



Indian Council of
Forestry Research
Education

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

Newsletter

August 2025

Vol. 25 No. 8

79th Independence Day 2025

- ICFRE (HQ), its institutes, and centers celebrated 79th Independence Day 2025 on 15th August 2025.



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Significant Research Finding

ICFRE- Forest Research Institute, Dehradun

- Rhizomes of *Trillium govanianum* from six distinct locations—Chansal (H.P.), Chhajpur (H.P.), Har ki Doon, Tungnath, Khaliya (Munsiyari), and Darma Valley—were morphologically examined by measuring size, scar count, internodal spacing, texture, and bud system to assess morphological variation. Mature rhizome lengths ranged from 2.5 cm to 5.0 cm, with average girths between 0.7 cm and 3.2 cm. Rhizome samples from Chhajpur (2,086 m) were the largest (length 4.5–5.0 cm, girth 2.5–3.2 cm), with 18–21 scars, thick tapering ends, internodes of about 0.5 cm, more than two adventitious buds, and thick scale leaves. Samples from Darma Valley (3,470 m) exhibited the smallest rhizomes (2.5–3.0 cm length, 0.7–1.0 cm girth), with highly wrinkled surfaces, internodes less than 0.1 cm, and mostly apical buds. Phytochemicals extracted yield from rhizomes collected from all six locations range from 15% and 20% (w/w).
- The anti-inflammatory potential of *Skimmia*

laureola leaf essential oil was evaluated using the egg albumin denaturation assay. The results demonstrated that the essential oil exhibited moderate anti-inflammatory activity when compared with the reference standard, diclofenac sodium. The IC_{50} value of the essential oil was recorded as $6770 \pm 8.16 \mu\text{g/mL}$, whereas diclofenac sodium showed an IC_{50} of $340 \pm 4.08 \mu\text{g/mL}$.

- Fatty oil was extracted and isolated from the seeds of *Corylus jacquemontii* Decne. (Hazelnut), collected from Chaloli, Chamba and Kalagorcha, Kullu, Himachal Pradesh, using the Soxhlet extraction method. The oil yields were $64.33 \pm 0.47\%$ (w/w) for the Chaloli sample and $80.66 \pm 0.47\%$ (w/w) for the Kalagorcha sample. Subsequently, fatty acid methyl esters (FAMES) were prepared and analyzed using GC-MS, four compounds were identified: palmitic acid methyl ester (7.66% & 8.31%), stearic acid methyl ester (3.53% & 2.92%), oleic acid methyl ester (71.70% & 66.21%), and linoleic acid methyl ester (17.12% & 22.56%) from chalali and Kalagorcha populations.

Consultancies

ICFRE- Institute of Wood Science & Technology, Bengaluru

- For Ground Level Assessment on QCO implementation & Standard Amendment Sponsored organized by Gujarat Plywood & Veneers Manufacturers Association.
- Demonstrated resin preparation and pre-press bonding to M/s C. P. Veneer, Agartala, Tripura.

Workshops / Seminars / Meetings

Indian Council of Forestry Research and Education

| | | | |
|----|----------------------------------|---|---|
| 01 | Workshop on “National Karmayogi” | 25 th to 29 th August 2025 | 105 participants including Scientists, Researchers and Officers of ICFRE (HQ) |
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Workshop on “National Karmayogi” at ICFRE (HQ)

ICFRE- Forest Research Institute, Dehradun

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| 02 | Workshop on “AICRP and FGR” | 05 th to 06 th August 2025 | 115 participants including Scientists, Technical staff from ICFRE institutes, Stakeholders from State Forest Departments & Various organization |
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Workshop on “AICRP & FGR” at ICFRE- FRI, Dehradun

ICFRE- Arid Forest Research Institute, Jodhpur

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|----|--|--|---|
| 03 | Integrated Approach for Sustainable Development of Fragile Desert Ecosystems | 06 th to 08 th August 2025 | 25 IFS officers from different state forest departments |
| 04 | Dissemination of Integrated Research Results | 22 nd August 2025 | 55 participants including Scientists, Researchers and Officers of ICFRE-AFRI, Jodhpur |



Workshop on “Integrated Approach for Sustainable Development of Fragile Desert Ecosystems” at ICFRE- AFRI, Jodhpur



Workshop on “Dissemination of Integrated Research Results” at ICFRE- AFRI, Jodhpur

ICFRE- Institute of Forest Productivity, Ranchi

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|----|--|------------------------------|--|
| 05 | Eco-Rehabilitation of Degraded Coal Mines under Different Agro-Climatic Zones | 05 th August 2025 | 20 officials from Coal India Limited subsidiaries, including CCL, ECL, and MCL |
| 06 | Regional Research Conference on “Forestry Interventions for Inclusive and Sustainable Economic Growth” | 29 th August 2025 | 90 participants including Scientists, Researchers and Officers of ICFRE-IFP, Ranchi & ICFRE-IFB, Hyderabad |



Workshop on “Eco-Rehabilitation of Degraded Coal Mines under Different Agro-Climatic Zones” at ICFRE- IFP, Ranchi



RRC on “Forestry Interventions for Inclusive and Sustainable Economic Growth” at ICFRE- IFP, Ranchi

ICFRE- Institute of Wood Science & Technology, Bengaluru

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| 07 | National Workshop on “Innovations, Stakeholder Engagement and Dissemination of Outcomes under AICRP 5, 6 and 28” | 08 th August 2025 | 63 participants including Stakeholders, Wood Industries & Researchers |
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ICFRE- Rain Forest Research Institute, Bengaluru

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| 08 | Dissemination of Integrated Research Outcomes of AICRP on Bamboo | 25 th August 2025 | 100 participants including Scientists of ICFRE Institutes, Senior Forest Officers of State Forest Departments of North East India, Farmers, Private Enterprises, NGOs, and Industry partners |
| 09 | Rashtriya Karmayogi Large Scale Jan Seva Programme -Phase 2' | 27 th to 30 th August 2025 | 140 officials staff from ICFRE-RFRI, Jorhat |



Workshop on “Dissemination of Integrated Research Outcomes of AICRP on Bamboo” at ICFRE- RFRI, Jorhat



Workshop on “Rashtriya Karmayogi Large Scale Jan Seva Programme -Phase 2” at ICFRE- RFRI, Jorhat

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| 10 | Consultation Meeting on Forest Soil Health Card (FSHC) of Sikkim' | 28 th August 2025 | 30 participants from Sikkim Forest Department |
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ICFRE- Himalayan Forest Research Institute, Shimla

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| 11 | Rastriya Karmayogi Large Scale Jan Seva Programme | 21 st , 22 nd & 26 th August 2025 | 72 participants including Scientists, Researchers and Officers of ICFRE-HFRI, Shimla and Botanical Survey of India, Solan |
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ICFRE- Institute of Forest Genetics and Tree Breeding, Coimbatore

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| 12 | Regional Research Conference on “Tree Improvement: Realizing Enhanced Sustenance 2025” | 22 nd August 2025 | 30 participants including Scientists, Researchers of ICFRE-IFGTB, Coimbatore and officers from Forest Department |
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ICFRE- Institute of Forest Biodiversity, Hyderabad

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| 13 | Conservation and productivity improvement of <i>Pterocarpus santalinus</i> under AICRP-8 | 11 th August 2025 | 25 participants including Scientists, Researchers and Officers of ICFRE-IFB, Hyderabad |
| 14 | Rashtriya Karmyogi Large Scale Jan Seva Program | 25 th to 26 th August 2025 | 60 participants including Scientists, Researchers and Officers of ICFRE-IFB, Hyderabad |



Workshop on “Conservation and productivity improvement of *Pterocarpus santalinus* under AICRP-8” at ICFRE- IFB, Hyderabad



Workshop on “Rashtriya Karmayogi Large Scale Jan Seva Programme” at ICFRE- IFB, Hyderabad

ICFRE- Tropical Forest Research Institute, Jabalpur

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| 15 | National Workshop for sharing the significant Achievements, Findings and Deliverables of six AIRCPs to the stakeholders | 31 st July to 01 st August 2025 | 80 participants including Farmers, Researchers, Scientists, Women SHGs, Small-Scale Entrepreneurs and other Stakeholders |
| 16 | Regional Research Conference on “Ensuring Quality Planting Material (QPM) for Sustainable Forestry Standards, Sources & Practices.” | 20 th August 2025 | 30 participants including Researchers, Scientists, Stakeholders and Farmers |



Workshop on “National Workshop for sharing the significant Achievements, Findings and Deliverables of six AIRCPs to the stakeholders” at ICFRE- TFRI, Jabalpur



Regional Research Conference on “Ensuring Quality Planting Material for Sustainable Forestry Standards, Sources & Practices.” at ICFRE- TFRI, Jabalpur

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| 17 | Rashtriya Karmyogi Jan Seva Prashikshan Karyakram" under mission Karmayogi. | 25 th to 29 th August 2025 | 141 participants including Scientists, Researchers and Officers of ICFRE-TFRI, Jabalpur |
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Trainings Programmes

ICFRE- Forest Research Institute, Dehradun

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| 01 | Wood Coatings | 25 th to 29 th August 2025 | 19 participants from Diverse Academic and Wood industrial backgrounds |
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Training Programme on "Wood Working and Finishing Discipline" by ICFRE- FRI, Dehradun

ICFRE- Arid Forest Research Institute, Jodhpur

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| 02 | Value addition of <i>Momordica dioaca</i> | 03 rd to 07 th August 2025 | 50 Tribals from Rajeevika, Pindwara, Rajasthan |
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ICFRE- Himalayan Forest Research Institute, Shimla

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| 03 | Nursery techniques, cultivation and conservation of medicinal plants | 29 th August 2025 | 50 participants from Dodra, Rohru (H.P.) |
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Training Programme on "Nursery Techniques, Cultivation and Conservation of Medicinal Plants" by ICFRE- HFRI, Shimla

ICFRE- Institute of Wood Science and Technology, Bengaluru

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| 04 | Value Addition to Bamboo and NTFPs under AICRP | 13 th August 2025 | 80 Tribals from Shettihalli & Hebbal, Hunsur Taluk |
| 05 | Determination of formaldehyde content and emission | 20 th to 22 nd August 2025 | 04 participants from Wood Based Industries, Bengaluru |

ICFRE- Rain Forest Research Institute, Jorhat

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| 06 | Capacity Building Program on Forest Seed Technology and Nursery Management | 07 th August 2025 | 16 Frontline Forest Staff from Mokokchung Forest Division, Nagaland |
|----|--|------------------------------|---|

Activities Under Krishi Vigyan Kendra

ICFRE- Arid Forest Research Institute, Jodhpur

- ICFRE-AFRI, Jodhpur organized training programme on “Suitable Agroforestry Models for Livelihood Support in the Indira Gandhi Canal Area of Western Rajasthan” from 28th to 30th August 2025 at Krishi Vigyan Kendra, Jaisalmer, Rajasthan. Around 50 participants including Officers from Rajasthan Forest Department and Farmers from Jaisalmer participated in the programme.



Training Programme on “Suitable Agroforestry Models for Livelihood Support in the Indira Gandhi Canal Area of Western Rajasthan” at ICFRE- AFRI, Jodhpur

ICFRE- Institute of Forest Genetics & Tree Breeding, Coimbatore

- ICFRE-IFGTB, Coimbatore and ICAR-KVK, Tenkasi, Coimbatore jointly organized training programme on “Tree Cultivation Techniques” on 29th August 2025 at KVK, Tenkasi, Coimbatore. 104 Farmers from Tenkasi, Coimbatore participated in the programme. They were briefed about “Pest and disease management in tree cultivation and Cultivation of Windbreak Casuarina” during the programme.



ICFRE-IFGTB, Coimbatore and ICAR-KVK, Tenkasi jointly organized training programme on “Tree Cultivation Techniques” at KVK, Tenkasi, Coimbatore

Awareness and Demonstration Programme

ICFRE- Forest Research Institute, Dehradun

- 16 trainees from INTACH, Dehradun visited Photo Gallery, TDC and Museums of ICFRE-FRI, Dehradun on 25th August 2025. They were briefed about institute history and contribution to forestry during the visit.

ICFRE- Himalayan Forest Research Institute, Shimla

- Organized awareness programme on “Earthworm Composting Method” for 30 participants from Chamba on 24th August 2025 at Gajnoi, Chamba (H.P.).



Awareness programme on “Earthworm Composting Method” by ICFRE-HFRI, Shimla at Gajnoi, Chamba (H.P.)

- Organized awareness programme on “Plant Diversity and Bio-Fertilizers” on 28th August 2025 at Government PG College, Rohru, Shimla. 80 students participated in the programme.



Awareness programme on “Plant Diversity and Bio-Fertilizers” by ICFRE-HFRI, Shimla at Govt. PG College, Rohru, Shimla

ICFRE- Institute of Forest Biodiversity, Hyderabad

- 56 students along with faculty from Hidayah Degree College, Hyderabad visited ICFRE-IFB, Hyderabad on 07th August 2025. They were briefed about various research activities of the institute during the visit.

ICFRE- Rain Forest Research Institute, Jorhat

- ICFRE-BRC, Aizawl organized training programme on “Important Insect, Pests of Forest, Methods of Insect collection, pinning

and preservation” on 29th August 2025 at Forest Training School, EF&CC Department, Govt. of Mizoram. 15 Forester trainees participated in the programme.



Training Programme on “Important Insect, Pests of Forest, Methods of Insects collection, pinning and preservation” by ICFRE-BRC, Aizawl

ICFRE- Institute of Forest Genetics & Tree Breeding, Coimbatore

- 130 students along with faculties from Mepco Schlenk Engineering College, Sivakasi, RVS College of Arts and Sciences, Coimbatore and Hindusthan College of Arts and Sciences, Coimbatore visited Vegetative Multiplication Garden and labs of ICFRE-IFGTB, Coimbatore on 19th, 20th & 25th August 2025. They were briefed about various research activities of the institute during the visit.



Students from Mepco Schlenk Engineering College, Sivakasi visited ICFRE-IFGTB, Coimbatore

ICFRE- Institute of Wood Science and Technology, Bengaluru

- ICFRE-IWST, Bengaluru and Karnataka State Council for Science and Technology, Bengaluru jointly organized training programme on “Bamboo Handicraft and Preventive Technique” from 20th to 22nd August 2025. 30 participants from Tribals communities of Kodagu dist. Karnataka participated in the programme.

Development Technologies

ICFRE- Institute of Wood Science and Technology, Bengaluru

- Developed Ceramic Fibre-reinforced Fire-Retardant Door (FRD) shutter for 60 minutes.
- Developed amalgamated ligocellulosic fibre composite.

Participation in Exhibition

- ICFRE-IWST, Bengaluru participated and showcased its technologies on wood, composites, bamboo and bamboo-based housing at the “MATECIA Technology Conclave” exhibition from 21st to 24th August 2025 at Yashobhoomi, Dwarka, New Delhi.



ICFRE-IWST, Bengaluru participated in “MATECIA Technology Conclave” at Yashobhoomi, Dwarka, New Delhi

Mission LiFE

ICFRE- Himalayan Forest Research Institute, Shimla

- Organized awareness and demonstration programme on “Growing of Forestry Species in Nursery” on 06th August 2025 at GSSS, Beolia, Shimla. 40 students participated in the programme.



Awareness and Demonstration programme on “Growing of Forestry Species in Nursery” by ICFRE-HFRI, Shimla

ICFRE- Forest Research Institute, Dehradun

- Organized awareness programme on “The risks and preventive measures of water-borne diseases, particularly during the monsoon season” on 18th August 2025 at ICFRE-FRI, campus. 15 participants including MSC students & Phd. Scholars participated in the programme.

ICFRE- Institute of Forest Biodiversity, Hyderabad

- Organized awareness programmes on “Healthy Lifestyle and Waste Reduced” on 06th, 07th & 21st August 2025 at North City High School, Sururam and Hidayah Degree College, Hyderabad. 160 students participated in the programme.
- ICFRE-CEC, Viskhapatnam organized awareness programme on “Energy Saved, Waste Reduced, Healthy lifestyle and Water Saved” from 12th to 13th August 2025 at Chinna Waltair, GHCCD, YMCA and Siripuram, Visakhapatnam.



Awareness programme on “Energy Saved, Waste Reduced, Healthy lifestyle and Water Saved” by ICFRE-CEC-Viskhapatnam

Prakriti Programme

ICFRE- Forest Research Institute, Dehradun

- Organized a Demonstration programme on “Soil Science” on 19th August 2025. 40 students from Kendriya Vidyalaya, ONGC, Dehradun participated in the programme. Lecture on “Soil Physical, Chemical and Biological Properties” was also delivered during the programme.



Demonstration programme on “Soil Science” by ICFRE-FRI, Dehradun

ICFRE- Himalayan Forest Research Institute, Shimla

- Organized an awareness lecture on “Eco-friendly management of phytopathogens, Plant diversity, clean environment” for 35 students of GSSS Dodra, Shimla 29th August 2025.



Awareness programme on “Eco-friendly management of phytopathogens, Plant diversity, clean environment by ICFRE-HFRI, Shimla at GSSS, Dodra, Shimla

ICFRE- Arid Forest Research Institute, Jodhpur

- Organized an awareness programme on “Shiksha ka Sathi” on 26th & 27th August 2025 at Government Higher Secondary School, Basin Station, Jodhpur and Government Higher Secondary School (Girls), Jalori Gate, Jodhpur. 970 students participated in the programme. Lecture on “AFRIs Conservation Efforts and Demonstrated Plantation Techniques” was also delivered during the programme.



Awareness programme on “Shiksha Ka Sathi by ICFRE-AFRI, Jodhpur at Government Higher Secondary School, Jodhpur

ICFRE- Institute of Forest Biodiversity, Hyderabad

- ICFRE-CEC, Vishakhapatnam organized an awareness programme on “Concepts of Biodiversity and Ecological role of Mangroves” on 21st & 29th August 2025 at Kendriya Vidyalaya, Vizianagaram and Jawahar Navodaya Vidyalaya, Srikakulam. 270 students participated in the programme.



Awareness programme on “Concepts of Biodiversity and Ecological role of Mangroves by ICFRE-IFB, Hyderabad at Kendriya Vidyalaya, Vizianagaram

ICFRE- Rain Forest Research Institute, Jorhat

- 118 students along with teachers from Kendriya Vidyalaya, ONGC, Nazira, Sivasagar, Assam and Teok Girls Higher Secondary School, Jorhat visited Institutes, Gustav Mann Herbarium, Bamboo Museum & Interpretation Unit, Botanical Garden, orchidarium, Medicinal plants garden, Bambusetum, Tissue Culture Laboratory, Mushroom Cultivation of ICFRE-RFRI, Jorhat on 05th August 2025. They were briefed about various research activities of the institute during the visit.
- ICFRE-LEC, Agartala organized “Scientists-Students Connect Programme” on 27th August 2025 at Jawahar Navodaya Vidyalaya, Sepahijala, Tripura. 200 students participated in the programme. Students sensitized about the role of plants in the ecosystem and mitigating climate change during the visit.



ICFRE-LEC, Agartala organized "Scientists-Students Connect Programme" at Jawahar Navodaya Vidyalaya, Sepahijala, Tripura



MoU signed between ICFRE-IFB, Hyderabad and Farmers from Gangulur Village, Sangareddy, Telangana

ICFRE- Institute of Forest Genetics & Tree Breeding, Coimbatore

- 1203 students along with teachers from Vidhya Vikasini Matriculation Higher Secondary School, Government High School, Kuniyammuthur, Chaitanya Techno School, Coimbatore and Nirmala Maatha Convent, Kuniyammuthur visited ICFRE-IFGTB, Coimbatore on 07th, 11th, 25th & 28th August 2025. Lecture on "Importance of Forest, Importance of Forest and Tissue Culture, Communal benefits of Trees and Importance of Wildlife" was also delivered during the visit.



MoU signed between ICFRE-IFGTB, Coimbatore and Sri Ramakrishna College Arts and Science, Coimbatore

Memorandum of Understanding

- ICFRE-IFB, Hyderabad signed an MoU with Farmers from Gangulur village, Sangareddy, Telangana on 14th August 2025 for Establishment of Demo Village at Gangulur village, Sangareddy, Telangana.
- ICFRE-IFGTB, Coimbatore signed an MoU with Sri Ramakrishna College of Arts and Science, Coimbatore on 01st August 2025 for Promoting Collaborative Forestry Research and Academic Exchange.

Visit of Dignitaries to Institutes

- Ms. Chinmayi Gopal, Commissioner Agriculture & Horticulture Department, Govt. of Rajasthan and Shri G.R. Matoria, Additional Director, Agriculture Division, Jodhpur visited ICFRE-AFRI, Jodhpur on 27th August 2025. They also reviewed Research and Development activities of the institute.



Ms. Chinmayi Gopal, Commissioner, Agriculture & Horticulture Department, Government of Rajasthan, and Mr. G. R. Matoria, Additional Director, Agriculture Division, Jodhpur, visited the ICFRE-AFRI, Jodhpur

- Shri Narendra Kumar Shah, Chief of Assam State Bamboo Mission visited Tissue Culture Lab and Molecular Biology Lab, Bambusetum, bamboo museum and bamboo nursery of ICFRE-RFRI, Jorhat on 25th August 2025.

Rajbhasha Activity

- ICFRE (HQ), organized a workshop on “Unicode Hindi Typing in E-Office” on 14th August 2025 at Computer Lab of ICFRE-FRI, Dehradun. 15 participants including Officers, Technical staff and project staff participated in the workshop.



Workshop on “Unicode Hindi Typing in E-Office” by ICFRE(HQ)

- ICFRE-AFRI, Jodhpur was awarded 2nd prize for outstanding Implementation of the official language during the Twelfth Biannual Meeting of the Town Official Language Implementation Committee (TOLIC-2), Jodhpur on 20th August 2025 at Central Arid Zone Research Institute, Jodhpur.



ICFRE-AFRI, Jodhpur was awarded 2 prize for excellent performance in Hindi Rajbhasha

- ICFRE-RFRI, Jorhat organized “Hindi typing training workshop” on 04th August 2025. 20 participants from ICFRE-RFRI, Jorhat attended the workshop.

Radio / TV Talk

- A radio report on the inaugural session of the three-day residential training programme on “Junior Rangers: Connecting Students with Nature,” organized by ICFRE-RFRI, Jorhat, was broadcast by All India Radio, Jorhat, on 21st August 2025.
- Radio Talk on “Kathfula Kheti Ek Labhjanak Jibika” on 20th August 2025 at All India Radio Jorhat was delivered by ICFRE-RFRI, Jorhat.
- Radio Talk on topic “Mejangkori gosar kheti aru boigyanik utapadokor joriyote arthonoitik unnoyonor sambhawoniyota” on 26th August 2025 at All India radio, Jorhat delivered by ICFRE-RFRI, Jorhat.

Miscellaneous

- ICFRE (HQ), along with its institutes and centers, celebrated the Har Ghar Tiranga Campaign 2025 on 14th August 2025.



ICFRE-RFRI



ICFRE-HFRI



ICFRE-IFP



ICFRE-AFRI

HR NEWS

RETIREMENT

Name of Officer

Date

Shri N.D. Khobragade,
Scientist-E, TFRI, Jabalpur

31.08.2025

Appointments of Deputation

Name of Officer

Date

Shri. Vinay Kumar,
IFS, DDG(Administration) ICFRE

20.08.2025

Dr. Sudhir Kumar,
DDG(Extension) ICFRE

21.08.2025

Dr. Shakti Singh Chauhan,
Scientist-G, Director,
IWST, Bengaluru

25.08.2025

Repatriation

Name of Officer

Date

Shri. R. Anand IFS, (HR:2011)
Registrar, FRI, Dehradun

26.08.2025

Research Papers

- Bhoi, T. K., Mahanta, D. K., Sen, M., & Midde, S. M. (2025). Biochemical influence of host plants on the biology of babul whitefly *Acaudaleyrodes rachipora*. *Journal of Environmental Biology*, 47. Paul, S., Kanwal, K.S., Kumar, A., Samant, S.S., Bhatt, I.D., Sundriyal, R.C. and Lata, S., (2025).
- Khan, A., Sharma, Y., Sharma, P.K., Ranga, A.D., Bhatia, A., Dogra, D. and Gupta.A. (2025). Improved performance of *Andrographispaniculate* in lichi-based agroforestry systems. *Agroforestry system*, 99:189.
- Chauhan, A. and Jishtu, V. (2025). Ethno-ceremonial flora from the eclipsed villages of Kasha and Pat, Shimla district, Himachal Pradesh, India. *Journal of Traditional and Folk Practices*, 12(2).
- Devi, J., Mishra, G.P., Sagar, V., Singh, V., Dubey, R.K., Karkute, S.G., Gupta, N., Rai, N., Tripathi, K., Shivaprasad, K.M. and Aski, M.S., (2025). Unlocking the Multiflowering Trait in Pea, Lentil, and Chickpea: Genetic Insights and Breeding Advancements. *Legume Science*, 7(3), p.70043.
- Bhoi, T. K., Mahanta, D. K., Samal, I., Dash, S., Singh, S., & Komal, J. (2025). Effect of endophytic entomopathogenic fungi (EPPF) in biological control of *Odontotermes obesus* (Rambur 1842) and their synergistic impact on plant physiological responses. *The Microbe*, 100411. <https://doi.org/10.1016/j.microb.2025.100411>
- Bhoi, T. K., Mahanta, D. K., Samal, I., Raj, M. N., & Komal, J. (2025). Evaluating the virulence and endophytic colonization of *Metarhizium anisopliae* and *Beauveria bassiana* in *Dalbergia sissoo* seedlings for the biological control of subterranean termites. *Journal of Environmental Biology*, 46(4). <http://doi.org/10.22438/jeb/46/4/MRN-5516>
- Verma P. K, Singh N, Negi R, Chandra A,
- Kishwan S. (2025). Forest Flora of Haryana: An Annotated Checklist. *PhytoTalks.* ; 2(2): 345-44.
- Gusain, M., Rathore, M., and Namitha N.K (2025). Improving Seed Germination and Seedling Performance of *Osyris lanceolata* through Fruit Maturity Indices, Seed Pretreatments, and Substrate Optimization, *Annual Research and Review in Biology*, 40(9).
- Thakur, N, Tripathi Y. C., and Varshney V. K. (2025). Aroma profiling and analysis of odor-active components in *Neolitsea pallens* leaf essential oil using Gas Chromatography-Olfactometry (GC-O) and Aroma Extract Dilution Analysis (AEDA). *Journal of Essential Oil Research*, 1–11. <https://doi.org/10.1080/10412905.2025.2537235>
- Chauhan, K, Bhalla, P, Varshney, V.K. (2025). Natural variability in seed oil composition of *Prinsepia utilis* grown across northern India. *Journal of the American Oil Chemists' Society*, 1–8. <https://doi.org/10.1002/aocs.70018>.
- Mahanta, D. K., Komal, J., Bhoi, T. K., Samal, I., Dash, S., & Jangra, S. (2025). RNA interference (RNAi) for insect pest management: understanding mechanisms, strategies, challenges and future prospects. *Biologia Futura*, 1-13.

Book Chapter

- Mahanta, D. K., Samal, I., Bhoi, T. K., & Komal, J. (2025). The Emerging Role of Melatonin in Insect Behavior, Parasitology, and Plant-Insect Interactions: Ecological Implications and Applications. *Melatonin: Signal Transduction Mechanisms and Defense Networks in Plants*, 271.

Booklet

- 'Hazards & horizons the changing ecological niche of *Dalbergia sissoo*: A spatial approach to planning conservation strategies and emerging climate change threats”.
- Mahua tree improvement.
- Eco-restoration of iron mine.

Patron:

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

Editorial Board:

Dr. Sudhir Kumar, DDG(Extn.), Chairman

Dr. Geeta Joshi, ADG (M&Extn.), Honorary Editor

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Assistance:

Mr. Prince, Technical Assistant, (M&Extn.)

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