

ICFRE NEWSLETTER



Indian Council of
Forestry Research
and Education

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Azadi Ka Amrit Mahotsav

- FRI, Dehradun organized virtual training on "High-tech Forest Nurseries" for officials of Forest Department, Government of Sri Lanka from 18 to 21 January 2022.
- FRI, Dehradun organized virtual workshop on "Principles and Practices of GC and GC-MS Techniques" on the work designed to facilitate exposure of fundamental and advanced knowledge on analytical practices of GC & GC-MS through theoretical lectures, and live demonstrations on 28 January 2022.
- IWST, Bengaluru organized a webinar on "Electrical Resistance Tomograph: A Technology in deciphering the interiors of standing trees" on 4 January 2022 for Wood based industries, researchers, foresters, architects, wood users and students. About 67 participants attended the programme.
- IWST, Bengaluru organized webinar on "Sustainability, Certification and Legality in Wood Products" on 21 January 2022 for wood based industries, academia and practitioners of forest certification. About 260 participants benefited from the programme.
- Forest Research Centre for Skill Development (FRC-SD), Chhindwara conducted online training programme on "Biodiversity Conservation" on 13 January 2022. B.Sc and M.Sc students of Danielson College, Chhindwara attended the programme.
- FRC-SD, Chhindwara conducted online training programme on the topic "Biodiversity Conservation" on 31 January 2022. B.Sc and M.Sc students of ATASH College of Management & Technology, Pandhurna, Chhindwara attended the programme.
- AFRI Jodhpur organized lecture on the topic "Benefits of Agroforestry in Rajasthan" on 7 January 2022. Scientists, officers, technical staff of AFRI attended the programme.
- HFRI, Shimla, organized a "Bamboo Plantation and Awareness Programme" on 17 January 2022 for the benefit of villagers of Rajhana Panchayat, Shimla, H.P. About 30 farmers participated in the programme and 300 Bamboo seedlings were planted along the banks of the drains near Baragaon and Patti villages of Shimla, H.P.
- IFP, Ranchi distributed and established vermi compost bed with vermi worms to 8 beneficiary of villagers of IFP's Demo Village Kutam under Torpa Block of Khunti district on 12 January 2022.

Virtual Training Programme on **HIGH-TECH FOREST NURSERIES** for Officials of Forest Department, Government of Sri Lanka
18th to 21st January 2022
Organized by:
Forest Research Institute
Indian Council of Forestry Research & Education
(Ministry of Environment, Forest and Climate Change, Government of India)
Dehradun - 248006

FRI, Dehradun organized virtual training on High-tech Forest Nurseries

HFRI, Shimla organized Bamboo Plantation and Awareness Programme

- IFP, Ranchi organized a programme on “Small Scale Industries based on Forest Produces” at IFP's Demo Village Kutam under Torpa Block of Khunti district on 12 January 2022. 30 participants of Kutam village attended the programme.
- IFP, Ranchi organized a programme on “Role of Awareness of community in Afforestation” at village Alankel under Torpa Block of Khunti District on 12 January 2022. 70 participants of Alankel village attended the programme.
- IFP, Ranchi distributed and established vermi compost bed with vermi worms to 9 beneficiaries of villagers of IFP's Demo Village Kutam, Khunti district on 28 January 2022.
- IFB, Hyderabad organized Bird Watching program on 27 January 2022. Officers, scientists and technical staff participated in this program.



IFP, Ranchi distributed and established vermi compost bed with vermi worms



IFB, Hyderabad conducted Bird Watching programme

Establishment of VVK

- IFP, Ranchi established Van Vigyan Kendra (VVK) at Environmental Research Station, Sukna, Darjeeling on 26 January 2022. The programme was inaugurated by the Dr. Nitin Kulkarni, Director.
- IFB, Hyderabad organized VVK-training programmes on "Development of Agroforestry Models" and "Utilization of Medicinal Plants and its importance" through virtual mode on 20 and 21 January 2022. 35 FROs attended this training program.
- Nomenclature updates and description of 30 plant species collected from Tons Forest Division and 20 plant species collected from Bageshwar Forest Division were completed under the projects on Revision of Kanjilal's and Osmaston's Forest Flora respectively.
- *In vitro* α -glucosidase inhibitory (AGI) activity of the extract isolated from *Cupressus torulosa* needles using 25% aqueous methanol was determined. The extract displayed AGI activity comparable to the positive control acarbose.

Significant Research Findings

Forest Research Institute, Dehradun

- Studies on semiochemicals for management of Sal heartwood borer, *Hoplocerambyx spinicornis* are underway. The studies revealed that the trees marked with 1x1 feet blaze during end of June, 2021 were found to be dried due to heavy attack of *Hoplocerambyx spinicornis* beetle with brownish foliage and heavy wood dust at the base.
- *In vivo* anti-inflammatory activity of the fatty oil isolated from the seeds of *Prinsepia utilis* was examined by carrageenan and formalin induced paw edema methods in rats. The oil exhibited significant inhibition of the inflammation after two hours as compared with the control group.
- Total tannin content (TTC) in the *Punica granatum* peels collected from 7 different locations namely Karyali, Chandi, Potter hills, Narag, Balhang, Nadukhar, Dhamsi of Himachal Pradesh was 0.74%, 0.72%, 0.67%, 0.40%, 0.62%, 0.75% and 0.55%, respectively.

Institute of Forest Genetic and Tree Breeding, Coimbatore

IFGTB, Coimbatore launched an Android based Mobile Application Tree Genie and Web portal which was inaugurated by DG, ICFRE during the stakeholders workshop on "Developing and Popularizing Digital Interactive Platform for Tree Growers and other Stakeholders of Tamil Nadu" on 20 January 2022. The programme was also live streamed on social media platform to elicit larger participation and viewership of all stakeholders.

Arid Forest Research Institute, Jodhpur

- Soil-profiling studies have been conducted at AFRI main campus and Ecology Research Field Station on two selected species i.e. *Azadirachta indica* and *Prosopis juliflora*. During soil profiling, three soil layers were found in *A. indica* and four layers were found in *P. juliflora*. pH and EC values of different soil layers in *A. indica* were 8.3 : 0.18 ms; -layer 1, 8 : 0.08 ms; -layer 2 and 8.5 : 0.1 ms -layer 3 respectively. In *P. juliflora*, the values were 7.7 : 0.208 ms; -layer 1, 8.6 : 0.149 ms; -layer 2, 6.5 : 0.156 ms; -layer 3 and 8.1 : 0.346 ms; -layer 4, respectively.
- GIS mapping, documentation of FGR species was carried out at Kherwara, Jhadol, and Kotada tehsils of Udaipur district. A total of 32 sites were visited and 70 FGR species have been recorded. FGR species like *Boswellia serrata*, *Anogeissus latifolia*, *Anogeissus pendula*, *Adina cordifolia*, *Sterculia urens*, *Acacia catechu*, *Mitragyna parviflora*, *Adina Gauruga pinnata*, *Terminalia arjuna*, *Diospyrus melanoxyton* etc have been recorded at different locations.



Regeneration of *Anogeissus latifolia*

Himlayan Forest Research Institute, Shimla

Active ingredient (a.i.) content was the most critical factor for improvement of *Picorhiza kurroa*, *Valeriana jatamansi* and *Sinopodophyllum hexanadrum*. Hence identification of genotype with high a.i. content and stability over environment is of paramount importance. After conducting stability analysis identified the more stable genotypes in case of *P. kurroa* -G7 (IC-0597419, Nandatirth), G6 (IC-0597416, Seri), G4 (IC-0597412, Hudhan bhaturi) and G2 (IC-0597409, Pattal); *V. jatamansi* -G11 (IC-0597433, Rumsu), G7 (IC-0597464, Deha) and G14 (IC-0597441, Tarninalla); *S. hexanadrum* -G2 (IC-0597474, Suralbhaturi) and -G5 (IC-0597501, Kangsar), owing to more stability under different environmental conditions and these could be exploited for releasing as new varieties in future.

Institute of Forest Productivity, Ranchi

- Propagation and proliferation of *Schizostachyum pergracile*, *Gigantochloa atroviolacea* and *Thyrsostachys oliveri* done, rhizome collection of one genotype of *Bambusa balcooa* and 27 rhizome of 3 other bamboo species established at Germplasm bank.
- Four new CPTs of Mahua has been selected and scions were collected from 5 CPTs for grafting in 4 CPTs, grafting success was observed.

Consultancy

Major achievements and works executed during the month:

- Submission of Ninth Six Monthly Third Party Monitoring Report of CAT Plan of VPHEP for the period from April, 2020 to September 2020 to THDC India Ltd.

Two new consultancy projects were awarded to the ICFRE:

- Environmental Audit in respect of Gevra Open Cast project of South Eastern Coalfields Limited (a subsidiary of Coal India Limited), Gevra Area, Korba, Chhattisgarh awarded vide work order dated 11 January 2022.
- Preparation of 'Reclamation and Rehabilitation Works (R&R)' carried out at Jambunathanahalli Iron Ore Mines (JIOM), (ML No. 1659) of Karnataka State Minerals Corporation Limited, JIOM vide work order dated 17 January 2022.

Webinars/Seminars/Meetings

S.No.	Topic	Duration	Beneficiaries
Arid Forest Research Institute, Jodhpur			
1.	Seminar on Assessment of Clonal Fidelity of Forest Trees – A Molecular Cytogenetics Approach	5 January 2022	Scientists, officers, technical staff of AFRI
2.	Seminar on Forest Ecosystem-The web of life	18 January 2022	Scientists, officers, technical staff of AFRI
Tropical Forest Research Institute, Jabalpur			
3.	Webinar on Zero Budget Natural Farming	7 January 2022	Scientists, technical officers, research scholars and JRF
Institute of Wood Science and Technology, Bengaluru			
4.	Meeting on Preparation of Goa Working Plan	17 January 2022	Goa Forest Officials, subject experts, officials from forest departments of other states
Himalayan Forest Research Institute, Shimla			
5.	Webinar on Guidelines and procedures for clone/ variety release of forestry species	6 January 2022	Scientists/academician, officers and research scholars of the ICFRE institutes and other organizations
Rain Forest Research Institute, Jorhat			
6.	Workshop on Artificial Induction on Agarwood in <i>Aquilaria malaccensis</i>	20 January 2022	-



Seminar on Assessment of Clonal Fidelity of Forest Trees – A Molecular Cytogenetics Approach at AFRI, Jodhpur



Workshop on Artificial Induction on Agarwood in *Aquilaria malaccensis* at RFRI, Jorhat

Training Programmes

Forest Research Institute, Dehradun

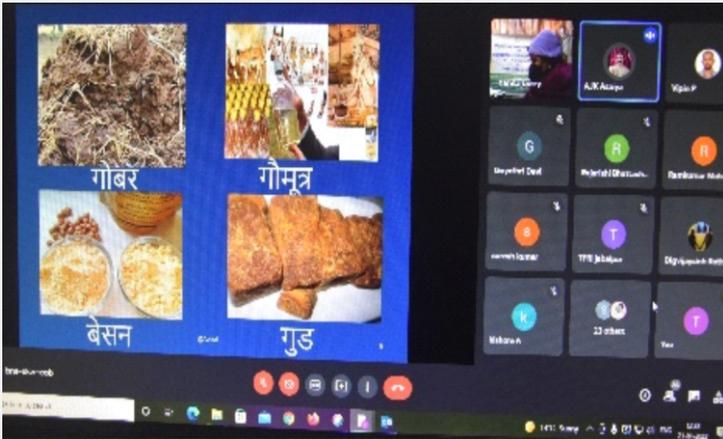
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|----|--|-----------------|---|
| 1. | भीमल (<i>Grewia optiva</i>) रेशा निकालने की उन्नत तकनीकी | 27 January 2022 | - |
|----|--|-----------------|---|

Tropical Forest Research Institute, Jabalpur

- | | | | |
|----|--|-----------------------|--|
| 2. | Plant Biotechnology | 5 and 6 January 2022 | Scientists, foresters, academicians and students |
| 3. | Nursery development and vegetative propagation | 17 to 21 January 2022 | ICFRE Technical Staff |

Rain Forest Research Institute, Jorhat

- | | | | |
|----|---|-----------------------|---|
| 4. | Bamboo Shoot Processing and Value Addition | 3 to 5 January 2022 | Unemployed youth and women from different district of Assam |
| 5. | Agarwood cultivation and Artificial Inoculation | 10 to 12 January 2022 | - |



Training on Nursery development and vegetative propagation by TFRI, Jabalpur



Training on Bamboo Shoot Processing and Value Addition at RFRI, Jorhat

Prakriti Programme

Representative of TFRI, Jabalpur demonstrated botanical garden to students from Jawahar Navodaya Vidhyalaya, Bargi Nagar and KV, TFRI on 5 January 2022.

Demonstration Programme

- TFRI, Jabalpur organized demonstrations of agroforestry systems and bamboo plantations to a group of Range Officers of Kundalpur Forest Ranger College, Maharashtra on 7 January 2022.

- Research and development activities of RFRI, Jorhat viz., Bamboo Cultivation, Propagation, Nursery Management, Value addition & Bamboo Preservation Techniques, Biotechnology and Tissue Culture, Lac Cultivation, Botanical Garden,



Demonstration programme at TFRI, Jabalpur

Orchidarium, Vermicomposting etc. demonstrated on 20 January 2022. Post Graduate Diploma students from IIFM, Bhopal attended the programme.



Demonstration programme at RFRI, Jorhat

Miscellaneous

RFRI, Jorhat and IFP, Ranchi celebrated the Vishwa Hindi Diwas on 10 January 2022.



RFRI, Jorhat celebrated Vishwa Hindi Diwas

HR News

Retirements

Name of Officer	Date
Dr. K.T. Chandrashekar, CTO, IWST, Bengaluru	31.01.2022
Shri S.K. Rawat, ACTO, NFH, FRI, Dehradun	31.01.2022

Repatriation

Name of Officer	Date
Shri Rajesh Gopalan, IFS (OR:2001) CF, IFGTB, Coimbatore	31.01.2022

Popularizing through all India Radio

Representatives of FRI, Dehradun delivered Radio talk as follows:

- "मालाबार नीम की नर्सरी, रोपण एवं कृषि वानिकी मे उपयोगिता" on 13 January 2022.
- औद्योगिक उपयोग के लिए कम लोकप्रिय/ज्ञात वन पौधों की खोज" on 25 January 2022.

Patron:

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

Editorial Board:

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

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