



**Indian Council of  
Forestry Research  
Education**

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the MoEF&CC, Government  
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# NEWSLETTER

July 2025

Vol. 25 No. 07



## Review of Research and Development Activities of ICFRE-IWST, Bengaluru by Director General, ICFRE

- Smt. Kanchan Devi, IFS, Director General, ICFRE, visited ICFRE-IWST, Bengaluru from 4<sup>th</sup> to 7<sup>th</sup> July 2025 and reviewed the Research and Development activities of the institute during her visit, also visited Technology Demonstration Center, IWST Peenya Campus, as well as the Gottipura and Nallal field stations of ICFRE-IWST, Bengaluru.



## Review of Research and Development Activities of ICFRE-IWST, Bengaluru by Director General, ICFRE

### Van Mahotsav

- Van Mahotsav was celebrated from 1 to 7 July 2024 by ICFRE institutes and centres.



Contents	Pg. No.
Review by Director General, ICFRE	01
Van Mahotsav	01
Significant Research Finding	02
Consultancies	03
Workshops/Seminars/Meetings	04
Training Programmes	07
Activities Under Van Vigyan Kendra	09
Awareness and Demonstration Programme	10
Participation in Exhibition	12
Mission LiFE	13
Prakriti Programme	13
Memorandum of Understanding	15
Rajbhasha Activities	15
Radio/TV Talks	16
Miscellaneous	16
HR NEWS	16
Publication	17

## Significant Research Finding

### ICFRE- Forest Research Institute, Dehradun

- The anxiolytic potential of the leaves derived essential oil of *H. suaveolens* was assessed using the elevated plus maze (EPM) test. Mice treated with the oil showed increased time spent in the open arms and decreased anxiety index values in a dose-dependent manner. At 200 mg/kg, the time spent in the open arms reached  $134.00 \pm 52.18$  seconds, with an anxiety index of  $0.548 \pm 0.106$ , compared to the control group's  $52.00 \pm 20.88$  seconds and index of  $0.775 \pm 0.056$ . These results suggest a significant anxiolytic effect, with the higher dose approaching the efficacy of the standard anxiolytic drug diazepam. In the open field test, the Hi square olense influenced exploratory behavior, with animals spending more time in the center of the arena and exhibiting increased rearing at higher doses. At 200 mg/kg, animals spent  $22.83 \pm 6.09$  seconds in the center, compared to  $13.00 \pm 2.16$  seconds in the control group, and showed  $10.33 \pm 4.97$  rearings versus  $3.50 \pm 1.64$  in controls. This behavior reflects a reduction in anxiety-like symptoms and an enhancement of exploratory activity.
- T. govanianum* plant samples were collected from Pithoragarh (400) and Rudraprayag (200) districts. The collected samples were transplanted at the Chakarata Field Nursery, Dehradun. Morphological characterization and segregation of *T. govanianum* rhizomes collected from various locations revealed variability in rhizome scar numbers, ranging from  $\leq 10$  (juvenile rhizomes) to approximately 25 (mature rhizomes). Distinct adventitious buds, apart from the apical regions, were observed in rhizomes

from two specific locations—Khaliya (Munsiyari, Uttarakhand) and Chhajpur (Himachal Pradesh). Estimation of saponin content was conducted using a UV-VIS spectrophotometric method based on diosgenin as a standard. The absorbance was recorded at  $\lambda$  430 nm ( $R^2 = 0.94$ ).

### ICFRE- Institute of Forest Productivity, Ranchi

- Clone no. CH-5 of *Casuarina* exhibited maximum survival of 86.11%, height 33 feet and GBH 19.32 cm followed by clone CJ-9 that recorded survival of 84.02 %, height 38.52 feet and GBH of 17.49 cm after 36 months of plantation in the Clonal Trial of *Casurina* established in ICFRE-IFPs satellite centre Forest Tree Breeding Research Station, Chandwa, Latehar, Jharkhand.

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

- A demo plot of the different bamboo species raised through tissue culture was established and maintained in IWST-Field research station at Nallal, Hosakote.
- A demo plot of tissue culture raised sandalwood was established and maintained at GKVK campus, UAS, Bengaluru.
- The wood preservative formulation with a concentration of 7,6 and 5% (w/v) using copper sulphate, borax, amine oxide (dodecyl dimethyl amine oxide), and propiconazole in the ratio 10:5:4:1 was prepared and impregnated into the 2 cm<sup>3</sup> rubber wood specimens and calculated the



retention of wood preservatives. The calculated retentions were 3.11, 3.63 and 5.3 kg/m<sup>3</sup> respectively. All the impregnated wood samples were submitted to the fungi test. After two weeks of the test, the fungi attacked the control and did not attack the treated samples.

### ICFRE- Rain Forest Research Institute, Jorhat

- Enumerated and collected data at Langol Reserve Forest (RF), Imphal and recorded 63 tree, 57 shrub and 34 herb species. Total above ground biomass carbon of trees was estimated and found to be 14.93 to 98.25 Mg/ha in the RF.
- Released the Forest Soil Health Cards (FSHC) for 13 forest divisions of Mizoram in a programme held at ICFRE-Bamboo and Rattan Centre (ICFRE-BRC), Aizawl, on 22nd July 2025.

- A team from ICFRE-RFRI visited Goalpara Forest Division, Assam to inspect the problem of large-scale defoliation in Sal trees. A detailed report on necessary management measures to prevent the further reoccurrence of the insect problem in Sal trees was submitted to the Assam Forest Department by ICFRE-RFRI.

### Consultancies

### ICFRE- Rain Forest Research Institute, Jorhat

- Submitted a comprehensive report titled “Habitat Restoration and Experimental Introduction of Palatable Bamboo as Understory in Teak-Dominated Forests of Kukurkata Reserve Forest, Kaziranga National Park” to the Assam State Forest Department.

### Workshops/Seminars/Meetings

### Indian Council of Forestry Research and Education

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|----|---|--|--|
| 1. | Designing the impact pathway for forest landscape restoration | 14 <sup>th</sup> to 15 <sup>th</sup> July 2025 | 45 participants from ICFRE, ICIMOD and GIZ |
|----|---|--|--|



Workshop on “Designing the impact pathway for Forest Landscape Restoration” at ICFRE, HQ



## ICFRE- Forest Research Institute, Dehradun

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|----|-----------------------------------|-------------------------------|--|
| 2. | Strategies for Forestry Extension | 03 <sup>th</sup> July<br>2025 | 80 participants including Scientists, Technical Officers, Researchers from ICFRE-FRI, Dehradun |
|----|-----------------------------------|-------------------------------|--|

## ICFRE- Institute of Forest Productivity, Ranchi

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|----|---|---|---|
| 3. | Emerging Technologies in Genetic Improvement of Economically Important Forest Species | 09 <sup>th</sup> to 11 <sup>th</sup><br>July 2025 | 33 participants including Research Scholars and students from ICFRE-IFP, Ranchi |
|----|---|---|---|



**Workshop on “Strategies for Forestry Extension” at ICFRE-FRI, Dehradun**



**Workshop on “Emerging Technologies in Genetic Improvement of Economically Important Forest Species” at ICFRE-IFP, Ranchi**

## ICFRE- Himalayan Forest Research Institute, Shimla

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|----|--|-------------------------------|--|
| 4. | Dissemination of Integrated Research Outcomes of three All India Coordinated Research Projects on Fodder (AICRP-17), Poplar (AICRP-25) and Wild Edible Fruits (AICRP-27) | 17 <sup>th</sup> July<br>2025 | 97 participants including Forest Officers, Scientists, Industry people, Panchayat Representatives, Progressive farmers |
|----|--|-------------------------------|--|



**Workshop on “Project Completion Reports and Dissemination of Integrated Research Outcomes of three AICRP Projects” at ICFRE-HFRI, Shimla**



- |    |   |                            |  |
|----|---|----------------------------|--|
| 5. | Willows in the Cold Desert of the Northwestern Himalaya, India: Genetic Improvement and Bioenergy Prospects | 31 <sup>st</sup> July 2025 | 20 participants including Scientists, Technical Staff, Project Staff of ICFRE-HFRI, Shimla |
|----|---|----------------------------|--|

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

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|----|--|----------------------------|--|
| 6. | Integrating Hologenomic Insight into Tree Improvement Strategies | 11 <sup>th</sup> July 2025 | 25 participants including Scientific and Technical staff of ICFRE-IWST, Bengaluru                |
| 7. | Institute-Industries-Forest Department Interactive Meet          | 29 <sup>th</sup> July 2025 | 80 participants including Officers from Forest Department , Industry Representatives and Farmers |

### ICFRE- Rain Forest Research Institute, Jorhat

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|----|---|----------------------------|--|
| 8. | The Forest Soil Health Card for Mizoram       | 08 <sup>th</sup> July 2025 | 25 officers from Mizoram State Forest Department   |
| 9. | Importance of PGPRs in Restoration Technology | 10 <sup>th</sup> July 2025 | 120 participants including Scientists, Officers, Technical staff and project staff of ICFRE-RFRI, Jorhat |



**Meeting on “The Forest Soil Health Card for Mizoram” at ICFRE-RFRI, Jorhat**



**Seminar on “Importance of PGPRs in Restoration Technology” at ICFRE-RFRI, Jorhat**

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

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|-----|--|--|--|
| 10. | Increasing Wood Production in <i>Casuarina</i> Plantations                     | 08 <sup>th</sup> July 2025                     | 25 officers from Mizoram State Forest Department   |
| 11. | All India Coordinated Research Projects and Forest Genetic Resource Management | 24 <sup>th</sup> to 25 <sup>th</sup> July 2025 | 267 participants from Project Investigators, Wood Based Industries, Nursery Growers and Representatives from State Forest Department |





Meeting on “Increasing Wood Production in *Casuarina* Plantations” at ICFRE-IFGTB, Coimbatore



Workshop on “All India Coordinated Research Projects and Forest Genetic Resource Management” at ICFRE-ICFRE, Coimbatore

### ICFRE- Institute of Forest Biodiversity, Hyderabad

12.	ICICI-Foundation CSR Funding	01 <sup>st</sup> July 2025	11 participants including Scientists, Technical Staff, Project Staff of ICFRE-IFB, Hyderabad
13.	Extension of findings of AICRPs and FGR	23 <sup>rd</sup> July 2025	25 participants including officials and students DHAN foundation, WCTRE, WWF & Citizen Forum

### ICFRE- Tropical Forest Research Institute, Jabalpur

14.	Extension of findings of AICRPs and FGR	31 <sup>st</sup> July to 01 <sup>st</sup> August 2025	88 participants including Scientists, Researchers, Stakeholders, Farmers SHGs members
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Workshop on “Extension of findings of AICRPs and FGR” at ICFRE-TFRI, Jabalpur



## Training Programmes

### ICFRE- Rain Forest Research Institute, Jorhat

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|----|---|--|--|
| 1. | Skill Development on Bamboo Utility Products                  | 08 <sup>th</sup> to 11 <sup>th</sup> July 2025 | 20 participants from West Tripura district   |
| 2. | Low cost vermicomposting techniques for Livelihood Generation | 21 <sup>st</sup> July 2025                     | 50 participants including SHG's members, students and farmers from Daluchara, Kalashi, South Tripura district of Tripura |



**Training Programme on “Skill Development on Bamboo Utility Products” by ICFRE-RFRI, Jorhat**



**Training Programme on “Low cost vermicomposting techniques for Livelihood Generation” by ICFRE-RFRI, Jorhat**

- |    |   |  |   |
|----|---|--|---|
| 3. | Forestry in Addressing Livelihood Issues of People of NER | 23 <sup>rd</sup> to 25 <sup>th</sup> July 2025 | 30 participants including Students, NGO members, SHG members, Eco Club members, Public representatives and Media persons etc. |
|----|---|--|---|

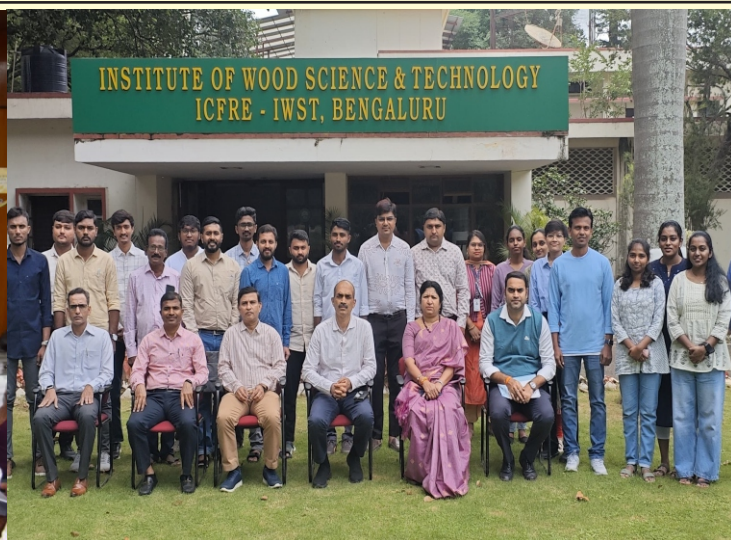
### ICFRE- Himalayan Forest Research Institute, Shimla

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|----|---|--|--|
| 4. | Para Taxonomy – A Taxonomic Tool for Field Identification of Plants | 25 <sup>th</sup> to 26 <sup>th</sup> July 2025 | 35 Field personnel of Forest Survey of India (FSI), Northern Regional Office, Shimla |
|----|---|--|--|



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

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|----|-----------------------------------|---|--|
| 5. | Veneering processing              | 03 <sup>rd</sup> to 04 <sup>th</sup><br>July 2025 | Four industry personnel's from Peenya, Bengaluru   |
| 6. | Utilization of <i>Melia dubia</i> | 14 <sup>th</sup> to 16 <sup>th</sup><br>July 2025 | 30 participants including researchers and students of wood based industries & academicians |

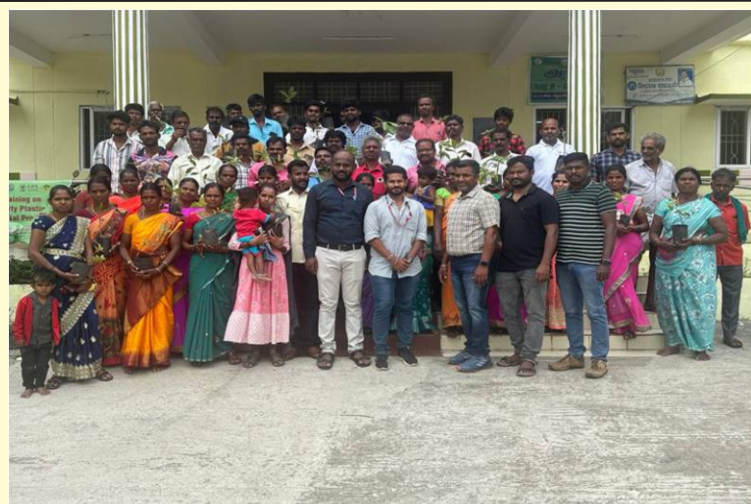


### Training Programme on “Utilization of *Melia dubia*” by ICFRE-IWST, Bengaluru

- |    |   |   |                                       |
|----|---|---|---------------------------------------|
| 7. | Resin manufacturing and plywood manufacturing | 14 <sup>th</sup> to 18 <sup>th</sup><br>July 2025 | 10 participants from plywood industry |
|----|---|---|---------------------------------------|

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

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|----|---|-------------------------------|---|
| 8. | Quality Planting Material Producer                                | 04 <sup>th</sup> July<br>2025 | 55 Tribals from Jawadhu Hills, Tiruvannamalai       |
| 9. | Restoring salt affected soils using indigenous green manure trees | 15 <sup>th</sup> July<br>2025 | 20 Farmers from Rathinampillai Pudur village, Karur |



### Training Programme on “Quality Planting Material Producer” by ICFRE-IFGTB, Coimbatore



### Training Programme on “Restoring salt affected soils using indigenous green manure trees” by ICFRE-IFGTB, Coimbatore



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|-----|--|--|--|
| 10. | Multi functional Agroforestry Systems: Balancing Food-Wood Security and Environmental Sustainability | 17 <sup>th</sup> to 19 <sup>th</sup> July 2025 | 30 participants from NGO's and Tree Growing Federation |
|-----|--|--|--|

### ICFRE- Institute of Forest Biodiversity, Hyderabad

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|-----|--|--|--------------------------------|
| 11. | Quality Planting Material production in Forest Nursery | 28 <sup>th</sup> to 30 <sup>th</sup> July 2025 | 30 stakeholders from Hyderabad |
|-----|--|--|--------------------------------|

### ICFRE- Tropical Forest Research Institute, Jabalpur

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|-----|---|--|---|
| 12. | Lantana Invasion: Strategies for Management, Utilization, and Landscape Restoration | 02 <sup>nd</sup> to 03 <sup>rd</sup> July 2025 | 30 Frontline staff of State Forest Department, Jabalpur |
|-----|---|--|---|

### Activities under Van Vigyan Kendra

#### ICFRE- Himalayan Forest Research Institute, Shimla

- ICFRE-HFRI, Shimla, Government Senior Secondary School, Jagatsukh and the Youth Club, Jagatsukh jointly organized a plantation programme on 16<sup>th</sup> & 28<sup>th</sup> July 2025 in the forest area of Gram Panchayat, Jagatsukh. Around 400 saplings of *Celtis australis*, *Quercus semecarpifolia* and *Cedrus deodara* were planted during the programme.



ICFRE-HFRI, Shimla and Government Secondary School, Jagatsukh jointly organized "Plantation Programme" at Jagatsukh

#### ICFRE- Institute of Forest Productivity, Ranchi

- ICFRE-IFP, Ranchi and VVK, Sukna jointly organized training programme on "Silage, An Opportunity for Forestry Sector Har Ghar, Har Mausum, Hra Chara" on 02<sup>nd</sup> July 2025 at Damagra Village, Siliguri, West Bengal. 50 participants from Damagra Village participated in the programme. Lecture on "Silage production and usage of green Fodder for domestic live stock in every season" was also delivered to them.



ICFRE-IFP, Ranchi at VVK, Sukna organized training programme on "Silage, An Opportunity for Forestry Sector Har Ghar, Har Mausum, Hra Chara" at Damagra Village, Siliguri, West Bengal



## ICFRE- Institute of Forest Biodiversity, Hyderabad

- Organized training programme on “Insect Pest of Forest Nurseries Plantations & their Management and Nursery techniques of commercially important medicinal & aromatic plants” on 10<sup>th</sup> & 11<sup>th</sup> July 2025 at Van Vigyan Kendra, Telangana. 96 officials from Gram Panchayat, District, Telangana participated in the programme.



**Training Programme on “Insect Pest of Forest Nurseries Plantations & their Management and Nursery techniques of commercially important medicinal & aromatic plants” by ICFRE- IFB, Hyderabad**

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

- Organized training programme on “Forestry and Wood Science” on 29<sup>th</sup> July 2025 at Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences, Iruvakk, Shivamogga. 150 students participated in the programme.

### **Awareness and Demonstration Programme**

## ICFRE- Arid Forest Research Institute, Jodhpur

- 74 FRO trainees from Karnataka Forest Department Academy, Dharwad and Telangana State Forest Academy, Hyderabad visited Interpretation Centre, VMGs of Shisham Clones, Neem Patti khad and Thar Shobha khejri trial of ICFRE-AFRI, Jodhpur on 14<sup>th</sup> & 23<sup>rd</sup> July 2025. They were briefed about various research activities of the institute during the visit.



**FRO trainees from Karnataka Forest Department Academy, Dharwad visited ICFRE-AFRI, Jodhpur**

- 18 students along with faculty from Government Ayurved College, Raipur, Chhattisgarh visited Interpretation Centre, VMGs of Shisham Clones, Thar Shobha khejri trial and Guggul trial of ICFRE-AFRI, Jodhpur on 24<sup>th</sup> July 2025.



**Students from Government Ayurved College, Raipur, Chhattisgarh visited ICFRE-AFRI, Jodhpur**



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

- 75 students along with faculty from Sri Vidya Sankar Institution of Science, Machohalli, Bengaluru visited Wood Museum, Advance Wood Working Training Centre of ICFRE-IWST, Bengaluru on 24<sup>th</sup> July 2025.

## ICFRE- Rain Forest Research Institute, Jorhat

- 25 participants from Mritunjay Mahadev Farmers Producer Company, Bokakhat, Ealughat, Assam visited Bamboo Nursery, Bambusetum, Bamboo Charcoal Production Unit of ICFRE-RFRI, Jorhat on 07<sup>th</sup> July 2025. They were briefed about various research activities of the institute during the visit.



**Participants from Mritunjay Mahadev Farmers Producer Company, bokakhat, Ealughat, Assam visited ICFRE-RFRI, Jorhat**

- 31 students along with faculties from Chandra Kamal Bezbaruah College, Teoak and College of Horticulture and Forestry, Pasighat, Arunanchal Pradesh visited ICFRE-RFRI, Jorhat on 14<sup>th</sup> & 28<sup>th</sup> July 2025. They were briefed about various aspects of Bamboo and its application during the visit.



**Students from Chandra Kamal Bezbaruah College, Teoak visited ICFRE-RFRI, Jorhat**

- 24 participants from Krishi Vigyan Kendra, Sivasagar visited Bamboo Nursery, Bambusetum, Bamboo Charcoal Production Unit of ICFRE-RFRI, Jorhat on 17<sup>th</sup> July 2025.



**Participants from Krishi Vigyan Kendra, Sivasagar visited ICFRE-RFRI, Jorhat**

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

- 33 ACF trainees along with faculties from CASFOS, Coimbatore visited Vegetative Multiplication Garden of ICFRE-IFGTB, Coimbatore on 04<sup>th</sup> July 2025. Lecture on “Tree Improvement” was also delivered during the visit.



36 students along with faculties from Forest College and Research Institute, Mettupalayam, Coimbatore ICFRE-IFGTB, Coimbatore on 22<sup>nd</sup> July 2025. Lecture on “Conservation of Seeds and Seed Handling Techniques” was also delivered during the visit.

### ICFRE- Institute of Forest Biodiversity, Hyderabad

- 55 students along with faculties from School of Agricultural Science, Mall Reddy University, Hyderabad visited ICFRE-IFB, Hyderabad on 31<sup>st</sup> July 2025. They were briefed about various research activities of the institute during the visit.



**Students from Malla Reddy School of Agricultural Science, Hyderabad visited ICFRE-IFB, Hyderabad**

### ICFRE- Tropical Forest Research Institute, Jabalpur

- 36 FRO from Telangana Forest Academy visited ICFRE-TFRI, Jabalpur on 15<sup>th</sup> July 2025. They were briefed about various research activities of the institute during the visit.

#### **Participation in Exhibition**

### ICFRE- Arid Forest Research Institute, Jodhpur

- ICFRE-AFRI, Jodhpur participated and showcased its technologies at the “Samridh Gujarat” exhibition organized by the Sansa

Foundation, Delhi, held from 3<sup>rd</sup> to 5<sup>th</sup> July 2025 at Sardar Patel Seva Samaj Karyalaya, Navrangpura, Ahmedabad. About 300 students from various colleges and schools participated in the event.



**ICFRE-AFRI, Jodhpur participated in “Samridh Gujarat” at Sardar Patel Seva Samaj Karyalaya, Ahmedabad**

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

- ICFRE-IFGTB, Coimbatore participated and showcased its technologies at the “AGRI INTEX 2025” trade fair organized by CODISSIA, Coimbatore from 10<sup>th</sup> to 14<sup>th</sup> July at CODISSIA Trade Fair Complex, Coimbatore, Tamil Nadu.



**ICFRE-IFGTB, Coimbatore participated in “AGRI INTEX-2025” at CODISSIA Trade Fair Complex, Coimbatore, Tamil Nadu**



## Mission LiFE

### ICFRE-Forest Research Institute, Dehradun

- Organized an awareness programme for visitors on 16<sup>th</sup> July 2025 to sensitized them about the environmental and personal benefits of using public transport.



**ICFRE-FRI, Dehradun organized Awareness Programme at FRI, Campus**

### ICFRE-Institute of Forest Biodiversity, Hyderabad

- Organized awareness programme on “Healthy Lifestyle adopted, Energy Saved, Single use plastic reduced and Waste Reduced on 17<sup>th</sup>, 19, & 31<sup>st</sup> July 2025 at Sururam and Vayuputra colony, Hyderabad. 77 participants including students and people from surrounding area of Sururam participated in the programme.



**Awareness Programme on “Healthy Lifestyle adopted, Energy Saved, Single use plastic reduced and Waste Reduced” by ICFRE-IFB, Hyderabad**

- ICFRE-CEC, Visakhapatnam organized awareness programme on “Energy Saved, E-waste Reduced, Water Save and Single Use Plastic Reduced” on 11<sup>th</sup>, 16<sup>th</sup> & 18<sup>th</sup> July 2025 at RK beach, GVMC, SMART City Park and Beach Road bus stop, Visakhapatnam.



**Awareness Programme on “Energy Saved, E-waste Reduced, Water Save and Single Use Plastic Reduced” by ICFRE-CEC, Visakhapatnam**

## Prakriti Programme

### ICFRE-Forest Research Institute, Dehradun

- ICFRE-FRI, Dehradun, organized a demonstration programme on “Nursery and Seed Technology” from 23<sup>rd</sup> to 25<sup>th</sup> July 2025 at the FRI campus. Around 200 students from Kendriya Vidyalaya, FRI, Dehradun participated in the programme.

### ICFRE-Arid Forest Research Institute, Jodhpur

- ICFRE-AFRI, Jodhpur organized a training programme on “Plantation Techniques and Initial Plant Care” on 11<sup>th</sup> and 15<sup>th</sup> July 2025 at Kendriya Vidyalaya, Mandore, and Kendriya Vidyalaya No.1 AFS, Jodhpur. Around 200 students participated in the programme. They also took part in hands-on activities and



received briefings on the practical aspects of Nursery Technology.



**Training Programme on “Plantation Techniques and Initial Plant Care” by ICFRE-AFRI, Jodhpur**

- 95 students along with teachers from Shri Chaitanya Techno School, Jhalamand, Jodhpur visited Interpretation Centre Seed Storage Chamber, Central Laboratory and VMG of Shisham clones and the neem leaf compost pits of ICFRE-AFRI, Jodhpur on 16<sup>th</sup> July 2025. Students were briefed about different aspects of seed storage, biofertilizers, Rhizobium, and the various scientific instruments used in the lab during the visit.



**Students from Shri Chaitanya Techno School, Jhalamand, Jodhpur visited ICFRE-AFRI, Jodhpur**

## ICFRE-Rain Forest Research Institute, Jorhat

- 380 students along with teachers from King Christ School, PM Shri Kendriya Vidyalaya, Jawahar Navodaya Vidyalaya, PM Shri Kendriya Vidyalaya ONGC, Shiva Sagar, Jorhat and Assam Rifles Public School, Rowriah, Jorhat visited Bamboo Museum, Insectarium, Bamboo Nursery, Bambusetum, Bamboo Charcoal and Preservation Unit of ICFRE-RFRI, Jorhat on 10<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup>, 21<sup>st</sup> & 22<sup>nd</sup> July 2025. Students were briefed about Bamboo Cultivation, Propagation, Nursery Management, Value addition & bamboo preservation techniques, Bamboo Charcoal making, Lac Cultivation and Vermicomposting, Agar plantation and Artificial Innoculation during the visit.



**Students from PM Shri kendriya Vidyalaya ONGC, Shiva Sagar, Jorhat visited ICFRE-RFRI, Jorhat**

## ICFRE-Institute of Forest Biodiversity, Hyderabad

- Organized an awareness programme on 25<sup>th</sup> July 2025 at PM Shri Kendriya Vidyalaya Sangathan, Bowenpally, Hyderabad. A plantation activity was also conducted as part of the event. Around 50 students participated in the programme.





**Awareness Programme organized by ICFRE-IFB, Hyderabad at PM Shri Kendriya Vidyalaya Sangathan, Bowenpally, Hyderabad**

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

- 722 students along with teachers from Satchithananda Jothi Niketan School, Kallar Vibgyor CBSE High School, Coimbatore, Vidhya Viswalaya Global School of Secondary Education, Corporation Higher Secondary School, Elgi School, The Indian Public School, Dobbs Public School and Corporation Girls Higher Secondary School, Coimbatore visited ICFRE-IFGTB, Coimbatore on 02<sup>nd</sup>, 04<sup>th</sup>, 08<sup>th</sup>, 11<sup>th</sup>, 14<sup>th</sup>, 17<sup>th</sup>, 18<sup>th</sup> & 25<sup>th</sup> July 2025. Lecture on National Parks and their significance for our health, Alpine Forests, The Vital role of Forests in Maintaining a healthy planet, Floral diversity, Migration in birds, Urban Ecology, Lungs of the Earth and The crucial role of forests was also delivered during the visit.



**Students from Shri National Public School, Gobichettipalayam visited ICFRE-IFGTB, Coimbatore**

### Memorandum of Understanding

- ICFRE-RFRI, Jorhat signed an MoU with ICAR-National Institute of Plant Biotechnology, New Delhi on 24<sup>th</sup> July 2025 for Research Collaboration.



**MoU signed between ICFRE-RFRI, Jorhat and ICAR-National Institute of Plant Biotechnology, New Delhi**

### Rajbhasha Activities

- ICFRE-RFRI, Jorhat, in collaboration with UCO Bank, Jorhat, jointly organized a workshop on the “Kanthasth 2.0 Translation Tool” on 4<sup>th</sup> July 2025. 30 participants from various Central Government departments in Jorhat attended the workshop.



**ICFRE-RFRI, Jorhat and UCO Bank, Jorhat Jointly organized workshop on “Kanthasth 2.0”**



- ICFRE-IFB, Hyderabad organized training program on “Noting and Drafting- manually and using e-tools” from 14<sup>th</sup> to 16<sup>th</sup> July 2025. 15 participants including Officers, Technical staff and project staff of ICFRE-IFB, Hyderabad participated in the programme.



**Training Programme on “Noting and Drafting- Manually and using E-Tools” by ICFRE-IFB, Hyderabad**

### Radio / TV Talk

- Sri Rajarshi Bhattacharya, Senior Technical Officer, ICFRE-RFRI, Jorhat (Assam) recorded Radio talk on 3<sup>rd</sup> July 2025 at All India Radio, Dibrugarh on the topic “Vermiculture: Preparation and Implementation” in Assamese for the programme titled "Sushoma Basundhora", which is a visionary programme on Sustainable Livelihood.

### Miscellaneous

- ICFRE-RFRI, Jorhat, in collaboration with Apollo Excel care Hospital, Pachim Boragaon, Guwahati, Assam, jointly organized a “Healthy Health Screening Camp” on 17<sup>th</sup> July 2025. Around 150 participants took part in the camp.
- ICFRE-RFRI, Jorhat conducted a Bird Watching Session on 31<sup>st</sup> July 2025 at the Deovan Campus of ICFRE-RFRI, Jorhat. 19 students from the College of Horticulture and Forestry, Pasighat, Arunachal Pradesh

participated in the session. During the event, 19 bird species were identified, and the checklists were uploaded to the E-Bird platform.



**ICFRE-RFRI, Jorhat organized “Birds Watching Session” at The Deovan Campus of ICFRE-RFRI, Jorhat**

- ICFRE-CEC, Visakhapatnam and ICAR-CMFRI, Kerala jointly celebrated World Mangrove Day on 26<sup>th</sup> July 2025 at the Gosthani River confluence in Bheemli, Viskhapatnam.



**ICFRE-CEC, Visakhapatnam and ICAR-CMFRI, Kerala jointly celebrated “World Mangrove Day”**

### HR NEWS

#### Retirement:

Name of Officer	Date
Smt. Mamta Meshram, Scientist-C, ICFRE-TFRI, Jabalpur	31.07.2025



Dr. Prasanta Hazarika, 31.07.2025  
CTO, ICFRE-RFRI, Jorhat

Sh. Muhibul Hussain, 31.07.2025  
ACTO, ICFRE-RFRI, Jorhat

Sh. Chaman Lal, 31.07.2025  
Section Officer, ICFRE-AFRI,  
Jodhpur

Sh. Swaroop Aharvar, 31.07.2025  
Personal Secretary, ICFRE-TFRI,  
Jabalpur

### Promotion:

Name of Officer	Date
Smt. Santosh Jamalita, Library Information Assistant, ICFRE-HFRI, Shimla promoted to the post of Librarian.	23.07.2025

### **Publication**

### Research Papers:

- Thiyaharajan, M., Kumar, S., Negi, A., Pandey, R., & Kumar, V. (2025). Forecasting and constituents of export and import of wood and wood products in India. *Journal of the Indian Academy of Wood Science*, 1-10.
- Semwal, A., Gautam, K., Bhatt, M., Yadav, R., Barthwal, S., & Singh, H. (2025). Green synthesis and application of metal nanoparticles (MNPs): A sustainable strategy for protecting wood from fungal and termite decay. *Next Materials*, 9, 100962.
- Khanna Radhika, Pandey Gaurav, Barthwal Santan, Ginwal Harish Singh and Varshney, V.K. (2025). Phytochemical Profiling, Isolation, Characterization and Quantification of Triterpenoids from Terminalia Arjuna: A Multi-Location Study Using HPLC and Statistical Analyses. *J. Chromatographic Science*, 63, 6, bmaf042. <https://doi.org>

[/10.1093/chromsci/bmaf042](https://doi.org/10.1093/chromsci/bmaf042).

- Kumar, A., Kanwal, K. S., Paul, S. and Verma, R. K. (2025). Biomass and carbon stock of conifer and broad leaf forest stands in Talra wildlife Sanctuary across Northwest Himalayas, India. *Frontiers in Forests and Global Change*, 8, 1566614.
- Bhatt, A., Jishtu V., Tripathi, Y.C. and Varshney, V.K. (2025). Optimization of Natural Colorant Extraction from the Fruit Peels of Wild Pomegranate. *PhytoTalks*. 2025; 2(2): 311-317.
- Pandey, VV, Kanthola C, Kumar, M and Pandey A (2025). Necklace of sporophore: A less seen phenomenon of root rot pathogen *Ganoderma lucidum*. *Asian Jr. of Microbiol. Biotech. Env. Sc.* Vol. 27, No. (3-4) : 2025 : 306-307. DOI No.: <http://doi.org/10.53550/AJMBES.2025.v27i03-04.026>
- Bag, S. (2025). Tulsi: Queen of medicinal herbs through the ages. *Van Sangyan*, 12(5), 19-27.
- 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), 583-588. <https://doi.org/10.22438/jeb/46/4/MRN-5516>.
- Divakara B.N., Maruthi Sankar G. R. (2025). Statistical Assessment of the Superiority of Agro-Climatic Zones for Sandalwood (*Santalum album* L.) Cultivation Based on Variability in Tree Growth and Soil Fertility Parameters in Karnataka, India, PREPRINT available at Research Square. [<https://doi.org/10.21203/rs.3.rs-6951024/v1>].
- Sneha, M. V., Prabuddha, H. R., Divakara, B. N., Madhushree, A. H., & Kumar, K. S. (2025). Identification of polymorphic SSR markers by examining their cross-transferability and



investigation of genetic diversity within *Pterocarpus* species. *Indian Journal Of Genetics And Plant Breeding*, 85(02), 317-320.

- P, Shubha, Rashmishree S, Tresa Hamalton, Almas Khannam, and Jyothsna B S. 2025. Storage of Encapsulated Somatic Embryos of *Santalum album* Linn.: Progressing towards *In Vitro* Conservation and Mass Production. *Journal of Advances in Biology & Biotechnology* 28 (8): 19-26. <https://doi.org/10.9734 /jabbb/2025 /v2 8i82679>.
- Mehta, M., Devagiri, G.M., Satish, B.N., Nayak, B.G., Ravikumar, D. and Moran, A. (2025). Biomass and Carbon Stock Assessment in Agroforestry Practices: A Study in Southern transition zone of Karnataka, India. *Indian Forester*, 151(6):540-545.
- Dasgupta, P., and Das, D. J. (2025). Forest Types, Biomass and Carbon Dynamics in the Northeastern States of India: A Comprehensive Review. *Environment and Ecology*, 43(2), 510–521. <https://doi.org/10.60151/envec/XQOE5071>.
- Bhutia, P. L., Islam, S., Pal, S., Kaushal, R., Panwar, P., Kumar, M., Kumar, D., Yadav, R. P., Bhutia, K. G., Singh, N. R., Singh, M. and Khola, O. P. S. (2025). Allometric models for estimating above-ground biomass and carbon stock of major shrub species in Northern dry mixed deciduous forest in Shivalik foothills. India. *Environmental and Sustainability Indicator*, 27:100795. <https://doi.org/10.1016/j.indic.2025.100795>.
- Garg, N.K., Meena, N.L., Prajapat, R.K., Mathur, M., Parwan, S., and Taria, S. (2025). Phytomelatonin: Regulating Development and Stress Protection in Plants. In: Chirag Maheshwari, Muzaffar Hasan & M. Iqbal R. Khan (Eds.), *Phytomelatonin Biology Serving as a Driving Force in Regulating Plant Growth and Development Under Optimal/ Environmental Stressors/Biotic Interferences* (1st ed., pp. 179-215). CRC Press.
- Berry N. and Kumar P. (2025).: ISSN:0972-5210 Growth Performance of *Santalum album* with Secondary Hosts under Sandalwood based Agroforestry System Existing in Farmer's field of Maharashtra, India Plant Archives Vol. 25, Supplement 2, pp. 588-591 and online e-ISSN:2581-6063 (online).
- Berry N., Ragula A. and Ray M.A. (2025) Population Assessment of Economically Valuable Threatened Timber Species Distributed in Chhattisgarh Forest Divisions, India. *International Journal of Environment and Climate Change*: (Past name: *British Journal of Environment & Climate Change* 15: 6, 138-156, 2025; ISSN: 2581-8627 t ISSN: 2231–4784).
- Banerjee S.K., Jha T.K., Banerjee S.(2025) Some ecological aspects of lateritic forest region of south west Bengal journal of Tropical Forest vol 40(3&4) page No. 80-99.

### Popular Article:

- Mala Rathore (2025), “बेडू दृ हिमालयी क्षेत्र का एक बाहुमूल्य वृक्ष”, Taruchintan, pp 19.
- Dushyant Kumar published an article titled- Sural Bhatori–Serene Splendour in PangiHimlayasat <https://hillpost.in/2025/07/sural-bhatori-serene-splendour-in-pangi-himalayas/167014/dated 17 July, 2025>.

### Brochure/Pamphlets/Poster/Chart/ Extension material:

- Two Brochures on “Microwave vacuum dryer for round wood and bamboo” and “Vacuum kiln drying vs convective kiln



drying : What works best for bamboo”.

- Pamphlet on Greening the dry land under AICRP-24 initiative for Combating desert & restoring livelihoods Forest to Seed bank under FGR was prepared for extension of project outcome.
- Training manual on "Eco-friendly Biopesticides from Tree Borne Oil Seeds and Plants for Sustainable Insect Pest Management" under CAMPA AICRP 20.
- A pamphlet on “सतत कीट प्रबंधन हेतु वृक्षों के तैलीय बीजों एवेम पौधोंसे प्राप्त पर्यावरण हितैषी जैव कीट नाशक” under CAMPA AICRP 20.
- Production of quality planting material of sandalwood through tissue culture was prepared for AICRP-3.

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