

ICFRE-RFRI NEWSLETTER



Vol-2
Issue-1
January-March
2024



From the Director's Desk



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ICFRE-Rain Forest Research Institute (ICFRE-RFRI) is one of the nine Research Institutes of Indian Council of Forestry Research and Education (ICFRE) which is an autonomous body under the Ministry of Environment, Forest and Climate Change, Government of India and is premier research organisation in the National Forestry Research System.

The institute along with its two satellite centres- ICFRE-Bamboo and Rattan Centre (ICFRE-BRC), Aizawl and ICFRE- Livelihood Extension Centre (ICFRE-LEC), Agartala has established themselves as a major centre for research on forestry & ecology related issues to extend knowledge through research, education and extension in general and to support forestry research in North Eastern states.

I take pride on this momentous occasion unveiling the 2nd issue (January-March, 2024) of the ICFRE-RFRI, newsletter showcasing different research activities, events organized, participated, publications made during this period of ICFRE-RFRI, Jorhat.

I hope that the ICFRE-RFRI Newsletter will serve as a beacon of information on institutional research and extension activities and will be helpful for researchers, stakeholders and policy planners concerned with forestry research.



Dr. Nitin Kulkarni
Director, ICFRE-RFRI, JORHAT





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Significant Research Achievements

ICFRE-RFRI, Jorhat recorded a total of 1775 individual Pollinator insects belonging to 129 species (Lepidoptera- 124, Hymenoptera - 3 and Diptera - 2) from Dihing Patkai National Park, Assam.



Photo : *Leptotes plinius*



Photo : *Graphium xenocles*

ICFRE-RFRI completed preparation of the soil health card of 33 Forest Divisions of Assam under the project AICRP-22. The pre-release consultation with the senior forest officers in the presence of the PCCF and HoFF, Department of Environment and Forest, Govt. of Assam was held and approval was obtained with some suggestions. The project is being handled by Shri D.K. Meena, Scientist - D, ICFRE-RFRI, Jorhat, as Principal Investigator of the institute.

ভৌগোলিক বিবরণ/PHYSIOGRAPHIC DETAILS	
বিষ্ণু-স্থানাঙ্ক /Geo-Coordinates (Extent)	26.4249 - 26.638 N 90.8522 - 91.7886 E
নমুনা সংগ্রহের সময় /Sampling Period	আগস্ট, ২০২১ August, 2021
উচ্চতা /Altitude (m)	43 - 278
দিশ /Aspect (Degree)	17 - 280
একাতীতা /Slope (Degree)	1 - 10
শিলাচ্ছায়া /Hillshade (Degree)	157 - 200
অরণ্য প্রকার /Forest Type	গোষ্ঠী-১: ব্রীজসহজীবী বনাঞ্চল Group1: Tropical Wet Evergreen Forests
অরণ্য শ্রেণী /Forest Class	VDF, MDF, OF, SF, NF

অরণ্য প্রকারভেদে প্রাণীজাতিক প্রজাতি/FOREST COVER CLASS WISE SPECIES	
অরণ্য শ্রেণী/FOREST CLASS	সাধারণ নাম/COMMON NAME
খুব ঘন অরণ্য/ Very Dense Forest (VDF)	বাহাণ্ডা, কান্চান, মর্সাল, ওদাল, ওকাই Bahat, Kanchan, Morsal, Odal, Okahi
মধ্যমীয়া ঘন অরণ্য/ Moderately Dense Forest (MDF)	সেগুন, ভলুকা বাঁহ, খাইর Segun, Bholuka-Banb, Khair
মুক / মুকুলি অরণ্য/ Open Forest (OF)	শিলিবা, আম, কঁঠাল, জাম্বোল পাত, জাতি বাঁহ Xiliba, Aam, Kothal, Tamul goch, Jati-banb
জোখোখো অরণ্য/ Scrub Forest (SF)	মুখা বন, গু-বন, কোলা-কোলা Mutha bon, Gu-bon, Kola-kosu
অরণ্যহীন / Non Forest (NF)	জাম্বোল পাত Tamul goch



Significant Research Achievements

Coal mine reclamation potential of 14 species of bamboos viz *Bambusa nutans*, *B. tulda*, *B. bambos*, *B. pallida*, *B. vulgaris*, *B. multiplex*, *Dendrocalamus hamiltonii*, *D. strictus*, *D. longispathus*, *Guadua angustifolia*, *Schizostachyum dullooa*, *Melocanna baccifera* and *Pseudosasa japonica* were evaluated under an *All India Coordinated Research Project*.



Photo : Bamboo saplings in coal mine area at Ledo, Tinsukia, Assam

The nursery techniques was optimised for some selected plant species, being investigated as the Forest Genetic Resource species viz. *Phoebe goalparensis*, *Morus laevigata*, *Shorea assamica* and *Litsea cubeba*.



Phoebe goalparensis



Shorea assamica



Morus laevigata



Workshops/Seminars/Meetings/Trainings



A five-days Hindi Workshop was organized for 10 selected employees of the institute from 29th December, 2023 to 4th January, 2024 on the “Kanthastha 2.0” application (theoretical and practical).



A Training workshop for 13 IFS officer from 9 different states was organized on “Role of Forestry for Sustainable Development of People” was organized from 3rd - 5th January, 2024, which was inaugurated by the Director, ICFRE-RFRI, Jorhat.

Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat, visited ICFRE-Livelihood Extension Center (LEC), Agartala on 17th January, 2024, and reviewed various research projects and extension activities for the centre. He also visited the bamboo nursery, Agar inoculation site and other facilities viz., biochar pyrolysis unit and Bamboo VPI Machine installed at the Centre.



RESEARCH DIVISION
Agro Forestry Model
Species Application: Karai/Butea
Site of application
1. Agar (Agroforestry) 200 x 200
2. Butea (Agroforestry) 200 x 200
3. Butea (Agroforestry) 200 x 200
4. Butea (Agroforestry) 200 x 200
5. Butea (Agroforestry) 200 x 200
6. Butea (Agroforestry) 200 x 200
7. Butea (Agroforestry) 200 x 200
8. Butea (Agroforestry) 200 x 200
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13. Butea (Agroforestry) 200 x 200
14. Butea (Agroforestry) 200 x 200
15. Butea (Agroforestry) 200 x 200
16. Butea (Agroforestry) 200 x 200
17. Butea (Agroforestry) 200 x 200
18. Butea (Agroforestry) 200 x 200
19. Butea (Agroforestry) 200 x 200
20. Butea (Agroforestry) 200 x 200



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ICFRE-RFRI, Jorhat organized a weeklong Skill Development Training on “Propagation, Nursery Management, Cultivation and Value Addition of Bamboos” at ICFRE-RFRI, Jorhat from 22nd to 27th January, 2024 participated by 19 trainees from different states of the country. The training included bamboo charcoal making, Commercial Cultivation, Preservation Treatments, Practical Demonstration of Bamboo Propagation and Nursery Techniques etc. by Shri R.K. Kalita scientist - F Dr. R.D. Borthakur, CTO, Shri Kumud Borah, STO and Shri Debojit Neog, STO.



A self-sponsored Skill Development Training on Agarwood cultivation and artificial inoculation at ICFRE-RFRI, Jorhat was organized from 30th January 2024 to 1st February, 2024 for seven trainees from different states like Assam, Bihar, Sikkim and Tripura. It covered topics like nursery and cultivation management artificial inoculation, legal requirements for cultivation and export of Agarwood and Agar oil extraction along with a Field visits to agar plantations and distillation unit at Naharani area of Golaghat District during the training.

Trees are poems that the Earth writes upon the sky. (Khalil Gibran)



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Certificates were also distributed to the participants in the Valedictory session. Shri R.K. Kalita, Head, Extension division, ICFRE-RFRI, Jorhat, meticulously planned and executed the training programme.



Two-days Skill Development Training on “Forest Based Livelihood Opportunities” was organized at Northern Range, Salona in association with Nagaon Territorial Forest Division from 19th to 20th February, 2024. Shri R.K.Kalita, Scientist - F & Head, Extension Division, Dr. R.D.Borthakur, CTO and Shri Kumud Bora, STO of the ICFRE-RFRI, Jorhat played a major role in imparting the training.



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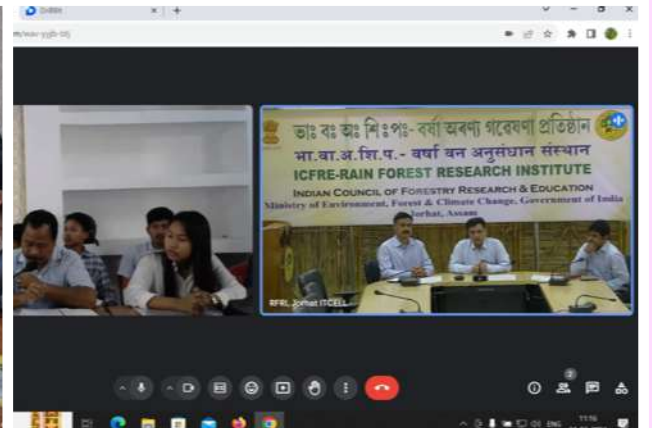
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ICFRE-RFRI, Jorhat organized a two numbers of day-long Skill Development Training on “Mushroom Cultivation” in its Demo Village, Charingia, Jorhat from 22nd to 23rd February, 2024. The training, inaugurated by Dr. Nitin Kulkarni, Director, was coordinated by Shri R.K. Kalita, Head, Extension Division of the institute. Dr. Trishnali Saikia, Scientist, K.V.K. Jorhat was the resource person. Shri D.P. Borah, TO; Shri N.C. Das, TO and Shri Mridul Saikia, Sr. Technician of ICFRE-RFRI, Jorhat assisted during the training.



The Skill Development Training under CAMPA Extension for twenty farmers and youth was organized on Cultivation and Management of Agar at ICFRE-LEC, Agartala from 11th to 12th March, 2024 which was virtually inaugurated by Dr. Nitin Kulkarni, Director. Shri R.K. Kalita, Head, ICFRE-LEC, Agartala also spoke on the occasion. Dr. Satyam Bordoloi, Scientist - E & Head, Genetics & Tree Improvement Division, and Dr. R.K. Borah, Scientist - G were the resource persons. The programme was conducted by Shri Ajoy debbarma, Scientist - B, ICFRE-LEC conducted the program with the help of Shri Niren Das, CTO, ICFRE-LEC and others.





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A training programme on low cost vermicomposting techniques was organized on 14th March, 2024 by the ICFRE- Livelihood Extension Centre (ICFRE-LEC) Agartala for Livelihood generation at Takarjala, Sepahijala district of Tripura for 25 unemployed tribal women. Shri Niren Das, Assistant Chief Technical Officer ICFRE-LEC, Agartala was the key person as organizer and the resource person.



ICFRE-RFRI, Jorhat organized a Hindi training workshop on “Kanthastha 2.0” software on 18th March, 2024, for 10 selected participants. Dr. Nitin Kulkarni, Director of the institute inaugurated the training and distributed certificates to the trainees in the valedictory session. Dr. Vishwanath Sharma, Scientist - C and Hindi Nodal

Officer, Hindi Cell gave a brief introduction of Kanthastha 2.0 edition. Mr. Shankar Shaw, Junior Translation Officer of the institute sensitised and trained all the participants about the Kanthastha 2.0 software and its mobile app.



The Hindi cell of the institute led by Dr. Vishwanath Sharma, Scientist - C & Hindi Officer and Shri Shankar Shaw, Junior Translation Officer, of the institute organized a meeting of the Quarterly Official Language Implementation Committee under the chairmanship of Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat on 27th March, 2024.



Demostration Programmes



ICFRE-RFRI, Jorhat organized an Awareness Programme on “Prevention of Sexual Harassment of Women at Work Place” on 1st January, 2024. Dr. Aditi Bezbaruah, Rtd. HoD, Department of Physics, Jorhat Engineering College and Ms. Payal Ghosh, Advocate, Jorhat were the resource persons, who explained various aspects related to the issue. Ms. Ghosh who joined through virtual mode spoke in details about the Act of 1997 and the Guidelines. Fifty staff of ICFRE-RFRI, Jorhat attended the programme, which was chaired by the Director, Dr. Nitin Kulkarni. The programme was coordinated by Mrs. Nibedita Guru, Scientist - C and Chairperson, Sexual Harassment Cell of the institute.

ICFRE-RFRI, Jorhat showcased its research and development activities, viz. bamboo cultivation, propagation, nursery management, value addition and bamboo preservation techniques, biotechnology and tissue culture, identification of wild edible mushroom, lac cultivation and vermicomposting and agar plantation to the students and faculties of different schools visited during the month of January, 2024.



Thirty one students from Welborn Public School, Sonari, Charadideo district of Assam visited ICFRE-RFRI, Jorhat on 2nd January, 2024.



Fifty seven students and teachers from three different schools of Charaideo district, Assam under the government scheme “Beti Bachao Beti Padhao” visited ICFRE-RFRI, Jorhat on 3rd January, 2024.



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Forty one students and teachers from Geleky Jatiya Vidyalaya, Geleky, Sivagar, Assam visited ICFRE-RFRI, Jorhat on 11th January, 2024.



A team of 88 students and teachers from Gyandeeep Jatiya Vidyalaya, Titabor, Jorhat, Assam visited ICFRE-RFRI, Jorhat on 12th January, 2024.



A team of 450 students from Jorhat Govt. Girls' H.S. School, Jorhat visited ICFRE-RFRI, Jorhat on 24th January, 2024.



A team of 350 students from Chandra Kamal Bezbaruah High School, Boloma Jorhat and Padmaram Sarma HS School, Titabor, Jorhat under Rashtriya Aviskar Abhiyaan, visited ICFRE-RFRI, Jorhat on 25th January, 2024.



Forty students from Railway LP School, Mariani, Jorhat visited ICFRE-RFRI, Jorhat on 31st January, 2024.



Bamboo farmers and Entrepreneurs from Gujrat and Maharashtra visited ICFRE-BRC, Aizawl during 30th to 31st January, 2024.

Memorandum of Understanding(MoU)

A Memorandum of Understanding (MoU) was signed with CSB-Central Muga Eri Research and Training Institute (CMERTI), Jorhat (Assam) on 28th February, 2024 at Bharat Mandapam, New Delhi as part of the ongoing Bharat Tex 2024 and on the sidelines of an

International Conference on Global Scenario and Sustainable Solutions in the Silk Industry. The MoU signing ceremony was chaired by Smt. Darshana Jardosh,

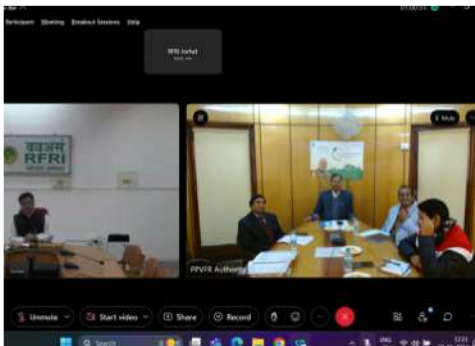


Hon'ble Minister of State for Textiles, Govt. of India, on behalf of ICFRE-RFRI, Jorhat, was represented Dr. Nitin Kulkarni, Director and on behalf of CSB-CMERTI, Dr. K.M. Vijaya Kumari, Director signed the MoU. Dr. Satyam Bordoloi, Scientist - E and Head, Genetics & Tree Improvement Division, ICFRE-RFRI, Jorhat and other senior scientists from CSB-CMERTI were also present. The occasion was graced by

senior officials of the Central Silk Board along with P. Sivakumar, IFS, CEO & Member Secretary, CSB and other senior Secretaries of the Textile Ministry and Dignitaries from several countries.



Participation from ICFRE-RFRI in Seminars/Workshops/Meetings/Trainings



A virtual meeting with the Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA), Ministry of Agriculture and Farmers Welfare, Government of India on 3rd January, 2024 to discuss the prospects of collaborations. The meeting was attended by Dr. Nitin Kulkarni, Director and Dr. Satyam Bordoloi, Scientist - E &

Head, Genetics & Tree Improvement Division, from ICFRE-RFRI, Jorhat, Chaired by Dr. Trilochan Mohapatra, Chairman in presence of Dr. Dinesh Kumar Agarwal, Registrar General and Dr. Ravi Prakash, Technical Consultant, from PPV&FRA, New Delhi.

Dr. Nitin Kulkarni, Director, ICFRE-Jorhat attended the Board of Governors (BoG) meeting of State Medicinal Plant Board (SMPB) in Assam Secretariat at Guwahati on 5th January, 2024. The meeting was Chaired by Shri Chandra Mohan Patowary, the Hon'ble Minister of Forests, Govt. of Assam, attended by all senior administrators of Govt. of Assam, including the Member-Secretary and Convener, SMPB, Shri Ramesh Kumar, IFS, APCCF.



Shri Kumud Borah, STO and Shri Deboji Neog, STO of ICFRE-RFRI, Jorhat imparted training on propagation, nursery management and commercial cultivation of bamboo at Balijan, Tinsukia, Assam from 9th to 11th January, 2024 organized by Schoolnet in collaboration with Oil India Ltd, Tinsukia.





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Dr. R.K. Borah, Scientist - G & Group Coordinator (Research) and Dr. Satyam Bordoloi, Scientist - E & Head, Genetics and Tree Improvement Division attended a capacity building workshop on “Roles and Responsibilities of Indian CITES Scientific Authorities on CITES Implementation” organized by Ministry of Environment, Forest and Climate Change, Govt. of India and hosted by Zoological Survey of India on 8th January, 2024 held in Taj City Centre, New Town, Kolkata.



Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat along with Shri Ajoy Debbarma, Scientist-B, FRC-LEC, Agartala had a meeting with Dr. Avinash Kanfode, IFS, PCCF & HoFF, Tripura on 17th January, 2024 and discussed on the future prospects of collaboration with the Forest Department on forestry research and extension for the state of Tripura. He also met Shri Pravin Agarwal, IFS, PCCF & CWLC and Director, NTFP Centre of Excellence, Tripura and discussed the possibility of commercialization of Agar inoculum in collaboration with the Forest Department, Tripura. This was followed by a meeting with Shri C.K. Jamatia, IAS, CEO, Tripura Tribal Areas Autonomous District Council (TTAADC) and had a discussion on the extension of ICFRE-RFRI technologies in the area of bamboo cultivation and value addition and Agar-based agroforestry.



Shri R.K. Kalita, Scientist - F and Shri Debojit Neog, STO of ICFRE-RFRI, Jorhat imparted training on propagation, nursery management and commercial cultivations of bamboo at Bijoy Laxmi M.E. School, Daisajan, Doomdooma, Tinsukia, (Assam) during 18th to 21st January, 2024. The training was organized by Schoolnet in collaboration with Oil India Ltd. for twenty farmers of the locality.



Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat attended the Meeting of High-Powered Steering Committee of National Institute of Research and Application of National Resources to Transform, Adapt and Build Resilience (NIRANTAR) chaired by the Hon'ble Minister of Environment and Forests, Govt. of India, in MOEF&CC at New Delhi on 30th January, 2024.

Dr. Dhruva Jyoti Das, Scientist - F, Shri Imotemso Ao, IFS, DCF and Dr. Karma Gyalpo Bhutia, Scientist - B of ICFRE-RFRI, Jorhat attended the training on “Advanced remote sensing techniques for forestry applications” for IFS officers and scientists of ICFRE held at Regional Remote Sensing Centre (RRSC) North, New Delhi during 29 to 30 January, 2024.



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Shri Niren Das, ACTO of ICFRE-Livelihood Extension Center (ICFRE-LEC), Agartala attended the Regional Advisory Committee (RAC) Meeting for Off-farm Sector organized by NABARD at Agartala on 6th February, 2024.



Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat attended the Second Regional Consultation Meeting of National Biodiversity Strategies and Action Plans (NBSAPs) and National Biodiversity Targets (NBTs) in alignment with the Kunming- Montreal Global Biodiversity Framework (KMGBF) as a panellist,

organized by National Biodiversity Authority (NBA) and MoEF&CC, Govt. of India held at Kaziranga National Park, Kohora, Assam from 6 to 7 February, 2024.

Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat, along with Dr. R.K. Borah, Group Coordinator (Research), all Heads of the Divisions, Scientists, officers up to ACTOs attended the XXIV Research Policy Committee (RPC) meeting of ICFRE online from 8th to 9th February, 2024 at ICFRE-RFRI, Jorhat. Two projects of ICFRE-RFRI have been approved by RPC and one project approved for external funding from Ministry of Ayush.

Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat attended the National Seminar on “Big Canvas for Innovation and Entrepreneurship”: The Brush strokes of Growth and Transformation NSBCIE- 2024 as a Guest of Honour held at Jorhat Kendriya Mahavidyalaya from 9th to 10th February, 2024.



Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat attended the “Bhoomi Pujan” ceremony for construction of Hi-Tech Nursery to be established under the auspices of the USAID-MoEFCC - Trees Outside Forests in India, at Kakojan Tea Estate, Jorhat as an invited Guest on 20th February, 2024.



Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat attended the Valedictory Session of the ICAR sponsored 10 days course on “Value Chain Management of Phytomicrobiome for Sustaining Crop Health” as the Chief Guest on 10th February, 2024 held at Assam Agricultural University, Jorhat from 1st to 10th February, 2024.



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Dr. D.J. Das, Scientist - F, ICFRE-RFRI, Jorhat had participated and delivered a speech in the day-long workshop on “Sustaining the Himalayan Landscapes: Challenges and Priorities for North East Himalaya” on 22nd February, 2024 at Murti, Jalpaiguri, West Bengal, jointly organized by G.B. Pant National Institute of Himalayan Environment, Sikkim and Indian Regional Association for Landscape Ecology (IRALE).

Dr. Prosanta Hazarika, CTO, ICFRE-RFRI, Jorhat delivered a special talk on “Propagation indigenous technologies for Vikasit Bharat: Looking in the context of Assam” at Kakojan College, Jorhat on 28th February, 2024 on the occasion of National Science Day Celebration.



Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat participated in a Brainstorming Workshop on “Challenges and Opportunities in Muga and Eri Culture” at the Hotel Clubway Grand, Jorhat as a part of the platinum jubilee celebration of Central Silk Board as the Chief Guest on 12th March, 2024. The workshop highlighted the importance of grading, marketing and preservation of Eri pupae.

Shri R.K. Kalita, Scientist - F, ICFRE-RFRI, Jorhat participated in the inaugural session of the two-days long National Seminar on Environment, Sustainable Development and Gender in NE India: Issues and Challenges at Kakojan College, Jorhat on 14th March, 2024. He also chaired and conducted the first Technical Session.



Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat participated the meeting chaired by Director General of Forests & Special Secretary to MoEF&CC, Govt. of India held at Indira Paryavaran Bhawan, New Delhi organized by MoEF&CC (Forest Protection Division) Govt. of India on 14 March, 2024. The agenda of the meeting was on “Encroachment in North-Eastern states and National Transit Pass System (NTPS)”.



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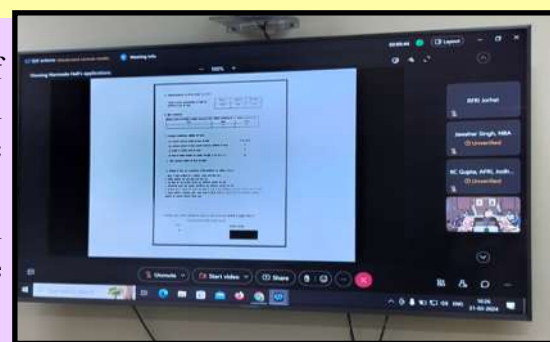


Dr. R.K. Borah, Scientist - G and Dr. Satyam Bordoloi, Scientist - E, ICFRE-RFRI, Jorhat attended an interaction meeting between High Commission of India, Kuala Lumpur and the Inter-Ministerial Taskforce for Agarwood on virtual mode on behalf of ICFRE as members of Taskforce on 20th March, 2024.



Shri R.K. Kalita, Scientist - F, ICFRE-RFRI Jorhat delivered a special talk to the students and teachers of Biswanath College of Agriculture, Biswanatah Chariali (Assam) on Forest based Entrepreneurship Development for Livelihood Generation on 21st March, 2024 and sensitized them on a wide range of applications of bamboo, agarwood, lac, broom grass, rattan etc.

A Hindi Workshop was organized by the Ministry of Environment, Forest and Climate Change in virtual mode on 21st March, 2024 at 3pm. to give information on the topic “ How to fill the proforma of quarterly progress report”. Dr. Vishwanath Sharma, Scientist - C & Hindi Officer and Shri Shankar Shaw, Junior Translation Officer participated in the workshop.



Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat participated in the 43rd Research Advisory Committee Meeting at Central Muga Eri Research & Training Institute (CMER & TI), Lahdoigarh as a member of the committee organized by CMER & TI, Lahdoigarh, Jorhat, Assam on 22nd March, 2024.



In the 41st meeting organized by the City Official Language Implementation Committee (COLIC), Jorhat on 22nd March, 2024, Dr. Vishwanath Sharma, Scientist - C & Hindi Officer and Shri Shankar Shaw, Junior Translation Officer participated on behalf of Member Office, ICFRE- RFRI, Jorhat.

All new scientist members of the institute, namely Ms. Muna Tamang, Ms. Mitali Mehta, Shri Angshuman Patel, Shri Rakesh Kr. Prajapat, Ms. Tara Kumari, Ms. Shahina N N, Shri Amitabha Roy, Ms. Rekha Mahato, Shri Subhaprada Behera and Arun Sukumaran of ICFRE-RFRI, attended the 12 weeks induction training for newly recruited scientists of Indian Council of Forestry Research & Education (ICFRE), from 1st January to 24th March, 2024, organized by Forest Research Institute (Deemed to be University), Dehradun.



KISAAN MELA

ICFRE-RFRI participated in the “Krishok Mela” organized by Krishi Vigyan Kendra (KVK), Jorhat, Assam Agricultural University, Jorhat, situated at Kaliapani, Teok, Jorhat on 9th January, 2024. Shri Bibhuti Deka, CTO, Shri N.C. Das, TO, Shri Akshay Mishra, TA and Shri Dulal Ch. Borah represented the institute. Research and developmental activities of the institute were showcased at the exhibition stall. Around two hundred people visited the stall, including Shri Rupjyoti Kurmi, Hon. Member of Legislative Assembly, Mariani and other high level officials of Assam Agriculture University, Jorhat.



ICFRE-RFRI, Jorhat participated in the Farmers' Fair organized by Assam Agriculture University, Jorhat on 20th January, 2024. Many people visited the ICFRE-RFRI Stall and interacted with officials. Dr. R.D. Borthakur, CTO; Shri N.C. Das, TO; Shri Kumud Bora, STO; Ms. Kajal Gupta and Ms. Progati Borah represented the institute.

Great Quotes

“What is the use of a house if you haven't got a tolerable planet to put it on?”

Henry David Thoreau

“We still do not know one thousand of one percent of what nature has revealed to us.

Albert Einstein

“I firmly believe nature brings solace in all troubles.

Anne Frank



TREE GROWERS' MELA

ICFRE-RFRI, Jorhat organized "Tree Growers' Mela" sponsored by Compensatory Afforestation Fund Management and Planning Authority (CAMPA), from 7th to 8th March, 2024. Two-days event was inaugurated



by Mrs. Kanchan Devi, IFS, Director General, ICFRE, Dehradun as the Chief Guest in the inaugural session. Dr. K.M. Vijaya Kumari, Director, CEME & RTI, Jorhat and Dr. R.S.C. Jayaraj, Ex-PCCF, Andaman and Ex-Director, ICFRE-RFRI also graced the occasion as Guests of Honour. Dignitaries released the Souvenir of the Mela and Varsharanyam, the ICFRE-RFRI's bi-lingual E-magazine. Three entrepreneurs associated with the institute, namely Shri Dipok Gogoi, Jorhat; Smt. Raziya Rahman, Jorhat and M/s Chroma Biotech LLP, Dibrugarh were felicitated during the inaugural Session for promoting institute's technologies. Shri Rajib Kumar Kalita was the Organizing secretary of Tree Growers' Mela, ICFRE-RFRI, Jorhat. On the first day, it was attended by more than five hundred participants that included Farmers, Tree Growers, JFMC Members, Forest Officials, Students, Delegates, SHG members, NGO members, Members from ATMA, ASRLIM, Villagers of ICFRE-RFRI Demo Village etc. Alongside the main function, Mrs. Kanchan Devi, DG, ICFRE, Dehradun also inaugurated the exhibition, which was attended by more than twenty institutions, NGO, Entrepreneurs etc. participated in the exhibition.

SNAPSHOTS FROM TREE GROWERS' MELA





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Activities under Van Vigyan Kendras (VVKs)



ICFRE- Bamboo and Rattan Centre (ICFRE-BRC), Aizawl conducted three-days skill development training under Van Vigyan Kendra, Mizoram on Bamboo & Rattan handicrafts during 5th to 7th February, 2024. Twenty farmers of Bethlehem Vengthlang and Armed Veng, Aizawl participated in the training.

ICFRE-RFRI, Jorhat conducted two-days skill development training on “Forest Based Livelihood Opportunities” at Krishi Vigyan Kendra, Dibrugarh, (Assam) under Van Vigyan Kendra Program of ICFRE-RFRI, Jorhat during 12th to 13th February, 2024. It was conducted in association with KVK, Dibrugarh and Dibrugarh Forest Division, Dibrugarh. Shri R.K. Kalita, Scientist - F, Dr. Prasun Karmakar, Scientist - B and Shri Kumud Borah, STO of ICFRE-RFRI Jorhat imparted the training.

Three days hands-on training under Van Vigyan Kendra, Mizoram on Mushroom cultivation organized by ICFRE-Bamboo and Rattan Centre, Aizawl during 14th to 16th February, 2024. Twenty Four farmers of Bethlehem Vengthlang and Armed Veng, South Aizawl.



ICFRE-Bamboo and Rattan Centre (ICFRE-BRC), Aizawl in collaboration with Orchid Society of Mizoram organized a three-days hands-on training programme cum exhibition under Van Vigyan Kendra on Livelihood opportunities during 26th to 28th March, 2024. Shri Ashok Kumar Biswal, IFS, PCCF, Govt. of Mizoram attended the inaugural session of the training as Chief Guest.





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Visit of Dignitaries/Guests

Three visitors; Dr. Md. Khairul Alam, Former Chief Research Officer, Bangladesh Forest Research Institute, Chittagong, Bangladesh; Md. Farid Uddin Ahmed, Former Member Director (NRM), Bangladesh Agricultural Research Council and Former Executive Director, Arannayk Foundation and Md. Jahangir Alam, Former Research Officer, Bangladesh Forest Research Institute, Chittagong, Bangladesh visited ICFRE-ICFRE, Jorhat on 26th February, 2024, and met with Dr. Nitin Kulkarni, Director.



Mrs. Kanchan Devi, IFS, Director General, ICFRE, Dehradun paid her maiden visit to ICFRE-RFRI, Jorhat from 5 to 8 March, 2024. She was given rousing welcome by all officials of the Institute. She inaugurated Tree Growers' Mela on 7 March, 2024. She also reviewed research and development activities of the Institute.





Special Day Celebrations



75th Republic Day was celebrated with pomp and gaiety. Dr. Nitin Kulkarni, Director, unfurled the National Tricolour and spoke on the occasion. He offered his rich tribute to the heroes of Indian Freedom Movement and also the makers of the Indian Constitution. On this auspicious occasion two Officials of the Institute, namely, Mrs. Ellora Dutta Borah, CTO and Dr. Girish Gogoi, STO were presented with *ICFRE Outstanding Employee Award* by the Director, in presence of all the employees. ICFRE-RFRI's Quarterly Newsletter was also released on this occasion.



ICFRE-Bamboo & Rattan Center (ICFRE-BRC), Aizawl also celebrated the 75th Republic Day.



ICFRE-Livelihood Extension Center (ICFRE-LEC), Agartala also celebrated the 75th Republic Day.



National Science Day (NSD) was observed by paying floral tribute to Sir C.V. Raman on 28th February, 2024 with participation of the students of Jawahar Navodaya Vidyalaya (JNV), Dibrugarh also participated in the observance of National Science Day. Dr. R.K. Borah, Group Coordinator (Research) and Shri R.K. Kalita, Scientist - F & Head, Extension Division expressed their views on the occasion.



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International Women's Day was celebrated on 8th March, 2024 with fervour and gaiety, which was attended by the Director of the institute along with Scientists, Officers, Supporting Staff, Administrative staff, Research Fellows, all women residents of the institute campus. Many women participants spoke on the occasion.



ICFRE-RFRI, Jorhat celebrated the International Day of Forests - 2024 on 21st March, 2024, on the theme *Forests and Innovation- New Solution for a Better World*. The 1st issue of ICFRE-RFRI Hindi Newsletter was released on the occasion, Dr. R.K. Borah, Scientist - G; Dr. Satyam Bordoloi, Scientist - E; Dr. Nibedita Baruah, CTO; Dr. Prosanta Hazarika, CTO; Shri Rajarishi Bhattacharya, STO; Miss Geetashri Borah, Shri Debaditya Mukhopadhyay and Miss. Sneha Choudhury (Ph.D. Scholar) expressed their views after the keynote address by Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat.



"The forest is not a resource for us, it is life itself. It is the only place for us to live." - Evaristo Nugkuag.



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ICFRE-RFRI, Jorhat observed World Earth Hour Day, 2024 both at individual as well as institute level by switching off all the lights from 8.30 p.m. to 9.30 p.m. on 23rd March, 2024. All campus lights including the office street lights were switched off during that period. All individuals of the institute also switched off the lights their respective residences during the period.



Swacchata Mission

Residents of institute campus of ICFRE-RFRI, Jorhat undertook cleanliness drive at the Shiva Mandir premises on 21st Jnauary, 2024. Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat and all institute campus residents participated in the program with their families.





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Recent Publications

**স্মৃতিগ্রন্থ
স্মারিকা
Souvenir**

বৃক্ষ উৎপাদক মেলা
বৃক্ষ उत्पादक मेला
TREE GROWERS' MELA
7 & 8 March, 2024

Sponsored by
CAMPA

Organized by
ICFRE-RFRI, Jorhat, Assam

**বর্ষাবণাম
বর্ষাণ্যম্**

ভা.ব.অ.শি.প.- বর্ষাবণাম প্রতিক্রিয়া, যোৰহাট
भा.वा.अ.शि.प.- वर्षा वन अनुसंधान संस्थान, जोरहाट

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From the Director's Desk

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भा.वा.अ.शि.प.- व.व.अ.स. संवाद पत्रिका
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Great Quotes

“Look deep into nature, and then you will start to understand everything better.”

-Albert Einstein

“The clearest way into the universe is through a forest wilderness.”

“The one who plants trees knowing that he or she will never sit in their shade, has at least started to understand the meaning of life.”

- Rabindranath Tagore

“The forest is a peculiar organism of unlimited kindness and benevolence that makes no demands for its sustenance and extends generously the products of its life activity; it affords protection to all beings, offering shade even to the axe-man who destroys it.



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ICFRE-RFRI IN NEWS

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RFRI, Jorhat conducts National Level Training Workshop on Role of Forestry in Sustainable Development of People



CHRONICLE NEWS SERVICE

JORHAT: RFRI-Bam Forest Research Institute, Jorhat (Assam) started a three-day training workshop on Role of Forestry for Sustainable Development of People for Officers of Indian Forest Service from 2nd January, 2024. The training workshop was sponsored by the Ministry of Environment, Forest and Climate Change, Govt of India. The training was attended by 13 Officers from 9 different states of India. The Participants were welcomed by traditional Phukan Gamosa. The training programme was inaugurated by Dr Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat. He welcomed all the participants in the training programme and lauded about the purpose of the training programme. He highlighted the various forestry research and development activities conducted by ICFRE-RFRI to emphasize on diversity and importance of forestry resources, particularly bamboo and Agrarwood in North-East India and encouraged the participants to explore the possibilities for the utilization of these forestry resources for livelihood opportunities and sustainable development of people.

In his address, Dr Nitin Kulkarni, Director of the Training Workshop presented an overview of the bamboo sector and its role towards livelihood generation in North-East India. He spoke about the species diversity of bamboo, trade value of bamboo, bamboo as a resource in wood industries sector, paper and pulp industries, food and beverage industries, bio-energy industries, housing sector and farming industries in India. Different queries asked by participants were duly addressed by invited speakers during the training sessions. The Training programme will also include other forest related issues like Vanysa silk, medicinal and aromatic plants, wild life insects, agroforestry etc. which will be delivered by eminent resource persons, apart from field visit to Kaziranga Biodiversity Park and Kaziranga National Park.

January 04, 2024



RFRI, Jorhat conducts National Level Training Workshop on Role of Forestry in Sustainable Development of People



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Page-09 January 04, 2024



Training programme for forest officers

JORHAT, Jan 3: A three-day national-level training workshop for a group of Indian Forest Service (IFS) officers began today at the ICFRE-Rain Forest Research Institute (RFRI) here.

An RFRI official informed that the training programme, organised by the institute on 'Role of Forestry for Sustainable Development of People, has been participated by 13 IFS officers from nine States of the country. The participants were welcomed by the organizers by a gamosa.

The training programme, sponsored by the Union Ministry of Environment, Forest and Climate Change, was inaugurated by ICFRE-RFRI Director, Dr Nitin Kulkarni.

Dr Kulkarni, in his address, briefed about purpose of the training programme and highlighted various forestry research and development activities conducted by ICFRE-RFRI. He emphasized on diversity and importance of forestry resources particularly bamboo and agrarwood in the north-eastern region.

The Director encouraged the participants to explore the possibilities for the utilization of these forestry resources for livelihood opportunities and sustainable development of native communities.

In his first technical presentation, Dr RK Borah, Scientist-G, ICFRE-RFRI, addressed the participants with the different research, development and extension activities on forestry being undertaken by the institute. Dr Borah sensitized the participants about the importance of *aquilaria malaccensis*, an important medicinal and aromatic tree species of north-eastern

India for livelihood generation in the region.

Dr Nitin Kulkarni, Scientist-F as well as Course Director of the training workshop, presented overview of bamboo sector and its role towards livelihood generation in the north-eastern region. Kalita spoke about the species diversity of bamboos, trade value of bamboo commodities, significance of bamboo as resource in wood industries sector, paper and pulp industries, food and beverage industries, bio-energy industries, housing sector and farming industries in India.

The training programme will also include other forest-related issues like Vanysa silk, medicinal and aromatic plants, edible insects, agroforestry etc. which will be delivered by eminent resource persons, apart from field visits to Kaziranga National Park and Kaziranga National Park.

Page-09 January 05, 2024



বৰ্ষাৰণ্য প্ৰতিষ্ঠানত ৰাষ্ট্ৰীয় পৰ্যায়ৰ প্ৰশিক্ষণ কৰ্মশালা আৰম্ভ

যোৰহাট, ৩ জানুৱাৰী: যোৰহাটৰ বৰ্ষাৰণ্য গৱেষণা প্ৰতিষ্ঠানত আৰম্ভৰূপে তিনিদিনীয়া কাৰ্যসূচীৰে 'অসমস্থানীয় বৰ্ষাৰণ্য উন্নয়নত বনৰ ভূমিকা' শীৰ্ষক এখন ৰাষ্ট্ৰীয় পৰ্যায়ৰ প্ৰশিক্ষণ কৰ্মশালা অনুষ্ঠিত হৈছে। য'ত নৰ্থম বাজান চৰকাৰী ডাক্তাৰী বন সেৱাৰ বিষয়াই অংশগ্ৰহণ কৰে। প্ৰশিক্ষণ ভাৰত চৰকাৰৰ পৰিবেশ, বন আৰু জলবায়ু পৰিৱৰ্তন সঞ্চালকৰ অৰ্থ সাহায্যত অনুষ্ঠিত কৰা হৈছে। প্ৰশিক্ষণ উদ্বোধন কৰি প্ৰতিষ্ঠানৰ সঞ্চালক ড° নিতিন কুলকৰ্নীয়ে বৰ্ষাৰণ্য প্ৰতিষ্ঠানে ন্যূনমান কৰি অহা বিভিন্ন গৱেষণা তথা সংস্কাৰণ কাৰ্যসূচীৰ বিষয়ে প্ৰশিক্ষণীয়সকলক অৱগত কৰে। তেওঁ বিশেষকৈ বাঁহ, সাঁচি আদিক ধৰি বিভিন্ন কৰ্মসূচীৰ ক্ষেত্ৰত বাঁহৰ উপকাৰ হোৱাকৈ ব্যৱহাৰ কৰিব পাৰি তাৰ বিষয়ে কলমে কৰিছিল।

প্ৰথম দিনৰ কাৰ্যসূচীৰ অৰ্দ্ধাংশত বিষয়ে যেনে সাঁচি, বাঁহ আদিৰ ওপৰত প্ৰশিক্ষণ আগবঢ়ায় প্ৰতিষ্ঠানৰ বন্য জৈৱ বিজ্ঞানী বাৰ্জীৰ কুমাৰ বৰা আৰু বাৰ্জীৰ কুমাৰ কলিতাই। প্ৰশিক্ষণীসকলে যোৰহাটৰ কাৰ্ভোনেচত অৱস্থিত কেঞ্জিয় মুখা এৰী গৱেষণা তথা প্ৰশিক্ষণ প্ৰতিষ্ঠান ভৱনৰ এই উদ্যোগত লগত জড়িত বিভিন্ন বিষয় সমূহৰ উমান লয়। এই প্ৰশিক্ষণত অংশগ্ৰহণ কৰি বিভিন্ন বিষয়ৰ ওপৰত কেইবাখনো অভিজ্ঞ বাহিনীয়ে প্ৰশিক্ষণ আগবঢ়ায়। প্ৰশিক্ষণৰ অৰ্দ্ধাংশত পাঠ্যক্ৰম হিচাপে কাজিৰঙা জৈব উদ্যান আৰু কাজিৰঙা ৰাষ্ট্ৰীয় উদ্যানো ভ্ৰমণ কৰা হ'ব।

Page-03 January 28, 2024



National level training on bamboo conducted by RFRI, Jorhat

JORHAT: RFRI-Bam Forest Research Institute, Jorhat (Assam) started a three-day national-level training workshop for a group of Indian Forest Service (IFS) officers from nine States of the country. The participants were welcomed by the organizers by a gamosa.

The training programme, sponsored by the Union Ministry of Environment, Forest and Climate Change, was inaugurated by ICFRE-RFRI Director, Dr Nitin Kulkarni.

Dr Kulkarni, in his address, briefed about purpose of the training programme and highlighted various forestry research and development activities conducted by ICFRE-RFRI. He emphasized on diversity and importance of forestry resources particularly bamboo and agrarwood in the north-eastern region.

The Director encouraged the participants to explore the possibilities for the utilization of these forestry resources for livelihood opportunities and sustainable development of native communities.

In his first technical presentation, Dr RK Borah, Scientist-G, ICFRE-RFRI, addressed the participants with the different research, development and extension activities on forestry being undertaken by the institute. Dr Borah sensitized the participants about the importance of *aquilaria malaccensis*, an important medicinal and aromatic tree species of north-eastern India for livelihood generation in the region.

Dr Nitin Kulkarni, Scientist-F as well as Course Director of the training workshop, presented overview of bamboo sector and its role towards livelihood generation in North-East India. He spoke about the species diversity of bamboo, trade value of bamboo, bamboo as a resource in wood industries sector, paper and pulp industries, food and beverage industries, bio-energy industries, housing sector and farming industries in India. Different queries asked by participants were duly addressed by invited speakers during the training sessions. The Training programme will also include other forest related issues like Vanysa silk, medicinal and aromatic plants, wild life insects, agroforestry etc. which will be delivered by eminent resource persons, apart from field visit to Kaziranga Biodiversity Park and Kaziranga National Park.

Page-01, 06 January 05, 2024



বৰ্ষাৰণ্য গৱেষণা প্ৰতিষ্ঠানৰ আন্তৰিকতাৰ সূক্ষ্ম

'সাঁচি'য়ে আনিছে আশাৰ বতৰা

সাঁচি বিপণি: অসম কৃষিক্ষেত্ৰত অতি মূল্যবান আশাৰ বতৰা বৃহৎ সম্ভাৱনা তথা আশাৰ সঞ্চালনা আৰু বিপণিৰ ব্যৱস্থা কঢ়িয়াই আনিছে প্ৰতিষ্ঠানটোৱে। সাঁচি গছ যোৰহাটস্থিত বৰ্ষাৰণ্য গৱেষণা কেন্দ্ৰত প্ৰতিষ্ঠানৰ দ্বাৰা প্ৰতিষ্ঠানে। সাঁচি গছ অসমত (৬ প্ৰজাতি চাওক)

সাঁচিয়ে আনিছে

সাঁচিয়ে আনিছে অসম কৃষিক্ষেত্ৰত অতি মূল্যবান আশাৰ বতৰা বৃহৎ সম্ভাৱনা তথা আশাৰ সঞ্চালনা আৰু বিপণিৰ ব্যৱস্থা কঢ়িয়াই আনিছে প্ৰতিষ্ঠানটোৱে। সাঁচি গছ যোৰহাটস্থিত বৰ্ষাৰণ্য গৱেষণা কেন্দ্ৰত প্ৰতিষ্ঠানৰ দ্বাৰা প্ৰতিষ্ঠানে। সাঁচি গছ অসমত (৬ প্ৰজাতি চাওক)



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January 28, 2024

The Assam Tribune

RFRI conducts skill development training

STAFF CORRESPONDENT

JORHAT, Jan 27: The Indian Council of Forestry Research and Education (ICFRE)-Rain Forest Research Institute (RFRI) at Sotai here organised a skill development training programme from January 22 to January 27 on propagation, nursery management, cultivation, and value addition of bamboo for 15 participants from several states across the country.

An RFRI official informed that the training programme, sponsored by ICFRE-BTSG, was attended by participants from Maharashtra, Gujarat, Himachal Pradesh, West Bengal and Jharkhand, apart from Assam.

RFRI director Dr Nitin Kulkarni, who inaugurated the programme, in his address, urged to the trainees to learn various aspects of bamboo cultivation so that it can pave the way of self-employment in future.

The participants were imparted hands-on training on establishment of bamboo nurseries, bamboo propagation techniques, value addition in bamboo such as preservative treatment of bamboo, techniques of making bamboo charcoal and briquettes from bamboo charcoal, etc.

As part of the training programme, the participants were taken for field study visits to the National Orchid and Biodiversity Park in Kohora as well as Kaziranga National Park. Rajib Kumar Kalita, Dr Runume Devi Borthakur, Kumud Borah, Debojit Neog and Dulal Chandra Borah were the resource persons of the training sessions.

An interactive session with two young entrepreneurs from Jorhat - Parikshit Borkotoky and Priyam Ballav Goswami - was also held as part of the training programme.

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February 02, 2024

Eastern Chronicle

ICFRE-RFRI, Jorhat conducts Nat'l level training on Agarwood

CHRONICLE NEWS SERVICE

JORHAT: ICFRE-Rain Forest Research Institute, Jorhat (Assam) successfully conducted a three-day long Skill Development Training on Agarwood Cultivation and Artificial Inoculation at its Campus during 30 January to 1 February, 2024.

The Training was attended by seven participants from four States of India, namely Bihar, Sikkim, Tripura and Assam. Dr. R. K. Borah, Group Coordinator (Research) of the Institute inaugurated the Training. First technical session on 'Agarwood: Its importance, Nursery and Cultivation Management' was conducted by Dr. Satyam Bordoloi, Scientist of the Institute. Few other wide ranges of topics such as Artificial Induction of Agarwood, Legal requirements for cultivation, export of Agarwood etc were dealt by Dr. R. K. Borah. Hands-



The hands-on sessions on artificial inoculation on Agarwood Cultivation

on sessions on artificial inoculation were also demonstrated in the field during the training programme. Dr. Nibedita Baruah, CTO delivered a presentation on scientific insights into Agar oil extraction.

Field visit to agar plantations and distillation unit at Naharani area of Golaghat District was also conducted during the training where participants interacted with Md. Dilwar Hussain. Certificates were distributed to the participants at the Valedictory Session. Shri R. K. Kalita, Head, Extension Division, RFRI, Jorhat meticulously planned and executed the training programme.

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February 02, 2024



বর্ষাৰণ্য গৱেষণা প্রতিষ্ঠানত সাঁচি গছৰ খেতিৰ প্ৰশিক্ষণ সম্পন্ন



বাজীৰ কুমাৰ বৰাই কৃষিক্ষেত্ৰত সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়। সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়। সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়।

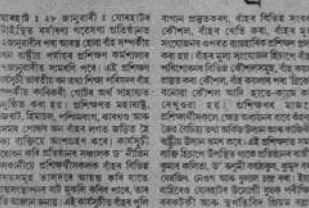
বাজীৰ কুমাৰ বৰাই কৃষিক্ষেত্ৰত সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়। সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়।

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January 29, 2024



বর্ষাৰণ্য প্রতিষ্ঠানত ৰাষ্ট্ৰীয় পৰ্যায়ৰ বাঁহ সম্পৰ্কীয় প্ৰশিক্ষণ



বাজীৰ কুমাৰ বৰাই কৃষিক্ষেত্ৰত সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়। সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়।



বাজীৰ কুমাৰ বৰাই কৃষিক্ষেত্ৰত সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়। সঁচিগছৰ উৎপাদিত সামগ্ৰীৰ প্ৰশিক্ষণ আৰম্ভ কৰি বিভিন্ন দিশত প্ৰশিক্ষণ আগবঢ়ায়।



ICFRE-RFRI NEWSLETTER



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ICFRE-RFRI IN NEWS

March 09, 2024

Eastern Chronicle

Rain forest research institute, Jorhat organizes two-day tree growers' mela

CHRONICLE NEWS SERVICE

JORHAT: ICFRE-Rain Forest Research Institute, Jorhat (Assam) organized a Tree Growers' Mela on 07 and 08 March, 2024. It was sponsored by CAMPA and attended by non-farmer and farmer participants that included Farmers, Tree Growers, IFRC Members, Forest Officials, Students, Delegates, SHG members, NGO Members, Members from ATMA, ASLRM, Village etc. The two-day event was inaugurated by Mrs. Kanchan Devi, ICFRE Director General. ICFRE-Debrahm who was the Chief Guest in the inaugural session. Dr. R. M. Vijaya Kumar, Director, CMERTI, Jorhat and Dr. R. S. Borah, ICFRE-RFRI and Dr. P. V. Andaman graced the occasion as Guests of Honour. The inaugural Session started with the lighting of the holy lamp by dignitaries. At the end, Dr. Nitin Kulkarni, Director, ICFRE-RFRI, Jorhat welcomed all the distinguished guests and participants of the programme.

Dr. R. K. Borah, GOFO, ICFRE-RFRI stated about the purpose of organizing the Mela. In her inaugural speech, Dr. Vijaya Kumar appreciated the efforts of ICFRE-RFRI, Jorhat for organizing the training and emphasis on nursery development of food plants for Muga and Eri silkworms for livelihood promotion through reviving of both. Dr. Jayraj spoke about the criteria in selecting tree species for agroforestry or farming based upon their economic and environmental compatibility along with social viability. Dignitaries released the Statement and Visionary document. ICFRE-RFRI is a bilingual organization. ICFRE-RFRI (Assam) will grant to be a part of the journey of success of other Entrepreneurs, namely Shri Digga Gogoi, Jorhat; Shri Ananta Raihan, Jorhat and M/s Choma Biotech LLP, Debrahm who were felicitated during the Inaugural Session. They also spoke on the occasion and expressed appreciation to the host institute for their initial support and shared their entrepreneurial success stories.

Participants of the two growers' mela

Entrepreneurs such as CSIR-NGIST, Jorhat, Tinkal Tea Research Institute, Jorhat, CMERTI, Jorhat, AAU-KVK, Jorhat, State Bank of India, Phulbari Branch, Phulbari Nursery, Jorhat, Sarangmudi NGO Debrahm, Phoolbari Tea Estate, Jorhat, Mughal Food Products, Jorhat, Best's Food Production Unit, Jorhat, Mughal Group etc. participated in the Exhibition. A Farmer-Scientist interaction was also held where Dr. R. K. Borah, Dr. S. Borah, Dr. P. V. Andaman and Dr. R. D. Borahkar interacted with the Farmers. Shri K. Kalita and Shobhan Islam conducted the programme.

March 08, 2024

PRAG NEWS

দৈনিক জনমভূমি

জাতির আবেগে সমাজৰ বিবেক

NE NEWS

বর্ষাৰণ গৱেষণা প্রতিষ্ঠানত দুদিনীয়াকৈ 'বৃক্ষ কৃষক মেলা'

গোহাটীত ৭ আৰু ৮ তাৰিখে দুদিনীয়া বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠানত দুদিনীয়াকৈ 'বৃক্ষ কৃষক মেলা' আয়োজন কৰা হয়। ইয়াত অসমৰ বিভিন্ন অঞ্চলৰ পৰা অসংখ্য কৃষক, গৱেষক, শিক্ষক আৰু ছাত্ৰ-ছাত্ৰীয়ে অংশগ্ৰহণ কৰিছিল।

মেলাত অসংখ্য কৃষক আৰু গৱেষকৰ উপস্থিতিত দুদিনীয়া বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠানত দুদিনীয়াকৈ 'বৃক্ষ কৃষক মেলা' আয়োজন কৰা হয়। ইয়াত অসমৰ বিভিন্ন অঞ্চলৰ পৰা অসংখ্য কৃষক, গৱেষক, শিক্ষক আৰু ছাত্ৰ-ছাত্ৰীয়ে অংশগ্ৰহণ কৰিছিল।

মেলাত অসংখ্য কৃষক আৰু গৱেষকৰ উপস্থিতিত দুদিনীয়া বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠানত দুদিনীয়াকৈ 'বৃক্ষ কৃষক মেলা' আয়োজন কৰা হয়। ইয়াত অসমৰ বিভিন্ন অঞ্চলৰ পৰা অসংখ্য কৃষক, গৱেষক, শিক্ষক আৰু ছাত্ৰ-ছাত্ৰীয়ে অংশগ্ৰহণ কৰিছিল।

February 04, 2024

প্রতিদিন

তামৰীয়া প্রতিদিন

বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠান

সাঁচিগছৰ খেতি সন্দৰ্ভত তিনিদিনীয়া প্ৰশিক্ষণ

গোহাটীত বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠানত সাঁচিগছৰ খেতি সন্দৰ্ভত তিনিদিনীয়া প্ৰশিক্ষণ আয়োজন কৰা হয়। ইয়াত অসমৰ বিভিন্ন অঞ্চলৰ পৰা অসংখ্য কৃষক, গৱেষক, শিক্ষক আৰু ছাত্ৰ-ছাত্ৰীয়ে অংশগ্ৰহণ কৰিছিল।

February 03, 2024

নিয়মীয়া বাৰ্তা

বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠানত সাঁচিগছ খেতিৰ প্ৰশিক্ষণ

গোহাটীত বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠানত সাঁচিগছৰ খেতি সন্দৰ্ভত তিনিদিনীয়া প্ৰশিক্ষণ আয়োজন কৰা হয়। ইয়াত অসমৰ বিভিন্ন অঞ্চলৰ পৰা অসংখ্য কৃষক, গৱেষক, শিক্ষক আৰু ছাত্ৰ-ছাত্ৰীয়ে অংশগ্ৰহণ কৰিছিল।

February 03, 2024

দৈনিক অগ্রদূত

বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠানত সাঁচিগছৰ প্ৰশিক্ষণৰ সামৰণি

গোহাটীত বৰ্ষাৰণ গৱেষণা প্রতিষ্ঠানত সাঁচিগছৰ খেতি সন্দৰ্ভত তিনিদিনীয়া প্ৰশিক্ষণ আয়োজন কৰা হয়। ইয়াত অসমৰ বিভিন্ন অঞ্চলৰ পৰা অসংখ্য কৃষক, গৱেষক, শিক্ষক আৰু ছাত্ৰ-ছাত্ৰীয়ে অংশগ্ৰহণ কৰিছিল।

March 12, 2024

The Assam Tribune

Tree growers' meet held at RFRI

STAFF CORRESPONDENT

JORHAT: March 11: The Indian Council of Forestry Research and Education (ICFRE)-Rain Forest Research Institute (RFRI) at Sotai here organised a two-day tree growers' mela on March 7-8.

An RFRI official informed that the mela, sponsored by the Compensatory Afforestation Fund Management and Planning Authority (CAMPA), was attended by over 500 participants that included farmers, tree growers, joint forest management committee members, forest officials, students, delegates, SHG members, NGOs, members from the Agricultural Technology Management Agency (ATMA), Assam State Rural Livelihood Mission (ASLRM), and others.

The event was inaugurated by chief guest Kanchan Devi, director general, ICFRE, Debrahm. Dr. R. M. Vijaya Kumar, director, Central Muga Eri Research and Training Institute (CMERTI), Jorhat, and Dr. RSC Jayraj, former director, ICFRE-RFRI and also former PCCE Andaman, graced the occasion as guests of honour.

Dr. Nitin Kulkarni, director, ICFRE-RFRI, Jorhat, welcomed the distinguished guests and participants. Dr. RK Borah, joint coordinator (research) ICFRE-RFRI, stated the objective of organising the event.

In her address, Kanchan Devi highlighted the role of ICFRE in the development of the forest scenario and praised the role of ICFRE-RFRI in regard. She emphasized the transformation of agro-forestry along with inclusion of Nature-based solutions.

Dr. Vijaya Kumar laid emphasis on farmers' development of food plants for muga and eri silkworms for livelihood promotion through reviving of both. Similarly, Dr. RSC Jayraj highlighted the criteria in selecting tree species for agro-forestry based on their economic and environmental compatibility along with social viability.

A souvenir and *Vishvashya*, the ICFRE-RFRI bilingual magazine, were released on the occasion. Kanchan Devi inaugurated an exhibition, in which over 20 institutions, NGOs and entrepreneurs participated. A farmer-scientist interaction was also held.



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Human Resource News

A. Promotions

Sl No	Name of Officers/Staff	Promoted To	Date
1.	Dr. Prosanta Hazarika	CTO	15/03/2023
2.	Shri Protul Hazarika	CTO	15/03/2023
3.	Shri Niren Das	CTO	15/03/2023
4.	Shri Bibhuti Deka	CTO	15/03/2023
5.	Shri Rubul Ch. Dutta	ACTO	15/03/2023
6.	Md. Muhibul Hussain	ACTO	15/03/2023
7.	Dr. Girish Gogoi	ACTO	15/03/2023
8.	Shri Prasanta Saikia	STO	15/03/2023
9.	Shri Bhuban Kachari	STO	15/03/2023
10.	Shri Pronob Bhusan Goswami	STO	15/03/2023
11.	Shri Debojit Neog	STO	15/03/2023
12.	Shri Debajit Saikia	STO	15/03/2023

B. Superannuation

Sl. No.	Name of Officers/Staff	Post	Date
1.	Shri Jatin Kachari	Technical Officer in ICFRE-RFRI	29/02/2024
2.	Shri Bipin Ch. Basumatary	Multi Tasking Staff in ICFRE-RFRI	29/02/2024

C. Decease

Sl. No.	Name of Officers/Staff	Post	Date
1.	Late Hari Ram Borah	Chief Technical Officer in ICFRE-RFRI	19/03/2024



ICFRE-RFRI FREE PUBLICATIONS

Sl. No.	Title	Author	Pub Y
1.	Bamboo Kissan Nursery (Assamese), 2002	Pattanaik, S. & Borah, R.K.	2002
2.	Bamboo Kisaan Nursery (English), 2002	Pattanaik, S. & Borah, R.K.	2002
3.	Bamboo Kisaan Nursery (Bengali), 2002	Pattanaik, S. & Borah, R.K.	2002
4.	Bahor Angaj Bistaran (Posters in Assamese)	Pattanaik, S. & Borah, R.K.	2002
5.	Rattans for prosperity (Eng) Publication No.16	Bhuyan, T.C. & others	2003
6.	Samridhir babe bet (Assamese) RFRI/BR-17	Bhuyan, T.C. & others	2003
7.	User manual: Jagriti	Gurung, D & Kalita, R.K.	Nil
8.	Bamboo in NE India : a management guide (Training manual) English , ICFRE/RFRI/TM-2	Senthilkumar, N. & others	2007
9.	Bamboo in NE India : a management guide (Training manual) Assamese, ICFRE/RFRI/TM-2	Bhuyan, T.C. & others	2007
10.	Tita Sopa (Michelia champaka Linn.), RFRI/VVK/Br-03	Hazarika, P. & Pandey, B.K.	2008
11.	Meen Palon Sohayika : A manual for small scale fish farming , (ICFRE/RFRI/TM- 3) Assamese	Baruah, Uttam Kumar and Borah, Bibha	2008
12.	Bamboo in NE India : A management guide Vol.II (Training manual) English , ICFRE/RFRI/TM-2	Borah, R.K. & others	2009
13.	Bamboo in NE India : A management guide Vol.II (Training manual) Assamese, ICFRE/RFRI/TM-2	Borah, R.K. & others	2009
14.	Vermicompost: Production technology and its role in increasing soil productivity, RFRI/BR-18	Gogoi, S. & others	2009
15.	Self employment through Scientific Patchouli cultivation, (Ass.) RFRI/BR-19	Gogoi, B. & Borah, R.K.	2009
16.	Compost-Methods of preparation and its importance (Ass.) RFRI/BR-20	Gogoi, S. & others	2009
17.	Bamboo Nursery by scientific method: A way of self employment (Ass.), RFRI/BR-21	Gogoi, B. & Borah, R.K.	2009
18.	Bamboo preservation techniques (Ass.) RFRI/BR-22	Sharma, G & others	2009
19.	The bamboo flowers-its problems and remedies (Ass.) RFRI/BR-23	Borah, E.D. & Borah, R.K.	2009
20.	Hollong Nursery: Techniques & Practices, RFRI/BR-24	Pattanaik, S. & Borah, R.K.	2009
21.	Hollong gosor pulibari prostutkaranar kaushal aru anushilan (Ass.) RFRI/BR-24	Pattanaik, S. & Borah, R.K.	2009
22.	Rattan (Bet): Abish aruhi udbhid. RFRI/BR-25	Bhuvan, T.C. & others	2009
23.	Bamboo Nursery: Techniques & Practices, RFRI/BR-26	Pattanaik, S. & Borah, R.K.	2009
24.	Bahar pulibari prostutkaranar kaushal aru anushilan (Ass.), RFRI/BR-26	Pattanaik, S. & Borah, R.K.	2009
25.	Mangium (Ass.), RFRI/BR-27	Borah, R.K. Ed.	2009
26.	Acacia mangium: A prospect tree species for Northeast India, RFRI/BR-27	Tara Chand & Borah, R.K. Ed.	2009
27.	Agar tree: The source of liquid gold, RFRI/BR-28	Borah, R.K. Ed.	2009
28.	Tita Sopa (Ass.), RFRI/BR-29	Borah, R.K. Ed.	2009
29.	Tita Sopa (Eng.), RFRI/BR-29	Borah, R.K. Ed.	2009
30.	Lajuki Ban (Mimosa diplotricha), RFRI/BR-30 (in Ass.)	Borah, R.K. Ed.	2009
31.	Mimosa, the alien invasive species, RFRI/BR-30	Borah, R.K. Ed.	2009



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ICFRE-RFRI FREE PUBLICATIONS

Sl. No.	Title	Author	Pub Y
32.	Sarpagandha (Ass.), RFRI/BR-31	Borah, R.K.	2009
33.	Gamari - The white teak, RFRI/BR-32	Borah, R.K. & Gogoi, B	2009
34.	Gamari (Ass.), RFRI/BR-32	Bora, R.K. & Gogoi, B	2009
35.	Schima wallichii (DC.) Korth, Project No. RFRI-12/2008-09/SFM	Parkash,Vipin.	2009
36.	Trichoderma mass production for field application, Project No.: RFRI-42/2008-09/SFM Leaflet No.1	Parkash,Vipin.	2009
37.	Abroma augusta L. (Gorokhia koro), Project No.: RFRI-42/2010-11/SFM Leaflet No.II	Parkash,Vipin.	2010
38.	RFRI Brochures	RFRI	Nil
39.	Orchids exploration and conservation, RFRI/BR-29	Singh, A.P. & Borah,R.K.	2011
40.	Gmelina arborea defoliator (Craspedonta leayana) and its management	Raja Rishi & others	2016
41.	Aquilaria defoliator (Heortia vitessoides) and its Management	Raja Rishi & others	2016
42.	Recent Advances in Bamboo Research and Development in India	Vipin Parkash & Others	2017
43.	Betula alnoides (Himalayan Birch), - Volume Biomass and Carbon Tables for Meghalaya (Report No.2)	Giri, K. & others	2018
44.	Mortality of Tree bean (parkia timoriana) in North-East India (Report No.3)	Borah, R.K. ; Sharmah, Hansraj; Sultana, M.; Borah, Jimi & Buragohain, P.	2018
45.	Duabanga grandiflora - Volume, Biomass and Carbon Tables for Meghalaya (Report No.4)	Giri, K. & others	2018
46.	Magnolia champaca (Champak) - Volume, Biomass and Carbon Tables for Meghalaya (Report No.5)	Giri, K. & others	2018
47.	Toona ciliata (Toon Tree) - Volume, Biomass and Carbon Tables of Meghalaya (Report No.6)	Giri, K. & others	2018
48.	Forest Soils of Nagaland (Report No.7)	Mishra, G.; Giri, K.; & Das, P.K.	2019
49.	Agarwood induction technology (Report No.8)	Borah, R.K. & others	2019
50.	Plant Growth Promoting Rhizobacteria (PGPR) in Jhum fields for productivity enhancement (Report No.9)	Giri, K. & others	2019
51.	Garcinias of Upper Brahmaputra Valley (Report No.10)	Dutta, D. & Hazarika, P.	2019
52.	Mikania micrantha : A growing threat to tropical forest ecosystems-a case study from forest of upper Assam (RFRI Report-11)	Baruah, Kuntala No. & Das, D.J.	2020
53.	Broom grass: Thysanolaena latifolia (Roxb. Ex Hornem) Honda	Borah, G.; Handique,C.; Hazarika, P.	Nil
54.	Schumannianthus dichotomus (Roxb.) Gagnep.(Pati - doi or Shital Pati)	Borah, G.; Handique,C.; Hazarika, P.	Nil
55.	Phrynium capitatum Wild.(Koupat)	Borah, G.; Handique,C.; Hazarika, P.	Nil
56.	Livistona jenkinsiana Griff. (Tokow)	Borah, G.; Handique,C.; Hazarika, P.	Nil
57.	Local and Regional Volume Tables for Aquilaria malaccensis Lam. In North East India,(RFRI Report-14)	Giri, Krishna & others	2021
58.	Seed Ball Technology (Report No.15)	Hazarika, P. & Others	2021
59.	Pinus kesiya Royle ex Gordon (Khasi pine)Volume, Biomass and Carbon Tables for Manipur (Report No.16)	Giri, K. & Others	2021
60.	Arunachal Pradesh Forestry: Glimpses from the Past (Book)	Jayaraj, R.S.C. & Handique, C.	2021
61.	Quercus serrata (Roxb.) Volume, Biomass and Carbon Tables for Manipur (RFRI Report No.17)	Giri, K.; Chandra, G.; Kardong, P.; Jayaraj, R.S.C. and Chanu, E.N.	2022
62.	Package of Practices for Restoration of Coal mined Land(RFRI Report-18)	Hazarika, Prosanta & others	2022
63.	Forty Six Years of Research in RFRI (Abstract of Publications: 1976 to 2021)	Jayaraj, R.S.C. & others	2022
64.	Drivers of Deforestation in Meghalaya	Jayaraj, Rsc & others	2022



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ICFRE-RFRI PRICED PUBLICATIONS

Sl.	TITLE	AUTHORS	Year of Publication	Price(Rs.)
1.	Technical Bulletin on Applied Forestry Research for Field Foresters	IRMDFR	1998	75
2.	Dipterocarpus retusus Syn. D. macrocarpus Hollong - Past , Present and Future	Rawat, Vijay.	1998	75
3.	Recent methodologies on forest ecological research (May-12-20, 1998) Orientation Course	IRMDFR	1998	500
4.	Northeast regional Forestry Research Plan	IRMDFR	2000	500
5.	Workshop on application of Improved Technology for afforestation in NE India	Goala, B. ;Prasad, K.G. Ed.	2001	150
6.	Integrated Approach to Shifting Cultivation - case studies	Prasad, K.G. Ed.	2001	500
7.	IRMDFR - A perspective	IRMDFR	2001	250
8.	Gmelina arborea- A Technology Mission	Kumar, Ashok.; Singh, A.N.; Kalita, R.K. & Prasad, K.G.	2002	150
9.	Proceedings of expert consultation on strategies for sustainable utilization of bamboo resources subsequent to gregarious flowering in the NE	Pattanaik, S. & others Eds.	2002	250
10.	Hand book of propagation cultivation & management of bamboo	Pandey, B.K. & others	2008	250
11.	Hand book on pest problems of important bamboo species of Assam and their management	Raja Rishi, R. & others	2014	90
12.	Mushrooms of Nagaland	Kumar, Rajesh; Bisht, N.S.; Pandey, S. and Tapwal, A.	2015	500
13.	Butterfly atlas of Arunachal Pradesh, India	Singh, A.P. and Das, D.J.	2016	2000
14.	Mushrooms of Meghalaya	Kumar, Rajesh; Bisht, N.S.; and Jayaraj, R.S.C.	2020	200
15.	Floristic Diversity of North-East India	Naithani, H.B.	2020	300
16.	Mushrooms of Mizoram	Kumar, Rajesh, Jayaraj, R.S.C.	2021	700
17.	Aquilaria malaccensis: An annotated bibliography	Jayaraj, R.S.C.; Bhamra, G.K.; Ahmed, Shagufta and Borah, Pallabi	2022	450
18.	Orchids of North Eastern Coal Fields	Barua, K.N.	2022	800
19.	Forest Seed Identification- a Pictorial guide for Northeast India	Singh, M.K. & others	2022	330
20.	Lab manual for seed biochemistry	Sharma, V.& Singh, M.K.	2022	300
21.	Tree blossoms of North East India	Singh, M.K.and Bhuyan, T.	2022	2400
22.	Monograph onParkia timoriana	Singh, Manish K.	2022	860



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Seedlings/Vegetative propagules, various products and harvested items of ICFRE-RFRI

A. The rate of bamboo seedlings/vegetative propagules (macro and micro propagated) and other plant species

SI No.	Special Category	Rates per plant/rhizome(in Rs.)
1.	Bamboo seedlings(other than ornamental bamboos)	15
2.	Bamboo vegetative propagules (macro/micro propagated) (other than ornamental bamboos)	30
3.	Bamboo rhizome	350
Ornamental bamboos		
4.	<i>Bambusa vulgaris var. striata</i>	100
5.	<i>Bambusa wamin</i>	100
6.	<i>Bambusa multiplex</i>	100
7.	<i>Melocalamus compactiflorus</i>	100
8.	<i>Pseudosasa japonica</i>	100
9.	<i>Sasa fortunei</i>	100
10.	Seedling of all plant species	15

B. The rate of various products made as a part of the ongoing projects

Sl. No.	Name of the product	Rates per kg (in Rs.)
1.	Vermicompost	10
2.	Mushroom spawn	120
3.	Edible mushroom	120
4.	Bamboo Charcoal	20
5.	Bamboo Charcoal briquettes	45
6.	Biochar	40



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Seedlings/Vegetative propagules, various products and harvested items of ICFRE-RFRI available for sale

C. The rate of matured bamboos of different species of RFRI Bambusetum /RFRI campus are fixed as follows:

Sl.No	Name of the Species	Rates per bamboo (in Rs.) (including cutting charge)
1.	<i>Bambusa balcooa</i> (Bhaluka)	15
2.	<i>Bambusa tulda</i> (Jati)	80
3.	<i>Melocanna baccifera</i> (Muli)	350
4.	Other species	70

D. The rate of dead and dying bamboos and other trees/tree branches as fire wood are fixed as follows:

Sl. No.	Name of the species	Rates per cubic meter (in Rs.)
1.	Timber(Fire wood)	100
2.	Bamboos (Fire wood)	50

E. List of Nursery stocks available at ICFRE-RFRI

Sl.No.	Specifications (Rates @ Rs ¹⁵ / per seedling)	
1.	<i>Altingia excelsa</i> (Jutuli)	12. <i>Grevelia robusta</i> (Silver cania)
2.	<i>Adenanthera pavonina</i> (Red- chandan)	13. <i>Kayea assamica</i> (Sia-nahor)
3.	<i>Neolamarckia cadamba</i> (Kadamb)	14.. <i>Magnolia champaca</i> (Tita sopa)
4.	<i>Aphanamixis polystachya</i> (Banderdima)	15. <i>Mimosups elengi</i> (Bokul)
5.	<i>Aquilaria malaccensis</i> (Agar)	16. <i>Shorea robusta</i> (Sal)
6.	<i>Baccaurea ramiflora</i> (Leteku)	17. <i>Syzygium cumini</i> (Kala-jamun)
7.	<i>Chukrasia tabularis</i> (Bogi-poma)	18. <i>Syzygium jambos</i> (Bogi-jamun)
8.	<i>Dipterocarpus retusus</i> (Hoolong)	19. <i>Terminalia myriocarpa</i> (Shlakh)
9.	<i>Duabanga gradiflora</i> (Khohan)	20. <i>Terminalia bellerica</i> (Bhomura)
10.	<i>Elaeocarpus sphaericus</i> (Rudraksh)	21. <i>Terminalia chebula</i> (Hilikha)
11.	<i>Gmelina arborea</i> (Gamhar)	22. <i>Ziziphus mauritiana</i> (Bogori)



Infrastructure and Facilities Available at ICFRE-RFRI

ICFRE -RFRI BOTANICAL GARDEN

ICFRE- Botanical Garden expanded with an area of 3.9 hectare exhibit a wide variety of rare plants consisting of 151 Tree species, 110 orchids, 35 species of Climbers and shrub species, 56 species of medicinal and aromatic plants, 6 species of Gymnosperm 20 species of edible fruits, 15 species Pteridophyte and some Herbaceous species. The Botanical Garden also posses a Orchidarium and a Medicinal & Aromatic Plants Garden.





Infrastructure and Facilities Available at ICFRE-RFRI

ICFRE-RFRI Insectarium

The Insectarium of ICFRE-RFRI (reference collection of North East India) was inaugurated on 5th June, 2022 on the eve of World Environment Day. It was inaugurated by Dr. Atanu Kumar Dutta, Principal, Jorhat Institute of Science and Technology in the presence of Dr. R.S.C. Jayaraj, former Director, ICFRE-RFRI. The Insectarium has a collection of 450 species and 2250 no. of insect specimens arranged order-wise in four cabinets and family-wise inside the cabinets. The facility has a collection of Moths, Butterflies, Beetles, and Orthopteran specimens related to forestry since the year 1978 from various parts of North East India. The Entomology wing under the Forest Protection Division collects the encountered insects and is responsible for the preservation of the insect specimens in the insectarium.



Gustav Mann Herbarium

Herbarium of ICFRE-RFRI was named after the German Botanist Gustav Mann who served as Conservator of Forest in Assam from the year 1870 to 1885 and first started the systematic collection of plants in those years. His collection of plants formed the nucleus of 'Assam Forest Herbarium' housed in Shillong. Presently the herbarium has housed more than 6000 herbarium sheets covering collection of Pteridophyte, Gymnosperm and Angiosperms arranged according to Baentham and Hooker's system of Nomenclature.





Infrastructure and Facilities Available at ICFRE-RFRI

ICFRE-RFRI Tissue Culture Lab

for pursuing research works on biotechnological aspects of plants and their products for productivity enhancement and conservation.



ICFRE-RFRI Seed Technology & Soil Microbiology Labs





Infrastructure and Facilities Available at ICFRE-RFRI

ICFRE-RFRI Geo-Informatics Lab

ICFRE-RFRI has a well equipped GIS laboratory for creation, management, updating and sharing of GIS databases regarding ecology and biodiversity of the North Eastern region.



ICFRE-RFRI Plant Pathology, Mycology & Entomology Labs

ICFRE-RFRI has Plant Pathology, Mycology and Entomology Labs which are well equipped with all facilities to conduct various research activities to evolve eco-friendly management strategies for the management of insect pests, diseases and weeds.



**ICFRE-RFRI
Biochemistry Lab**



The Biochemistry Lab of ICFRE-RFRI has facilities for pursuing research work on biochemistry of plants for value addition and biochemistry bioprospecting.



Infrastructure and Facilities Available at ICFRE-RFRI

ICFRE-RFRI Soil Lab

ICFRE-RFRI has got an well established state of the art Soil laboratory. Various soil analysis including soil, texture, pH, Electrical conductivity, Nitrogen, Phosphorus, Potassium, Organic carbon, Total carbon, Micronutrients etc is done by



Atomic Absorption



Element Analyzer(EA)



Nitrogen Analyzer



Hot Air Oven



Flame Photometer



Water Distillation Unit



Hot Water Bath

ICFRE-RFRI IT CELL FACILITIES

The institute's IT infrastructure is a large setup, serving over 100 end users. It features an OFC based network ensuring round-the-clock internet connectivity. Additionally, the setup includes a well-equipped Computer Lab, two big halls with uninterrupted Video Conferencing (VC) facilities, a strong power backup system, 150-port EPABX system, Bio-Metric Attendance System, CCTV Camera Surveillance System and various other allied IT facilities.



Network Switches



Information Technology



VC Arrangement



CCTV



EPABX System



Online Power Backup System



Infrastructure and Facilities Available at ICFRE-RFRI

ICFRE-RFRI Bamboo Workshop



ICFRE-RFRI Bamboo Charcoal Production Unit



Brick Kiln method is a very effective method of charcoal production. It is a dome shape special structure made up of bricks, mud and molasses mixture. The kilns have a rectangular opening at the bottom through which raw material is loaded into the kiln and have several small openings on the surface of the kiln for inflow/outflow of air. It can increase charcoal yield up to 25-40%.

ICFRE-RFRI Van Vigyan Kendras (VVKs)

Six Van Vigyan Kendras (VVKs) are in operation in six North Eastern States, as given below.

Sl	State	Location of VVKs
1	Assam	Assam Forest School, Guwahati
2	Arunachal Pradesh	SFRI, Itanagar
3	Nagaland	SEFTI, Dimapur
4	Mizoram	Forest Training School, Aizawl
5	Tripura	FRC-LE, Hatipara, Agartala
6	Manipur	SFTI, Mantri Pukhuri, Imphal



Infrastructure and Facilities Available at ICFRE-RFRI

ICFRE-RFRI Bambusetum & Bamboo Germ Plasm bank

ICFRE-RFRI Bambusetum has 50 species and the germplasm bank contains more than 200 selected genotypes of commercially important bamboo species.



ICFRE-RFRI Bamboo Nurseries





Infrastructure and Facilities Available at ICFRE-RFRI

ICFRE-RFRI Vermicompost Unit



ICFRE-RFRI AUDITORIUM



ICFRE-RFRI SCIENTISTS' HOSTEL



ICFRE-RFRI LIBRARY



ICFRE-RFRI library is a leading organizational setup in the whole North East India having collection of forestry related literature. The collection mainly deals with the broad spectrum of forestry; and its allied fields such as – Conservation of Flora and Fauna, Environment, Climate, Natural resource management, Biology, Chemistry, Forest protection, Silviculture, Forest soils, Biotechnology, Ecology, Agro-forestry, Biodiversity, Bamboo & Rattans, GIS & Remote Sensing, literature related to North East India.

Following is a quick view of the resources available in ICFRE-RFRI Library

Sl.	Resources	Total Stock	Remarks
1	Books	7666	include books, journals, annual reports, proceedings, Theses, donated books, etc.
2	Non Book materials	1555	incudes pamphlets, brochures, bulletins, booklets etc.
3	Journals, magazines, newsletters subscribed during (2022-2023)	16	Indian
4	Total Loose Journals	2650	Indian
5	Bound Vols. of Journals, Newsletters and Bulletins	2412	Comprising titles of Indian & Foreign Journals, Newsletters and Bulletins
6	Maps	44	
7	CD-ROM/Floppy/Video Cassettes	514	Includes documentary, software, databases etc



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