



# ICFRE NEWSLETTER

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### Shri. A.S. Rawat, IFS, Director General of ICFRE

Shri. A.S. Rawat, IFS (JHK:1986) assumed the charge of the post of the Director General, (ICFRE), Dehradun in the forenoon of 03 December 2020.

### World Soil Day 2020

IFGTB, Coimbatore observed World Soil Day 2020 digitally on 5 December 2020. An awareness event on the theme "Keep Soil Alive, Protect Soil Biodiversity" prescribed by the FAO of the United Nations was organized live through Facebook.

### International Mountain Day

HFRI, Shimla and IFGTB, Coimbatore observed International Mountain Day on 11 December 2020.



IFGTB, Coimbatore observed International Mountain Day



IFGTB, Coimbatore observed World Soil Day

## SIGNIFICANT RESEARCH FINDINGS

### Forest Research Institute, Dehradun

- Under the project Co-FGR - National Programme for Conservation and Development of Forest Genetic Resources 2000 specimens have been digitized and entered into Digital Herbarium Specimen Database. Plant samples and regeneration data were also collected for selected FGR species from Haridwar and Dehradun.
- In a CAMPA, MoEF&CC funded AICRP on "Bioprospecting for industrial utilization of lesser known forest plants" populations of *Cupressus torulosa*, *Punica granatum* and *Prinsepia utilis* were surveyed. Visits were made in the Forest Divisions of Uttarkashi and Upper Yamuna, and plant material from 2 populations of *Cupressus torulosa*, 3 populations of *Prinsepia utilis* and 1 population of *Punica granatum* was collected for their chemical examination specimens of *Cupressus torulosa*, *Prinsepia utilis*, *Dysoxylum gotadhora* and *Bambusa bambos* incorporated in DD Herbarium.
  - Essential oil content was determined in 5 and 7 populations of *Valeriana jatamansi* grown in Arunachal Pradesh and Himachal Pradesh, respectively, under DBT funded project "Investigation on population biology, characterization and conservation of some high value threatened medicinal plants of North East region".
- Surveyed seven mining sites in Ganga river and its tributaries for measuring the post monsoon reference level under the replenishment study.
  - Surveyed and measured the post-monsoon reference level of Yamuna river for replenishment study. Collected river bed material (RBM) samples for grain size distribution analysis and also observed the bulk density which varied from 1387 to 1566 kg/m<sup>3</sup>. The expansion factor of river sand varied from 1.35 to 1.55.

- Soil respiration rate at Chunakhala restored mine area varied between 1.45 and 5.38  $\mu\text{mol m}^{-2} \text{sec}^{-1}$  whereas it was between 0.3 and 6.39  $\mu\text{mol m}^{-2} \text{sec}^{-1}$  in Chunakhala natural forest area. The variation may be attributed to soil temperature.
- Two Automatic Water Level Recorders have been installed in H-Flumes at Mussoorie watershed study site for assessment of hydrological services.
- Survey was made to Chakrata, Dhanaulti, Mussoorie and adjoining areas for collection of plant samples under the project "In vitro mass propagation of *Angelica glauca* Edgew. rootlet biomass for the production of bioactive phytocompound/s using bio-inoculation technology". A new distribution site of the endangered plant *Angelica glauca* near George Everest Peak was also recorded.

### Arid Forest Research Institute, Jodhpur

- A number of tree species including *Anogeissus sericea* var. *nummularia*, *Tecomella undulata*, *Prosopis cineraria*,

*Salvadora oleoides*, *Capparis decidua*, etc were recorded for geotagging of species in Jaisalmer district of Rajasthan. Among the species *A. sericea* var. *nummularia*, *T. undulata* and *Maytenus emarginatus* were in flowering condition, while in *Haloxylon salicornicum*, *Ziziphus nummularia* and *Z. mauritiana* fruits setting was observed. At one location, trees of *A. sericea* had stem circumference ranging from 100 cm to 220 cm and height 15 to 40 ft.

- At Sita Mata Wild Life Sanctuary, 10 ha area was finalized for preservation plot. Species diversity was assessed & *Gymnosporia* spp., *Tectona grandis*, *Anogeissus latifolia*, *Helicteres isora*, *Miliusa tomentosa*, *Wrightia tinctoria*, *Terminalia alata*, *Eranthemum roseum*, *Strobilanthus callosus*, *Butea monosperma*, *Peristylus constrictus* (ground orchid) and *Vanda* spp. (epiphytic orchid) were recorded. Rare species, *Kydia calycina* and *Mitragyna parviflora* were also found in preservation plot.

### Consultancy

- ICFRE is presently working under 09 consultancy projects. Following works were carried out during the month of December 2020:
  - Final Annual Report for the Year 2019-20 on Monitoring of Plantations under Accelerated Afforestation Programme of NTPC Ltd, for 10 million trees planted in different seven states of India was submitted to NTPC Ltd.
  - Seventh Report of 3<sup>rd</sup> Party Monitoring of Activities Implemented under CAT Plan of Vishnugad Pipalkoti Hydro electric project in Chamoli district, Uttarkahnd submitted to THDC India Ltd, Rishikesh.

## Webinar/ Seminar/ Meetings

S.No.	Topic	Duration	Beneficiaries
<b>Indian Council of Forestry Research and Education, Dehradun</b>			
1.	2 <sup>nd</sup> meeting on progress of the ICFRE Pensioners Portal	4 December 2020	Scientists and Personnel
2.	3 <sup>rd</sup> meeting on progress of the ICFRE Pensioners Portal	12 December 2020	Scientists and Personnel
<b>Forest Research Institute, Dehradun</b>			
3.	Brainstorming Meeting for Development of Joint programme on Forest Biotechnology	11 December 2020	DBT, GoI, New Delhi and ICFRE
4.	Interactive meet on Opportunities and Prospects for Processing of Wild Fruits at village level	11 December 2020	Director, Uttaranchal Youth & Rural Development Centre (NGO)
5.	Webinar on Modern Trends in Bamboo Taxonomy	18 December 2020	Officials from FRI
			
Webinar on Modern Trends in Bamboo Taxonomy			
<b>Institute Wood Science and Technology, Bengaluru</b>			
6.	Webinar on Forest Dynamics Plots: Tracing the Footprints of Climate Change Impacts through Vegetation	2 December 2020	Research scholars
<b>Himalayan Forest Research Institute, Shima</b>			
7.	Seminar on Managing Forest and Forest Products for Livelihood Support and Economic Growth	2 - 29 December 2020	Scientists, Forest Officers and Technical Officers

**Institute Forest Productivity, Ranchi**

8.	Webinar on <i>Cinnamomum tamala</i> an Important Tree Species for Generating Additional livelihood for the Forest Fringe Villagers	16 December 2020	Scientists, technical staffs of institute along with the officers from State Forest Department Bihar and West Bengal and Professors from Birsa Agricultural University, Ranchi
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**Institute Forest Biodiversity, Hyderabad**

9.	Seminar on Forest Fire: Research and Knowledge Management and Current Scenario in India	16 December 2020	Officials from IFB
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**Trainings**

S.No.	Topic	Duration	Beneficiaries
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**Forest Research Institute, Dehradun**

1.	Forest Fire Monitoring and Damage Assessment	7 and 8 December 2020	IFS officers
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Training on Forest Fire Monitoring and Damage Assessment

**Institute of Forest Genetic and Tree Breeding, Coimbatore**

3.	Development of Tree Rich Biobooster using wood biomass and municipal wastes involving tribes for their livelihood support	23 December 2020	Women Self Help Group (WSHG) from Kondanur village
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**Institute of Wood Science and Technology, Bengaluru**

4.	Integrated Pest and Disease Management in Nurseries, Plantations and Forests	21 and 22 December 2020	IFS officers
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### Tropical Forest Research Institute, Jabalpur

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|----|--|-------------------------|--|
| 5. | Capacity Building on Seed, Plantation and Management Techniques of Commercially Important Tree Species | 8 December 2020         | Forest Officials of Chhattisgarh                                       |
| 6. | Biocontrol of Teak Defoliator and Teak Skeletonizer  | 13 and 15 December 2020 | Front line staff of Forest Division Kathghora and Korba (Chhattisgarh) |

### Arid Forest Research Institute, Jodhpur

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|----|---|------------------------|--|
| 7. | Integrated Approach for Sustainable Development of Fragile Desert Ecosystem | 14 to 18 December 2020 | IFS officers of different state of India |
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### Rain Forest Research Institute, Jorhat

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|-----|--|------------------------|--|
| 8.  | Bamboo Resource Development and Value Addition for Sustained Livelihood" | 7 to 11 December 2020  | IFS officer                            |
| 9.  | Bamboo Charcoal Production & Briquetting                                 | 9 to 12 December 2020  | Villagers and farmers of Karbi Anglong |
| 10. | Agroforestry and Land Use Management                                     | 14 to 18 December 2020 | Officers and Researchers               |



Training on Bamboo Resource Development and Value Addition for Sustained Livelihood"

### Institute Forest Productivity, Ranchi

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| 11. | Advance Training on GIS and Remote Sensing            | 1 to 4 and 7 December 2020 | Scientist and scientific staff of ICFRE institutes |
| 12. | Integrated Pest and Disease Management for Scientists | 8 and 9 December 2020      | Officials from ICFRE Institutes                    |

### Institute Forest Biodiversity, Hyderabad

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|-----|--|------------------|------------------------|
| 13. | Sandalwood Cultivation, Nursery Techniques, Disease & Pest Management, Marketing and Departmental Permission | 28 December 2020 | Farmers from Telangana |
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14.	Red Sanders Cultivation, Nursery Techniques, Disease & Pest Management, Marketing and Departmental Permission	29 December 2020	Farmers from Andhra Pradesh
15.	Importance and Utilization of NTFP & Medicinal Plants	30 December 2020	Farmers from Telangana
16.	Agroforestry models	31 December 2020	Farmers from Andhra Pradesh

### Himalayan Forest Research Institute, Shimla

17.	“चिलगोजा के संरक्षण और इसके स्थायी प्रबंधन की आवश्यकता”	1 and 2 December 2020	Farmers of Kanam Panchyat of Pooh Forest Range, Kinnaur
18.	Propagation and Modern Nursery Techniques of <i>Pinus gerardiana</i> and <i>Ribes</i> spp. (Currents)	19 December 2020	Tribal divisions of Himachal Pradesh



Training on “चिलगोजा के संरक्षण और इसके स्थायी प्रबंधन की आवश्यकता”

### Memorandum of Understanding

ICFRE, Dehradun has signed a MoU with Hemwati Nanadan Bahuguna Garhwal University (Central University), Srinagar on 14 December 2020 through video conferencing for collaboration in the field of forestry research, education and extension.

### HR News

#### Appointment

Name of Officer	Date
Smt. Shruti Godara, Sci-B, RFRI, Jorhat	01.12.2020
Sh. Tatiparthi Srinivas, Sci-B, FRC-CE, Vishakapatnam	07.12.2020
Sh. Sumantra Basu, Sci-B, AFRI, Jodhpur	10.12.2020
Sh. Vishwanath Sharma, Sci-B, RFRI, Jorhat	14.12.2020
Smt. Nibedita Guru, Sci-B, FRI, Dehradun	14.12.2020
Sh. Balaganesh G, Sci-B, FRI, Dehradun	16.12.2020
Sh. Pravin Rawat, Sci-B, HFRI, Shimla	18.12.2020
Sh. Balkrishna Tiwari, Sci-B, HFRI, Shimla	18.12.2020
Sh. Deepak Kumar, Sci-B, AFRI, Jodhpur	18.12.2020
Smt. Bharti Patel, Sci-B, IFB, Hyderabad	22.12.2020
Sh. Blessing Roy Suchiang, Sci-B, IFP, Ranchi	28.12.2020
Sh. Anshuman Das, Sci-B, IFP, Ranchi	29.12.2020
Sh. Suryanarayanmurthy Midde, Sci-B, AFRI, Jodhpur	30.12.2020

#### Repartition

Name of Officer	Date
Sh. Chaturbhuj Behra, IFS, CF, TFRI, Jabalpur	28.12.2020

#### Transfer

Name of Officer	From	To	Date
Dr. Geeta Joshi Scientist -F	TFRI, Jabalpur	ICFRE, Dehradun	16.12.2020

#### Retirements

Name of Officer	Date
Sh. J.M.S. Chauhan, Sci-D, FRI, Dehradun	31.12.2020

#### Patron:

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

#### Editorial Board:

Dr. Sudhir Kumar, DDG(Extn.), Chairman  
Dr. Geeta Joshi, ADG (Media & Extn.), Honorary Editor  
Shri Ramakant Mishra, CTO, (M&Extn.), Member

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