



ICFRE



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Back Cover: Bamboo handicrafts developed under BTSG and Direct to Consumer.

Patron's Column



The Indian Council of Forestry Research and Education, Dehradun is actively engaged in carrying out research on various aspects of forestry. New research facilities are being created in the various parts of the country, Teak Vegetative Multiplication Garden (VMG) at Walayar, Kerala, establishment of research centre at Neyveli, Tamil Nadu by IFGTB, Coimbatore and establishment of an Interpretation Centre for Jharkhand by IFP, Ranchi are some important initiatives.

A comprehensive Intellectual Property Management (IPM) policy governing the generation and management of intellectual property emanating from ICFRE and its various institutes has been evolved along with Material Transfer Agreement (MTA) and License Agreement (LA). Revision of existing National Working Plan Code to incorporate the emerging issues has recently been completed by the Council.

The Council extended its expertise in the field of environment management through consultancies on reclamation of mined areas, hydropower etc. Reclamation and Rehabilitation (R & R) Plans for 80 mines (category A and B) in Bellary, Chitradurga and Tumkur districts of Karnataka have been prepared and submitted to the Hon'ble Supreme Court of India which have been approved by the CEC.

The Council acting as Technical Facilitation Organization for the SLEM Project (SLEM TFO) organized two Regional Consultative Workshops for finalization of indicators for Desertification, Land Degradation and Drought (DLDD), at Hyderabad and Kolkata.

The Council is implementing programmes like 'Direct to Consumer Scheme' and BTSG Programme for enhancement of livelihood of farmers, villagers including women, artisans, SHG members etc. through capacity building and skill up-gradation. Trainings and workshops are regularly being organized to extend technical support. The Council also distributed about 1500 grafts of red and sweet tamarind to the farmers.

Networking of 26 Van Vigyan Kendras (VVKs) with Krishi Vigyan Kendras (KVKs) of ICAR in different parts of the country has been initiated and collaborative extension activities have also commenced to transfer technologies to end users.

The Council organized a joint event of Asia Pacific workshop on Forest Hydrology: "Water and Forests-Beyond Traditional Forest Hydrology" in collaboration with Asia Pacific Association of Forestry Research Institutions (APAFRI) Malaysia and Korea Forest Research Institute (KFRI) Korea at FRI, Dehradun in September 2013.

I hope that this issue of the Newsletter will be able to provide glimpses of different activities being conducted at the Council.

Dr. S.S. Garbyal
Director General

Asia Pacific Workshop on Forest Hydrology

Asia Pacific Workshop on Forest Hydrology: "Water and Forests-Beyond Traditional Forest Hydrology" was held in collaboration with Asia Pacific Association of Forestry Research Institutions (APAFRI) Malaysia and Korea Forest Research Institute (KFRI) Korea from 23 to 25 September 2013 at FRI, Dehradun. Collegium of technical partners were formed to handle the technical aspects of the workshop involving national institutes such as Indian Council of Forestry Research & Education, (ICFRE), Dehradun, Indian Institute of Technology, Roorkee (IITR), National Institute of Hydrology (NIH), Roorkee, Central Soil & Water Conservation

Research and Training Institute, (CSWCRTI) Dehradun, Wadia Institute of Himalayan Geology, (WIHG), Dehradun and Indian Institute of Remote Sensing (IIRS), Dehradun.

Inaugurating the workshop Hon'ble Minister Shri Harish Rawat, Minister of Water Resources, Govt. of India, said that both forests and water has equal importance as natural resources, as they not only contribute towards ensuring a healthy environment but also



Inaugural address by Shri Harish Rawat, Hon'ble Minister of Water Resources, Govt. of India (now Hon'ble Chief Minister of Uttarakhand)

help in sustaining the existence of human civilization and other forms of life.

More than 125 participants from various countries, including Bangladesh, China, Korea, Malaysia, Philippines, Nepal, Netherlands, Vietnam, Mexico and Thailand, as well as from different organizations in India deliberated upon various aspects of Forest Hydrology & Climate Change.



Delegates of the Workshop on Forest Hydrology : "Water and Forests-Beyond Traditional Forest Hydrology"

48th BOG Meeting of ICFRE

48th meeting of ICFRE Board of Governors was convened on 25 July 2013 at Paryavaran Bhawan, New Delhi. The Meeting was chaired by Dr. V. Rajagopalan, IAS, Secretary to the Government of India, MoEF and Chairman, BOG, ICFRE. The Agenda of the meeting included appointment to the post of DG, ICFRE, Consultancy Rules, revision of procedure regarding writing of ACRs & APAR in ICFRE and strengthening of Pension Fund Corpus of ICFRE.

DIRECT TO CONSUMER SCHEME

- **RFRI, Jorhat** organized following training workshops under this scheme:
- Hands on training workshops on 'Agarbatti stick making' on 05 September 2013 for the SHG members of Nemuguri, Sibsagar area and for women SHG at Meleng Balichapori, Jorhat on 07 October 2013.
- Training workshop on "Creation of biological fence with live bamboo" in coordination with Sarbasiksha Mission, Jorhat on 14 September 2013.
- Training workshops on bamboos handicraft from 26 September to 05 October 2013 for trainees of Dibrugarh, Tinsukia, Sibsagar and Jorhat districts of Assam and from 21 to 25 October 2013 for Don Bosco School's dropout students of 'Mishing' community from Arunachal Pradesh and Assam.
- **FRI Dehradun** organized a five - day training



Participants of 'Training cum workshop on bamboo handicraft' conducted for Don Bosco School's dropout students of 'Mishing' community

programme on "Demonstration and Training on Bamboo Handicrafts" for villagers including women from 16 to 20 December 2013.

- **IFGTB, Coimbatore** distributed about 1500 grafts of red and sweet tamarind.
- **IFP, Ranchi** organized a number of visits to the different villages of Jharkhand, with a view to promote lac cultivation on *Flamengia semialata*. One such visit to the lac cultivation sites/ UNDP project site at Bari, Kitahatu, Saiko, Jiwri villages of Khunti district was organized on 16 July 2013. The farmers were inspired to carry out plantation of *F. semialata* in the current planting season. A team consisting of members of Life Education and Development Support (LEADS), an NGO, and farmers of Bandgaon

village of West Singhbhum also visited Kitahatu village and showed willingness for taking up plantation of *F. semialata*. Seedlings of *F. semialata*

were distributed to the farmers of Kitahatu, Lupungdih, Rudadih, Torpa villages of Khunti district for lac cultivation under the scheme.

A meeting was also conducted with Mukhiya, Panchayat members and farmers of Chandwa Block with a view to create awareness among farmers about lac cultivation over *F. semialata* and other host trees. Participants also visited the demonstration plots of *F. semialata* at N.B.Farm, Chandwa.

- **HFRI, Shimla** organized a one- day meeting at Janna village of district Kullu (HP) on 12 November 2013. Various issues pertaining to the DTC scheme were discussed in the meeting. It emerged from the meeting that 8-10 farmers have initiated medicinal plants cultivation in their field as a result of the efforts made by the institute. The institute also organized an exposure

visit-cum- educational tour of motivated farmers from Khatnol Panchayat of Distt. Shimla (HP) on 26 December 2013 to Conifer Campus, Panthaghati, Shimla and to Western Himalayan Temperate Arboretum (WHTA) at Potter's Hill, Summer Hill, Shimla.

- **AFRI, Jodhpur** organized a training programme on



An exposure visit-cum- educational tour of motivated farmers from Khatnol Panchayat of Distt. Shimla

Rainwater Harvesting and Afforestation in Dahod, Gujarat on 19 and 20

September 2013. DFO, Godhara, Director N. M. Sadguru Foundation and others were present in the training. A total of 61 trainees participated in the training. A field visit was also organized for the trainees.

ICFRE PARTICIPATION IN FOREIGN MEETINGS/ WORKSHOPS/ SYMPOSIA ETC.

- **Dr NSK Harsh**, Scientist-G, FRI, Dehradun participated in 3rd International Congress on Fungal Conservation held at Mugla, Turkey from 9 to 15 October 2013.
- **Dr. V.P. Tewari**, Scientist-G, IWST, Bangalore participated in the 5th GAFORN (German Alumni Forest Network) International Symposium on Sustainable Forestry in South/South East Asia and Subsaharan Africa : "Incentives for Close-to-Nature-Forestry" held at University of Eldoret, Kenya from 8 to 12 July 2013 and presented a paper.
- **Dr. V.K. Varshney**, Scientist-F, FRI, Dehradun, participated in the 7th International Medicinal Mushroom Conference (IMMC7) held at Beijing (China) from 26 to 29 August 2013, (as a member of the International Scientific Committee) and delivered a lecture in the Plenary Session "Potential values of medicinal mushroom products" and also co-chaired this session.
- **Shri V.R.S. Rawat**, Scientist- E, ICFRE participated in the 19th session of the Conference of Parties (COP-19) and 39th Session of Subsidiary Body for Scientific and Technological Advice/Subsidiary Body for Implementation (SBSTA/SBI 39) meetings of the United Nations Framework Convention on Climate Change (UNFCCC) in Warsaw, Poland from 11 to 22 November 2013 as a member of the Government of India delegation.
- **Dr. Vineet Kumar**, Scientist-F, FRI, Dehradun attended the annual Conference on Tropical and Subtropical Agricultural and Natural Resource Management, the 'Tropentag' and presented a paper at University of Applied Sciences, Rottenburg during German Academic Exchange Service (DAAD) Alumni Special Project in the Framework of the 'Tropentag 2013' in Hoheinheim/Rottenburg, Germany from 09 to 19 September 2013.
- **Dr. P.P Borpuzari**, RO, RFRI, Jorhat attended the 1st International Scientific Symposium on Agarwood (ISSA 2013) from 3 to 5 September 2013 held at University Putra Malaysia, Serdang, Malaysia. She also attended the International Conference on Agar wood (ICA)" from 27 to 29 September 2013 held at Ming Dao University Peetow, Changhua, Taiwan (ROC).

WORKSHOPS/ SEMINARS/ MEETINGS ETC.

ICFRE organized following workshops :

- One day Regional Consultation Workshop for southern Indian states of Andhra Pradesh, Karnataka, Tamil Nadu and Kerala on 30 August 2013 at Hyderabad for finalization of indicators for Desertification, Land Degradation and Drought (DLDD) at regional level under the SLEM Project.

Shri Saibal Dasgupta, DDG (Extn.), ICFRE in his inaugural address, introduced the objectives of the workshop. He explained that land degradation and ecosystem management is a global issue and it is a great challenge for India. The workshop was attended by 30 senior officers and experts from various Government Departments, World Bank, NGO's and other stakeholders to share their experiences and expertise in defining/modifying and suggesting new impact indicators for issues related to DLDD.

- A daylong 2nd Consultative Regional Workshop for finalization of indicator



One day Regional Consultation Workshop for Southern Indian States of Andhra Pradesh, Karnataka, Tamil Nadu and Kerala

framework for issues related to (DLDD) was organized under Sustainable Land and Ecosystem Management Programme (SLEM) by the SLEM-TFO, ICFRE, Dehradun at Kolkata on 29 November 2013. The aim of the workshop was to refine and finalize the draft indicators for issues related to DLDD at regional level. The workshop was attended by around 30 seminar experts from various Government Departments, NGOs etc. from Eastern and North-Eastern parts of the country.

- A two days training workshop for the district level officers of line departments of Uttarakhand State on "Conservation of Biodiversity and Sustainable Livelihood in

Watershed Management" on 12 and 13 September 2013. Twenty district level officers of line departments of Uttarakhand participated in the training workshop. The training workshop was sponsored by Watershed Management Directorate, Dehradun.



Workshop on "Conservation of Biodiversity and Sustainable Livelihood in Watershed Management"

FRI Dehradun organized following workshops:

- A 'Workshop on Report Writing' to finalize the prototype of reports to be written on socio-economic and ecological status of forest fringe villages of 275 rainfed districts of

India on 9 and 10 October 2013. Nodal officers and staff of 7 institutes of ICFRE participated in the workshop.

- The FRI/ ICFRE consortium is undertaking Mid Career Training of IFS Officers with 7-9 years of service in Phase III to be held in 2014 with a view to expose the Officers to fresh ideas and state-of-the-art tools and techniques in forestry and for exposure on international perspective. Besides the FRI/ICFRE as consortium leader, the partners for MCT include Wildlife Institute of India, Forest Survey of India, Dehradun, Indian Institute of Management, Lucknow, the Swedish consortium and Colorado State University.

In order to enhance the value of MCT, a 2-days Preparatory Workshop for MCT was organised in FRI, Dehradun on 25 and 26 November 2013. The

Inaugural session of the workshop was chaired by Shri R.K. Goel, Director, Indira Gandhi National Forest Academy, Dehradun and co-chaired by Shri Shivendu Srivastava, Director General, Forest Survey of India, Dehradun. Dr. P.P. Bhojvaid, Director FRI, Dr G.S. Goraya, DDG (Research), ICFRE, Sh Saibal Dasgupta, DDG (Extension), ICFRE, Dr. Alok Saxena, Additional Director, IGNFA, Ms Jayshree Arde, Dean, FRI Deemed University, Ms Neena Khandekar, Head RS&M Division were present, besides all the consortium partners and Heads of Divisions of Forest Research Institute. The participants also included some IFS Officers from different parts of the country, who had either attended the MCT previously or were potential participants of the forthcoming MCT

Phase III programme. Based on the discussions and deliberations in the workshop and consultations with IGNFA, the course content of the MCT Phase III programme was finalised.

IFGTB, Coimbatore organized following workshops:

- The National Workshop on Tree Seed Science and Silviculture on 28 and 29 November 2013. Dr. N. Krishnakumar, Director, IFGTB, in his presidential address, stressed the need of providing quality seeds and precision silviculture to the stakeholders such as farmers, industries and forest departments. The chief guest Shri Gautam Dey, IFS, PCCF and Head of Forest Force, Tamil Nadu, in his address, appreciated the research work carried out by the institute. Felicitations were delivered by Mrs. C.S. Rama Lakshmi, IFS, Commissioner of Sericulture and Dr. R.R. Hanchinal, Chairman, PPV&FRA, Govt. of India.

Two books on "Forest Seed Science and Technology" and "A compendium of Silvicultural Technologies" were released to commemorate 25 years of



Workshop on MCT Phase III of IFS Officers

seed and silvicultural research in the institute. A software –CYCUS to calculate yield of casuarina plantations and the 19th Newsletter of the Institute were also released. About 120 participants from ICFRE institutes, Wood Based Industries, Forest Departments, universities, NGOs, students etc. from 16 states participated in the workshop.

- The National Seminar on Tree Biotechnology 2013 – "Emerging Opportunities in Forestry and Tree Science" on 23 and 24 September 2013. The Seminar was inaugurated by Dr. P. Balakrishna Pisupathi, Chairman, National Biodiversity Authority. He congratulated IFGTB for 25 years of research efforts and informed that about 65% of biotechnological studies are confined to 6 species only.



National Seminar on Tree Biotechnology 2013 – "Emerging Opportunities in Forestry and Tree Science"

A website on In silico Gene Bank for adaptation to abiotic stress was launched.

About 60 research papers were deliberated in 10 different themes. Participants from 53 different organizations across the country took part in the seminar.

- **IWST, Bangalore** conducted a workshop on "Recent Advances in Biofuels" on 22 and 23 November 2013 in collaboration with Karnataka State Biofuel Development Board (KSBDB) and Karnataka State Council for Science and Technology (KSCST). The workshop included special lectures on Biofuel development and presentation by the Principal Coordinators of 32 different District Biofuel Information and Demonstration Centers from 30 districts of Karnataka followed by a panel discussion. The workshop was inaugurated by Shri. A K Monnappa, IAS, Managing Director, KSBDB. Prof. Mohan Kumar, Secretary, KSCST presided over the event. Dr. V. Ramakantha, Director, IWST and Dr. M Prithviraj, Executive Secretary, KSCST also addressed the gathering.
- **HFRI, Shimla** organised workshop-cum-training on "Climate change

adaptation in Himalayan region" on 3 and 4 October 2013 funded by the SLEM Project. The programme was attended by 48 participants from Government Departments and NGO's. Twelve resource persons from different sectors delivered lectures on various aspects of climate change adaptation in the Himalayan region.

Dr. R. K. Gupta, PCCF, Himachal Pradesh in his inaugural address highlighted the issues of land degradation, biodiversity conservation and livelihood of common man. Shri Saibal Dasgupta, DDG (Extension), ICFRE, Dehradun appraised the house about the project on Sustainable Land and Ecosystem Management (SLEM) and highlighted the importance of inter-sectoral approaches in the project and their convergence for replication of the best practices to develop appropriate policy for land use. Earlier, Dr. V.R.R. Singh, Director, HFRI, Shimla welcomed the delegates and highlighted the genesis of the workshop-cum- training programme. Dr. T.P. Singh, PD, SLEM presented REDD+ as a climate mitigation and adaptation option in Himalayas.

TRAINING PROGRAMMES

ICFRE, Dehradun organized following training programmes:

- A one week training programme in "Climate Change and Carbon Mitigation" from 21 to 25 October 2013 for the scientists and technologists working in Government Sector. Twenty seven scientists from different research organizations and universities participated in the training programme.
- One week training programme on "Forest Ecosystems, Biodiversity and Climate Change: Vulnerabilities and Adaptation Strategies" for Scientists and Technologists, Government of India from 09 to 13 December 2013. The programme was sponsored by Department of Science and Technology, Ministry of Science and Technology, Government of India. 23 participants representing 14 States of India and belonging to various scientific organizations of the country participated in the programme.

FRI Dehradun organized following training programmes:

- National training on 'Linking of Non Timber Forest Products (NTFP) and Agroforestry produce with Markets : Constraints , Opportunities and Threats" from 22 to 24 July 2013. A total of 19 participants from



Training programme on "Forest Ecosystems, Biodiversity and Climate Change: Vulnerabilities and Adaptation Strategies"

forest and watershed departments of Himachal Pradesh, Uttar Pradesh, Odisha, Jharkhand, Uttarakhand, Punjab and Haryana participated. The training was sponsored by National Rainfed Area Authority, Planning Commission, Govt. of India.

- Two training programmes on 'Ringal Propagation and Conservation Techniques' for villagers, ringal growers, gram panchyat and field functionaries of Uttarakhand Forest Department at Devalsari, Tehri Garhwal in which about 150 participants of nearby villages participated including villagers, farmers, Ringal growers and artisans of Magra, Tehri and nearby villages.
- Trainings on Mushroom Cultivation to 24 officers and staff of Polytechnic institutes of North India on 30 October 2013 and to 25 farmers

in a workshop organized by Bagwan Gramodhyog Samiti, Shyampur, Premnagar, Dehradun on 25 November 2013.

Training programme on "Forest Fire

Management" in collaboration with NIDM, New Delhi from 7 to 11 October 2013. DCF level Forest Officers from different States participated in the training.

- Four specialized short term (5 days) training courses on "Agroforestry and Land Management" from September to December 2013 for the farmers of Bihar. The trainings were sponsored by Bihar Forest Department under 'Haryali Mission'. Overall 122 farmers from different districts of Bihar, Bihar Forest Department and from Gorakhpur district of Uttar Pradesh participated in the training.
- **IFGTB, Coimbatore** organized following training programmes:



Training on "Agroforestry and Land Management" at FRI, Dehradun

- Two days training workshop on "Bioprospecting – Role of State Forest Departments" for Indian Forest Service Officers on 1 and 2 August 2013 sponsored by Ministry of Environment and Forest, Govt. of India, New Delhi. Twenty five officers from thirteen states participated in the training.
- A five- day refresher training programme for the Indian Forest Service officers on "Forest Genetic Resource Management" organized from 16 to 20 September 2013, sponsored by the Ministry of Environment and Forests, Govt. of India. 29 IFS officers of various levels from different State Forest Departments attended the training programme.
- Two training cum demonstration programmes on "Biofertilizer Production and Application in Nursery and Field" funded by the Hill Area Development Programme (HADP), Government of Tamil Nadu were conducted at Udhamandlam, Nilgiris District, Tamil Nadu, on 22 August 2013 and on 22 November 2013. 178 participants including Government officials, representatives from NGOs and Tree Growers attended the training.
- **IWST, Bangalore** organized following training programmes:
 - Trainings on "Wood Artisans on Capacity Building" from 26 to 30 August 2013 and from 21 to 25 October 2013 under the HRD scheme of the Development Commissioner (Handicrafts), Ministry of Textiles, Government of India, New Delhi. 40 participants attended the trainings.
 - A training on "Field identification of important timber" for Range Forest Officers (RFO) of Karnataka Forest Department (KFD) from 2 to 6 December 2013. 25 RFOs from different forest divisions attended the training.
 - A training for farmers on laws, policies and schemes of KFD for cultivation of sandal wood and other promising tree species like *Melia dubia*, propagation, nursery practices and possible agro-forestry models for sandal cultivation, pests and disease management of sandal and marketing and protection of Sandal on 27 December 2013 in Devanahalli taluk of Rural Bangalore district. 65 participants including farmers, women's SHGs and staff of Karnataka Forest Department attended the training.
 - **IFP, Ranchi** organized a three-day training programme for capacity building in forestry sector on "Eco-restoration of Wastelands" sponsored by Ministry of Environment & Forests, Govt. of India from 04 to 06 December 2013 in which different government personnel, members of various NGOs and progressive farmers participated.
 - **IFB, Hyderabad** organized a demonstration- cum-training programme of the farmers for Development of Agroforestry in *Wrightia tinctoria* and *Gmelina arborea* as tree species in semi- arid tropics of Andhra Pradesh on 27 and 28 December 2013 at Ramayanapet at Medak District.
 - **TFRI, Jabalpur** organized a three –days' training programme on "Cultivation of Medicinal Plant for other stakeholders" from 8 to 10 July 2013 sponsored by the Ministry of Environment & Forests (GoI), New Delhi. Thirty- six participants attended the programme.
 - **AFRI, Jodhpur** organized training for IFS officers from 16 to 20 December 2013. Shri Abhjit Ghosh, PCCF, Rajasthan speaking on the inaugural session said that desert is an ideal area for sustainable development and to utilize resources in the optimum way. Dr.T.S. Rathore, Director, AFRI told that desert is full of biodiversity and by utilizing resources properly the socio-economic condition of people can be improved.

BAMBOO TECHNICAL SUPPORT GROUPS (BTSG) ICFRE TRAININGS

Three five- day training programmes were organized under the aegis of BTSG-ICFRE for skill upgradation in innovation designs and capacity building of the bamboo farmers and artisans:

- **AFRI, Jodhpur** organized five –days' training programme on bamboo from 9 to 13 December 2013. Shri Kulvinder Singh, Assistant Director (Handicraft), Government of India expressed the need to develop new design of products so that same can be sold easily and small farmers can be benefitted. Dr. T.S. Rathore,

Director, AFRI, Jodhpur presented detailed information on various species of bamboos and their utility. Shri Nirmal Bhandari President of Handicraft Association, Jodhpur, speaking at the closing ceremony informed that the handicraft market was worth Rs. 2 crores in 1990 which has reached to Rs. 1500 crores in 2013.

- **IFP, Ranchi** organized a five – day specialized training programme on "Bamboo Handicrafts" for 26 farmers and artisans from 18 to 22 November 2013.



Training on bamboo handicrafts at IFP Ranchi

- **TFRI, Jabalpur** organized one week specialized training programme on Bamboo Handicrafts for farmers & artisans of Madhya Pradesh and Chhattisgarh from 23 to 27 September 2013.

RESEARCH FINDINGS

- Product developed by **IFGTB, Coimbatore** namely Hy-Act, Tree pal (H) and Tree rich biobooster pellets have been evaluated and found their efficacy against pest and diseases of *Tectona grandis*, *Casuarina equisetifolia*, *Eucalyptus teriticornis*, *Ailanthus excelsa*, *Gmelina arborea*, *Syzium cumini*, *shorea robusta*, *Pterocarpus*, *Polyanthia longifolia*, *Melia dubia*, *Delonix regia*, *Betulia*, *Swetinia mahagony*, *Pongamia pinnata*, *Jakaranda* was determined. Regular survey and bioassay evaluation of the products is being carried out bimonthly. Hy-Act and Tree PAL(H) were sprayed at the interval of 15 days at the early stage on the

commercial crop plants like *Lycoperiscon esculentum*, *Trigonella foenum*, *Sichuan pepper*, *Centella asiatica*, *Coriandrum sativum*, *Murraya koeingii*, *Allium sativum* and *spinach* affected by the sucking pests like aphids, white flies, leaf minor etc. The aphids over these crops were controlled in six hours in a single foliar spray and no further attack was noticed by the farmer till harvesting. The growth of plant species like *Pterocarpus santalinus*, *Casuarina equisetifolia* and *Citrus medica var.limonum* was reported to be enhanced efficiently by the application of Tree rich biobooster.

- **HFRI, Shimla** has recorded new spider species in India for the following taxa from the Western Himalayas.
 - i. *Pisaura mirabilis* (Family:

Pisauridae) ii. *Dendrolycosa robusta* (Family: *Pisauridae*) and iii. *Theridula gonygaster* (Family: *Theridiidae*)

- **FRI, Dehradun** has carried out the GIS based investigations to identify the forest fringe villages in 275 rainfed districts of India. These districts are spread in 26 states and 1 union territory. The forest types occurring in the fringe forest were identified and the area occupied by each forest type was estimated. The forest cover lying in the fringe forest was determined and the extent of open forest, moderately dense forest and very dense forest in the fringe forest cover was estimated. The draft report on the same was submitted to the National Rainfed Area Authority, Planning Commission.

VVKs & DVs

- **AFRI, Jodhpur** organized a three day training programme from 3 to 5 October 2013 at Dadra Nagar Haveli. 42 trainees participated in the training programme.
- **RFRI, Jorhat** organized a training on Bamboos Handicraft' from 22 to 26 July 2013 for 18 trainees of Demo Village, RFRI, Jorhat.
- **HFRI, Shimla** under VVK (J&K) organized one day training programme on "Application of Technology and Research Interventions for Enhancing Forest Productivity" at Leh, Laddakh (J&K) on 8 July 2013.

Networking of VVKs with KVKs

- **FRI, Dehradun**, in collaboration with Krishi Vigyan Kendra, Yamunanagar, organized 3 one- day training programmes one on "Poplar based Agroforestry" on 30 August 2013 and second on "Ganoderma lucidium evam mushroom ki kheti" on 05 September 2013 at KVK Sabhaghar, Yamunanagar. About forty farmers of district Yamunanagar (Haryana) participated in each training programme. Third one was organized on 01 October 2013 on "Krishi Vaniki Prajatiyon



Training programme on "Application of Technology and Research Interventions for Enhancing Forest Productivity"

mai Bimari evam Kito ka Prakop evam Roktham" at K V K S a b h a g h a r, Yamunanagar. Sixty farmers participated in the training programme.

- **FRI, Dehradun** organized a training on "Krishi Vaniki Dwara Amdani mai Badothari" and an exhibition at Krishi Vigyan Kendra, Patiala on 18 September 2013 during Regional Kisan Mela.



Training on "Krishi Vaniki Dwara Amdani mai Badothari" and Exhibition at Krishi Vigyan Kendra, Patiala

- **HFRI, Shimla** organized a one day meeting on "Networking of Van Vigyan Kendras with Krishi Vigyan

Kendras" on 30 August 2013. The meeting was attended by about 30 participants including Programme Coordinators of KVK's of Jammu, Kathua, Mandi, Bilaspur, Shimla, Solan, Kullu.

- **HFRI, Shimla** organized a two -day training programme on "Conservation, Utilization and Cultivation of Important Temperate Medicinal Plants" on 25 and 26 November 2013 under Van Vigyan Kendra (VVK). The programme was organized by the institute in collaboration with Krishi Vigyan Kendra (KVK), Saru Chamba and was attended by about 40 progressive farmers. Dr. VRR Singh, Director, HFRI, Shimla, inaugurated the training programme and Dr. Rajeev Raina, Officer-in-Charge KVK, Saru, Chamba was the guest of honour.

PUBLICATIONS

During the period the SLEM-TFO has come up with following publications:

1. Flyers
- "Managing ground water adaptation to climate change in Southern India"
 - "Land shaping for climate change adaptation and sustainable livelihood in Sundarbans"
 - "Integrated farm development for sustainable land productivity in Nagaland"
 - "Aonla based agro-forestry as sustainable land and ecosystem management practice in semi-arid dry regions"
 - "Lac cultivation for livelihood generation and biodiversity conservation in Madhya Pradesh"

- "Dissemination of sustainable land and ecosystem management practices and traditional knowledge through community radio station in Andhra Pradesh"
- 2. SLEM Newsletter, June 2013, Vol.05, No.1
- 3. Annual Report April 2012 to March 2013

Books, Chapter in Books etc.

- Singh, Tajinder P., Rawat, R.S., Rawat, V.R.S., Singh, R. and Velmurugan, A. 2013. *Soil Organic Carbon Stocks in Forests of India*, ICFRE, Dehradun. pp- 40.
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CONSULTANCIES

Reclamation and Rehabilitation (R&R) Plan for mining affected areas in Bellary, Chitradurga and Tumkur districts of Karnataka

The Government of Karnataka awarded consultancy for preparing 'Reclamation and Rehabilitation (R&R) Plan' for 166 mines in Bellary, Chitradurga and Tumkur districts of Karnataka to ICFRE. R & R Plans for 80 Mines of categories A and B have been prepared and submitted to the Hon'ble Supreme Court of India through the Government of Karnataka. Out of these, 73 R & R plans have been



approved by the Central Empowered Committee (CEC) of Hon'ble Supreme Court.

Cumulative EIA Studies for Sutlej river basin in Himachal Pradesh

The Directorate of Energy, Government of Himachal Pradesh awarded the Cumulative Environmental Impact Assessment (CEIA) studies of Hydro-Electric Projects in Sutlaj River

Basin, Himachal Pradesh to ICFRE as lead consultant. The study is being conducted in association with Alternate Hydro Energy Centre,

Indian Institute of Technology (IIT), Roorkee; Directorate of Cold Water Fisheries Research, ICAR, Bhimtal and Salim Ali Center for Ornithology and Natural History, Coimbatore.

Necessary field studies have already been carried out by all the partner institutions. Synthesis of Draft Final Report is in progress. 2nd Satluj Basin stakeholders consultation meeting was held on 7

December 2013 at Jhakri (H.P.)

Cumulative EIA Studies on river Yamuna and Tons in Uttarakhand

Consultancy Project on 'Cumulative Environmental Impact Assessment Studies (CEIAS) of hydroelectric projects of River Yamuna and Tons & its Tributaries in Uttarakhand' has been awarded by the Uttarakhand Jal Vidyut Nigam Limited (UJVNL), Government of Uttarakhand to ICFRE as lead consultant.

The study is being conducted in association with Alternate Hydro Energy Centre, Indian Institute of Technology (IIT), Roorkee; Directorate of Cold Water Fisheries Research, ICAR, Bhimtal and Salim Ali Center for Ornithology and Natural History, Coimbatore. The field visits are carried out by the ICFRE and its partner institutes to collect the baseline data, as per the approved ToR and Methodology. The required data collection is under progress. The interim



progress report of project has been submitted to the project proponent.

Other EIA/EMP Studies

- The Draft Final project reports of following projects have been submitted to the respective project proponents.
 - a. Surgani-Sundla HEP in Chamba district for Himachal Pradesh Power Corporation Ltd (HPPCL)
 - b. Nakthan HEP, Kullu district of Himachal Pradesh
- **HFRI, Shimla** submitted a detailed report on the Removal of Ban on commercial exploitation of Khair Tree on Govt. land in the State of Himachal Pradesh to the Ministry of Environment and Forests, Govt. of India, New Delhi for further necessary action into the matter.
- Following two consultancies have been awarded to **TFRI, Jabalpur** by SECL Korba, Chhattisgarh.
 - Preparation of conservation plan and comprehensive study of the impact on the wild life for Rajgamar underground project.
 - Preparation of conservation plan for endangered species in and around Saraipali Open Cast Mine project of SECL, Korba area.

ANNUAL REVIEW

ICFRE is regularly monitoring and evaluating the progress of research projects. 189 ongoing

and completed research projects (139 ICFRE funded and 50 externally funded) were reviewed and corrective measures were suggested to

expedite the physical and financial achievements for timely achieving the objectives of the projects.

VISITS OF DIGNITARIES

- Mr. V. Rajagopalan, IAS, Secretary, Ministry of Environment & Forests, Government of India visited IWST, Bangalore on 29 July 2013
- Shri Kantharaj Judesekar, DG, ICFRE, Dehradun, visited HFRI, Shimla on 19 and 20 September 2013 to review the ongoing research activities and other related works of the institute.
- DG, ICFRE visited IWST, Bangalore on 14 November 2013. He also visited IFB, Hyderabad on 24 November 2013 and on 14 and 15 December 2013.
- His Excellency Mr. Daniele Mancini, the Hon'ble Ambassador of Italy in India visited the Advanced Wood Working Training Centre (AWTC) of IWST on 6 September 2013, accompanied by Mr. Ugo Ciarolantani, Consulate General of Italy along with Mr. Sergio Sgambato, Secretary General, Indo-Italian Chamber of Commerce and Industry. The AWTC in the institute had a collaborative project with the Italian Trade Commission wherein a large number of Indian artisans were trained in advanced wood working machineries supplied by Italy. The visit of the Hon'ble Ambassador throws open the gate for further collaboration with the Government of Italy.

STAKEHOLDERS MEETING

- **IWST Bangalore** organized a stakeholders meeting on 17 September 2013 to discuss the new projects being proposed for the next financial year. Twenty four participants from different sectors/ organizations participated in the meeting.
- **AFRI, Jodhpur** organized stakeholders meeting on 19 September 2013 at Gandhinagar, Gujarat. The meeting was chaired by Shri S.K.Goyal, IFS, PCCF Gujarat. During the meeting 7 new projects of AFRI were presented besides discussion on the ongoing projects. The institute also organized stakeholders meeting on 4 October 2013 in Rajasthan. In this meeting 9 new projects were presented.

RAJBHASHA NEWS

- **ICFRE, Dehradun** observed 'Hindi Saptah' from 16 to 23 September 2013. During the week five competitive events on essay writing, drafting, English to Hindi translation, Hindi typing and *Swarachit Kawayi Path* were held. Closing Ceremony was held on 23 September 2013 at ICFRE Auditorium and was presided over by Shri Saibal Dasgupta, DDG (Extn.). Speaking on the occasion Shri Saibal Dasgupta, DDG (Extn.) laid emphasis on the importance of Rajbhasha Hindi and said that ICFRE is committed to the use of Hindi in its daily official working and for implementation of rules, regulations, orders and



The closing ceremony of Hindi Saptah 2013 at ICFRE, Dehradun

Official Language Act 1963 regarding Rajbhasha Hindi by organizing various training workshops, Saransh Software Trainings etc. which are of immense use in enhancing the use of Rajbhasha Hindi in daily official work. He called upon for diligent and sincere efforts for enhanced use of Rajbhasha Hindi. Prizes were distributed to the winners of different competitions held during Hindi Saptah.

- **IFP, Ranchi** observed 'Hindi Pakhwara' from 1 to 14 September 2013. During Hindi Pakhwara, 'Essay Competition' on 'Rashtrabhasa' was organized on 13 September 2013 involving all employees.

- **IFGTB, Coimbatore** celebrated Hindi day on 27 September 2013. The function was presided over by Dr.D.B. Maniwal Raju, IRS.



Hindi Saptah at IFGTB, Coimbatore

- **AFRI, Jodhpur** observed Hindi Pakwada from 13 to 27 September 2013. During the fortnight different competitions including *Prashna Manch*, *Anuwad*, *Nibandh*,

Samanya Prashashnik Gyan, Hindi typing and *Kamkaji Hindi Gyan* were organized. A scientific seminar- cum- Hindi workshop was also organized during the fortnight.

- **RFRI, Jorhat** celebrated Hindi week from 9 to 16 September 2013. The institute also organized a Hindi Workshop on 11 September 2013. Another Hindi Workshop was also organized on 17 December 2013 to train the officials for implementation of Rajbhasha Hindi in coordination with Hindi Cell. In the workshop, Hindi Trimonthly Progress Report was also discussed.

NETWORKING FORESTRY EDUCATION WITH RESEARCH AND EXTENSION

ICFRE, under "Networking Project on NTFPs", evaluated the Status Reports and Detailed Project Reports (DPRs) received from various universities. Three sub-projects, one each of H.N.B. Garhwal, University, Srinagar,

Garhwal, Uttarakhand; S.K. University of Agricultural Sciences and Technology of Kashmir (SKUAST), Shalimar, Srinagar, J&K and ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari (NAU),

Gujarat were approved in principle. A total of Rs. 86,558 have been released to two universities i.e. SKUAST, Srinagar, J&K and ASPEE College of Horticulture and Forestry, NAU, Navsari, Gujarat.

REVISION OF NATIONAL WORKING PLAN CODE -2004

Working plans in India have been the main instruments of forest management planning for over hundred years. These are prepared as per the National Working Plan Code. MoEF, Govt. of India intended to initiate the work of revision of existing National Working Plan Code to incorporate the emerging issues like climate change, carbon sequestration, use of GIS, GPS

and other modern technologies, management of NTFPs, etc. and the task was assigned to FRI, Dehradun.

Draft National Working Plan Code for sustainable management of forests and biodiversity has been completed by FRI incorporating suggestions received from the participants at the Regional Workshops organized at Kolkata

(May 2012), Bengaluru (June 2012) and Dehradun (June 2012) and at the National Workshop on NWPC in New Delhi (May 2013) including aspects related to climate change; REDD+, sustainable management of forests and biodiversity; use of modern technology for grid based forest inventory to provide valuable baseline information for change matrix monitoring and

analysis; soil and water management; intensive management of forests; focused management of NWFPs.

The National team, which includes Shri A.K. Mukerji, IFS, Shri M.P. Singh, IFS and Shri S.R. Reddy, DCF submitted the final Draft of National Working Plan Code-2014 to the DGF & SS MoEF, New Delhi on 05 December 2013 for revision of National Working Plan Code-2004.

RAG MEETINGS

Research Advisory Group (RAG) Meetings of the institutes were conducted at respective institute under the Chairmanship of the Director of the institute. Recommendations of research proposals are to be placed before the XV Research Policy Committee (RPC).

RAG meetings were

conducted at IFGTB, Coimbatore on 24 and 25 October 2013; IWST, Bangalore on 7 and 8 October 2013; RFRI, Jorhat on 4 October 2013; TFRI, Jabalpur on 21 and 22 October 2013; AFRI, Jodhpur on 12 and 13 November 2013; HFRI, Shimla on 20 November 2013; IFP, Ranchi on 27 and 28 November 2013 and IFB, Hyderabad on 26 November 2013.

NEW INITIATIONS

- For production of quality planting material of teak through clonal technology, Teak Vegetative Multiplication Garden (VMG) and the shade house with the mist chambers, hardening chamber and the office building were inaugurated on 19 July 2013 at Walayar, Kerala, by Shri. D.K. Verma, Addl. Principal Chief Conservator of Forests, Northern Region, Calicut, Kerala, in the presence of Dr. N. Krishnakumar, Director,

IFGTB and other senior officers.

- New infrastructure facilities such as Mother Bed Chambers, Renovated Mist chamber, RO water treatment plant, cutting preparatory room were inaugurated in IFGTB, Coimbatore by Dr. N. Krishnakumar, Director, IFGTB for scaling up clonal production of superior germplasms. The newly established Mother Bed chamber has UV-stabilized polysheets on the top with misting and micro-fertigation facility over fibre tubs filled with sand. This chamber will facilitate in enhancing shoot production nearly 4-5 times compared to open Vegetative Multiplication Garden (VMG) and also drastically cut down the land area requirement for VMG. IFGTB, Coimbatore is on the

way to establish one more research centre at Neyveli.

The centre covering an area of 25 ha, was inaugurated on 13 December 2013 by Dr. N. Krishnakumar, Director, IFGTB, Coimbatore. The center will not only serve as a research centre but also serve as Extension and Education centre for Foresters, Farmers and Students of Forestry.

- An Interpretation Centre of the Lead Garden for Jharkhand was established under the Ministry of Environment & Forests sponsored project in Jharkhand for *ex situ* conservation of rare and endangered plant species. The centre was inaugurated by Shri Rameshwar Das, Director, IFP Ranchi in presence of scientists, officials and various stakeholders on 27 September 2013. A training, education and extension centre was also inaugurated on 3 October 2013 at IFP Ranchi.



Inauguration of R.O. Plant at IFGTB, Coimbatore

MISCELLANEOUS

International Day for Biological Diversity

- ICFRE, prepared a report on celebration of the International Day for Biological Diversity (IDB) 2013 on "Water and Biodiversity" based on the inputs from different regional institutes and submitted the same to Ministry of Environment and Forests, New Delhi.

Van Mahotsava

- **FRI, Dehradun** and **HFRI, Shimla** observed *Van Mahotsava* on 29 and 20 July 2013 respectively. Plants of various species were planted on this occasion.
- **AFRI, Jodhpur** observed 64th *Van Mahotsava* on 30 July 2013. Seedlings were distributed to the farmers during the programme. The institute also participated in the State Van Mahotsav Programme 2013 on 18 August 2013 by putting up a stall displaying research highlights of AFRI. The Hon'ble Chief Minister, Rajasthan along with other dignitaries visited AFRI Stall.

Himalayan Day

- **FRI, Dehradun** observed the Himalayan Day on 9 September 2013. A panel discussion on environmental issues related to Himalayas was organized on the day. Officers and scientists of ICFRE and FRI and students

of FRI Deemed University were present on the occasion.

- **HFRI, Shimla** in collaboration with World Wide Fund (WWF) organized a workshop at Conifer Campus, Panthaghati to observe the Day.



FRI, Dehradun observed Van Mahotsava

Vigilance Awareness Week

'Vigilance Awareness Week' was observed from 28 October to 2 November 2013 at ICFRE. Pledge was administered on 28 October 2013 at ICFRE auditorium at the opening of the week. The event was observed across all the ICFRE institutes and centres and various activities pertaining to vigilance awareness were conducted during the week.

Wild Life Week

FRI (Deemed) University observed Wildlife Week from 3 to 5 October 2013. The events like wildlife photography exhibition, poster

presentation, debate, quiz, extempore presentations on Wildlife, guest lectures and film shows were organized during the week.

World Bamboo Day

IWST, Bangalore observed the World Bamboo Day on 18 September 2013. The day was marked by the formal release of three booklets on three important bamboo species of Karnataka followed by a talk on "Utilization of Bamboo Resources by Stakeholders and Industries" and planting of various bamboo species in the campus.

PATENTS

- Patent entitled "An Eco-friendly, Economical and Non-hazardous Wood Preservative" (Patent application No.264/DEL/2008 dated 30.01.2008 & Patent No.257393) was awarded to **FRI, Dehradun** on 26 October 2013.

TECHNOLOGY TRANSFER

- Technology for production of compost from plant biomass developed by FRI, Dehradun was, demonstrated and transferred to M/S Anand Organic Krishi Industries, Nagpur, Maharashtra on 06 December, 2013. A license fee of Rs. 1,20,000/ (One lakh twenty thousand only) was charged.

Dr. S.S. Garbyal is the new Director General of ICFRE

Dr. S.S. Garbyal, IFS (AGMUT:1977), Director General of Forests and Special Secretary, MoEF, New Delhi assumed the additional charge of the post of the Director General, Indian Council of Forestry Research and Education (ICFRE), Dehradun in the forenoon of 16 January 2014.

**HR NEWS**

Name & Designation	Date
Appointments	
A. Deputation :	
Dr. G.S. Goraya, IFS, DDG (Res.)	16-07-2013
Dr. V. Ramakantha, IFS, Director, IWST, Bangalore	01.08.2013
Shri Sandeep Kujur, IFS, C.F., F.R.I., Dehradun	02.09.2013
Dr. S.A. Ansari , Director, IFP, Ranchi	03.10.2013
B.Direct :	
Ms Swaran Lata, Scientist-B, TFRI, Jabalpur	14.10.2013
Shri Dinesh Kumar Meena, Scientist-B, RFRI, Jorhat	15.10.2013
Shri Ajay Kumar, Scientist-B, RFRI, Jorhat	15.10.2013
Shri Gaurav Mishra, Scientist-B, RFRI, Jorhat	15.10.2013
Shri Krishna Giri, Scientist-B, RFRI, Jorhat	15.10.2013
Shri Ajay Debbarma, Scientist- B, TFRI, Jabalpur	20.12.2013
Shri M. Rajkumar, Scientist- B, TFRI, Jabalpur	24.12.2013
Shri Dheeraj Kumar Gupta, Scientist- B, TFRI, Jabalpur	26.12.2013
Promotions:	
Shri Narendra Kumar Shringi, Section Officer, FRI, Dehradun	29.07.2013
Shri Lakhi Ram Joshi, Section Officer, FRI, Dehradun	02.07.2013
Dr. A. Shanthi, Scientist- C, IFGTB, Coimbatore	05.08.2013
Shri Rambir Singh, Scientist- C, FRI, Dehradun	05.08.2013
Shri H.C. Sindhuveerendra, Scientist- C, IFP, Ranchi	05.08.2013
Shri N.D. Khobragade, Scientist- B, CFRHRD, Chhindwara	05.08.2013
Shri A.K.Srivastava, Section Officer, CSFER, Allahabad	06.09.2013
Dr. Maitreyee Kundu, Scientist- E, TFRI, Jabalpur	10.09.2013
Shri Dharam Singh Rana, Section Officer, FRI, Dehradun	13.09.2013
Shri M.B. Honnuri, Scientist-B, IFB, Hyderabad	22.10.2013
Dr. (Mrs.) Indrani P. Bora, Scientist-B, RFRI, Jorhat	15.10.2013
Dr. (Mrs.) Kuntala Neog Baruah,	
Research Officer Gd.I, RFRI, Jorhat	15.10.2013
Dr. (Miss) Arundhati Baruah, Research Offer Gd.I,RFRI, Jorhat	15.10.2013
Shri Girindra Thakuria, Research Officer Gd.I, RFRI, Jorhat	15.10.2013
Shri T.C. Bhuyan, Scientist-B, RFRI, Jorhat	15.10.2013
Shri Saraj Lal Meena, Research Officer Gd.I, AFRI, Jodhpur	21.10.2013
Shri Pitamber Singh Negi Scientist-B, HFRI, Shimla	21.10.2013
Shri K.S. Venkataramanan, Scientist-B, IFGTB, Coimbatore	22.10.2013
Shri I.T.K. Dilraj, Research Officer Gd. I, TFRI, Jabalpur	22.10.2013
Shri R.B. Manajhi, Research Officer Gd.I, TFRI, Jabalpur	22.10.2013
Smt. Chandralekha Taksande, Research Officer Gd.I, TFRI, Jabalpur	22.10.2013
Shri A.K. Khanduri, Research Officer Gd.I, FRI, Dehradun	23.10.2013
Repatriation:	
Dr. N.K. Bawane, Medical Officer, TFRI, Jabalpur	05.07.2013
Shri V.R. Srinivasan, FA&CAO, ICFRE	29.07.2013
Shri S.C. Joshi, IFS, Director, IWST, Bangalore	31.07.201
Ms Intienla Ao, IFS,C.F., ARCBR, Aizawl, RFRI, Jorhat	July, 2013
Shri Rameshwar Das, IFS, Director, IFP, Ranchi	03.10.2013
Retirement:	
Shri R.S. Sharma, Under Secretary, ICFRE Dehradun	31.07.2013
Shri Jasbir Singh, Administrative Officer, ICFRE Dehradun	31.07.2013
Ms Veena Chandra, Scientist-F, FRI Dehradun	31.07.2013
Shri O. Mariappan, Librarian, IFGTB, Coimbatore	31.07.2013
Smt. H.C. Nagaveni, Scientist-E, IWST, Bangalore	31.08.2013
Shri N.P. Mahadevan, Scientist-C, IFGTB, Coimbatore	30.11.2013
Shri B.D. Joshi, Dy. Secretary, ICFRE, Dehradun	31.12.2013

Transfers :

	From	To
Dr. Girish Chandra, Scientist-C	TFRI, Jabalpur	ICFRE (Hq.)
Dr. Ranjeet Kumar, Scientist-D	RFRI, Jorhat	HFRI, Shimla
Mrs. Deepa M., Scientist-B	TFRI, Jabalpur	IFB, Hyderabad

AWARDS**AFRI, Jodhpur awarded second prize in Innovation Day celebration and Kissan Mela**

AFRI, Jodhpur participated in Innovation Day celebration and Kissan Mela at Central Arid Zone Research Institute (CAZRI) on 18 September 2013. 70 stalls were displayed on this occasion by several State and Central Government institutes. The institute's stall was awarded with the second prize for best presentation.



Dr. N K Bohra receiving - Award on behalf of AFRI, Jodhpur

- Dr. Hukum Singh, Research Officer, FRI, Dehradun received DST Young Scientist Research Award for project entitled "Carbon, Water and Energy Dynamics in Himalayan Chir Pine Forest" awarded by Science and Engineering Research Board, Department of Science and Technology (SERB-DST), New Delhi.
- 'Brandis Memorial Prize 2011' was awarded to Dr. P.K. Das, RFRI, Jorhat for his research paper in the journal *The Indian Forester* 'Economic Analysis of Agroforestry model adopted by Tribal of Orissa: India'. *Indian Forester*. 137, (5) 535-543.

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Obituary

The ICFRE family deeply condoles the sudden and sad demise of Shri Jagdish Prasad, Driver Special Grade, FRI, Dehradun on 15.09.2013 and prays for the peace of the departed soul.




राष्ट्रीय बांस मिशन द्वारा प्रायोजित BTSG - ICFRE के तत्वावधान में
मध्यप्रदेश एवं छत्तीसगढ़ के किसानों एवं कारीगरों
के लिए बांस हस्तशिल्प पर विशेष प्रशिक्षण
 23 से 27 सितम्बर, 2013
उष्ण कटिबंधीय वन अनुसंधान संस्थान
 (भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद्)
 डाकघर - आर.एफ.आर.सी., मण्डला रोड, जबलपुर - 482021



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