

ICFRE

NEWSLETTER

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FIRSI NATIONAL LEVEL "KICK-OFF MEETING OF THE STAKEHOLDERS OF FIVE STATES"
"DPR Preparation of Forestry Interventions for Ganga"
25 - 26 May, 2015
Convocation Hall, Forest Research Institute, Dehradun



INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION
P.O. NEW FOREST, DEHRADUN (UTTARAKHAND)

ICFRE NEWSLETTER

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January to June 2015

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Front Cover:

1."Chintan Shivir"

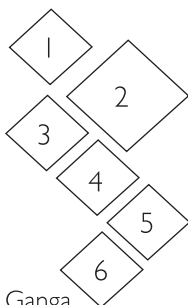
2."Chintan Shivir"

3.Secretary, MoEF&CC releasing a booklet on Casuarina at IFGTB, Coimbatore

4.DPR Preparation of Forestry Interventions for Ganga

5.Workshop on 'Alignment of National Action Programme on Combating Desertification to 10 year strategy of UNCCD,

6. Training cum demonstration programme on Agroforestry



Patron's Column



The Indian Council of Forestry Research and Education (ICFRE), Dehradun, an autonomous Council under the Ministry of Environment, Forests and Climate Change, New Delhi is mandated to carry out research, promote education and to extend outcomes of research to the various stakeholders ranging from farmers to State Forest Departments and artisans to industries.

The Council had been engaged in a big way for DPR Preparation of Forestry Interventions for Ganga under National Mission for Clean Ganga. The first consultation meeting for DPR preparation of forestry intervention for Ganga for the State of Uttarakhand was held on 16 and 17 April 2015 at FRI, Dehradun followed by Consultation meetings of Uttar Pradesh and Bihar. The first national level 'Kick-off meeting of the stakeholders of five states' for DPR preparation of forestry intervention for Ganga was held on 25 and 26 May 2015 at FRI, Dehradun.

The Council is known for development of innovative environment friendly technologies, processes and products. In the process, a new biopesticide "Crawl Clean" has been developed by IFGTB, Coimbatore for the control of papaya mealy bug. In an effort to extend the research outputs for the end users, IFGTB, Coimbatore has entered into a non-exclusive license agreement with the International Papers - APPM Limited to commercially propagate five high-yielding clones of Casuarina developed by the Institute. Similarly, IWST, Bengaluru has filed one provisional patent for "New Composition of Soap" for dissemination of the process to the industry.

The Council is providing consultancy services on various environmental issues in different sectors including hydropower and reclamation of mined areas. 'Environmental Audit of 20 opencast coal mines operated by Coal India Limited & subsidiary coal companies' has been awarded to ICFRE by Coal India Limited. FRI, Dehradun has entered into a consultancy agreement with Bharat Coking Coal Ltd. (BCCL) Dhanbad to act as technical advisor/expert for the ecological restoration work being undertaken by BCCL on Over Burden dumps/mined out areas.

In a first of its kind a two days Tree Growers Mela was organised by RFRI, Jorhat in North-East India during March 2015 for sensitizing various stakeholders about the technologies and processes available for dissemination. Similarly, networking activities were undertaken in collaboration with KVK by all institutes under the council for wider reach of research programmes of the council.

I earnestly hope that this issue of the Newsletter will be helpful in highlighting the diverse activities being undertaken in the Council.

Dr. Ashwani Kumar
Director General

'Chintan Shivir' at Bengaluru

☞ **Institute of Wood Science and Technology (IWST)**, Bengaluru has organized two days "*Chintan Shivir*" at NIAS, Bengaluru on 08 and 09 February 2015. The participants were Forest Officers from the states of Southern India. This was a unique and innovative initiative enabling officers from Environment, Forest, Pollution Boards and Scientists from the concerned departments to participate in the Shivir to introspect and discuss the various aspects related to Ministry



"Chintan Shivir" at Bengaluru

of Environment, Forests and Climate Change (MoEF & CC).

DPR Preparation of Forestry Interventions for Ganga

☞ **Forest Research Institute (FRI), Dehradun** is actively engaged in Preparation of DPR of Forestry Interventions for Ganga. The first consultation meeting for the State of Uttarakhand was held on 16 and 17 April 2015 at FRI, Dehradun. The meeting was attended by about 110 participants including officials, representatives from state forest department of Uttarakhand, Uttarakhand Biodiversity Board, Peyjal Nigam, FSI, UGVS, SPMG, NGBRA, Dept of Agriculture and Horticulture and participants from Institutes like National Institute of Hydrology, Indian Institute of Remote Sensing, Indian Institute of Soil & Water Conservation, Wadia Institute of Himalayan Geology, Survey of India etc.

☞ Another consultation meeting for Uttar Pradesh for DPR preparation of forestry intervention for Ganga was held on 11 and 12 May 2015 at **Centre for Social Forestry and Eco-rehabilitation (CSFER)** Allahabad,

Uttar Pradesh. The meeting was attended by about 150 participants from various Government departments, Universities and other institutes of national repute.

☞ The first Consultation Meeting for Bihar on "DPR Preparation of Forestry Interventions for Ganga" was held on 19 and 20 May 2015 at Aranya Bhawan, Patna (Bihar). Hon'ble Chief Minister of Bihar, Shri Nitish Kumar inaugurated the meeting which was attended by about 100 participants.



1st Consultation Meeting for Uttarakhand of DPR Preparation of Forestry Interventions for Ganga



FIRST NATIONAL LEVEL "KICK-OFF MEETING OF THE STAKEHOLDERS OF FIVE STATES"

"DPR Preparation of Forestry Interventions for Ganga"

25 - 26 May, 2015

Convocation Hall, Forest Research Institute, Dehradun



First National level "Kick-off Meeting of the Stakeholders of five states" for DPR Preparation of Forestry Interventions for Ganga

The first national level 'Kick-off meeting of the stakeholders of five states' for DPR preparation of forestry intervention for Ganga was held on 25 and 26 May 2015 at FRI, Dehradun. The meeting was attended by around 135 participants. Dr. Ashwani Kumar, DG, ICFRE inaugurated the programme and officially launched the web site www.forganga.in. Participants for group discussion were divided state-wise and one representative from each group gave presentation based on the 16 questions given to them.

UNCCD Workshops to Combat Desertification

ICFRE, Dehradun organized one day workshop on 'Alignment of National Action Programme on Combating Desertification with 10 year strategy of United Nations Convention to Combat Desertification (UNCCD)' on 22 April 2015 at ICFRE, Dehradun.

AFRI, Jodhpur organized another workshop on combating desertification on 18 March 2015 under UNCCD. The workshop was inaugurated by Dr. G.S.Goraya, DDG (Research), ICFRE. Welcoming the guests Shri N.K.Vasu, Director, AFRI, informed



One day workshop on 'Alignment of National Action Programme on Combating Desertification with 10 year strategy of UNCCD'

about the theme of workshop "reducing land degradation in the country in next 10 years and to get it to zero mark by 2030".

Participation in Foreign Meetings/ Workshops/ Symposia etc.

Dr. B. Gurudev Singh, GCR; Dr. A. Nicodemus, Scientist – E; Dr. V. Sivakumar, Scientist – E, IFGTB, Coimbatore visited Thailand for holding meeting under USAID Project from 17 to 27 January 2015.

Dr. V. P. Tewari, Director HFRI, Shimla visited Germany for preparing research proposal from 01 to 15 February, 2015.

Dr. Ashwani Kumar, DG, ICFRE, Dehradun visited Philippines to attend "Asia C & I

Regional Workshop" from 28 to 30 April 2015.

- ☞ Dr. Ashwani Kumar, DG, **ICFRE, Dehradun** visited Ecuador to attend "**3rd World Teak Conference-2015**" from 11 to 15 May, 2015.
- ☞ Shri V.R.S. Rawat, Scientist -E, ICFRE, Dehradun participated as a member of Indian delegation in the 42nd session of the Subsidiary Body for Scientific and

Technological Advice (SBSTA) of United Nations Framework Convention on Climate Change from 01 to 11 June 2015 at Bonn, Germany.

- ☞ Dr. N.S.K. Harsh, Scientist – G, FRI, Dehradun visited Cambodia for Survey of Vegetation and to give suggestions for formulation of training programme. He also attended ICC technical committee Meeting from 05 to 11 June 2015.

Workshops/ Seminars/ Meetings etc.

- ☞ **ICFRE, Dehradun** organized research workshop on "**Showcasing the Significant Findings in Forestry Research**" during 24 and 25 February 2015 at Van Vigyan Bhawan (ICFRE), New Delhi.
- ☞ **ICFRE, Dehradun** organized one-day inception workshop under NMPB sponsored project '**Study-cum-Survey to Assess the Demand and Supply of Medicinal Plants in India**' on 08 May 2015 at ICFRE, Dehradun for finalization of the work plan for execution of the project. About 22 participants from ICFRE and its institutes and Foundation for Revitalization of Local Health Traditions (FRLHT), Bengaluru participated in the workshop.
- ☞ **FRI, Dehradun** and the International Centre for Integrated Mountain Development (ICIMOD) organized an International Symposium on "**Transforming Mountain Forestry**" from 18 to 22 January 2015 in the Institute. Delegates from various countries participated in the symposium.
- ☞ **Institute of Forest Genetics and Tree Breeding (IFGTB), Coimbatore** organized a two day Regional Evaluation-cum-Training Workshop for ENVIS Centers of Southern

Region (i.e., Karnataka, Tamil Nadu, Kerala, Andhra Pradesh and Pondicherry) at Coimbatore (T.N.) hosted by ENVIS Centre at Institute of Forest Genetics and Tree Breeding on 05 and 06 February 2015. Around 50 participants of thematic as well as State/UT ENVIS Centers participated in the workshop. During the workshop, ENVIS Newsletter – Van Vigyan, ENVIS Poster on Forest Genetic Resource and Tree Improvement & Quiz Booklet for School kids were released.



Regional Evaluation-cum-Training Workshop for ENVIS Centres of Southern Region at Coimbatore

- ☞ **Rain Forest Research Institute (RFRI), Jorhat** organized following meetings/seminars:-
 - Day long **Stakeholders' meet on Aquilaria (Agar)** sponsored by National Medicinal Plants Board, Ministry of AYUSH, Gol on 31 January 2015 in Guwahati.

- A two days National Seminar on 'Recent Advances on Agarwood Research in India,' on 10 and 11 March 2015. About 70 participants including scientists, traders and farmers from north-east and other parts of the country took part in the seminar. The valedictory session was chaired by Dr. Ashwani Kumar, IFS, Director General, ICFRE, Dehradun.

- ☞ **Advanced Research Centre for Bamboo and Rattan (ARCBR), Aizawl** organized a day long Regional Seminar on 'Livelihood Opportunities with Bamboo and Rattan in the North-East India' on 14 March, 2015. The seminar was attended by Forest Officers, Scientists, Industrialists, and Academicians of Assam, Mizoram, Manipur and Tripura.
- ☞ **Centre for Forest Livelihood and Extension (CFLE), Agartala** organized a liaison meeting



National seminar on 'Recent Advances on Agarwood Research in India' organised by RFRI, Jorhat

for entrepreneurship development for Bamboo Handicrafts, Bamboo Nursery and awareness generation for promotion of Bamboo Plantations on 30 June 2015.

- ☞ **TFRI, Jabalpur** organized a two days workshop on "Biological Diversity Act, 2002; Constraints and Opportunities for Scientific Community" on 19 and 20 March 2015, sponsored by National Biodiversity Board, Chennai.

Training Programmes

- ☞ **ICFRE, Dehradun** organized following training programmes:
 - One week DST sponsored training programme on "**Climate Change and Carbon Mitigation**" for scientists and technologists working in Government sector from 05 to 09 January 2015.
 - One week DST sponsored training programme on "**Climate Change: Vulnerabilities and Adaptation Strategies**" for Scientists and Technologists working in Government sector, from 02 to 06 February 2015.
 - Two days MoEF&CC sponsored training workshop on "**REDD Plus in India: Issues and Challenges**" for officers of Indian Forest Service on 25 and 26 June 2015.

- ☞ **FRI, Dehradun** organized following training programmes:
 - The first five days training programme on "**Conservation & Management of Coastal Ecosystem**" for 12 Commandants of Indian Coast Guards from 12 to 16 January 2015.
 - A five days training programme on "**Forestry as Livelihood in Climate Change Adaptation**" for the officers (DCF/ACF) of State Forests Departments from 09 to 13 February 2015.
 - Five days training on "**Agroforestry and land management**" for foresters and forest guards of Bihar under sponsorship of Bihar government from 16 to 20 February 2015.
 - A five days orientation training course on "**Wood Science and Technology**" for officials

from M/s Faith Lumber Pvt. Ltd, Gandhidham, Gujarat from 23 to 27 February 2015.

- A three days training course on “**Preparation of Bamboo Handicrafts for farmers, artisans and self-help groups of Himachal Pradesh and Punjab**” from 25 to 27 February 2015. •
- Field training for DST funded project “**Promoting Non-Wood Forest Products (NWFPs) and Forest Invasive Species (FIS) for livelihood support to rural women of Uttarakhand**” on 03 and 04 March 2015 and from 24 to 27 March 2015 at FRH, Khirsu. Women from different villages of Khirsu Block, Pauri Garhwal participated in the programme.
- A five days training programme on “**Role of Forestry Sector in Disaster Risk Management**” for the officers (DCF/ACF) of State Forests Departments from 08 to 12 June 2015.
- A five days training-cum-workshop on ‘**Essential oil, perfumery and aromatherapy**’ in collaboration with Flavour and Fragrance Development Centre (FFDC), Kannauj from 22 to 26 June 2015.

☞ **IFGTB, Coimbatore** organized following training programmes:

- Two Sensitization Courses on “**Forests, Wildlife, and Environmental Conservation**” sponsored by Ministry of Environment, Forests and Climate Change, New Delhi for three days for officers of government departments other than Forest department from 07 to 09 January 2015 & from 12 to 14 January 2015. Altogether 44 officers (22 in each training) attended the course.

- Two three days training programmes (sponsored by MoEF & CC) on ‘**Plant Taxonomy**’ for skill Upgradation of University /College/ School teachers and Research Scholars working in the field of Biodiversity/Taxonomy was conducted from 23 to 25 February 2015 and from 04 to 06 March 2015. The training programme was attended by 65 participants.



Training programme on ‘Plant Taxonomy’ in IFGTB, Coimbatore

- Two three days training courses (sponsored by MoEF & CC) on “**Bamboos- importance utilization and conservation**” for skill upgradation of University/ College/ School teachers, NGOs and Research Scholars working in the field of bamboo from 26 to 28 February 2015 and from 02 to 04 March 2015.
- Hill Area Development Programme (HADP), Govt. of Tamil Nadu funded Training -cum -demonstration on “**Bio-fertilizer Production and Application Methods in Nursery and Field**” for various stakeholders like SFD Officials, HADP Watershed Cluster Farmers, Tree Growers and NGOs of Nilgiris District at Gudalur, Nilgiris District, (T.N.) on 10 March 2015.

Another HADP funded training programme on “**Role of Medicinal**”

Plants and other Forest Products in Livelihood Enhancement for Tribals of Nilgiri District" at Ootacamund, Nilgiri District, (T.N.) on 30 March 2015. Tribal people of Nilgiri district and members from NGOs attended the training.

- Training-cum-Demonstration on "**Bio-fertilizers and Bio-manures Techniques for Production, Maintenance and Application**" for Women Farmers and Women Self-Help-Groups of Nilgiris district held at Ootacamund on 09 April 2015.
- Programme on Training-cum-Demonstration on "**Bio-fertilizer Production and Application Methods in Nursery and Field**" to transfer Biofertilizer Technology to different stakeholders like SFD Officials, Farmers, Tree Growers and NGOs of Nilgiris District on 05 June 2015.

☞ **Institute of Wood Science and Technology (IWST), Bengaluru** organized following training programmes:

- Training on "**Wood Protection**" for 19 participants from Naval Dockyard, Mumbai, Four from Naval Dockyard, Visakhapatnam and one from Railways, Bengaluru from 19 to 21 January 2015.
- Short term training Course on "**Sandalwood – Seed handling, nursery & plantation technology**" from 16 to 20 February 2015.
- Five days training for farmers of Karnataka and adjoining states in Raising, Managing and Marketing Bamboo from 23 to 27 February 2015.
- One week training programme on "**Field Identification of Important Timbers**" from 02 to

06 March 2015 for in-service officials of Naval Dockyard, Visakhapatnam and other participants from private organizations.

- A training programme on "**Bamboo propagation and Utilization**" at Mysore in coordination with M/s Sushira, an NGO of Mysore alongwith Arivu School on 08 March 2015 for entrepreneurs, arts students, architects and farmers.
- Two days training workshop on 06 and 07 May 2015 for the IFS officers on "**Advancements in wood products and utilization**", sponsored by MoEF&CC.

☞ **RFRI, Jorhat** organized following training programmes:

- One day training programme on 09 January 2015 for 15 trainees from Forest Training School, Manipur.
- A Technology Demonstration Session on "**Bamboo Preservation Techniques**" for the local Communities of Kanchanpur at Bamboo Treatment Centre operational under Mars Socio Welfare Society (MSWS) on 20 January 2015.
- One day training programme on 22 January 2015 for 30 famers from the Institution for Culture and Rural Development, Baghchung, Jorhat.
- One day training programme on 23 January 2015 for officers of Wildlife wing, Forest Department, Honorary Wildlife wardens, wildlife activists, media persons and member of civil societies from Manipur.
- Training-cum-workshop on Bamboos Ornaments from 16 to 28 March 2015 under Direct to Consumer scheme (DTC) for 28 trainees of Tinsukia, Sibsagar, Jorhat,

Nagaon and Morigaon district of Assam under the Project "Capacity building, skill upgradation of artisans and promotion of traditional Bamboo handicraft and art with improved technology, suitable design and value addition".



Training on Bamboos Ornaments at RFRI, Jorhat

- Training on "Agroforestry and Low-cost vermi-composting techniques" for 60 JFMC members of Golaghat Forest Division, Assam on 22 and 23 March 2015, as a part of the wider objective of implementing Green India Mission.
- A Field Functionaries Training from 06 to 10 April 2015 on "Bamboo" sponsored by Odisha Bamboo Development Agency, Bhubaneswar, Odisha under National Bamboo Mission.
- A Technology Demonstration Session on Bamboo treatment technique at the Demonstration Centre for Bamboo Treatment Techniques established under a grass-root level NGO -Tripura Bamboo and Cane Development Centre (TRIBAC).



Demonstration of Bamboo Treatment Techniques by RFRI, Jorhat

- A Training Workshop on "**Flemingia-based Lac Cultivation**" at Panisagar Forest Range Office, North Tripura on 20 June 2015.
- ☞ **TFRI, Jabalpur** organized following training programmes:
 - Nine training programmes of one-week duration each for Skill Upgradation of Bamboo Artisans under MP State Bamboo Mission consultancy, at Harda, Narsinghpur, Panna, Chattarpur, Guna, Singrauli and Sidhi from January to March 2015.
 - Three training programmes for B.Sc. final year students from Govt. Science College, Jabalpur.
 - One week training programme on "**Training on Instrumentation**" at TFRI, Jabalpur from 23 to 27 February 2015.
 - One week training programme on "**Agroforestry Principles and Management Practices**" from 01 to 05 June 2015.
- ☞ **CFRHRD, Chhindwara** organized following training programmes:
 - Two training programmes on "**Pollinators/Farmers friendly insects and biopesticides/Eco-friendly management of bark eating caterpillar on aonla**" on 09 February 2015 for State Forest Department (SFDs) officials from Sausar, Kanhan and Ambada Range of South Chhindwara Division and on 10 February 2015 for farmers of Maudai village, Chhindwara District.
 - One day training programme on "**Nursery Techniques of B. lanzan (Chironji)**" on 24 March 2015 for farmers of Manegaon village, Chhindwara District (MP).

☞ **Himalayan Forest Research Institute (HFRI), Shimla** organized following training programmes:

- One day training and demonstration Programme on “**Cultivation of Atish, Ban Kakri, Chora and other High Valued Temperate Medicinal Plants**” at Shaneri, Rampur (H.P.) on 11 February 2015.
- A three days training programme on “**Cultivation of Medicinal Plants**” under the scheme “Training of Other Stakeholders” from 20 to 22 March 2015 at Rampur, Distt. Shimla.

☞ **Institute of Forest Productivity (IFP), Ranchi** organized following training programmes:

- One day training programme for the socio-economic upliftment of villagers through scientific Lac Cultivation on *Flemingia semialata* in tribal dominated forest area at Bundu on 03 February 2015.
- A training programme on “**Scientific Lac Cultivation for Socio-economic upliftment of the farmers**” sponsored by State Industrial & Rural Development, Ranchi from 09 to 14 February 2015.
- BTSG sponsored training programme on **raising, managing and marketing of bamboos** for farmers of Jharkhand and adjoining states from 23 to 27 February 2015 at IFP, Ranchi.
- Six days training programme sponsored by SIRD-NIRD at IFP, Ranchi on “**Livelihood generation of Farmers through NTFP cultivation**” from 09 to 14 March 2015.
- Six days training programme sponsored by SIRD-NIRD on “**Livelihood generation of Farmers through Production, Utilization**

Value addition and Marketing of Bamboos from 16 to 21 March 2015.

- Two days training programme on “**Socio-economic upliftment of farmers through scientific Lac cultivation**” on 17 and 18 March 2015 at Nucleous Broodlac Farm, Chandwa, Latehar.
- Two days training programme in association with General Produce Company (GPCL), Gua, Saranda at Jojogutu, Saranda Forest Division, West Singhbhum on “**Socio-economic upliftment of Farmers through scientific Lac cultivation**” on 23 and 24 March 2015.



Training programme on "Socio-economic upliftment of Farmers through scientific Lac cultivation" at IFP, Ranchi

☞ **Institute of Forest Biodiversity (IFB), Hyderabad** organized training in Sustainable agroforestry models for Andhra Pradesh from 09 to 11 March 2015 at IFB Campus, Hyderabad.

☞ **Centre for Social Forestry and Eco-rehabilitation (CSFER), Allahabad** organized following training programmes:

- A three day specialized training on Social Forestry in Rural Development and Poverty Alleviation from 24 to 26 February 2015 for trainees of Bhavishya Educational and Charitable Society.

- Three training programmes to disseminate the findings of “**Phyto-remediation of water logged waste land through bio-drainage and soil amendments**” to the end-users at Handia, Phoolpur (Allahabad district) on 13 & 15 March 2015 and at Badshapur (Jaunpur district) on 20 March 2015.
- Training- cum- demonstration programme on Agroforestry in eastern U.P on 18 March 2015 for local farmers.



Training cum demonstration programme on Agro-forestry in U.P.

- One-day Farmer training on Development of Agroforestry in eastern U.P at Chandauli district on 27 March 2015.

Research Findings

- ☞ A new species of *Aprostocetus* parasitizing *Pauropsylla ficicola* a leaf gall making psyllid of *Ficus roxburghii* has been identified at FRI, Dehradun.
- ☞ IFGTB, Coimbatore has made an attempt to reclaim the barren laterite lands in Kasargod District (Kerala) using beneficial microbes. Beneficial microbes such as AM fungi, Phosphobacterium and Azospirillum were cultured and were inoculated in the seedlings of *Switenea macrophylla*, *Ailanthus triphysa*, *Holoptelia integrifolia* and *Butea monosperma*. Upon inoculation, these seedlings were grown in laterite soils as potting media. The improved seedlings were planted in barren laterite lands for studying their out planting performance. The seedlings shown good growth and survival performance in the field conditions though they were planted in summer months. New leaves and branches appeared in the planted seedlings with minimum water regime.
- ☞ IFGTB, Coimbatore attempted to isolate Actinomycete isolates from soil samples collected from agro-forestry sites in Tamil Nadu. An experiment was conducted to



Planted *A. triphysa* seedlings in laterite lands

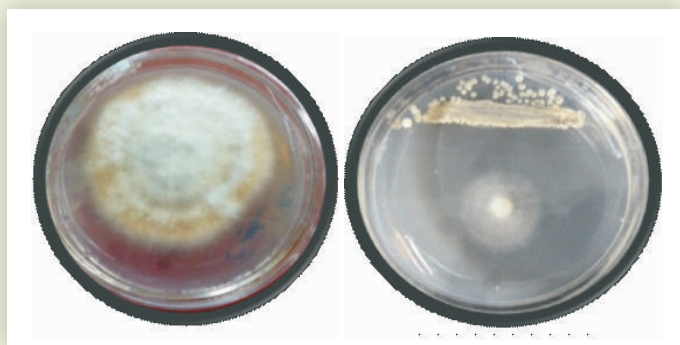


Planted *S. macrophylla* seedlings in laterite lands



Fresh leaves in planted seedlings

determine the antagonistic activity of 35 different isolates of Actinomycetes isolates against selected plant pathogenic fungi viz., *Fusarium moniliforme*, *Rhizoctoia solani* and *Sclerotium rolfsii* under *in vitro* conditions. Among 35 Actinomycetes isolates, one isolate (Actinomycete No.2:10) showed strong antagonistic activity against the selected plant pathogens. The isolate was identified as *Streptomyces samponii* through molecular characterization (gene bank accession formula: *Streptomyces* KP970678).



Control (*Fusarium moniliforme*) Inhibition by Actinomycete isolate against *F. moniliforme*

☞ *Achromobacter xylooxidans* – A potential plant growth promoter as well as bio-control agent :- IFGTB, Coimbatore has found one bacterium isolate, *Achromobacter xylooxidans* in tannery effluent treatment

plant, Dindigul, Tamil Nadu which had very good plant growth promoting factor and was further screened for its bio-control activity against selected plant pathogens viz., *Alternaria solani*, *Curvularia lunata* and *Fusarium oxysporum* under *in vitro* condition. The bacterium isolate was found most effective against *C. lunata* (95%), followed by *A. solani* (85%) and *F. oxysporum* (80%).

☞ Based on the histo- anatomical and biochemical studies on culms of different stages of bamboo conducted at **IVST, Bengaluru**, starch content in flowered bamboo has been found less as compared to non-flowered bamboo and flowering did not affect the bending strength of bamboo. The findings suggest that flowered bamboo can be stored safely for longer period without much deterioration and can have applications similar to non-flowered bamboo.

☞ **IVST, Bengaluru** has developed an efficient and new route for synthesis of carboxymethyl cellulose (CMC), a most widely used biopolymer for various applications.

Visit of Dignitaries

☞ Shri Hem Pande, IAS, Additional Secretary, MoEF&CC visited **IVST, Bengaluru** on 09 April 2015 and interacted with the officials of the institute.

☞ Prof. Klaus V. Gadow, Institute of Forest Inventory and Remote Sensing, University of Goettingen, Germany visited **HFRI, Shimla** during April, 2015. He conducted an in-house workshop on the "**Use of Statistical**

Software 'R' in forestry" and delivered lectures on '**Scientific writing and publishing' and 'Analyzing Forest structure and diversity'**.'

☞ His Excellency, Shri K. K. Paul, Governor of Uttarakhand visited **FRI, Dehradun** on 22 May 2015 and graced the valedictory function of the ICIMOD symposium.

☞ Shri Ashok Lavasa, IAS, Secretary, MoEF&CC, New Delhi visited **IFGTB,**

Coimbatore on 16 June 2015. During his visit, he released a new biopesticide “**Crawl Clean**” developed by the institute for the control of papaya mealy bug. He also released a booklet on “**Casuarina as Cash crop: A guide for profitable cultivation**”. Shri Lavasa, also visited **IWST, Bengaluru** on 17 March 2015 and interacted with scientists of the Institute.



Secretary, MoEF&CC releasing a booklet on Casuarina at IFGTB, Coimbatore

Publications

☞ **IFGTB, Coimbatore** published following books and booklet:

- Bamboos – its importance, utilization and conservation – Training Manual for training course to personnel of other departments.
- ENVIS Newsletter – Van Vigyan.
- A booklet on “**Casuarina as cash crop: A guide for profitable cultivation.**”

- Bio-fertilizers and Bio-manures – Techniques for Production, Maintenance and Application (in Tamil).

☞ **HFRI, Shimla** published booklets / brochures/pamphlets on various medicinal plants including Atish, Chora and Van Kakadi in Hindi.

☞ **RFRI, Jorhat** published a brochure “**Noni: A Wonder Plant for Universal Panacea**”.

Consultancies

☞ In the process of rendering scientific services to various sectors for effective environmental management, following activities have been undertaken by the **ICFRE**:

- The teams from ICFRE, Dehradun; Central Institute of Mining and Fuel Research (CIMFR), Dhanbad, and Wildlife Institute of India (WII), Dehradun conducted preliminary field visit from 25 to 28 February 2015 for baseline data collection and also conducted survey alongwith subject matter experts from 23 April 2015 to 05 May 2015 for preparation of draft interim report for carrying out “**Carrying Capacity Study of Saranda region in West Singhbhum District, Jharkhand**”.

- The Final EIA/EMP Report of Surgani Sundla was submitted to the Himachal Pradesh Power Corporation Limited (HPPCL) on 05 March 2015.

- Studies on ‘**Environmental Audit of 20 open-cast coal mines operated by Coal India Limited & subsidiary coal companies**’ has been awarded by Coal India Limited, Kolkota.

☞ **FRI, Dehradun** has entered into a consultancy agreement with Bharat Coking Coal Ltd. (BCCL) Dhanbad “**To act as technical advisor/expert for the ecological restoration work being undertaken by BCCL on OB dumps/mined out areas (44.0 ha)**”.

- ☞ **HFRI, Shimla** has been awarded a new consultancy for carrying out “Monitoring & Evaluation of plantations raised under CAMPA” by HPSFD, Shimla.
- ☞ **TFRI, Jabalpur** has been awarded a consultancy by Pandit Dwarka Prasad Mishra Indian Institute of Information Technology,

Design & Manufacturing (IIITDM) Jabalpur, for greening its campus in synchronization with local environment at Dumna, Jabalpur. The Institute also completed a consultancy awarded by MP State Bamboo Mission regarding Technical Evaluation of CFCs and Capacity building of Stakeholders.

Patent

- ☞ **IWST, Bengaluru** has filed one provisional patent on “**New Composition of Soap**”.

Tree Growers Mela/ Kisan Mela

- ☞ **IWST, Bengaluru** put up a stall in “**Kisan 2015: Indian Agriculture Trade Fair**” held at Bengaluru International Exhibition Centre, Bengaluru from 09 to 11 January 2015.
- ☞ **IFP, Ranchi** participated in the Annual Kisan Mela-cum-Exhibition organized by Indian Institute of Natural Resins and Gums, (IINRG) Namkum, Ranchi on 29 January 2015. A stall for exhibition of cultivation of Lac, Medicinal Plants, Tissue culture plants, Bamboos, Vermi compost was set up in the event.
- ☞ **RFRI, Jorhat** has organized two days “**Tree Growers Mela**” on 20 and 21 March 2015 to increase the awareness among the farmers, foresters and general public of the society about the needs of tree plantation for



Interactive session with participants of “Tree Growers” Mela at RFRI, Jorhat

livelihood management and mitigation of climate change. More than 350 progressive farmers of North-Eastern states participated in the Mela. Apart from students from Universities, representatives from NGOs, SHGs, JFMCs, Government Departments, and financial institutions like NABARD took part in the Tree Growers' Mela, which was held for the first time in North-East India.

Miscellaneous

World Forestry Day

- ☞ World Forestry Day was celebrated by FRI, Dehradun on 21 March 2015. Achievements of the institute were depicted through posters and models at the Information Centre of the institute. Visit to museums of the Institute was free on

World Forestry Day for the general public.

World Environment Day

- ☞ **FRI, Dehradun** observed World Environment Day on 05 June 2015. On this occasion, an exhibition was organized in the corridor of the main building. Visit to museums of the FRI and photo Gallery of

City Rangers College was free for the general public to mark the occasion.

- ☞ **RFRI, Jorhat** observed the Day in collaboration with 'Rengoni', a Jorhat based NGO at Haridev Kalakristi Kendra, Mori Jhanji, Jorhat (Assam) on 5 June 2015. A farmers' meet and consultation workshop on promotion of Forest-based Livelihoods for Environmental Security was conducted to mark the occasion of World Environment Day, 2015 at Kanchanpur, Tripura from 03 to 05 June 2015.
- ☞ **TFRI, Jabalpur and CFRHRD, Chhindwara** observed the Day on 05 June 2015. An Environmental Awareness programme through lectures was organized by the institute.
- ☞ **AFRI, Jodhpur** observed the Day by organizing a campaign for cleaning the AFRI campus along with other activities.
- ☞ **HFRI, Shimla** also observed the Day by way of presentations of various aspects of Environment relevant to the occasion.

International Biodiversity Day (IBD)

- ☞ IBD was celebrated on 22 May 2015 across the ICFRE Institutes. The event was

observed at ENVIS Centre on Forest Genetic Resources and Tree Improvement, IFGTB, Coimbatore. Several awareness programmes viz. lectures, painting competition and film show were conducted on Biodiversity Conservation for Sustainable Development by TFRI, Jabalpur and CFRHRD, Chhindwara. Similarly the day was celebrated in IWST, Bengaluru, AFRI, Jodhpur, HFRI, Shimla and RFRI, Jorhat.

World Day to Combat Desertification (WDCD)

- ☞ **HFRI, Shimla** observed World Day to Combat Desertification (WDCD) on 17 June 2015 that was attended by scientific and technical support staff of the institute.

45th Earth Day

- ☞ The 45th Earth Day celebration programme was organised by **HFRI, Shimla** on 22 April 2015 at its upcoming Western Himalayan Temperate Arboretum at Potter Hill, Shimla. Children from various schools participated in the programme. Mr. Gautum Prasad Sapkota from Nepal, the famed 'Birdman' by his amazing bird voices kept the participants in a joyous mood in an interactive session. An exhibition of Hill Bamboo products was also displayed for children.

Awards

- ☞ Dr. D.N. Tiwari, Ex- Director General, ICFRE has been awarded "**World Bamboo Pioneer Award**" in 2015 by the World Bamboo Organization for his lifetime commitment for promoting bamboo.
- ☞ Devesh Tewari, JRF, Chemistry Division, **FRI** got First Prize for Best Poster Presentation entitled "Assessment of Antidepressant Efficacy of *Ocimums kilimandscharicum*

Gurke." in the National Seminar cum Workshop on Advances, Perspective and Challenges in Chemical Sciences (CHEMCON 2015) held on 11 and 12 February 2015 at SBS PG Institute of Biomedical Sciences and Research, Dehradun.

- ☞ Dr. Vipin Parkash, Scientist-D, **RFRI, Jorhat** was conferred with 'Achiever Award- 2014' by SADHNA (Society for Advancement of

Human and Nature, Dr. Y. S. Parmar University of Horticulture & Forestry, Solan, Himachal Pradesh) for recognizing the outstanding scientific contribution made by various Scientists, Teachers and Researchers in different fields. He has also been awarded with Life Membership of the Honorary Board and Authorship of the Society.

- ☞ Dr. Vipin Parkash, Scientist-D, **RFRI, Jorhat** has been conferred with George Bentham Research Award-2015 in Biodiversity by IASR (International Agency for Standards and Ratings), for recognizing the outstanding scientific contribution made by him in the

field of microbial diversity (endomycorrhizae).

- ☞ Dr. N. Roychoudhury, Dr. N. Kulkarni, S. Chandra, R.B. Singh and A.K. Das, **TFRI, Jabalpur** received 1st prize for the poster entitled "Toxicity of bio and chemical pesticides against beetles of Sal heartwood borer *Hoplocerambyx spinicornis* and their efficacy in tree traps and logs in timber depot" at 13th Silviculture Conference held from 24 to 28 November 2014 at Dehradun.
- ☞ *Adhyatma Shetra Paryavaran Sansthan, Jodhpur* awarded 28th *Vriksh Bandhu* Award to **AFRI, Jodhpur**.

Activities under VVKs

- ☞ **FRI, Dehradun** has organized one day training programme on "**Management of disease and insect-pest of Agroforestry species**" under VVK & KVK networking on 13 February 2015 at Damla, Yamunanagar.
- ☞ Under a VVK training programme was

organised by CFLE. 60 JFMC members from all over Tripura visited the Centre for getting exposure on vermi-composting techniques. Officials explained operationalization of Vermi Compost Units (VCUs) for technical support to extend the same to their locality.

Rajbhasha News

- ☞ **IFGTB, Coimbatore** conducted Hindi Workshop on 26 May 2015 with the theme "Importance of Hindi in Central Govt. Office and working in Hindi on I.T. Tools". The Chief guest of the function Shri Vikram Soni, Assistant Director, Hindi Teaching Scheme, Coimbatore delivered a brief lecture on Rajbhasha Website, Rules and provisions of Official Language, Easy way to learn Hindi Typing, Shortcut keys to work in MS word in Hindi, Unicode Computer Typing,



Hindi Workshop at IFGTB, Coimbatore

Introduction to LILA Hindi Prabodh, Praveen and Pragya examinations.

- ☞ Hindi Workshop was also held at **RFRI, Jorhat** and **TFRI, Jabalpur**.

Annual Review

- ☞ The annual review of 363 (258 ICFRE funded and 105 externally funded) ongoing

and completed research projects of all ICFRE institutes was conducted for timely

completion of the projects. All ongoing research projects were reviewed and corrective measures were suggested to

expedite the physical and financial achievement for timely completion of the objectives of the projects.

Half Yearly Progress Review

☞ To ensure proper implementation for timely achieving the objectives of ongoing research projects, the progress of the research projects is being monitored on six monthly basis. Observations on Half Yearly Progress

Reports of individual projects for ending September 2014 received from the ICFRE Institutes were scrutinized as per action plan and comments communicated to Directors for further needful action.

Scrutiny of Project Completion Reports (PCRs)

☞ 81 Project Completion Reports have been received by the ICFRE during January – June 2015. A total of 60 Project Completion Reports (PCRs) have been scrutinized and

accepted by the competent authority. After approval, these PCRs have been submitted to NFLIC, FRI for future reference.

Accreditation of Universities

☞ Evaluation Team of ICFRE visited 5 universities i.e., Punjab Agricultural University, Ludhiana, (Punjab), Navsari Agricultural University, Navsari (Gujarat), Kerala Agricultural University, Trissur, (Kerala), Sam Higginbottom Institute of Agricultural, Science and Technology,

Allahabad (U.P.), and H.N. B. Garhwal University, Srinagar (Uttarakhand) to cross check and validate the self Appraisal Reports submitted by the Universities. Proposals from 6 universities have been sought for accreditation of forestry courses with ICFRE.

Networking Forestry Education with Research and Extension

☞ The Annual Progress Reports (APR) from Navsari Agricultural University, Navsari Gujarat and Sher – E-Kashmir University of Science and Technology, J&K have been received under the Networking Project on NTFP.

National and International Cooperation

☞ Following projects and MoUs were processed for approval of the competent authorities at ICFRE/MoEF&CC and approvals communicated to the respective institutes:

• National:

1. Memorandum of Understanding (MoU) between Amity University, Uttar Pradesh, Noida and ICFRE, Dehradun was signed for

implementing joint programmes in the areas of research, education and other areas of common interest.

2. MoU between FRI, Dehradun and Avantha Centre for Industrial Research & Development, (ACIRD), Thapar Technology Campus, Bhadson Road, Patiala for two research projects “Pre-treatment of lignocelluloses biomass for hemicelluloses

extraction for bio-ethanol production” and “Preparation and applications of cationized nano-cellulosic strength agents for paper making.”

3. MoU between FRI, Dehradun and United Spirits Ltd., Bengaluru for Project entitled “Wine maturation using Indian woods”.
4. MoU for the project "Designing, Development and Performance of Urban Forestry Model for Rajasthan State Judicial Academy, Jodhpur" of AFRI, Jodhpur with Rajasthan State Judicial Academy, Jodhpur.

5. Project titled “Integrated Community based Forest Management Project under Special Plan of Bihar” funded by NITI Aayog, was extended up to 30 September 2015 by NITI Aayog.

• **International:**

1. Ongoing project of IFGTB, Coimbatore titled "New Bio-control opportunities for prickly Acacia: Exploration in India" with Department of Agriculture, Fisheries and Forestry, Australia submitted to MoEF&CC for extension up to June, 2016.

Commercial propagation of five high-yielding clones of *Casuarina*

The International Papers - APPM Limited has entered into a non-exclusive license agreement with IFGTB to commercially propagate five high-yielding clones of *Casuarina* developed by IFGTB, Coimbatore. These clones viz. IFGTB-CJ-7, IFGTB-CJ-9, IFGTB-CJ-10, IFGTB-CH-1 and IFGTB-CH-2 have been extensively tested in contrasting locations like coastal, inland regions, irrigated and rainfed conditions and found to be growing 25-30% faster than the benchmark accessions. The Company has paid a onetime license fee to commercially propagate these clones for a period of 10 years and supply to farmers under its farm forestry programmes. The agreement was signed by Shri. R.S. Prashanth, Director, IFGTB and Mr. Deepak Khare, Vice President – Forestry, IP-APPM in a meeting held at IFGTB on 26 June 2015. Such a tripartite cooperation between producer-farmers end user-industries and researchers will help in taking the research results to the field and bring in additional income to farmers and increase raw material availability to the industry.

Visit of Dr. Ashwani Kumar, IFS, Director General to ICFRE Institutes

- ☞ Dr. Ashwani Kumar, IFS, DG, ICFRE, Dehradun visited HFRI, Shimla and its Field Research Stations from 11 to 13 January 2015. During his visit, he inspected the ongoing works in various laboratories of the Institute and also inaugurated the newly constructed "Library Hall" in the premises of the Institute.
- ☞ Dr. Ashwani Kumar, DG, ICFRE, Dehradun visited IFP, Ranchi from 16 to 18 February 2015.
- ☞ Dr. Ashwani Kumar, DG, ICFRE, Dehradun visited CSFER, Allahabad on 18 March and

inaugurated Farmers training and demonstration programme.



Dr. Ashwani Kumar, DG, ICFRE, Dehradun welcomed by Dr. V.P. Tewari, Director, HFRI, Shimla

HR NEWS

Name & Designation

Date

Appointments

Deputation :

Shri Shivakumar C.M., IFS, DCF, IWST, Bengaluru	18.02.2015
Shri Lalitlanhua Zathang, DCF, FRI	27.03.2015
Shri Abhilash Damodaran, IFS, DCF, ICFRE (Hqr.)	01.04.2015
Shri R.S. Prashanth, IFS, Director, IFGTB, Coimbatore	01.06.2015

Direct Recruitment :

Ms Shambhavi Yadav, Research Officer Gd. I, FRI	23.03.2015
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Promotions :

Dr. S.D. Punikar, Research Officer	13.01.2015
Shri K.S. Parmar, Private Secretary, AFRI, Jodhpur	04.02.2015
Shri K.K. Gaur, Section Officer, TFRI, Jabalpur	31.03.2015
Shri M.K. Verma, Section Officer, TFRI, Jabalpur	27.03.2015
Shri K.L. Shendey, Section Officer, TFRI, Jabalpur	30.03.2015
Shri Krishna Kumar, Section Officer, FRI	10.04.2015
Shri M.K. Sharma, Section Officer, FRI	10.04.2015
Shri Pitamber Dutt, Section Officer, FRI	16.04.2015

Repatriation/Relieving from ICFRE :

Shri Pankaj Agarwal, IFS, ADG (EM), ICFRE	01.01.2015
Shri M.P. Singh, IFS, CF, FRI	23.01.2015
Shri U. Ramakrishna Raju, FRO, TFRI, Jabalpur	24.02.2015
Dr. T.S. Dange, IFS, CF, IFB, Hyderabad	14.03.2015
Shri Gopal Singh Thakur, DCF, HFRI, Shimla	16.03.2015
Shri Sunil Kumar Das, DCF, TFRI, Jabalpur	10.05.2015
Shri M.R.G. Reddy, CF, IFB, Hyderabad	30.06.2015
Dr. P.P. Bhojvaid, IFS Director, FRI	03.06.2015
Dr. Avinash M. Kanfode, IFS, CF, IWST, Bengaluru	08.06.2015

Retirement :

Shri Rajgopal, Research Officer Gd.I, IFGTB, Coimbatore	28.02.2015
Shri M.K. Verma, Section Officer, TFRI, Jabalpur	31.03.2015
Shri C.M. Sharma, Logging Instructor, FRI, Dehra Dun	30.04.2015
Dr. Subhash Nautiyal, Scientist-G, FRI	31.05.2015
Ms Anita Srivastava, Scientist-E, ICFRE(Hqr.)	31.05.2015
Smt. Neena Chauhan, Scientist-E, FRI, Dehra Dun	30.06.2015
Dr. K.C. Pathak, Scientist-C, RFRI, Jorhat	30.06.2015
Shri Deepak Kumar, Logging Instructor, FRI, Dehra Dun	30.06.2015
Shri D.V. Neware, Section Officer, TFRI, Jabalpur	30.06.2015

Promotions under FCS:

As on 1 August 2015
From Scientist-B to Scientist-C
Shri Shera Ram Baloch, AFRI, Jodhpur
Smt. Tresa Hamalton, TFRI, Jabalpur

From Scientist-C to Scientist-D :

Shri Alok Yadav, ICFRE, Dehradun
Dr. Anil Negi, ICFRE, Dehradun
Dr. B.M. Dimri, FRI, Dehradun
Smt. Bhawana Sharma, AFRI, Jodhpur
Shri Muthukumar Arunachalam, IWST, Bengaluru
Shri Neelesh Yadav, FRI, Dehradun
Dr. Om Kumar, ICFRE, Dehradun
Dr. P.K. Das, RFRI, Jorhat
Shri Rajesh Kumar, RFRI, Jorhat
Shri Sanjeev Kumar, IFP, Ranchi
Dr. Vishakha Kumbhare, CFRHRD, Chhindwara
Dr. Vishwajit Kumar, ICFRE, Dehradun

From Scientist-D to Scientist-E :

Dr. Anup Chandra, FRI, Dehradun
Dr. Ashutosh Srivastava, IWST, Bengaluru
Dr. B.P. Tamta, FRI, Dehradun

Shri H.P. Singh, FRI, Dehradun
Dr. Kumud Dubey, CSFER, Allahabad
Shri M.V. Rao, IWST, Bengaluru
Dr. (Smt.) Nanita Berry, TFRI, Jabalpur
Dr. N. Senthil Kumar, IFGTB, Coimbatore
Dr. Ombir Singh, FRI, Dehradun
Dr. P.K. Khatri, TFRI, Jabalpur
Dr. S. Sarvanan, IFGTB, Coimbatore
Dr. S.P. Chaukiyal, FRI, Dehradun

From Scientist-E to Scientist-F :

Dr. A. Nicodemous, IFGTB, Coimbatore
Dr. C. Kunhikannan, IFGTB, Coimbatore
Dr. Geeta Joshi, IWST, Bengaluru
Dr. H.B. Vasistha, FRI, Dehradun
Smt. Modhumita Dasgupta, IFGTB, Coimbatore
Dr. M.K. Gupta, FRI, Dehradun
Smt. Neelu Singh, TFRI, Jabalpur
Shri R.K. Bohra, RFRI, Jorhat
Shri V.R.S. Rawat, ICFRE, Dehradun
Dr. Anita Srivastava, ICFRE, Dehradun (retired)
Dr. Shamila Kalia, ICFRE, Dehradun

From Scientist-F to Scientist-G :

Dr. A. Balu, IFGTB, Coimbatore
Dr. Genda Singh, AFRI, Jodhpur
Dr. Krishan Kumar V.S., FRI, Dehradun
Dr. Sanjay Naithani, IWST, Bengaluru
Dr. Sadhna Tripathi, FRI, Dehradun
Shri Sudhir Kumar, ICFRE, Dehradun

Transfer :

Name of Officer	From	To
Smt Sabi Gogoi, Research Officer	IFP, Ranchi	RFRI, Jorhat
Shri M.R. Vijayan, Stenographer Gd.I	TFRI, Jabalpur	IWST, Bengaluru
Smt. Tresa Hamalton, Scientist-B	TFRI, Jabalpur	IWST, Bengaluru
Dr. Manish Kumar Singh, Scientist-C	AFRI, Jodhpur	ICFRE(Hqr.)
Dr. Vijender Pal Panwar, Scientist-D	HFRI, Shimla	FRI, Dehradun
Ms Swaran Lata, Scientist-B	TFRI, Jabalpur	HFRI, Shimla
Dr. Arun P. Singh, Scientist-E	RFRI, Jorhat	FRI, Dehradun
Shri N.R.R. Prasad, Research Officer	IFB, Hyderabad	IWST, Bengaluru
Dr. Fatima Shirin, Scientist-E,	TFRI, Jabalpur	IFB, Hyderabad
Shri Raja Ram Singh, DCF	TFRI, Jabalpur	ICFRE (Hqr.)
Dr. Ashok Kumar Pandey, Scientist-F	IFP, Ranchi	FRI, Dehradun
Shri Ajoy Deb Barma, Scientist-B	TFRI, Jabalpur	RFRI, Jorhat
Dr. Arvind Kumar, Scientist-D	IFP, Ranchi	FRI, Dehradun
Dr. P.K. Das, Scientist-C	RFRI, Jorhat	IFP, Ranchi
Dr. Sanjay Naithani, Scientist-F	IWST, Bengaluru	FRI, Dehradun
Dr. Ashwani Tapwal, Scientist-D	FRI, Dehradun	HFRI, Shimla

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Obituary

The ICFRE family deeply condoles the sudden and sad demise of Shri Rajendra Kumar, Sanitation Attendant, FRI, Dehradun on 05 February 2015 and prays for the peace of the departed soul.

INTERNATIONAL DAY FOR BIOLOGICAL DIVERSITY



HFRI, Shimla



RFRI, Jorhat



AFRI, Jodhpur



TFRI, Jabalpur



IWST, Bengaluru



HFRI, Shimla

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