree Breeding, Coimbatore

- 106 students along with faculty from Karunya Institute of Technology, Coimbatore and FRI, DU, University, Dehradun and Yogi Vemana University, Kadapa visited Vegetative Multiplication Garden, Chemistry and Bioprospecting lab of ICFRE-IFGTB, Coimbatore on 10th, 23rd & 29th October 2025.



Students from FRI, DU University, Dehradun visited ICFRE-IFGTB, Coimbatore

ICFRE- Institute of Wood Science and Technology, Bengaluru

- 80 students along with faculty members from Oxford College, Bengaluru visited ICFRE-IWST, Bengaluru on 28th October 2025. During the visit, they were apprised about the tissue culture technique and the step-wise hardening process of tissue culture-raised bamboo and sandalwood.



Students from Oxford College, Bengaluru visited ICFRE-IWST, Bengaluru

Mission LiFE

ICFRE-Institute of Forest Biodiversity, Hyderabad

- ICFRE-CEC, Viskhapatnam organized awareness programme on “Energy Saved, Water Saved and Single Used Plastic” on 03rd, 09th, 13th, 15th & 17th October 2025 at ICFRE-CEC, Andhra University and Joseph College for Women, Viskhapatnam.



Awareness programme on “Healthy lifestyle and Single Used Plastic” at ICFRE-CEC, Visakhapatnam

- ICFRE-IFB, Hyderabad organized awareness programme on “Waste Reduced and Energy Saved” on 13th & 15th October 2025 at nearby area of Bahadurpally, Hyderabad.

ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- A plantation programme of *Madhuca longifolia* was organized on 14th October 2025 at R.C.C. Middle School, Valipalayam.



Plantation programme on *Madhuca longifolia* at R.C.C. Middle School, Valipalayam, Coimbatore

Prakriti Programme

ICFRE- Forest Research Institute, Dehradun

- Organized awareness programme on “Sustainable Food System” on 14th October 2025 at Manava Bharti School, Dehradun. 200 students participated in the programme.

ICFRE- Arid Forest Research Institute, Jodhpur

- 158 students along with teachers from PM SHRI Government Senior Secondary School, Chamu, Jodhpur visited the Interpretation Centre of ICFRE-AFRI, Jodhpur on 10th October 2025. During the visit, they were briefed on the VMG of Shisham clones, Thar Shobha Khejri, and Neem Patti Khad pits.



Students from PM Shree GSSS, Chamu, Jodhpur Visited ICFRE-AFRI, Jodhpur

ICFRE- Institute of Wood Science and Technology, Bengaluru

- 86 students along with teachers from PM Shri Government High School, Morpila, Goa visited various Laboratories of ICFRE-IWST, Bengaluru on 24th October 2025. During the visit, they were shown the Plant tissue culture, Molecular Biology Lab & Nursery techniques.

ICFRE-Tropical Forest Research Institute, Jabalpur

- 50 students from PM Shri Government High School, Gaur Saliwada, Jabalpur visited ICFRE-TFRI, Jabalpur on 13th October 2025. They were briefed about various research activities of the institute during the visit.



Students from PM Shri Government High School, Gaur Saliwada, Jabalpur visited ICFRE- TFRI, Jabalpur

ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- 467 students along with teachers from SNMVHS School, Sri Ramakrishna Mission Vidhyalaya Swami Sivanandha Higher Secondary School, Stanes Anglo Indian Higher Secondary school and Amrita Vidyalayam, Coimbatore visited Gass Forest Museum and Aviary Rescue Centre of ICFRE-IFGTB, Coimbatore on 08th, 09th, 13th & 30th October 2025.



Students from Amrita Vidyalayam, Coimbatore visited ICFRE- IFGTB, Coimbatore

Memorandum of Understanding

- ICFRE-IWST, Bengaluru signed MoU with Federation of Indian Plywood and panel Industry, New Delhi on 17th October 2025 to execute projects on plywood preservation and bio-based adhesives.



MoU signed between ICFRE-IWST, Bengaluru and Federation of Indian Plywood and panel Industry, New Delhi

- ICFRE-IWST, Bengaluru signed MoU with M/s SpaCyPhy Tech Private Limited, Bengaluru on 17th October 2025 for development of prefabricated Timber/Bamboo based Building and Construction activities.
- ICFRE-IWST, Bengaluru signed MoU with National Institute of Advanced Studies (NIAS), Bengaluru on 21st October 2025 for collaborative research and development activities between the two institutions.

- ICFRE-IFB, Hyderabad signed MoU with Living Water Aqua Solutions Private Organization, Hyderabad on 10th October 2025 for Faster collaborative engagement in Scientific, Academic and Extension activities.

Visit of Dignitaries to Institutes

- Shri A. K. Bhattacharya, Joint Secretary, MoEF&CC visited ICFRE- IWST Field Station, Kolkata on 17th October 2025 as Nodal Officer for inspection on Swachhata Special Campaign 5.0.



Shri A. K. Bhattacharya, Joint Secretary, MoEF&CC visited the ICFRE-IWST, Bengaluru

Radio Talk

- A radio talk on “Climate Change and its Impact” in Assamese was delivered at All India Radio, Jorhat, on 25th October 2025.



Radio Talk on “Climate Change and its Impact” at All India Radio, Jorhat

Miscellaneous

156th Mahatma Gandhi Birth Anniversary

ICFRE Headquarter, Institutes and Centres celebrated 156th Mahatma Ghandhi Birth Anniversary on 02nd October 2025.



Swachhata Campaign 5.0

- ICFRE, HQ, institutes and centres carried out cleanliness drive as a part of celebration of Swachhata Campaign 5.0 from 02nd to 31st October 2025



Vigilance Awareness Week 2025

- Vigilance Awareness Week was celebrated from 27th October to 03rd November 2025 by ICFRE Headquarter, Institute and Centres.



ICFRE(HQ)



ICFRE-AFRI



ICFRE-HFRI



ICFRE-IFB



ICFRE-IFGTB



ICFRE-IWST



ICFRE-RFRI



ICFRE-TFRI

Wildlife Week

- Wild life Week was celebrated from 02nd to 08th October 2025 by ICFRE, Institute and Centres.



ICFRE-AFRI



ICFRE-HFRI



ICFRE-TFRI



ICFRE-IWST

HR NEWS

RETIREMENT

Name of Officer	Date
Dr. Rambir Singh, Scientist-E, ICFRE-FRI, Dehradun	31.10.2025
Smt. Shalini P. Rao, CTO, ICFRE-IWST, Bengaluru	31.10.2025
Sh. Navneet Kumar, Section Officer, ICFRE(HQ)	31.10.2025
Sh. Vijendra Kumar, Section Officer, FRI, Dehradun	31.10.2025

APPOINTMENTS ON DEPUTATION

Name of Officer	Date
Sh. T. Rabi Kumar IFS (AGMUT:1995) Director, IFGTB, Coimbatore	09.10.2025
Sh. Atanu Shah (TFS:2012) DCF, FRC-LEC, Agartala	10.10.2025

TRANSFER

Name of Officer	Date
Sh. Hemant Kumar Galgal, Under Secretary, TFRI, Jabalpur to AFRI, Jodhpur	28.10.2025
Sh. Neeraj Kumar, Gupta, Under Secretary, AFRI, Jodhpur to ICFRE(HQ)	28.10.2025

Publication

Research Papers

- Sahu, L., & Singh, A. P. (2025). Recent Range Extension of Moths (Lepidoptera: Heterocera) in Moist Temperate Ban Oak (*Quercus leucotrichophora* A. Camus) Forests of Uttarakhand, Western Himalaya, from Neighbouring Sub-regions of Central and Eastern Himalaya, India. *National Academy Science Letters*, 1-17.
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- Dewangan, A., Sil, A., Tiwari, A., Kumar, A., Krishnapriya, M. G., & Kolhe, M. R. (2025). Impact of climate change on urban infrastructure: Strategies for resilient civil engineering design. *International Journal of Environmental Sciences*, 11(22s), 3963–3970.
- Singh, L., Brar, B. S., & Sahoo, S. C. (2025). A comprehensive review on the utilization of rice straw for sustainable development and future potential. *International Journal of Environmental Sciences*, 11(24s), 1114–1120.
- Kumar, R., Sharma, R., Sujatha, M., & Bhadoriya, K. (2025). Rapid differentiation of *Dalbergia latifolia* and *Dalbergia sissoo* wood using thin layer chromatography for CITES compliance. *Microchemical Journal*, 218, 115599.
- Behera, S., Chavan, S. B., & Deshmukh, P. P. (2024). Microclimate modification through agroforestry influences crop yield under extreme weather conditions. *Climate Change and Environmental Sustainability*, 12(1), 12–20.
- Deshmukh, P. P., Tiwari, P., Dobriyal, M. J., Yadav, R. P., Handa, A. K., Kumar, N., Ram, A., Dev, I., Yadav, A., Anuragi, H., Shukla, A. K., Shekhawat, V., Anuvarna, K., & Behera, S. (2025). Effects of tree planting geometry on lentil nutritional quality, tree biomass, and economic returns in Melia dubia-based agroforestry system in Bundelkhand region of India. *Frontiers in Agronomy*, 7, 1675259.
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cultivating this green gold. *Advances in Bamboo Science*, 13, 100204.

- Ganguly, S., Natchiappan, S., & Jacob, J. P. (2025). Thysanoptera associated with forest trees in India. *Indian Journal of Entomology*, Special Issue (7), 74–93.
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ICFRE, Dehradun

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