



Indian Council of
Forestry Research
Education

(An Autonomous body under
the MoEF&CC, Government
of India)

NEWSLETTER

May 2025 Vol. 25 No. 05

NIRANTAR

- The Indian Council of Forestry Research and Education organized the first quarterly meeting of the National Institution for Research & Application of Natural Resources to Transform, Adapt, and Build Resilience (NIRANTAR) under MoEF&CC, Government of India, on 19th May 2025 at ICFRE-RFRI, Jorhat. The meeting was chaired by Smt. Kanchan Devi, IFS, Director General, ICFRE, and attended by the Deputy Director General (Research), ICFRE, Directors of all nine ICFRE institutes, the Director of the Botanical Survey of India (Kolkata), the National Centre for Sustainable Coastal Management (NCSCM, Chennai), and representatives from MoEF&CC, Wildlife Institute of India (Dehradun), G.B. Pant National Institute for Himalayan Environment (Gangtok), and other stakeholders.



First Quarterly Meeting on NIRANATAR by ICFRE(HQ)
at ICFRE-RFRI, Jorhat

Contents	Pg. No.
NIRANTAR	01
International Biodiversity Day 2025	02
Mission LiFE	03
Significant Research Finding	04
Counsultancies	04
Workshops/Seminars/Meetings	04
Trainings Programme	07
Activities under Van Vigyan Kendra	09
Memorandum of Understanding	10
Prakriti Programme	11
Awareness and Demonstration Programme	12
Publication	13
Rajbhasha Activity	14
Miscellaneous	15
HR NEWS	15

International Biodiversity Day 2025

- International Biodiversity Day was celebrated on 22nd May 2025 by ICFRE institutes and centres.



Mission LiFE

ICFRE-Forest Research Institute, Dehradun

- ICFRE-FRI, Dehradun organized an awareness programme on “Single Use Plastic Reduced & E-Waste Reduced” on 29th May 2025 at Panditwari and nearby area of Premnagar, Dehradun.



Awareness programme on “Single Use Plastic Reduced and E-Waste Reduced” by ICFRE-FRI, Dehradun

- ICFRE-FRI, Dehradun organized maintenance and caretaking programme under Ek_Ped_Maa_Ke_Naam campaign on 19th May 2025 at FRI, Campus. Eight participants from ICFRE-FRI, Dehradun participated in the programme.



Dehradun, Uttarakhand, India
8xwx+4f4, Mason Rd, Forest Research Institute,
Indian Military Academy, Dehradun, Uttarakhand
248003, India
Lat 30.345356° Long 77.998371°
19/05/2025 05:02 PM GMT +05:30

Maintenance and Caretaking programme under Ek_Ped_Maa_Ke_Naam by ICFRE-FRI, Dehradun

ICFRE-Himalayan Forest Research Institute, Shimla

- ICFRE-HFRI, Shimla conducted an Awareness Programme on 17th May 2025 at G.B. Pant Memorial Degree College, Rampur, Bushahar (H.P.). 200 participants including students and people from surrounding area of Rampur participated in the programme. They were made aware about Save Energy and Save water.



ICFRE-HFRI, Shimla organized Awareness Programme at G.B.Pant Memorial Degree College, Rampur, Bushahar(H.P.)

ICFRE-Institute of Forest Biodiversity, Hyderabad

- ICFRE-IFB, Hyderabad organized an awareness programme on “Single Use Plastic Reduced & E-Waste Reduced” on 22nd, 26th, 28th & 29th May 2025 at Swagath Nagar, Suraram and nearby area of Kompali, Hyderabad.



Hyderabad, Telangana, India
Suraram, Swagath Nagar, Aphb Colony, Suraram,
Hyderabad, Telangana 500055, India
Lat 17.542021° Long 78.438414°
29/05/2025 03:10 PM GMT +05:30

Awareness programme on “Single Use Plastic Reduced and E-Waste Reduced” by ICFRE-IFB, Hyderabad

Significant Research Finding

ICFRE-Forest Research Institute, Dehradun

- A faunal field survey was conducted from 25–30 April 2025 in five forest locations within the 10 km influence and impact zone of the proposed coal mining block in Hazaribagh District, Jharkhand, focusing on butterflies, birds, and mammals. A total of 24 butterfly species, 74 bird species, and 13 wild mammal species were recorded, along with their relative abundance and conservation status.

ICFRE-Institute of Forest Genetics and Tree Breeding, Coimbatore

- Melia dubia* variety GK-10 was registered under the PPV& FRA, New Delhi, in the Extant (Variety of Common Knowledge) category for a protection period of 18 years (Registration No. REG/2024/0487).
- CRISPR-Cas tools were used to generate a 1400 bp deletion in the *EcHKT1;1* gene in the challenging tree species of Eucalyptus. A tissue-preferential RNA Pol II promoter, MsPRP2, was tested for the first time in Eucalyptus to generate

the desired gene deletions using a polycistronic gRNA construct. The constructs were evaluated rapidly using pooled GFP-tagged roots induced by *Agrobacterium rhizogenes*, a method developed for Eucalyptus at ICFRE-IFGTB, as well as in plantlets generated using *A. tumefaciens* mediated transformation. The optimised gene editing methods and the MsPRP2 promoters open up new avenues for molecular breeding of Eucalyptus.

ICFRE-Rain Forest Research Institute, Jorhat

- Prepared Soil Health Cards for eleven forest divisions of Nagaland.

Consultancies

- New Consultancy Project Awarded on “Third party environmental assessment audit in respect of Manikpur OCM of Karba Area for statutory compliance of its EC Condition”.

Workshops/Seminars/Meetings

Indian Council of Forestry Research and Education

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|----|---|--|
| 1. | Conducted workshop in collaboration with G.B. Pant NIHE, Almora on "Forest Resources & Biodiversity of Himalaya under changing climate" 23 rd May 2025 | 40 participants including Officers, Scientists, Researchers and Official from ICFRE HQ and G.B.Pant NIHE, Almora |
|----|---|--|



Workshop on “Forest Resources & Biodiversity of Himalaya under Changing Climate” by ICFRE, Dehradun

ICFRE- Forest Research Institute, Dehradun

- | | | | |
|----|---|---------------------------|--|
| 2. | Soil test-based nutrient management practices | 07 th May 2025 | 45 Frontline Officers from Uttarakhand Forest Department |
|----|---|---------------------------|--|



Workshop on “Soil test-based nutrient management practices” by ICFRE-FRI, Dehradun

ICFRE- Institute of Forest Biodiversity, Hyderabad

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|----|---|---------------------------|--|
| 3. | Harmony with Nature and Sustainable Development | 22 nd May 2025 | 42 students from ICFAI Law School, Hyderabad |
|----|---|---------------------------|--|



Workshop on “Harmony with Nature and Sustainable Development” by ICFRE-IFB, Hyderabad

ICFRE- Institute of Forest Productivity, Ranchi

4. Identifying and Mapping Intervention Package (IPs) for achieving Land Degradation Neutrality: A Comprehensive Roadmap for Jharkhand 28th to 29th May 2025 45 participants from Shri Krishna Institute of Public Administration, Ranchi



Workshop on “Identifying and Mapping Intervention Package (IPs) for achieving Land Degradation Neutrality: A Comprehensive Roadmap for Jharkhand” by ICFRE-IFP, Ranchi

ICFRE- Institute of Forest Genetics & Tree Breeding, Coimbatore

5. Agroforestry 08th May 2025 102 participants including Farmers and Tree Growers from Nanguneri Block and Kannagudi block, Tamil Nadu



Meeting on “Agroforestry” by ICFRE-IFGTB, Coimbatore

ICFRE- Himalayan Forest Research Institute, Shimla

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|----|--|---------------------------|--|
| 6. | Role of soil seed banks in forest Regeneration and succession in Degraded Himalayan Landscapes | 30 th May 2025 | 25 Scientists, Technical Officers and Researcher from ICFRE-HFRI, Shimla |
|----|--|---------------------------|--|

ICFRE- Tropical Forest Research Institute, Jabalpur

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|----|---|---------------------------|---|
| 7. | Content creation of E-learning models for I-GOT portal under Mission Karmyogi | 21 st May 2025 | 25 participants including Scientists and Technical Officers of ICFRE-TFRI, Jabalpur |
|----|---|---------------------------|---|



Workshop on “Content creation of E-learning models for I-GOT portal under Mission Karmyogi” by ICFRE-TFRI, Jabalpur

Trainings Programme

ICFRE- Himalayan Forest Research Institute, Shimla

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|----|---|---------------------------|-------------------------------------|
| 1. | Poplar plantation and management for sustainable livelihood in Cold deserts | 29 th May 2025 | 30 Farmers from Tabo (Lahaul-Spiti) |
|----|---|---------------------------|-------------------------------------|

ICFRE- Institute of Wood Science and Technology, Bengaluru

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|----|-------------------------------------|---|---|
| 2. | Estimation of fuel wood tree volume | 07 th to 09 th May 2025 | 35 participants including Tobacco and Fuel wood Growers and farmers |
|----|-------------------------------------|---|---|

ICFRE- Tropical Forest Research Institute, Jabalpur

3.	Wild Fruits for Livelihood: Propagation, Conservation & Value Addition	23 rd May 2025	53 frontline staff of Chhattisgarh State Forest Department
4.	Quality plant production of Forestry species and Agroforestry Management	26 th to 30 th May 2025	20 Officers of Maharashtra Forest Department



Training Programme on "Wild Fruits for Livelihood: Propagation, Conservation & Value Addition" by ICFRE-TFRI, Jabalpur



Training Programme on "Quality plant production of Forestry species and Agroforestry Management" by ICFRE-TFRI, Jabalpur

ICFRE- Rain Forest Research Institute, Jorhat

5.	Poultry Litter Composting Techniques	14 th to 17 th May 2025	35 participants including poultry farmers and Officials from Agriculture Department
6.	Preparation of Ecosystem Health Cards	26 th to 28 th May 2025	11 IFS officers from different state forest departments



Training Programme on "Poultry Litter Composting Techniques" by ICFRE-RFRI, Jorhat



Training Programme on "Preparation of Ecosystem Health Cards" by ICFRE-RFRI, Jorhat

7. Agarwood and its role in livelihood generation in Assam

30th May
2025

23 participants including Farmers/ members of Borbheta Eco Development Committees (EDC) of Kaziranga National Park



Training Programme on "Agarwood and its role in livelihood generation in Assam"
by ICFRE-RFRI, Jorhat

Activities under Van Vigyan Kendra

ICFRE-Forest Research Institute, Dehradun

- ICFRE-FRI, Dehradun organized training programme on "Making Handicrafts with Ringal and Bamboo" from 19th to 30th May 2025 at Ummedpur, Dehradun. 35 participants including artisans from Ummedpur, Shyampur and Trainers from Gangotari Kaushal Vikash Ewam Uthan Samiti (NGO), Dehradun participated in the programme.



Training Programme on "Making Handicrafts with Ringal and Bamboo"
by ICFRE-FRI, Dehradun

ICFRE-Himalayan Forest Research Institute, Shimla

- 35 students along with teachers from Government Senior Secondary School, Jagatsukh, Kullu (HP) visited Field Research Station cum Van Vigyan Kendra, Jagatsukh, Kullu (HP) on 22nd May 2025. They were briefed about Biodiversity Conservation and its importance during the visit.



Students from Government Senior Secondary School, Jagatsukh, Kullu visited VVK, Jagatsukh, Kullu (H.P.)

Memorandum of Understanding

- ICFRE-HFRI, Shimla, signed a MoU with G.B. Pant Memorial Government College, Rampur Bushahr, District Shimla, Himachal Pradesh, on 17th May 2025 to promote quality research collaboration and create opportunities for developing highly skilled human resources.



MoU signed between ICFRE-HFRI, Shimla and G.B. Pant Memorial Government College, Rampur Bhushehar, distt. Shimla (H.P.)

- ICFRE-HFRI, Shimla, signed a MoU with Government Arya Degree College, Nurpur, District Kangra, Himachal Pradesh, on 26th May 2025. The MoU aims to promote quality research, develop highly skilled human resources, and facilitate the exchange of scientific knowledge and expertise in the fields of science and technology, environment, climate change, and biotechnology.



MoU signed between ICFRE-HFRI, Shimla and Government Arya Degree College, Nurpur distt. Kangra (H.P.)

- ICFRE-IWST, Bengaluru signed MoU with Sandalwood Society of India, Bengaluru on 08th May 2025 for research, education, extension, capacity building and scientific management of Sandalwood.



MoU signed between ICFRE-IWST, Bengaluru and Sandalwood Society of India, Bengaluru

- ICFRE-IWST, Bengaluru, signed a MoU with Karnataka State Forest Industries Corporation (KSFIC), Bengaluru, on 28th May 2025. The MoU aims to provide consultancy services for preparing a Detailed Project Report to establish a plywood manufacturing unit at KSFIC's Timber Yard Layout unit, ensuring compliance with relevant Indian Standards.



MoU signed between ICFRE-IWST, Bengaluru and M/s Karnataka State Forest Industries Corporation, Bengaluru

Prakriti Programme

ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- 52 students from Delhi public school and Vivekanandha CBSE School, Ramanathapuram, Coimbatore visited Gass Forest Museum of ICFRE-IFGTB, Coimbatore on 02nd & 06th May 2025. They were briefed about various research activities of institute.

ICFRE-Tropical Forest Research Institute, Jabalpur

- 85 students along with teachers from Hitkarini School, Jabalpur visited ICFRE-TFRI, Jabalpur on 06th May 2025. They were briefed about various research and developmental activities of the institute.



Students from Hitkarini School, Jabalpur visited ICFRE-TFRI, Jabalpur

ICFRE-Rain Forest Research Institute, Jorhat

- 56 students along with teachers from Sankardev Vidya Niketan, Hatichung, Nagaon, Assam visited Bamboo Museum & Interpretation Unit, Bamboo Nursery of ICFRE-RFRI, Jorhat on 17th May 2025. Students were made aware about various research activities of institute.



Students from Sankardev Vidya Niketan, Hatichung, Nagaon, Assam visited ICFRE-RFRI, Jorhat

ICFRE-Himalayan Forest Research Institute, Shimla

- ICFRE-HFRI, Shimla organized Environment Awareness Programme on 01st & 09th May 2025 at Jawahar Navodaya Vidyalaya, Lahaul, Spiti and NOPS Public School, Ghumarwin, Bilaspur (HP). 110 students participated in the programme. Lecture on Climate Change and Mitigation through Forestry Interventions and Environmental Pollution and Saving Water & Energy was also delivered to them.



Students from NOPS Public School, Ghumarwin, Bilaspur visited ICFRE-HFRI, Shimla

Awareness and Demonstration Programme

ICFRE-Institute of Wood Science and Technology, Bengaluru

- 240 students along with faculties from First Grade College, Yelahanka, Administrative Management College, Bannerghatta, Vijaya College, R.V Road, K.L.E.Societies S.Nijalingappa College, Rajajinagara, Bengaluru and MES College, Reva University, Maharani Lakshmi Ammani College, Malleshwaram and National College, Basavanagudi, Bengaluru visited Xylarium, Wood Museum, Wood workshop, NMKRV College for Women, Jayanagar, Wood Anatomy Lab, Advanced Woodworking Training Centre & TDC of ICFRE-IWST, Bengaluru on 02nd, 05th, 07th, 08th, 16th, 21st & 29th May 2025.



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

ICFRE-Institute of Forest Genetics & Tree Breeding, Coimbatore

- 252 students along with faculties from Dr N.G. P college of Education, Jeyam health care Institute, Manalurpettai, and Government College of Education for Women, Coimbatore visited ICFRE-IFGTB, Coimbatore on 02nd, 05th, 22nd & 23rd May 2025. Lecture on Evergreen Forest, Benefits of community trees, Renewable Energy, Forest Products and Natural Calamities were also delivered to students during the visit.



Students from Government College of Education for Women, Coimbatore visited ICFRE-IFGTB, Coimbatore

ICFRE-Rain Forest Research Institute, Jorhat

- 99 students along with faculties from Borbheta Eco Development Committee of Kaziranga National Park, Biswanath College of Agriculture, Biswanath Chariali, Assam and DKD College, Dergaon, Golaghat (Assam) visited Insectarium, Bamboo Museum & Interpretation Unit, Bamboo Nursery, Bambusetum, Bamboo Charcoal Unit, Bamboo Preservation Unit and Botanical Garden of ICFRE-RFRI, Jorhat on 08th, 20th & 30th May 2025.



Students from Biswanath College of Agriculture, Biswanath Chariali, Assam visited ICFRE-RFRI, Jorhat

- ICFRE-LEC, Agartala organized training programme on “Vermicomposting Techniques for Livelihood Generation” on 08th May 2025 at Kashimukh, Julaibari, South Tripura. 60 participants including SHGs members, students, teachers and farmers from Kashimukh, Julaibari, South Tripura participated in the programme.

ICFRE-Tropical Forest Research Institute, Jabalpur

- 36 FROs, from Kundal Academy, Administration, Development and Management, Kundal distt. Sangli, Maharashtra visited ICFRE-TFRI, Jabalpur on 06th May 2025. They were briefed about Sandalwood based Agroforestry Models during the visit.



FROs from Kundal Academy, Kundal distt. Sangli, Maharashtra visited ICFRE-TFRI, Jabalpur

ICFRE-Institute of Forest Productivity, Ranchi

- 50 trainee farmers from JHAMFCOFED, Ranchi visited Bambusetum and Aus-upwan of ICFRE-IFP, Ranchi on 22nd May 2025. They were briefed about NTFPs and medicinal plants and their value addition during the visit.



Trainee Farmers from JHAMFCOFED, Ranchi visited ICFRE-IFP, Ranchi

Publication

Research Papers:

- Khanal, S., Kumar, A., Kumar, P., Thakur, P., Chandere, A.M., Verma, R., Tapwal, A., Chauhan, V., Kumar, D. and Kumar, D. (2025). Unraveling bioactive potential and production in *Ganoderma lucidum* through omics and machine learning modelling. *Chinese Herbal Medicines*.
- Saddam, B., Wang, J., & Kumar, P. (2025). A review of the genus *Paranomia* Lee 2014 (Hemiptera: Cicadidae) with the description of one new species from India. *International Journal of Tropical Insect Science*, 1-11.
- Lata, S., Chauhan, V., Barman, T. and Paul, S. 2025. Carrying Capacity of Tree Fodder species in Silvopastoral systems in Himachal Pradesh, North Western Himalaya. *Indian Forester*, 151 (5): 415-422.
- Paul, S., Kanwal, K.S., Kumar, A., Samant, S.S., Bhutt, I.D., Sundriyal, R.C. and Lata, S. 2025. Population status and impact of climate change on the distribution of vulnerable multipurpose plant *Hippophae ramnoides* subsp. *turkestanica* for conservation in Trans-Himalaya, India. *Frontiers in Forests and Global Change*, 8:1551024. doi: 10.3389/ffgc.2025.1551024.
- Begum, A. and Borah, R.K. (2025). *Ophiocordyceps sinensis*: An entomopathogenic Medicinal fungus of the Himalayas, Int. J. Curr. Microbiol.App.Sci., 14(05): 209-215.
- Kumari, T., Seal, S., Nautiyal, R., and Kumar, D. (2025). Do traditional agri-silvicultural systems benefit farmers? A revelation by benefit-to-cost analysis of *Grewia optiva* on pea fields of Chakrata tehsil of Uttarakhand, India. *Agroforestry Systems*, 99(5), 1-10.

Book chapters:

- Tiwari, B., Taruna, & Sharma, H. (2025). Genomic Improvement and Conservation of Tropical and Subtropical Pines. In *Genomics Based Approaches for Tropical Tree Improvement and Conservation* (pp. 191-207). Singapore: Springer Nature Singapore.

Rajbhasha Activity

- Kumari, T., Seal, S., Shahina, N. N., and Shukla, G. (2025). Degradation of Forests in India: Causes and Restoration Efforts. In Forest Degradation and Management: An Indian Perspective (pp. 23-39). Cham: Springer Nature Switzerland. DOI https://doi.org/10.1007/978-3-031-84055-5_2
- Guru, N., Kumar, P., Devi, S. and Kumari, R. (2025). Assessing Soil Erosion-Susceptible Region of Forested Watershed Using Multi-Criteria Decision Analysis (MCDA). In: Integrated Land and Water Resource Management for Sustainable Agriculture Volume 1. Smart Agriculture, vol 4. Springer, Singapore. https://doi.org/10.1007/978-981-97-9796-7_9
- Patel A, Modak K, Guru N, Mishra G, and Kothari S, (2025). "Tools and Techniques Used in Forest Monitoring". In: Forests for Inclusive and Sustainable Economic Growth. Elsevier, USA. Elsevier, Pages 131-142, ISBN 9780443314063. <https://doi.org/10.1016/B978-0-443-31406-300010-2>

Popular Article:

- Guru, N. (2025). "Community-Based Climate Change Adaptation and Mitigation Strategies in North East India: An Integrated Approach" in the Magazine published on Climate Change and Our Responsibilities.

Abstract:

- Guru, N., Das, M. and Das, D. J., (2025). Time Series Analysis of Rainfall and Temperature of Dihing Ungauged Watershed, Assam: a Case Study 3rd International Conference on Biodiversity: Exploration, Exploitation and Conservation for Sustainable Development 6-7th March, 2025.

- ICFRE (HQ), Dehradun organized Hindi workshop on "Proper entry in the revised Quarterly Hindi Report" on 16th May 2025. 28 participants including officers and staff from ICFRE(HQ) participated in the workshop. They were briefed about calculation of notes and correspondence data in e-office.



Hindi Workshop on "Proper Entry in the revised Quarterly Hindi Report" by ICFRE HQ

- ICFRE-RFRI, Jorhat organized hindi workshop on "Better Implementation of Official Language" on 20th May 2025. 25 participants including officers, Scientists, Researchers and official of institute participated in the workshop.



Workshop on "Better Implementation of Official Language" by ICFRE-RFRI, Jorhat

- ICFRE-RFRI, Jorhat organized Hindi Quarterly Meeting on 23rd May 2025. 30 participants from ICFRE-RFRI, Jorhat participated in the meeting.

Miscellaneous

- ICFRE-IFGTB, Coimbatore celebrated International Museum Day on 15th May 2025. 100 participants including students and members of public participated in the programme.



ICFRE-IFGTB, Coimbatore Celebrated International Museum Day

HR NEWS

RETIREMENT

Name of Officer	Date
Shri Nav Bahar, Scientist-E, ICFRE-FRI, Dehradun	31.05.2025
Dr. Pramod Kumar, Scientist-D, ICFRE-TFRI, Jabalpur	31.05.2025
Shri Saraj Lal Meena, CTO, ICFRE-AFRI, Jodhpur	31.05.2025
Shri Satish Kumar, STO, ICFRE-TFRI, Jabalpur	31.05.2025

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