

# NEWSLETTER VENSLETTER VOL. 23 NO.6



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# Secretary, MoEF&CC, Govt. of India visited ICFRE and ICFRE-FRI, Dehradun

Smt. Leena Nandan, Secretary, MoEF&CC, Govt. of India visited ICFRE and ICFRE-FRI, Dehradun on 13 June 2023 and reviewed the activities. Sh. Arun Singh Rawat, IFS, Director General, ICFRE gave introductory remarks and Dr. Renu Singh, Director, FRI, Dehradun gave presentation on activities of ICFRE-FRI, Dehradun.



Smt. Leena Nandan, Secretary, MoEF&CC, Govt. of India visited ICFRE and ICFRE-FRI, Dehradun

# Release of National Working Plan Code-2023

management of forests & evolving new approaches was released the theme "Her Land. Her Rights" a one day workshop was organized by by Shri. C.P. Goyal, DGF&SS, MoEF&CC on the occasion of the World Day ICFRE, Dehradun on 17 June 2023. The workshop was inaugurated by to Combat Desertification & Drought at ICFRE, Dehradun on Shri C.P. Goyal, DGF&SS, MoEF&CC, Gol in the presence of DG, ICFRE, 17 June 2023.



Release of National Working Plan Code-2023

# Workshop on World Day to Combat Desertification

National Working Plan Code-2023 of MoEF&CC for scientific To commemorate World Day to Combat Desertification & Drought under Padam Shri Smt. Basanti Devi and other dignitaries.



ICFRE, Dehradun conducted workshop on World Day to Combat Desertification and Drought under the theme "Her Land. Her Rights"





# Azadi ka Amrit Mahotsav and LiFE



# **World Environment Day 2023**

World Environment Day under the theme "Beat Plastic Pollution" celebrated at ICFRE-Dehradun and its institutes on 5 June 2023.





















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

ICFRE-IFGTB, Coimbatore in collaboration with ICAR KVK Sirugamani, Trichy organized a one day training programme on Casuarina Windbreak clones for protection of Banana crops & popularization of TreeGenie mobile App on 28 June 2023. About 67 farmers participated in the programme. The establishment, post planting care and advantages of the windbreak clones were explained to the participants and a session was conducted on "TREEGENIE – Interactive Digital platform of IFGTB" for the mobile app popularisation wherein, the participants were briefed about the key functionalities of the TreeGenie Mobile Application, its uses and other installation procedures.



ICFRE-IFGTB, Coimbatore organized a training programme on Casuarina Windbreak clones for protection of Banana crops & popularization of TreeGenie mobile App

## **ICFRE-Institute of Forest Biodiversity, Hyderabad**

Organized a one-day training programme on Red Sanders Cultivation Techniques for Trainee Foresters of Telangana State Forest Academy, Hyderabad on 23 June 2023. A total of 35 Trainee Foresters participated in the programme.



ICFRE-IFB, Hyderabad organized a training programme on Red Sanders Cultivation Techniques

# ICFRE-Institute of Wood Science and Technology, Bengaluru

- Organized a seminar on Agro residues panels for Acoustic & Thermal applications for better outreach of science and technical updates to budding engineers and researchers on 2 June 2023.
- Organized a two day signature campaign led by Dr M.P. Singh Director, ICFRE-IWST, Bengaluru at the Sanky Tank Bengaluru to generate awareness among public towards environment on 5 June 2023.
- Organized a webinar on Know your Panel Products from Planation species on 22 June 2023. Total of 57 participants from various fields viz., PhD scholars, students, engineers and scientists across wood science, chemistry, engineering and architectural background attended the webinar.



ICFRE-IWST, Bengaluru organized two days signature campaign

# ICFRE-Institute of Forest Productivity, Ranchi

Organized a free medical camp sponsored by Kotak Mahindra Bank, Ranchi on 20 June 2023. About 65 numbers of participants including Scientists, Officers, Officials and research fellows were present during the medical check-up.



ICFRE-IFP, Ranchi organized a free medical camp sponsored by Kotak Mahindra Bank, Ranchi



## ICFRE-Arid Forest Research Institute, Jodhpur

- Organized a lecture on Adopting a Healthy Lifestyle and briefed the detailed information about the basic principles of Ayurveda on 9 June 2023. All the Technical officers and employees of ICFRE-AFRI, Jodhpur attended the programme.
- Celebrated World Day to Combat Desertification and Drought under the theme Her Land. Her Rights on 17 June 2023.
   Scientists, STO's, CTO's and other staff members of the institute participated in the programme.
- Conducted a programme on Preventing Wastage of food on 23 June 2023. All the Scientists, Technicians and research scholars of ICFRE-AFRI, Jodhpur participated in the programme.



ICFRE-AFRI, Jodhpur organized a lecture on Adopting a Healthy Lifestyle



ICFRE-AFRI, Jodhpur celebrated World Day to Combat Desertification and Drought under the theme Her Land. Her Rights

# ICFRE-Himalayan Forest Research Institute, Shimla

- Conducted a programme on Solid Waste and its Management at Aadhunik Public School Sidhwari, Dharamshala, District Kangra (HP) on 1 June 2023. The students were also apprised about judicious use of water and ways and practices to save water.
- Conducted a programme on Waste Reduced at Government Senior Secondary School, Matiana, District Shimla, (HP) and Shillaru, District Shimla (HP) on 26 June 2023 for the students. The students were apprised about ways and practices to segregate dry and wet waste at their homes and also about the use of agricultural residues and animal waste for composting, feeding the unused and uncooked food/leftover food to the cattle.



ICFRE-HFRI, Shimla conducted a programme on Solid Waste and its Management



ICFRE-HFRI, Shimla conducted a programme on Waste Reduced



# **International Yoga Day 2023**

ICFRE, Dehradun and its institutes celebrated International Day of Yoga on 21 June 2023.





















# Significant Research Findings

## **ICFRE-Forest Research Institute, Dehradun**

- LC-QTOF0-MS assisted chemical characterization of natural dye extracted from the fruit peels of wild grown *Punica* granatum was completed and a total of 22 color imparting metabolites belonging to 5 classes of compounds including ellagitannins (9), flavanols (4), flavanol glucoside (2), phenolic acid (1), phenolic acid derivatives (6) were tentatively identified.
- 25% aqueous methanol (AM) extract isolated from the peels of *Punica granatum* was fractionated using ethyl acetate (EA) and n-butanol (BU) and their respective fractions AMEA (6.77%) and AMBU (2.34%) were isolated. AM, AMEA (Ethylacetate fraction of aqueous methanol) and AMBU (Butanol fraction of aqueous methanol) extracts displayed significant antioxidant activity [IC 50 (μg/ml), 0.58, 0.49, 0.62] compared to positive control. However, AMEA was the most potent fraction.

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

- Phylogenomics study conducted with 27 Dalbergia species clustered D.latifolia with D.cochinchinensis and D.obtusifolia. The highly resolved tree grouped the species from Africa and South America and separated D.assamica and D.balansae as distinct species. The newly generated chloroplast genome is a much needed resource to accelerate evolutionary studies in D. latifolia, and facilitate development of super barcodes for timber forensics. The study was published in the Nordic Journal of Botany.
- Based on dye yield two populations of Careya arborea, viz., Kalakad Mundanthurai Tiger Reserve (KMTR)-II and Topslip-Anamalai Tiger Reserve (ATR)-I were identified as the chemically superior populations out of 15 populations.

 Based on dye yield four populations of Balanites aegyptiaca, viz., Alagapuri-Virudhunagar, Thalamalai- Sathyamangalam Tiger Reserve (STR), Bannari-Sathyamangalam Tiger Reserve (STR) and Palavanatham-Virudunagar were identified for chemically superior populations out of 21 populations.

# Consultancies

# Indian Council of Forestry Research and Education, Dehradun

Works on different scientific consultancy projects was undertaken and following reports were submitted to respective agencies during the period:

- 1. Final Report on Monitoring of NTPC Accelerated Afforestation Programme of 10 Million Tree Plantations- in Seven Different States submitted to GM (EMG) NTPC, Noida (UP).
- 2. Final Report on Study on Improvement of Water Quality in Immediate Catchment of Proposed Navnera Reservoir on Kalisindh River through Requisite Measures and Rehabilitation of Lost Habitat of Scheduled Wildlife (Reptiles) in Remaining Forest Area near Abra Village, Digod Tehsil, Kota District, Rajasthan submitted to Chief Engineer water resources zone Kota, Rajasthan.
- **3.** Final Environmental Audit Reports of Umrer, Penganga, Niljay OCPs submitted to Western Coalfield Limited, Maharashtra.
- **4.** Final Environmental Audit Report of Sharda Highwall Open Cast Mine (South Eastern Coalfields Limited) Sohagpur, Shahdol, Madhya Pradesh submitted to CIL.
- **5.** Final Environmental Audit reports of Krishnashila, Nigahi, Dudhichua OCPs of NCL, Singrauli submitted to Coal India Limited (CIL), Kolkata.

# Workshops/Seminars/Meetings

S.No.		Торіс		Duration	Participants
Indian Council of Forestry Research and Education, Dehradun					
					Caiantiata and Officers from

 Virtual meeting of CAMPA component 3-Forest Policy Research and component 5-Operationalization of Human Resource Development Plan

23 June 2023

Scientists and Officers from ICFRE-IFP, Ranchi



# ICFRE-Himalayan Forest Research Institute, Shimla

 Monthly Research Seminar on Dendroclimatological Analysis: Studying Effect of Climate Change on

Growth of Tree Species

28 June 2023

54 participants including Scientists, Technical staff, Research staff

# **ICFRE-Rain Forest Research Institute, Jorhat**

3. Seminar on Goods and Services Tax (GST)

26 June 2023

75 participants including Scientists, Officers and other staff members of ICFRE-RFRI, Jorhat



ICFRE-HFRI, Simla conducted Monthly Research Seminar on Dendroclimatological Analysis: Studying Effect of Climate Change on Growth of Tree Species



ICFRE-RFRI, Jorhat organized a Seminar on Goods and Services Tax (GST)

# **Training Programmes**

S.No. Topic Duration Participants

# Indian Council of Forestry Research and Education, Dehradun

Instrumentation (Data Analysis and Interpretation-LCMS & NMR)

12 to 16 June 2023

10 Scientists from different institutes of ICFRE



2.	Trichoderma mass multiplication and application in Shisham nurseries	12 to 15 June 2023	Shri Rakesh Pandey, UP Forest Department and Scientists and Technical staff of ICFRE-FRI, Dehradun
3.	Seed Ball Technology	16 June 2023	Officials of Research wing of Uttarakhand State Forest Department
	ICFRE-Institute of Forest Genetic	s and Tree Breeding, Coimbat	ore

4. Summer Internship Training

5 to 23 June 2023 36 post graduate students of Biotechnology, Biochemistry, Botany, Zoology, Applied Microbiology and Environmental

Science from various universities and colleges

# **ICFRE-Rain Forest Research Institute, Jorhat**

Improved Forest Nursery, Plantation
 Techniques and Forest Seed Technology

22 to 23 June 2023 14 participants including Officers and frontline Staff of Genetic Cell Division of Assam Forest division, Guwahati, Assam and other officials of Assam Forest department, Jorhat, Assam



Summer Internship Training



Training on Improved Forest Nursery, Plantation Techniques and Forest Seed Technology



ICFRE-Institute of Forest Biodiversity, Hyderabad			
6.	Field Identification of Mangrove and their associates	19 June 2023	20 participants from Andhra Pradesh Forest department and local public
ICFRE-Himalayan Forest Research Institute, Shimla			imla
7.	Nursery technique of Juniper (Shukpa) and Cultivation of temperate medicinal plants of temperate Zone	20 June 2023	40 Progressive farmers and front line staff of Himachal Pradesh State Forest Department
	ICFRE-Livelihood Exte	nsion Centre, Agartala	
8.	Bamboo propagation, nursery management and vermicomposting	20 June 2023	04 Members of SHGs including 18 women from Jampuijala, Agartala
9.	Bamboo propagation and Nursery management	27 to 28 June 2023	45 Tribal women representing of SHGs in Jampuijala, Agartala



Training on Nursery technique of Juniper (Shukpa) and Cultivation of temperate medicinal plants of temperate Zone



Training on Bamboo propagation and Nursery management

# License of Agreement

A License agreement was signed on 21 June 2023 between ICFRE-RFRI, Jorhat and Chroma Biotech LLP, Dibrugarh, Assam for supply of high yielding genotypes of *Bambusa balcooa*.

# Memorandum of Understanding

 ICFRE-RFRI, Jorhat and North Eastern Regional Institute of Water and Land Management (NERIWALM), Tezpur, Assam signed a MoU for expanding the mutual relationship by sharing Intellectual Property on 15 June 2023.  ICFRE-RFRI, Jorhat and DKD College, Dergaon signed a MOU on 19 June 2023 in the presence of Scientists, Officers and Teachers of RFRI & College. The signing will open the vista for new research and will be beneficial for both the institutes.



ICFRE-RFRI, Jorhat and DKD College, Dergaon signed a MOU



 ICFRE-IFP, Ranchi and Amity University signed a MoU on 22 June 2023 for collaborative work on various dimensions in the field of research. It was also decided to explore the areas of joint working between the two Institutes on various aspects of research.



ICFRE-IFP, Ranchi and Amity University signed a MoU

# Prakriti Programme

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

- 51 students from Dr. P.G.V Matriculation Higher Secondary School, Coimbatore visited Gass Forest Museum of ICFRE-IFGTB, Coimbatore on 19 June 2023.
- 146 students from Delhi Public School, Coimbatore and Stanes School, Coimbatore visited ICFRE-IFGTB, Coimbatore on 22 and 23 June 2023 respectively and apart from exposure to Institute research activities a talk on Water Conservation was also delivered to the students.
- 193 students along with 26 teachers from 03 branches of Aksharam International School, Coimbatore, 84 students from Stanes School Coimbatore and 86 students from BVM Global School, Coimbatore visited ICFRE-IFGTB, Coimbatore and a film was screened to students on animals and pollution on 26 June 2023.
- 143 students from Bharathi Matriculation Higher Secondary School, Coimbatore visited ICFRE-IFGTB, Coimbatore and a talk on conservation was delivered to the students on 27 June 2023.
- 237 students from Bharathi School, Venkitapuram and Ksirs International School visited ICFRE-IFGTB, Coimbatore and a talk was delivered on Land Pollution to the students on 28 June 2023.
- 154 students from Jothi Niketan CBSE School and Ksirs School Coimbatore visited ICFRE-IFGTB, Coimbatore on 30 June 2023.

# ICFRE-Institute of Wood Science and Technology, Bengaluru

51 students of 9<sup>th</sup> standard with 03 faculty members from Presidency School, Bengaluru visited Tissue culture and Chemistry lab, Nursery Xylarium, Wood Museum and Advanced Woodworking Training Centre at ICFRE-IWST, Bengaluru on 21 June 2023.



Students of 9th standard with 3 faculty members from Presidency School, Bangalore visited ICFRE-IWST. Bengaluru

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

Organized a Hands on training programme about forestry and environmental awareness, plantation techniques and vermicompost making at Demonstration Nursery at Shivdwala, VVK Longani, Dharampur, Mandi on 9 June 2023. 24 Students from Government, Senior Secondary School, Longani, Dharampur participated in the programme.



ICFRE-HFRI, Shimla organized a Hands on training programme about forestry and environmental awareness, plantation techniques and vermi-compost making at Demonstration Nursery at Shivdwala, VVK Longani, Dharampur, Mandi

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

A group of 1060 students of Class  $1^{\text{st}}$  to  $12^{\text{th}}$  from Kendriya Vidyalaya Churu, Rajasthan visited ICFRE-AFRI, Jodhpur on



23 June 2023 and the students were also explained about various research and forestry techniques of the institute.



Students of Class 1<sup>st</sup> and 12<sup>th</sup> from Kendriya Vidyalaya Churu, Rajasthan visited ICFRE-AFRI, Jodhpur

# **Awareness and Demonstration Programme**

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

 B.Sc. 4<sup>th</sup> year Forestry students from Bharatiya Engineering Science and Technology Innovation University (BESTIU), Sri Sathya Sai District, Andhra Pradesh visited VMG complex and Gass Forest Museum of ICFRE-IFGTB, Coimbatore on 8 June 2023.



B.Sc. 4th year Forestry students from Bharatiya Engineering Science and Technology Innovation University (BESTIU), Sri Satya Sai Dt., Andhra Pradesh visited ICFRE-IFGTB, Coimbatore

- 20 aspirants from Vetri IAS academy, Coimbatore visited Gass Forest Museum of ICFRE-IFGTB, Coimbatore on 14 June 2023.
- 24 women farmers of SHGs from Pollachi (North) and Sultanpet blocks visited ICFRE-IFGTB, Coimbatore on 14 June 2023. A field demonstration on establishment of Medicinal Plants Garden and visit to Gass Forest Museum were arranged for the farmers.



Women farmers of SHGs from Pollachi (North) and Sultanpet blocks visited ICFRE-IFGTB, Coimbatore

- 12 Forest Guard trainees from Tamil Nadu Forestry Training College, Vaigai Dam visited Vegetative Multiplication Garden of ICFRE-IFGTB, Coimbatore on 19 June 2023 and they were also explained about the research activities of the institute.
- 11 M.Sc Forestry students from Forest College and Research Institute, Mettupalayam visited Gass Forest Museum of ICFRE-IFGTB, Coimbatore on 21 June 2023.



M.Sc Forestry students from Forest College and Research Institute, Mettupalayam visited ICFRE-IFGTB, Coimbatore

# ICFRE-Himalayan Forest Research Institute, Shimla

Forest Guards Trainees along with three faculty members from Forest Training Academy Haldwani, Uttarakhand visited ICFRE-HFRI, Shimla on 4 June 2023. They were explained about R&D activities of the institute.



Forest Guards Trainees along with 3 faculty members from Forest Training Academy Haldwani, Uttarakhand visited ICFRE-HFRI, Shimla



# ICFRE-Institute of Wood Science and Technology, Bengaluru

 40 students of B.Sc (Hons) Forestry 2<sup>nd</sup> and 4<sup>th</sup> year from Bharatiya Engineering Science and Technology Innovation University (BESTIU), College of Agricultural Science and Applied Research, Anantapur visited ICFRE-IWST-IPIRITI Campus on 26 June 2023.



Interaction with the students of B.Sc (Hons) Forestry 2<sup>nd</sup> and 4<sup>th</sup> year from Bharatiya Engineering Science and Technology Innovation University (BESTIU), College of Agricultural Science and Applied Research, Anantapur

 27 M.Sc. Biotech students and two faculty from Nruptanga university, Bengaluru visited Tissue culture and Microbiology Lab, Nursery, Xylarium, Wood Museum and Advanced Woodworking Training centre at ICFRE-IWST, Bengaluru on 27 June 2023.

## **ICFRE-Tropical Forest Research Institute**, **Jabalpur**

50 students of Shri Rawatpura Sarkar Institute of Pharmacy Jabalpur (MP) visited ICFRE-TFRI, Jabalpur on 6 June 2023. Students were briefed about the various research activities carried out by ICFRE-TFRI, Jabalpur.



Students of Shri Rawatpura Sarkar Institute of Pharmacy Jabalpur (MP) visited ICFRE-TFRI, Jabalpur

#### Visit to Institutes

 Director General, ICFRE, Sh. Arun Singh Rawat, IFS visited Environmental Research Station (ERS), Sukna, Darjeeling of ICFRE-IFP, Ranchi from 6 to 8 June 2023 and reviewed the ongoing, completed, new research projects and all other activities undertaken by the research centre in the North Bengal region. On this occasion he also planted Ashoka and Malagiri plant in the office campus of Environmental Research Station (ERS), Sukna.



Director General, ICFRE, Sh. Arun Singh Rawat, IFS visited Environmental Research Station (ERS), Sukna, Darjeeling of ICFRE-IFP, Ranchi

 Director General, ICFRE, Sh. Arun Singh Rawat, IFS visited ICFRE-HFRI, Shimla and Field Research Stations of the institute from 17 to 22 June 2023. During visit to the institute, DG, ICFRE interacted with the Scientists, Officers and other officials of the institute and also inaugurated Technology Demonstration Centre.



Director General, ICFRE, Sh. Arun Singh Rawat, IFS visited ICFRE-HFRI, Shimla

 Smt. Sonali Ghosh, IFS, Chief Conservator of Forests, Research, Education and Working Plan along with Mr. Sailen Das, DFO, Silviculture Division, Guwahati and Smt. Swayambrita Dutta, DFO Working Plan, Jorhat visited ICFRE-RFRI, Jorhat on 23 June 2023.

# Rajbhasha Activities

ICFRE-HFRI, Shimla conducted a Hindi Workshop on 15 June 2023. Scientists, officers, employees and research scholars of the institute attended the workshop.

**Date** 

- ICFRE, Dehradun organized a Quarterly Official Language Implementation Committee Meeting on 16 June 2023.
   Scientists and officers of ICFRE-IFP, Ranchi attended the meeting.
- ICFRE-RFRI, Jorhat organized a Hindi workshop on Use of Hindi in computers on 26 June 2023. 13 Officials of ICFRE-RFRI, Jorhat participated in the programme.



ICFRE-RFRI, Jorhat organized a Hindi workshop on Use of Hindi in computers

 ICFRE-IFP, Ranchi organized a Hindi Workshop on typing, note sheet writing and correspondence on 27 June 2023.
 33 participants including technical staff, ministerial staff and other officials of ICFRE-IFP, Ranchi participated in the workshop.

## Miscellaneous

- ICFRE-HFRI, Shimla organized a cleanliness drive around the arboretum as a part of their extension activity on 3 June 2023.
   Total 85 students and faculty members were present during the drive.
- ICFRE-TFRI, Jabalpur organized Environmental Awareness and Plastic Cleaning Rally on 5 June 2023 to sensitize local people and students to avoid plastics from TFRI gate to Gour Tiraha.



ICFRE-TFRI, Jabalpur organized Environmental Awareness and Plastic Cleaning Rally

 ICFRE-RFRI, Jorhat conducted cleanliness drive in the Campus on 16 June 2023. 90 employees of ICFRE-RFRI, Jorhat were present during the drive.

## **HR News**

#### Retirements

Name of Officer

Associates on Douglation	
Km. Seema, PS, ICFRE-FRI, Dehradun	30.06.2023

# **Appointments on Deputation**

Name of Ufficer	Date
Shri B.N. Pingale, IFS (MH:2012),	22.06.2023
Dy, Conservator of Forests at ICFRE-FRI, Dehradun	

# Repatriation

Name of Officer	Date
Shri Harendra Singh Rawat, AO/8332181,	02.06.2023
ICFRE-FRI. Dehradun	

#### Transfer

Name of Officer	Date
Ms. Ilham Bano, Scientist-B transferred from ICFRE-IFB to ICFRE-AFRI, Jodhpur	05.06.2023
Ms. G.S. Uma, Scientist-B transferred from ICFRE-FRI to ICFRE-IWST, Bengaluru	19.06.2023

#### Patron:

Shri A.S. Rawat, IFS, Director General, ICFRE, Dehradun

#### **Editorial Board:**

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