

CONTENT

Pg. No.	Title
01	Significant Research Findings
02	Consultancies
02	Tree Growers Mela/ Kisan Mela
02	Visit Abroad
03	Workshops/ Seminars/ Meetings
04	Training Programmes
05	Research Advisory Group (RAG) Meetings
05	Visit of Dignitaries
05	Memorandum of Understanding (MoU)
05	Director General Visits
06	Miscellaneous
07	Awards
07	HR News



Indian Council of Forestry Research and Education

SIGNIFICANT RESEARCH FINDINGS**Arid Forest Research Institute (AFRI), Jodhpur**

- Despite significant increase in irrigation facilities like well, tube well, canal etc., 67.1% Households (HHs) depend on rainfed agriculture in western Rajasthan. Though it varies widely in different blocks, dung cakes, fuel wood, crop residue and LPG and their combinations are used in the region for cooking purpose. In this, region average use of dung, fuel wood, crop residue, LPG and kerosene is 2.5 kg, 11.5 kg, 2.6 kg, 0.11 kg and 0.16 litre respectively. The use of fuel is relatively greater during winter than in summer months. Though other land uses are also utilized in the region for fuel wood collection, forests and agriculture lands are main areas from where the people collect fuel wood. About 29.7% and 30.7% HHs use Ox - plough and tractor, respectively for cultural operations, ploughing agriculture field.
- A study was conducted on enhancing productivity of *Capparis decidua* (kair), a spiny shrub or small tree which may grow up to 4-5m. Kair can survive in various habitats under extreme condition of temperature of arid region with good soil binding capacity. It is found in whole Rajasthan, except the high rainfall zone of Kota, Banswara, and Jhalawar. An study on “Productivity enhancement of kair to generate livelihood in rural areas of Thar Desert“ was conducted.

It produces leaves, flowers and fruits 2-3 times in year. The peak flowering occurs in the summer months when ripe. It bears fruit 1.3-1.8 cm diameter, round, fleshy,

pink or red. Its fruit, provides additional income to the rural people, as pickles of the fruit - is a value added product. The market rates collected from Jodhpur market during 1995-2011, are continuously rising from Rs. 80-100 /Kg in 1995 to Rs300-350 /Kg in 2011 and Rs 800-1000 /Kg in 2017. The rate increases with decrease in size of fruits. However, they are mainly collected from the wild with no effort for its domestication.

Three years data for experimental trial at Gogelao beed Nagaur indicate that integrated use of organic and inorganic fertilizers is helpful in enhancing the number of fruiting shrubs and per shrub yield. Leaf Compost Manure (LCM) in combination with inorganic fertilizers enhances the fruit yield combination of LCM, P, K, Zn and is the best treatment, closely followed by LCM+ NPK. Results with VAM were also very encouraging. Protein, Sugar, Vitamin-C content are in similar range for the fruits obtained in April & October.

- A project on “species evaluation for landscaping and restoration of degraded Aravalli hills at IIM campus, Udaipur” was initiated during August 2014 with the aim to evaluate different tree and shrub species for their suitability in restoration of degraded hills. Survey of the site was done and experimental details finalized with layout of the experiment. (Contour trenches (2200 running m) were made as soil and water conservation measures). Seedlings of 22 plant species were planted in blocks as per soil and land characteristics. Planting of branch cutting of *Boswellia serrata* was done at 150 places. To protect the plants from browsing by Blue bull,

brushwood fencing was made for individual plants. Seeds of different species were sown on the mounds of contour trench. Available trees, tree saplings and shrubs in the plantation area were pruned to give better shape. Mortality replacement and replanting was done in the plantation area. Life saving irrigation provided at regular interval. Survival and growth was high in *Dendrocalamus strictus*, *Terminalia arjuna*, *Embllica officinalis*, *Thespesia populnea*.

Outcome of the project provides a preference list of tree and shrub species that can be effectively utilized for

landscaping and restoration of degraded Aravalli hills and a package of practice that can be followed to increase biodiversity in similar area.

The finding may be used by the Indian Institute of Management, Udaipur (IIMU) for framing appropriate strategy for landscaping and restoration of large area of degraded hills close to its natural forest type. In long term it will also contribute to erosion control, biodiversity enhancement, carbon sequestration value and long-term ecosystem services.

CONSULTANCIES

- Draft final reports on Marki Barka East Block and West Block of Singrauli Coalfield Area submitted to Central Mine Planning and Design Institute, Ranchi, Jharkhand.
- Telangana State Forest Department had approved the consultancy on the Working Plan preparation by IFB Hyderabad dated 25 October 2017.

TREE GROWERS MELA/ KISAN MELA

Institute	Participated/organized	Duration	Place
IFGTB, Coimbatore IWST, Bengaluru	India International Science Festival (IISF)-2017	13 -16 October 2017	Chennai
HFRI, Shimla	Mega exhibition “Destination Himachal Pradesh, 2017”	24 to 26 October 2017	Solan, HP



India International Science Festival (IISF)-2017



Mega exhibition “Destination Himachal Pradesh, 2017”



VISIT ABROAD

Name of personnel	Institute	Purpose of Visit	Duration	Place
Dr. Amit Kumar Verma, Technical Officer and Namitha Nhandadiyil Kaliyathan, Technical Officer	FRI, Dehradun	2017 Asia Forest Fire Management Training	15 to 22 October 2017	Seoul, South Korea

WORKSHOPS/ SEMINARS/ MEETINGS

S. No.	Topic	Duration	Beneficiaries
Institute of Wood Science and Technology (IWST), Bengaluru			
1.	Green Cover Retention-The Critical Need	31 October 2017	70 participants from outside and IWST officials
2.	Forest, Wildlife and Environmental Conservation	25 to 27 October 2017	Stakeholders on Forest, wildlife and Environmental Conservation
Institute of Forest Genetics and Tree Breeding (IFGTB), Coimbatore			
3.	Strategies for aligning forestry skill courses to national skill qualification framework	25 October 2017	HoD's and Scientists of IFGTB
4.	Beneficial Microbes and their Role in Forestry	26 October 2017	63 scientists, research officers, research scholars



Forest, Wildlife and Environmental Conservation at IWST, Bengaluru



Strategies for aligning forestry skill courses to national skill qualification framework at IFGTB, Coimbatore

Himalayan Forest Research Institute, (HFRI), Shimla

5.	Increase in availability of fodder from forest and its quality improvement	30 October 2017	scientists, officers and other research support staff including research and technical staff
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Arid Forest Research Institute (AFRI), Jodhpur

6.	Assessment of biological diversity and people's participation for developmental plan and awareness generation in different community reserve of Jodhpur	16 October 2017	67 scientists and staff of state forest department, Jodhpur
7.	Productivity enhancement of kair (<i>Capparis decidua</i>) to generate livelihood in rural areas of Thar Desert	One day	50 State Forest Department personnel, scientists, farmers & Ayurvedic Doctors etc



Assessment of biological diversity and people's participation for developmental plan and awareness generation in different community reserve of Jodhpur at AFRI, Jodhpur



Productivity enhancement of kair (*Capparis decidua*) to generate livelihood in rural areas of Thar Desert at AFRI, Jodhpur

Institute of Forest Productivity, (IFP), Ranchi

8.	Institute's level In-house seminar estimation of genetic variability	13 October 2017	All officers, Scientists, Technical Staffs, Ministerial Staffs, Research Scholars etc
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Centre for Forest-Based Livelihoods & Extension (CFLE), Agartala

9.	Importance of Kaviraj Herbal gardens in ex-situ conservation and traditional knowledge preservation for Health Care Management	28 October 2017	-
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TRAINING PROGRAMMES



S. No.	Topic	Duration	Beneficiaries
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Forest Research Institute (FRI), Dehradun

1.	Awareness Generation on Technologies developed by FRI	24 to 26 October 2017	Farmers, SHGs and other stakeholders under sponsored MoEF & CC, New Delhi
2.	Nursery and Seed Technology		

Institute of Forest Genetics and Tree Breeding (IFGTB), Dehradun

3.	Cultivation of <i>Melia dubia</i>	23 October 2017	12 Forest officers from Kerala
4.	Tree Pests and Disease Management		75 Farmers from different parts of Kerala
5.	Tree Bio-boosters and Biofertilizers	24 October 2017	Farmers from different parts of Kerala
6.	Bioprospecting and Biopiracy	3 days	Various stakeholders including nature club/eco club members, social activists, NGOs, Tribal Association, Women Self Help Groups (WSHG) etc



Training on Awareness Generation on Technologies developed by FRI



Training on Nursery and Seed Technology at FRI, Dehradun



Training on Bioprospecting and Biopiracy at IFGTB, Coimbatore

RESEARCH ADVISORY GROUP (RAG) MEETINGS

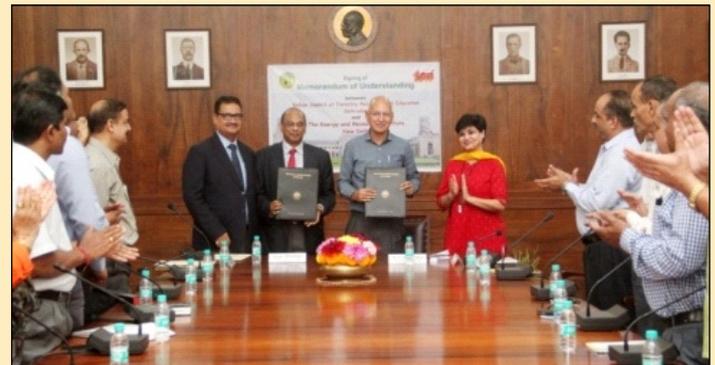
- HFRI, Shimla on 13 October 2017.
- RFRI, Jorhat on 9 and 10 October 2017.

VISIT OF DIGNITARIES

- HE Dato. Hidayat Abdul Hamid, High Commissioner, Malaysia visited FRI, Dehradun on 9 October 2017.
- Sri Omkar Singh, IFS, PCCF, Arunachal Pradesh visited ARCBR, Aizawl on 30 October 2017.



HE Dato. Hidayat Abdul Hamid, High Commissioner, Malaysia visited FRI, Dehradun



MoU was signed between ICFRE, Dehradun and The Energy and Resources Institutes, New Delhi

DIRECTOR GENERAL VISITS

- Dr. Suresh Gairola, IFS, DG, ICFRE visited the following institute:
 - Two day visit to IFGTB, Coimbatore on 29 and 30 October 2017. DG, ICFRE inaugurated the VAM biofertilizer production unit facility at IFGTB on 30 October 2017.
 - TFRI, Jabalpur during 26 to 28 October 2017. He inaugurated the training programme organized under कुशल भारत हेतु कौशल विकास योजना अंतर्गत बाँस आधारित हस्तशिल्प उत्पादों से अतिरिक्त आय and review edvarious research and other activities of the institute.
 - HFRI, Shimla from 19 to 22 October 2017. Director General, ICFRE inaugurated the JRF Hostel in the premises of this Institute.



Director General, ICFRE inaugurated the JRF Hostel at HFRI, Shimla

MEMORANDUM OF UNDERSTANDING

- A MoU was signed between ICFRE, Dehradun and The Energy and Resources Institute, New Delhi on 17 October 2017 for an initial period of ten years. The main objective of the MoU is to conduct research for sustainable development of India and the Global South. TERI's key focus areas lie in promoting as Clean energy, Water management, Pollution management, Sustainable agriculture and Climate resilience.
- A MoU was signed between IWST and Global Academy of Technology Bengaluru on 5 October 2017 for exchange of faculty, scientist and students.



DG, ICFRE inaugurated the VAM biofertilizer production unit facility at IFGTB, Coimbatore

MISCELLANEOUS



Institute	Special day/ theme	Duration
ICFRE, Dehradun IFB Hyderabad IFGTB, Coimbatore HFRI, Shimla	Swachh Bharat Abhiyaan	2 October 2017
RFRI, Jorhat ARCBR, Aizawl CFLE, Agartala	Swachh Bharat Pakhwada	12 and 31 October 2017
ICFRE, Dehradun FRI, Dehradun HFRI, Shimla IFP, Ranchi RFRI, Jorhat ARCBR, Aizawl CFLE, Agartala	Vigilance Awareness Week	30 October 2017 to 4 November 2017



Swachh Bharat Abhiyaan at HFRI, Shimla



Swachh Bharat Abhiyaan at ARCBR, Aizawl



Swachh Bharat Abhiyaan at RFRI, Jorhat



Vigilance Awareness Week at FRI, Dehradun



Vigilance Awareness Week at CFLE, Agartala

Awards

- Indian Institute of Management, Kashipur, evaluated the performance of all ICFRE Institutes during the period 2011-2016, among which IFGTB being ranked best and the first among all other ICFRE Institutes. Dr. S.C. Gairola, IFS, Director General, Indian Council of Forestry Research & Education, during his visit to IFGTB on 30 October 2017, he presented a “Memento of Appreciation” to the Director, IFGTB.
- HFRI, Shimla participated and set up an Exhibition Stall during the mega exhibition “Destination Himachal Pradesh, 2017” at Hotel Paragon Palace, Solan organized by Friends Exhibitions & Promotion Pvt. Ltd., New Delhi 24 to 26 October 2017. “Best Presentation of Stall” award was given to the institute.
- International magazine “Conde Nast Traveller” included the name of Dr. Vaneet Jishtu, Scientist-C, HFRI, Shimla in its October 2017 issue under the column “50 people to know the Himalayas”. These 50 folks are creating all kinds of change in the mountains from home stay owners to craftspeople.



DG, ICFRE, presented a “Memento of Appreciation” to the Director, IFGTB



Best Presentation of Stall award was given to HFRI, Shimla

HR NEWS

Name & Designation

Date

Repatriation/ Relieving from ICFRE

Shri R.S. Prashanth, Director, IFGTB, Coimbatore 31.10.2017
 Shri M. Senthil Kumar, CF, IFGTB, Coimbatore 31.10.2017

Name & Designation

Date

Retirement

Dr. Laxmi Rawat, Scientist-G, FRI, Dehradun 31.10.2017
 Shri Arun Kumar Joshi, Private Secretary, ICFRE (Hqr.) 31.10.2017

Patron:

Dr. Suresh Gairola, Director General

Editorial Board:

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