

ICFRE

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INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION
P.O. New Forest, Dehradun (Uttarakhand)

ICFRE NEWSLETTER

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July to December 2016

Patron:

Dr. Suresh Gairola, Director General

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Patron's Column



The Indian Council of Forestry Research and Education (ICFRE), Dehradun is actively engaged in conducting research, promoting education and disseminate research outputs through diverse extension programmes to a number of stakeholders in the forestry sector. Also, we are representing the nation at various national-international fora on global issues of environment and climate change.

At international level, the Council organised two side events during COP 22 of UNFCCC at Marrakesh (Morocco) on 9 & 12 November 2016. First event was on Afforestation and REDD+ in India, another event on Ecosystem and climate change. ICFRE in collaboration with ICIMOD also organised side event on "Transboundary REDD+ programme in Himalayas: South-South cooperation for climate change mitigation". The Council also participated in various international events including 25th session of IPC from 10-20 September 2016 in Germany & Sweden, IUFRO World Congress Silvo – Pastoral System- 2016 from 27-30 September 2016 in Evora, (Portugal), and REDD+ Himalaya: review and planning meeting from 17-21 October 2016 at ICIMOD Kathmandu (Nepal).

Amongst important research innovations, AFRI, Jodhpur developed tissue culture technique for successful multiplication of important desert plant *Salvadora persica* which can be utilized for conservation, mass propagation of superior planting stock of this highly saline resistant tree. IWS, Bengaluru developed Lantana fiber reinforced polypropylene composites for which specific formulations were developed to obtain injection moulded products and profile extruded products with specific properties depending on the end applications. This will help value addition to the low quality natural resources and development of thermoplastic composites for use in various wood articles and products.

FRI, Dehradun estimated the working quality index of *Melia dubia* to be 102 compared to 100 of teak. Thus, the wood of *M. dubia* can be used as par with the teak for furniture makings and other wood products with same durability and finishing. It will reduce pressure on natural teak population as well.

TFRI, Jabalpur developed two high yielding varieties of *Rauwolfia serpentina* (Sarpagandha) through multi-locational evaluation trials based on reserpine content and dry root yield. Also, on the request of Govt. of Bihar, technique of producing value added products of *Mahua* developed by the institute has been extended to the forest department of the state.

Besides organizing over 80 trainings, workshops etc, the Council also participated in a number of other events such as 2nd India International Science Festival-2016 from 28-29 November 2016 at Wadia Institute of Himalayan Geology, Dehradun and 28th "Krishi Shilpa 'O' Banizya Mela" from 07-11 December 2016 at Chandipur, East Medinapore, West Bengal etc.

ICFRE is rendering consultancy services in the field of hydro-power, reclamation of mines and other environmental aspects. The Council and Coal India Limited (CIL) signed a MoU to support scientific and academic research, education and extension in the field of forestry and environment and providing support for assessing and monitoring the environmental compliance of individual mine.

I am sure that this issue of ICFRE Newsletter will provide to the reader a brief panorama of activities of the Council in the stipulated period.

Dr. Suresh Gairola
Director General

Significant Research Findings

• FRI, Dehradun

1. In "**Studies on working quality and finishing aspects of *Melia dubia***" the working quality index of *M. dubia* was estimated to be 102 compared to 100 of teak and hence it is assessed that wood of this species can be easily worked upon. This species shows good machining properties under planing, sanding and shaping operations. Of the four wood-coatings studied, Lacquer gives very high gloss on *M. dubia* wood substrate and Melamine provides the least.

Benefits: The wood of *Melia dubia* can be used at par with the teak for furniture makings and other wood products with same durability and finishing. It will reduce pressure on natural teak population.

2. Two new parasitoid species belonging to genus *Aprostocetus* (Hymenoptera: Eulophidae) were discovered. They parasitized nymphs of two species of psylloids (Hemiptera: Triozidae) - *Pauropsylla ficicola* Kieffer (forming galls on *Ficus roxburghii*) and *Trioza mallotica* (Crawford) (forming galls on *Mallotus philippensis*).



Ficus roxburghii foliage galled and deformed by psylloid *Pauropsylla ficicola* Kieffer



Mallotus philippensis leaves galled by psylloid *Trioza mallotica* (Crawford)

Benefits: These parasitoids can be utilised as biological control agents for controlling these psylloids.

• IFGTB, Coimbatore

Red tamarind, *Tamarindus indica* Var. *rhodocarpa* unripe fruits were evaluated for dyeing potential in fabric/textile as natural pigment. Anthocyanin pigment extracted from the red tamarind fruit pulp is found to have good dyeing potential and gives pink colour to fabrics with good tinctorial strength.

Benefits: It is considered as a potential natural pigment to use in textile industry.



Red tamarind unripe fruit



Pulp extract



Fabrics colour after dyeing

• AFRI, Jodhpur

1. Under a project on "**Development of Tissue culture technology for multiplication of economically important desert plant *Salvadora persica***", tissue culture technique has been developed for successful multiplication of plant *in-vitro* through axillary buds and various physical and chemical conditions have been standardized for *in-vitro* culture conditions using axillary buds (nodal segments) from mature (28-30 years) tree.

Benefits: Since vegetative propagation through stem cutting is reportedly difficult in *Salvadora persica*. Therefore, plant tissue culture offers an

opportunity for rapid multiplication of *Salvadora persica*. The technique can be utilized for conservation, mass propagation of superior planting stock of the tree. Since, it is highly saline resistant tree, its genes can be explored in other advanced field of biotechnology.

2. Antifungal properties of selected 7 plant species such as *Balanites aegyptiaca*, *Tephrosia purpurea*, *Citrullus colocynthis*, *Tribulus terrestris*, *Argemone Mexicana*, *Solanum xanthocarpum* and *Datura stramonium* were evaluated against five plant pathogenic fungi (*Rhizoctonia solani*, *R. bataticola*, *Fusarium moniliforme*, *Fusarium solani* & *Alternaria alternata*) under a project "**Evaluation of antifungal potential and identification of broad spectrum antifungal compound from selected tree/shrubs/weeds of Indian arid region**". The findings indicate that the ethanolic extracts in most of the plant extracts showed higher antifungal activity against targeted fungi as compared to aqueous extracts. Ethanolic extract of *Datura stramonium* leaves has been identified as potent broad spectrum antifungal extracts, where maximum antifungal activity was shown by leaf and minimum antifungal activity was shown by root extract.

Benefits: Ethanolic extract of *Datura stramonium* contain significant antifungal potential against plant pathogenic fungi and thus could be used as alternate of chemical fungicides for management of fungal infection in plant.

- **HFRI, Shimla**

1. Under a project titled "**Assessment of Carbon Stock in Forest Types of Shimla Forest Circle, Himachal Pradesh**", it was revealed that different forest types due to their structure, function and presence of tree species reflect wide variability both in their bio-mass and carbon storage.

Benefits- The data thus generated will act as the baseline for climate change studies with special reference to the carbon stock/ carbon sequestration, which will invariably help in developing the strategies for combating the issue of climate change.

2. There being no documentation pertaining to the distribution status and other related parameters, "studies on Seed Germination and Longevity of *Abies spectabilis* (D.Don) Spach. were carried

out. The findings revealed the presence of 39 natural populations of this species across 09 different forest divisions in the state of Himachal Pradesh. It was also seen that best time for seed collection is the second fortnight of the month of October and trees having diameter class varying from 40 cm to 50 cm proved to be the best source for seed collection. It was also found that the species do not possess any dormancy and the poor germination per cent is mainly because of the presence of large number of empty/ unfilled seeds. While standardizing the nursery technologies, it was found that the seed sown at 1.50 cm deep in the nursery beds gives the best germination per cent. Air tight moisture – proof polysacks provide best storage conditions when kept at -5°C temperature.

Benefits: It will help forest department in planning plantation under various schemes of the department. Its dissemination to the frontline forest staffs will help in improved and quality seed collection and storage.

- **IWST, Bengaluru**

1. **Microwave assisted chemical modification of wood** was undertaken with an aim of developing a rapid method of chemical modification of wood using microwave heating. A process of solvent free chemical modification of wood with acetic anhydride was developed. Modified wood showed good hydrophobicity, improved dimensional stability, and also reduced light induced colour changes at wood surfaces. Use of microwave heating reduced the reaction time significantly as compared to conventional heating.

Benefits: The results of this study will be helpful in upgrading the properties of low quality timbers for outdoor applications.

2. Under a project "**Development of natural fiber filled thermoplastic composites from natural resources available in the state of Punjab**", Lantana fiber reinforced polypropylene composites were successfully developed at varying proportion of fiber and polymer. The properties of lantana filled composites were at par with wood and other lignocellulosic fibers demonstrating the suitability of lantana for such composites. Specific formulations were developed to obtain injection moulded products and profile extruded products with specific properties depending on the end applications.

Benefits: This will help value addition to the low quality natural resources and development of thermoplastic composites for use in various wood articles and products.

3. In a project "**Thermal modification of wood for value addition to plantation timbers**" thermal treatment and optimization of process parameters of five plantation timber species, namely *Eucalyptus* spp., *Melia dubia*, Poplar, Subabul and *Casuarina* grown in the state of Punjab were carried out. A number of prototypes furniture items were developed using these heat treated woods for demonstration. Heat treatment provided the value-addition to traditionally poor quality woods as a substitute for high value timbers.

Benefits: The Thermal modification process therefore has great potential and attractive opportunities to the wood industry for quality improvement as well as diversification of product-base for their value addition

● TFRI, Jabalpur

1. Two high yielding varieties of *Rauvolfia serpentina* (Sarpagandha) through multi-locational evaluation trial of 40 accessions from different localities across the country, based on reserpine content and dry root yield have been developed.

Benefits: The use of these varieties will yield more yield and reserpine content per unit of cost, thus making economic condition better of the people involved in its cultivation.

2. The Institute had earlier developed value added products from Mahua (*Madhuca indica*) and Bamboo. The Govt. of Bihar has evinced interest in the non-alcoholic value added products of Mahua post prohibition and it has been extended to the forest department through invited lecture/demonstration.

Benefits: The development of value added products from Mahua and its extension to places where there is a legal ban has the potential of enhancing nutritional status of people and greater social impacts.

Publications

● AFRI, Jodhpur:

Singh, G. *Sacred Groves of Rajasthan: Threats and Management Strategies*. Scientific Publisher, India. 295p.

● IFGTB, Coimbatore :

- Training Manual: Forest Resources in India: Opportunity in Bio-prospecting.
- Training Manual: Biofertilisers Production, Maintenance and Application

● TFRI, Jabalpur

- Chakrabarti, S. Spiders under class: Arachnida. In: *Biodiversity of Rajbhawan Kolkata, W.B.* published by Govt. of West Bengal, pp. 319-325.

● TFRI, Jabalpur

- Brochures in Hindi 'गुड़मार, गिलोय, तिखुर, धृतकुमारी,

कालमेघ एवं वन रोपणियों में सफेद गीड़ार का प्रकोप एवं प्रबंधन, दीमक का प्रकोप एवं प्रबंधन, टी.एफ.आर.आई ट्राइको-कार्ड द्वारा सागौन के कीटों का जैविक नियंत्रण' and two in English entitled "Regeneration of *Pterocarpus marsupium* Roxb. and Regeneration of *Schleichera oleosa* (Lour.) Oken.

- A Training Material edited by Singh, Sanjay; Khatri, P.K.; Meshram, P.B.; Subramanyam, P and Prakasham, U. entitled "*Familiarizing with biodiversity*" published by TFRI.
- A Training Material, in the form of a book edited by Kulkarni, N. and Mishra, S.N. entitled 'उन्नत नर्सरी तकनीक, वृक्ष सुधार, कृषि वानिकी, वन रोपणियों/वृक्षारोपणों के कीटों तथा रोगों का समन्वित प्रबंधन'

Consultancies

- HFRI, Shimla completed a consultancy entitled "Monitoring and Evaluation of Plantations Raised under H.P. State CAMPA Phase-I" and

final report has been accepted by Himachal Pradesh State Forest Department.

Tree Growers' Mela/ Kisan Mela

Institute	Participated/organized	Duration	Place
FRI, Dehradun	2 nd India International Science Festival-2016	28-29 November 2016	Wadia Institute of Himalayan Geology, Dehradun
IFP, Ranchi	28 th "Krishi Shilpa 'O' Banizya Mela"	07-11 December 2016	Chandipur, East Medinapore, West Bengal
AFRI, Jodhpur	Kishan Mela	21 September 2016	Central Arid Zone Research Institute, Jodhpur
RFRI, Jorhat	Exhibitions on medicinal plants and traditional health care	19-20 December 2016	organized by CFLE, Tripura



FRI stall in 2nd India International Science Festival-2016



Exhibition organised on medicinal plants and traditional health care by RFRI, Jorhat



AFRI Stall at CAZRI Kisan Mela

Visits Abroad

Name of Personnel	Institute	Purpose of visit	Duration	Place
Dr. Dinesh Kumar	FRI, Dehradun	25 th session of IPC	10-20 September 2016	Germany & Sweden
Dr. Anita Tomar	CSFER, Allahabad			
Dr. R. K. Kalita	RFRI, Jorhat	Regional Training of Trainers	18-25 September 2016	Nepal
Sh. Amit Kumar Verma	FRI, Dehradun	Regional consultation workshop	2-4 October 2016	Nepal
Dr. Sudhir Singh	FRI, Dehradun	25 th International Conference of Entomology 2016	25-30 September 2016	Orlando, USA
Dr. V. Sivakumar and Dr. R. Anandalaxmi	IFGTB, Coimbatore	Meeting of DST funded project	19- 25 September 2016	Thailand
Dr. Rashmi	FRI, Dehradun	IUFRO Regional Congress for Asia and Oceania and Pre Congress Training Workshop	21-27 October 2016	Beijing, China
Dr. Shashi Kumar, Dr. G.S. Goraya, Dr. T. P. Singh and V.R.S. Rawat	ICFRE	CoP22 of UNFCCC	9-12 November 2016	Marrakesh (Morocco)

Workshops/Seminars/Meetings

Indian Council of Forestry Research and Education, Dehradun			
Sl.No.	Topic	Duration	Beneficiaries
1.	National REDD+ Strategy and Action Plan for India: Issues and Challenges	30 August 2016	Stakeholders from various relevant sectors such as Forest Departments, Universities, NGOs etc.
Forest Research Institute, Dehradun			
2.	Agro-forestry and livelihood	26 December 2016	Farmers and SHGs of Haryana, Uttar Pradesh and Uttarakhand states.
Institute of Forest Genetics and Tree Breeding, Coimbatore			
3.	Administrative and Legal Issues in Cultivation and Marketing of Valuable tree Species	7 October 2016	124 farmers from various districts of Tamil Nadu.
4.	Cultivation Techniques of Important Tree Species	23 November 2016	71 farmers from all over Tamil Nadu.
5.	Urban Forestry	25 November 2016	About 100 participants.
6.	Tree Cultivation and Management Techniques	30 November 2016	300 farmers including beneficiaries such as Tree growers, Tree growers associations, Farm radio listener groups from all over Tamil Nadu.
7.	Farm Forestry Producers & Users Interfacing (FFPVIW-2016)	21 December 2016	29 participants from pencil industry, ply wood industry and farmers.
Institute of Wood Science and Technology, Bengaluru			
8	Stakeholders Meeting	28 July 2016	Stakeholders from various sectors such as Forest Department, farmers, industries like IPIRTI, ICAR, Central Silk Board, NGOs, Academicians, Retired Forest Officers, Retired Scientists etc.
Centre for Forestry Livelihood and Ecosystem, Agartala			
9	Market Linkage Development	11 July 2016	Members of NBGS, Ananya SHG and Panchai Farmers' Club.
10	Promotion of Forest-based Livelihood among youths	15 July 2016	Youth of Tripura.
11	Extension of livelihood activities	6 August 2016	Farmers of Tripura.
12	Skill Development Programme for Bamboo Artisans	29 September 2016	Bamboo artisans.
13	Lac-Culture and Management	25 October 2016	Tribal communities.
14	Importance of Kabiraj Herbal Gardens in <i>Ex-Situ</i> Conservation and Traditional Knowledge Preservation for Health Care Management	28 October 2016	Farmers, Ayurvedic practitioners.

Himalayan Forest Research Institute, Shimla			
15	Stakeholders meeting	9-21 September 2016	Senior Scientists and Research Officers.
16	Stakeholder's Workshop to identify forestry research needs for the mandated states	16 September 2016	Senior Forest Officers of the state, Field Forest Officers, Scientists from the Universities /Research Institutions including Representatives of active NGOs, Progressive Farmers, Mahila Mandals etc.
17	Forestry in India: Current Challenges and Future Prospects	15-18 November 2016	State Forest Department.



Workshop on "National REDD+ Strategy and Action Plan for India: Issues and Challenges"



Workshop on "Administrative and Legal Issues in Cultivation and Marketing of Valuable tree Species at IFGTB, Coimbatore



Workshop on "Extension of livelihood at CFLE, Agartala

Training Programmes

Indian Council of Forestry Research and Education, Dehradun			
Sl.No	Topic	Duration	Beneficiaries
1	Eco-restoration of deserts and degraded areas	7-11 November 2016	10 Research support staffs at AFRI, Jodhpur.
2	Basic forestry training (Induction training)	7 November 2016	30 Scientists & Research Officers at FRI (DU), Dehradun.
Forest Research Institute, Dehradun			
3	Plantation Technology	13-15 July 2016	Personnels of Indian Farm Forestry Development Co-operative Ltd., Gurgaon, Haryana.
4	Agro-forestry and land management	8-12 August 2016	Farmers and SHGs of Uttarakhand and Uttar Pradesh.
5	Forest Fire Disaster Risk Mitigation	19- 23 September 2016	Forest Officers of different states.
6	Cultivation and utilization of medicinal plants	19- 23 September 2016	Farmers and SHGs of Uttarakhand and Uttar Pradesh.
7	Handmade Paper from <i>Lantana camara</i>	17- 21 October 2016	5 participants recommended by President, SSM, Self Help Group, Ramgarh Sikri from Talwara Block of Kandi region, Hoshiyarpur, Punjab.

8	Cultivation and utilization of medicinal plants	17 -19 October 2016	Farmers and SHGs of Chandigarh.
9	Medicinal plants based agroforestry	7 -9 November 2016	Farmers and SHGs of Haryana.
10	Biopesticides for the management of Poplar defoliator	21- 23 December 2016	32 farmers.
11	Promoting Non Wood Forest Products and Forest Invasive Species for livelihood support to rural women of Uttarakhand	28-29 December 2016	63 women farmers actively participated.
Institute of Forest Genetics and Tree Breeding, Coimbatore			
12	Bioprospecting – Role of the State Forest Departments	21-22 July 2016	15 officers.
13	Bioprospecting – Instrumentation methods and Phytochemical analysis	17-19 August 2016	22 participants from various universities, academic institutions etc.
14	Seed handling and nursery technology for biodiversity conservation and sustainable production	7-8 September 2016	29 trainees.
15	Analysis of DNA marker data	19-24 September 2016	13 participants that included research fellows and scientists from different organizations.
16	Techniques in Bio fertilizer Production, Maintenance and Application	21-23 September 2016	24 participants.
17	Plant Taxonomy	5 October 2016	16 participants from various universities, colleges and schools in Tamil Nadu and Kerala.
18	Forest Genetic Resources Management	7 November 2016	23 officers in the rank of APCCF to DFO level from various states.
19	Agroforestry models – Establishment and Management	24 -26 November 2016	35 farmers.
20	Bioprospecting-Instrumentation methods and phytochemical analysis	22-23 December 2016	Participants from various college/ universities/ Institutions from Tamil Nadu.
Institute of Wood Science and Technology, Bengaluru			
21	Raising, Managing and Marketing Bamboo	20 August 2016	25 farmers.
22	Forestry related technologies	18 October 2016	77 farmers.
23	Sandalwood cultivation and other forestry related aspects	21 October 2016	110 farmers.
24	Sandalwood Cultivation and other forestry aspects	27 October 2016	125 farmers and staffs of KVK.
25	Integrated Pest and Disease Management on Indian Sandalwood	4 November 2016	Farmers, NGOs and Forest Officials.

26	Sandalwood cultivation and other forestry related aspects	1 December 2016	Farmers, Artisans and Industries.
27	Field Identification of important timber species	5 -9 December 2016	Officials from Naval Dockyard, Mumbai, Maharashtra Forest Department and industrialists.
Himalayan Forest Research Institute, Shimla			
28	Bamboo Production, Management and Marketing to the Farmers of Himachal Pradesh	5 -9 September 2016	Farmers.
29	Silviculture and Genetics Aspects of Forest Management	28- 29 September 2016	Officials of State Forest Department.
30	Sustainable utilization, conservation and cultivation of medicinal plants	13 - 15 October 2016	20 participants representing members of Gram Panchyats, Krishi Vigyan Kendras, NGO's, Mahila Mandals and frontline staffs from Chopal Forest Division.
31	Sustainable Development through Agroforestry	27 October 2016	30 farmers and horticulturists.
32	Capacity Building Programme	22- 24 November 2016	31 frontline field functionaries posted in various Forest Circles and Divisions.
33	Cultivation of Atish, Bankakri, Chora and other important temperate medicinal plants	29 November 2016	43 Farmers.
34	Nursery Techniques and Cultivation of Medicinal Plants	2 December 2016	36 farmers from different parts of Jammu region.
35	Management of Insect- Pest and Diseases in the Nursery	6- 8 December 2016	Field functionaries of State Forest Department of Himachal Pradesh and the college students.
36	Eco-restoration of Wastelands	15-17 December 2016	30 participants from the Himachal Pradesh Forest Department, Educational Institutions, Rural Development Deptt. and Research Institutes.
37	Ecology and biological control of insects including butterflies in forest eco-systems	29-31 December 2016	20 field functionaries and students.
Institute of Forest Productivity, Ranchi			
38	Livelihood promotion of farmers by lac cultivation in Palas, Ber, Kusum and <i>Flemengia semialata</i>	20 December 2016	Progressive farmers of Purulia district of West Bengal.
Tropical Forest Research Institute, Jabalpur			
39	Application of Biofertilizers in Forestry	5 July 2016	Officials of Andhra Pradesh Forest Department.
40	Assessing and recording the impact of Damage caused by Insects-pests and diseases to tree species in forests of central India	28-30 July 2016	Field Staff of FSI, Nagpur.

41	Nursery techniques of Chironji, Diseases and insect pests in forest nurseries and plantations and their control measures and Biofertilizers and Organic farming	29 August 2016	State Forest Department officials of Chandrapur, Maharashtra.
42	पौध उत्पादन एवं रोपणी प्रबंधन	22 - 24 September 2016	SHG members associated with IORA Ecological Solution, Delhi.
43	Nursery Techniques of Chironji and NTFPs harvesting, processing and value addition / Food from forests	23 September 2016	Farmers, villagers and women.
44	Candidate Plus Tree Selection	14 - 15 October 2016	Frontline staffs of Maharashtra State Forest Department.
45	Taxonomy of plant Kingdom	17 - 21 October 2016	Students and research scholars.
46	Environmental Awareness	2 – 3 November 2016	School students.
47	Biofertilizers and Organic Farming	8 November 2016	Farmers/villagers.
48	उन्नत नर्सरी तकनीक, वृक्ष सुधार, कृषिवानिकी, वन रोपणियों / वृक्षारोपणों के कीटों तथा रोगों का समन्वित प्रबंधन	8 -9 December 2016	Farmers.
49	Environmental Awareness and Biodiversity and Biodiversity Conservation	7 December 2016	School students of Rajakhoh, Chhindwara.
50	Environmental Awareness and Biodiversity and Biodiversity Conservation	8 December 2016	School students of Jamunia, Chhindwara, District.
Arid Forest Research Institute, Jodhpur			
51	Nursery Management	27- 28 September 2016	31 participants from different districts of Rajasthan.
52	Value addition of nutritionally rich and medicinally important <i>Momordica dioica</i> (Kankeda)	4 - 6 September 2016	Members of Bhurki Devi Mahila SHG, Jamboori (constituted with the help of SFD, Rajasthan and Prabhu Foundation, Sirohi) in tribal dominated area of Abu Road.
53	Eco-restoration of deserts and degraded areas	7 -11 November 2016	Officials of State Forest Department and Industries.
54	New techniques in forestry and agroforestry	8- 10 November 2016	Frontline staffs of State Forest Department, Rajasthan, VFPMC members Farmers from Bikaner.
55	New techniques in forestry and agroforestry	28- 30 November 2016	76 Frontline staffs of State Forest Department, Gujarat and Farmers.
56	Nursery Management	8- 9 November 2016	30 participants (Ranger, Foresters, Forest guards).
57	Integrated Approach for Sustainable Development of Fragile Desert Eco-system	19- 23 December 2016	33 IFS officers.

Rain Forest Research Institute, Jorhat			
58	Bamboo Propagation Preservation and Value Addition of Bamboo	7 July 2016	Artisans of Amtali, West Tripura.
59	Capacity Building and Skill Development of Bamboo Handicrafts	5- 18 July 2016	Local people of Bokota, Sivasagar of Assam.
60	Skill Development and Capacity Building of Rural Youth for Livelihood Generation through Bamboo Handicrafts	6-22 September 2016	Rural Youths.
61	Technology transfer-cum-awareness programme	11 September 2016	Officials of Industries, State Forest Department and farmers,
62	Cultivation of Wild Mushrooms	26-30 September 2016	Local tribal communities.
63	Lac Cultivation & Processing	1 November 2016	25 participants from RFRI, Demo Village, different NGOs and SHGs of Jorhat district.
64	Bamboo Value Chain	10-14 November 2016	People of Miao and Changlang district of Arunachal Pradesh.
65	Bamboo Resource Development for Addressing Livelihood Concerns of Communities	22 - 23 November 2016	23 IFS Officers from different states.
66	Agarwood: Nursery and Plantation Management	28-29 November 2016	Farmers.
67	Vermicomposting Techniques	23 December 2016	Farmers.
68	Principles of Nursery Management, Integrated Management of Nursery Pest and Disease, Package of Practices of important fuel/ grass/fodder species, Vermicomposting Technology and its applications, Vegetative Propagation techniques and seed Technology	27-29 December 2016	Field workers of Aaranyak, Guwahati (Assam).



Training programme on Plantation Technology at FRI, Dehradun



Training on "Bioprospecting – Role of the State Forest Departments" at IFGTB, Coimbatore



Training programme on "Management of Insect- Pest and Diseases in the Nursery" at HFRI, Shimla



Training programme on "Eco-restoration of Wastelands"



Training cum demonstration programme on value addition of *Momordica dioica* (Kankeda) for members of Bhurki Devi Mahila SHG, Jamboori in tribal dominated area of Abu Road



Training under Van Vigyan Kendra, Bikaner – 8-9 November 2016



Training on 'cultivation of wild mushrooms'



A training on vermicomposting Techniques

Academic Audit

Institute	Academic Audit team	Duration
AFRI, Jodhpur	Dr. Ramprasad, IFS (Rtd.), Dr. J.K. Rawat, IFS(Rtd.), Prof. M.S.M. Rawat, Former Vice Chancellor	30 June 2016 to 2 July 2016
TFRI, Jabalpur	Dr. Ramprasad, IFS (Rtd.), Dr. J.K. Rawat, IFS(Rtd.), Prof. M.S.M. Rawat, Former Vice Chancellor, Shri Suneesh Buxy, IFS, DIG (RT), MoEF&CC	25-27 July 2016
IFGTB, Coimbatore		27-29 August 2016
IWST, Bengaluru	Dr. Ramprasad, IFS (Rtd.), Dr. J.K. Rawat, IFS(Rtd.), Prof. M.S.M. Rawat, Former Vice Chancellor and Mr. Nisheeth Saxena, IFS and AIG(RT), MoEF&CC	30-31 August 2016
IFB, Hyderabad	Dr. Ramprasad, IFS (Rtd.), Dr. J.K. Rawat, IFS(Rtd.), Prof. M.S.M. Rawat, Former Vice Chancellor	1-2 September 2016

Accreditation of Universities

- Evaluation Team of ICFRE visited 05 universities i.e., University of Agricultural Sciences, Dharwad,(Karnataka), University of Agricultural & Horticultural Sciences, Shimoga (Karnataka), Haryana Agricultural University,

Hisar (Haryana), Guru Ghasidas University, Bilaspur (Chattisgarh) and Indira Gandhi Krishi Vishwavidyalaya, Raipur (Chattisgarh) to cross check and validate the self Appraisal Reports submitted by the Universities.

National and International Cooperation

National

- AFRI, Jodhpur and Rajasthan State Forest Department for Project Proposal "**Evaluation of forest protection, management and development activities under Compensatory Afforestation and Management Authority in Rajasthan**".
- IWST, Bengaluru and East West Business Services (EWBS), Bengaluru. EWBS is specialized in providing advanced Eco friendly bio-degradable Products to clients within and Outside India (Europe) using **Areca Palm natural fiber** materials.
- Memorandum of Agreement (MoA) of IWST with VE Commercial Vehicle Ltd. (VECV) for the **Tree Transplantation and Tree Management project**.
- MoU between IWST, Bengaluru and Madhya Pradesh State Bamboo Mission (MPSBM) for the project **Development of bamboo lumber from locally available bamboo resources for their improved utilization in building and construction sector**.
- MoU between IWST, Bengaluru and M/s Pointec Pens and Energy Private Limited, Bangalore to develop and commercialize thermally modified bamboo and its application for mass production and industrial needs for developing bamboo-based products.
- MoA between IWST, Bengaluru and University of Agricultural Science- Bengaluru (UASB) and partner institutes for a project titled "Spatio-temporal landuse patterns at rural-urban interface and the relationship between green areas and biophysical features".
- MoA between AFRI, Jodhpur and National Medicinal Plant Board (NMPB), Ministry of

AYUSH, Govt. of India for following two projects

- Development of Seed Production Areas and Haploid Plants of *Commiphora wightii* (Arnott): a Rare and Threatened Medicinal Plant.
- Clonal Propagation, Characterization and Biochemical analysis of *Leptadenia reticulata* : A threatened medicinal plant.
- Project on "Enumeration, Geo-tagging and inventorization of tree biodiversity" at NTPC, Ramagundam by IFB, Hyderabad.
- ICFRE and Coal India Limited (CIL) signed a Memorandum of Understanding on 1 September 2016 to support scientific and academic research, education and extension in the field of forestry and environment and providing support for assessing and monitoring the environmental compliance of individual mine.



ICFRE signing of MoU with CIL

- Agreement was signed between ICFRE and NATCOM project Management Cell of MoEF&CC at Inspire Network for Environment, New Delhi for project on 'Mitigation actions, constraints, gaps and related financial, technical and capacity needs to address climate change concerns in forest sector in India'.

International

IWST, Bengaluru and Groupe Ecole Superieure du Bois (ESB), Nantes, France for undertaking scientific and academic collaboration and

exchange of scientists and research student. ESB is a non-profit institute under the supervision of the French Ministry of Agriculture and Higher Education.

Rajbhasha News

Sl.No.	Institute	Activities	Duration
1	ICFRE, Dehradun	Hindi Week	07 to 14 September 2016
2	FRI, Dehradun	Hindi Week	12 to 23 September 2016
3	IFGTB, Coimbatore	Hindi Day	19 September 2016
4	IWST, Bengaluru	Official Language Orientation Programme	30 November 2016
5	AFRI, Jodhpur	Hindi Fortnight	14 to 28 September 2016
6	RFRI, Jorhat	Hindi Fortnight	14 to 28 September 2016



Chief Guest, Dr. Shashi Kumar, DG, ICFRE addressing the audience during the closing ceremony of Hindi Week at ICFRE

Research Advisory Group (RAG) Meeting

Name of Institute	Date
FRI, Dehradun	28-29 September 2016
IFB, Hyderabad	30 September 2016
IWST, Bengaluru	3-4 October 2016
TFRI, Jabalpur	5-6 October 2016
HFRI, Shimla	7 October 2016
AFRI, Jodhpur	13 and 14 October 2016
RFRI, Jorhat	18 and 19 October 2016
IFP, Ranchi	20 and 21 October 2016
IFGTB, Coimbatore	25 and 26 October 2016.

Visit of Dignitaries

Visit of Shri Anil Madhav Dave, Hon'ble Union Minister of State (Independent Charge) Environment, Forest and Climate change to ICFRE and its Institutes

The Hon'ble Union Minister of State (Independent Charge) Environment, Forest and Climate Change visited ICFRE, Dehradun on 19 December 2016

and interacted with senior officers/scientists of ICFRE, WII, FSI, Dehradun in ICFRE Auditorium.



Senior officers/scientists of ICFRE, WII, FSI, Dehradun attending meeting with Shri Anil Madhav Dave, Union Minister of State (Independent Charge) Environment, Forest and Climate Change



The Hon'ble Union Minister of State (Independent Charge), MoEF&CC addressing the officers/scientists in ICFRE Auditorium during his visit

- The Hon'ble Union Minister of State (Independent Charge), MoEF&CC visited IFGTB, Coimbatore on 6 September 2016. During his visit he had an interaction meeting with Forest Officers, Scientist and Research Officers of IFGTB.



Visit of the Hon'ble Union Minister of State (Independent Charge), MoEF&CC to IFGTB, Coimbatore

- He also visited ARCBR, Aizawl and had meeting with officials of Mizoram Forest Department, ARCBR and Mizoram Pollution Control Board on 27 and 28 September 2016.



Visit of the Hon'ble Union Minister of State (Independent Charge), MoEF&CC to ARCBR, Aizawl

- Shri K. Mohan Rao, Hon'ble Member of Parliament (Rajya Sabha) from Telangana visited IWST, Bengaluru on 5 July 2016.
- Prof. Christoph Kleinn, Chair, Forest Inventory & Remote Sensing, Burkhardt Institute, George-August University, Goettingen (Germany) along

with two other scientists Dr. Lutz Fehrmann and Dr. Nils Noelke visited HFRI, Shimla on 5 and 6 August 2016.

- Shri Lalrinmawia Ralte, Hon'ble Minister, Environment, Forest and Climate Change, Govt. of Mizoram and Shri L. R. Thanga, PCCF, Mizoram along with other senior forest officers of Mizoram State Forest Department visited ARCBR, Aizawl on 28 September 2016.
- A German team visited IWST, Bengaluru on 4 October 2016. The Bararian-Indian Center for Business and University Co-operation (TBayIND) has been set-up by Bararian State Ministry of Education, Sciences and the Arts in order to promote and foster the academic and business cooperation between the state of Bavaria (in Germany) and India.



Pu Lalthan Hawla, C.M. of Mizoram visited ARCBR, Aizawl

- Dr. K. Kamaraj, the Hon'ble Member of Parliament of Tamilnadu visited IWST, Bengaluru on 21 October 2016.
- Hon'ble Chief Minister of Mizoram, Pu Lalthan Hawla visited the ARCBR, Aizawl on 25 November 2016 to get acquainted with the research activities being conducted by the Centre.

Awareness and Demonstration Programmes

- A series of Skill Development Programme for Bamboo Artisans in collaboration with Craftbazar (Promoter group) was organized from 10-12 November 2016 at CFLE, Agartala.
- An Eco Skill Development Programme for Divyaang Jan for Generation of Sustainable Livelihood Options was organized by CFLE in collaboration with Craftbazar (Promoter group) and Ashabori Welfare Society was organized from 23-26 November 2016.
- A three days "Exposure Visit-cum-Training Programme" on Broom Grass Cultivation and



A Skill Development Programme for Bamboo Artisans

other Community Livelihood Practices in Tripura was organized for community based



An Eco Skill Development Programme at CFLE, Agartala

organizations under Meghalaya Basin Development Authority, Shillong by CFLE, Agartala. The programme was conducted in different locations of Tripura from 25-27 October 2016.



Exposure Visit-cum- Training Programme on Broom Grass Cultivation



- A one-day “**Exposure Visit**” on Community Livelihood Practices in Tripura was organized in Noagaon area under West Tripura District for participants from Manipur under JUST and CFLE on 24 November 2016.

Awards

- Prestigious **Brandis Prize** for the year 2014 was awarded to **Dr. Vaneet Jishtu, Scientist-C** of HFRI, Shimla for best research paper entitled “*Juniperus polycarpus* C. Koch forests and its Conservation Status in Cold Deserts of Himachal Pradesh, North West Himalayas” which was published in April, 2014 issue of *The Indian Forester*.
- Prestigious Schlich Prize for the year 2014 was awarded to Dr. Sudhir Singh, Scientist-F, of FRI, Dehradun for the best research paper entitled “Rediscovery of *Termitoloemus marshalli* Baranov (Diptera: Calliphoridae: Bengaliinae), a predator of termites, after 78 years” which was published in September, 2014 issue of *The Indian Forester*.

Climate Change and REDD+

- During COP 22 of UNFCCC at Marrakesh (Morocco), ICFRE organised two side events at Indian Pavilion on 9 November 2016. First event was on Afforestation and REDD+ in India, followed by another event on Ecosystem and climate change. Dr. Shashi Kumar, DG, ICFRE, Dr. G.S. Goraya, DDG (Research), ICFRE, Dr. Kei Windhort, Chief Technical Advisor, GIZ (Germany) and Dr. Chetan Kumar of IUCN were among the prominent speakers during the side events.
- ICFRE in collaboration with ICIMOD organised side event on “Transboundary REDD+ programme in Himalayas: South-South cooperation for climate change mitigation”, at UNFCCC On 12 November 2016. Four Himalayan countries i.e. India, Nepal, Bhutan and Myanmar under the aegis of ICIMOD are implementing a Transboundary REDD+ programme. Dr. Shashi Kumar, DG, ICFRE, chaired the event.

Miscellaneous

Institute	Special day/theme	Duration
IWST, Bengaluru	Van Mahotsava	8 July 2016
HFRI, Shimla		22 July 2016
AFRI, Jodhpur		24 July 2016
FRI, Dehradun		28 July 2016
HFRI, Shimla	International Mountain Day, 2016 on Mountain Cultures: Celebrating diversity and strengthening identity	11 December 2016
FRI, Dehradun	Martyrs day	11 September 2016.
FRI, Dehradun	National Unity Day	31 October 2016

FRI, Dehradun; IFGTB, Coimbatore; AFRI, Jodhpur and RFRI, Jorhat	Vigilance Awareness Week on Public participation in promoting Integrity and eradication of corruption	31 October to 5 November 2016
TFRI, Jabalpur	Sadbhawna Pakhwara	19 August to 3 September 2016
CFRHRD, Chhindwara	Qaumi Ekta Week	19 - 25 November 2016
IFP, Ranchi	Swach Bharat Abhiyan Week	26 September to 02 October 2016
FRI, Dehradun; RFRI, Jorhat and CFLE Agartala	Constitution Day	26 November 2016
ARCBR, Aizawl	50 years' of Indian Forest Service	25 November 2016

Popularizing Forestry through All India Radio/Doordarshan

Programme topic	Channel	Date
IWST, Bengaluru		
A documentary on museum	Suddhi TV, a Kannada News Channel	29 November 2016
CFRHRD Chhindwara		
A Radio talk- "Agroforestry in MP"	AIR, Chhindwara	22 July 2016
Radio talk on 'जैविक उत्पाद उपयोग' and 'मशरूम की खेती'	-do-	25-26 September 2016
Radio Talk on 'जैविक खेती'	AIR, Chhindwara	4 December 2016
A radio talk on 'औषधीय पौधों के उपयोग'	AIR, Chhindwara	23 December 2016
A radio talk on 'मोबाइल के उपयोग/दुरुपयोग-बच्चों को संदेश'	-do-	24 December 2016
A radio talk on 'चिरोंजी की नर्सरी तकनीक'	-do-	28 December 2016
RFRI, Jorhat		
A Radio Talk on "Selection of species for Social Forestry"	Prasar Bharati, Jorhat Centre	16 September 2016

COMMERCIALIZATION OF HIGH-YIELDING CLONES OF CASUARINA DEVELOPED BY IFGTB

IFGTB has released 14 clones of Casuarina till December 2016 and has submitted application to the Variety Releasing Committee for the release of five hybrid clones during 2017. Non-exclusive licenses have been granted to paper industries and private nursery operators against payment of one-time license fee for commercial propagation and sale of the clones. During July-December 2016, four licenses were given and a total license fee of

Rs.10 lakhs was realized. At present the licensees produce around 25 lakhs plants of IFGTB clones and supply to farmers and the number of plants produced is expected to double in the next two years. On-farm tests showed that the new clones yield on an average 30 tonnes more wood per hectare than the currently used varieties and bring an additional income of Rs.1,20,000/- to farmers.



Dr. Suresh Gairola is the new Director General, ICFRE
Dr. Suresh Gairola, IFS (MH:1982) assumed the charge of the post of the Director General, Indian Council of Forestry Research & Education (ICFRE), Dehradun in the afternoon of 28 March 2017.

Name & Designation Date

Appointments

Deputation:

Dr. Shashi Kumar, IFS, DG, ICFRE	25.06.2016
Shri Satya Prakash Negi, C.F., HFRI, Shimla	01.08.2016
Dr. Neelu Gera, IFS, DDG (Edu.), ICFRE	07.10.2016
Shri Vimleshwar Prasad Khanduri, Security Officer, FRI, Dehradun	14.10.2016
Shri Vipin Chaudhary, IFS, DDG(Extn.), ICFRE	27.10.2016

Promotions:

Smt. P.R. Treveni, Scientist-B, IWST, Bengaluru	11.07.2016
Dr. Praveen Kumar Verma Scientist-B, FRI, Dehradun	12.07.2016
Dr. Mamta Purohit, Scientist-B, TFRI, Jabalpur	12.07.2016
Shri A.J.K. Asaiya, Scientist-B, TFRI, Jabalpur	12.07.2016
Smt. Mamta Meshram, Scientist-B, CFRHRD, Chhindwara	12.07.2016
Smt. Shailini Bhowte, Scientist-B, CFRHRD, Chhindwara	14.07.2016
Shri S.N. Mishra, Scientist-B, TFRI, Jabalpur	15.07.2016
Dr. Hukam Singh, Scientist-B, FRI, Dehradun	28.07.2016
Shri Manoj Kumar, Scientist-B, FRI, Dehradun	28.07.2016
Shri Shailendra Kumar, Scientist-B, TFRI, Jabalpur	01.08.2016
Shri Pankaj Singh, Scientist-B, IFB, Hyderabad	03.08.2016
Dr. Pradeep Sharma, Scientist-B, RFRI, Jorhat	04.08.2016
Shri A. Durai, Scientist-B, AFRI, Jodhpur	11.08.2016
Dr. V.P. Pandey, R.O. Gd.-I, CSFER, Allahabad	30.08.2016
Smt. K. Shanthi, R.O. Gd.-I, IFGTB, Coimbatore	30.08.2016
Shri P. Manivachakam, R.O. Gd.-I, IFGTB, Coimbatore	30.08.2016
Smt. S. Lalitha, R.O. Gd.-I, IFGTB, Coimbatore	30.08.2016
Shri P. Chandrasekaran, R.O. Grade-I, IFGTB, Coimbatore	30.08.2016
Smt. R. Sumathi, R.O. Gd.-I, IFGTB, Coimbatore	30.08.2016
Shri K. Gireesan, R.O. Gd.-I, IFGTB, Coimbatore	30.08.2016
Dr. K.T. Chandrasekhar, R.O. Gd-I, IWST, Bengaluru	30.08.2016
Dr. P.V. Somashekar, R.O. Gd-I, IWST, Bengaluru	30.08.2016
Dr. Sarita Mutha Jain, R.O. Gd-I, VVB, New Delhi	30.08.2016
Shri Joginder Singh, R.O. Gd-I, HFRI, Shimla	30.08.2016
Shri N. Chandrashekar, R.O. Gd-I, IWST, Bengaluru	30.08.2016
Shri K.S. Gond, R.O. Gd-I, TFRI, Jabalpur	31.08.2016
Shri D.C. Kori, R.O. Gd-I, TFRI, Jabalpur	31.08.2016
Shri Ranjeet Singh, R.O. Gd-I, FRI, Dehradun	31.08.2016
Shri Magan Singh, R.O. Gd-I, FRI, Dehradun	31.08.2016
Dr. K.C. Choudhary, R.O. Gd-I, AFRI, Jodhpur	31.08.2016
Shri H.D. Pathak, R.O. Gd-I, TFRI, Jabalpur	31.08.2016
Shri I.L. Pache, R.O. Gd-I, TFRI, Jabalpur	31.08.2016
Shri K.R. Choudhary, AFRI, Jodhpur	31.08.2016
Smt. R. Ashakumar, R.O. Gd-I, IFB, Hyderabad	31.08.2016
Shri Chetan Swaroop, R.O. Gd-I, FRI, Dehradun	31.08.2016
Shri M.K. Chanchal, R.O. Gd-I, IFP, Ranchi	31.08.2016
Dr. M. Sujatha, Scientist-B, IWST, Bengaluru	01.09.2016
Dr. S.K. Rajput, Scientist-B, AFRI, Jodhpur	05.09.2016
Shri M.C. Jain, Section Officer, FRI, Dehradun	05.10.2016
Shri M.N. Juyal, Section Officer, FRI, Dehradun	05.10.2016

Repatriation/Relieving from ICFRE:

Shri B.M. Kalla, DCF, AFRI, Jodhpur	11.08.2016
Shri T.S. Punnoose, F.R.O., IFGTB, Coimbatore	11.08.2016
Shri Lalthanhlua Zathang, DCF, FRI, Dehradun	23.09.2016
Shri B.R. Bhadu, IFS, C.F., AFRI, Jodhpur	04.11.2016
Dr. N.S. Bisht, IFS, Director (IC), ICFRE	09.11.2016

Retirement:

Shri Om Kumar, Scientist-D, ICFRE, Dehradun	01.07.2016
Shri Anil Kumar Mulasi, Store Officer, FRI, Dehradun	10.07.2016
Shri. P.N. Mishra, Scientist-C, TFRI, Jabalpur	31.07.2016
Dr. Sanjay Naithani, Scientist-G, FRI, Dehradun	31.07.2016
Shri Udham Ram, Under Secretary, HFRI, Shimla	31.07.2016
Smt. Sunita Juyal, Section Officer, FRI, Dehradun	31.08.2016
Shri H.C. Nailwal, Private Secretary, ICFRE, Dehradun	01.08.2016
Dr. Sushma Mahajan, Scientist-G, ICFRE, Dehradun	31.08.2016

HR NEWS

Dr. A.K. Bhowmik, Scientist-D, TFRI, Jabalpur	31.08.2016
Dr. B. Gurudev Singh, Scientist-G, IFGTB, Coimbatore	30.09.2016
Dr. Satya Pal Singh, Scientist-D, FRI, Dehradun	31.10.2016
Shri Krishan Lal, Section Officer, FRI, Dehradun	31.10.2016
Dr. K.K. Srivastava, Scientist-F, AFRI, Jodhpur	30.11.2016
Dr. P.K. Khatri, Scientist-F, TFRI, Jabalpur	31.12.2016

Promotions under FCS

As on 1 July 2016

From Scientist-B to Scientist-C

Dr. S.C. Biswas, RFRI, Jorhat

From Scientist-C to Scientist-D

Shri Subash Chander, TFRI, Jabalpur
Dr. K. Paneerselvam, IFGTB, Coimbatore

From Scientist-D to Scientist-E

Dr. Vikas Rana, FRI, Dehradun
Dr. Anita Tomar, CSFER, Allahabad
Dr. B.N. Diwakara, IWST, Bengaluru
Shri M. Maria Dominic Savio, IFGTB, Coimbatore
Dr. A. Rajsekaran, IFGTB, Coimbatore
Dr. Vipin Prakash, RFRI, Jorhat
Shri Ashwani Tapwal, HFRI, Shimla
Shri Ranjeet Kumar, HFRI, Shimla

From Scientist-E to Scientist-F

Dr. Parmod Kumar Pande, FRI, Dehradun
Dr. Rajesh Bhandari, FRI, Dehradun
Dr. Fatima Shirin, TFRI, Jabalpur
Dr. Rajiv Rai, TFRI, Jabalpur
Dr. N.V. Mathish, IFGTB, Coimbatore
Dr. Tarun Kant, AFRI, Jodhpur

From Scientist-F to Scientist-G

Dr. Sangeeta Gupta, FRI, Dehradun
Dr. K.K. Srivastava, AFRI, Jodhpur

Transfer:

Name of Officer

From

To

Dr. S.P.S Rawat, Scientist-F	FRI, Dehradun	ICFRE, Dehradun
Shri Alok Yadav, Scientist-D	ICFRE, Dehradun	CSFER, Allahabad
Dr. T.N. Manohara, Scientist-D	RFRI, Jorhat	IWST, Bengaluru
Shri S.K. Sharma, Scientist-D	ICFRE, Dehradun	FRI, Dehradun
Shri Tara Chand, Scientist-D	FRI, Dehradun	ICFRE, Dehradun
Shri G.S. Bisht, Private Secretary	ICFRE, Dehradun	FRI, Dehradun
Dr. Vipin Parkash, Scientist-E	RFRI, Jorhat	FRI, Dehradun
Dr. Manish Kumar Singh, Scientist-C	ICFRE, Dehradun	RFRI, Jorhat
Shri Brijesh Kumar Sharma, Section Officer	FRI, Dehradun	ICFRE, Dehradun
Shri Narendra Kumar, Section Officer	ICFRE, Dehradun	FRI, Dehradun
Shri Arvind Johri, Section Officer	FRI, Dehradun	ICFRE, Dehradun
Shri Sanjeev Khugshal, Section Officer	ICFRE, Dehradun	FRI, Dehradun
Shri Shailendra Kumar, Scientist-B	TFRI, Jabalpur	ICFRE, Dehradun
Dr. Pradeep Sharma, Scientist-B	RFRI, Jorhat	FRI, Dehradun

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Obituary

The ICFRE family deeply condoles the sudden and sad demise of Milan Chand Saklani, M.T.S., FRI, Dehradun on 03.09.2016 and Mr. Probin Baishya, Deputy Ranger, RFRI, Jorhat on 25.11.2016 prays for the peace of the departed souls.



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