

# ***SHOWCASING THE FINDINGS IN FORESTRY RESEARCH IN THE COUNTRY***



## **WORKSHOP REPORT**

**24-25th February' 2015  
Van Vigyan Bhawan, New Delhi**

## 1. Context

Since the beginning of the organized *Forestry Research* in India numbers of milestones have been achieved. These include increasing the productivity of forests through introduction of new silvi-cultural practices, new techniques for production of quality planting stock, disease and pest control, introduction of high yielding exotic species suitable for different physiographic zones of the country for meeting the increasing raw material needs of the wood based industries as well as increasing the forest and tree cover, scientific management of NTFPs for addressing the livelihood concerns of the forests and forest fringe dwelling communities, value addition of NTFPs and making efforts for extending the research inputs from lab to the field.



The major research outputs of ICFRE and State Forest Research Institutes include improved silvi-cultural practices for large number of species, agro forestry models, tree improvement efforts in general and multi-purpose tree species in particular, improved methods of resin tapping, wood seasoning and ammonia plasticization techniques for bending the wood for

commercial uses, development of cost effective wood preservatives, extraction processes of chemicals from woods, development of bio-pesticides and natural dyes, extraction of good quality katha, adhesives for agarbattis, alkaloid from various species and varieties of species for maximization of output, reclamation of degraded land and coastal lands, development of fire fighting tools, evaluation of physical and mechanical properties and identification of timber of various species, preparation of volume, stand and weight tables for different species.

## **2. Recent Concerns Impacting Forestry Research in the Country:**

High human population and huge demand for fuel-wood, land hunger etc. and very high dependence of livestock on forests for fodder keep the foresters on their toes. In the modern times of new global order, the changing dimensions of governance of forests have been necessitated in order to strengthen the forest based livelihood of around 350 million rural people living in and around 36 million hectare of fringe forests in the country. While around 25% of India's forests are being managed through more than 1 lakh JFM committees, the rights of around 187 lakh hectares of forest land have also been vested with the Tribal Communities by Government of India under the Forest Rights Act 2006. Implementation of PESA in tribal areas can also empower them to rise to take new leadership in participatory management. The National Forest Policy 1988 also advocated that a people's movement be created for the development and management of forests. Left Wing Extremism (LWE) poses another challenge for how to bring them to the mainstream and then gainfully employ in the forest based especially NTFP based enterprises. Valuation of Ecosystem services especially water services and its implementation mechanism in the country can provide sufficient funds for the forestry and forest dwelling communities. Besides them, some other new challenges that will guide the future forestry researches in the next 20 years are:-

- 2.1 In the present times the free trade, preferential trade, bilateral trade and also the tariff on forest products in export import chain have led to various treaties and policies worldwide. The forest certification has become an important factor for maximum gain for the forest products traded and are part of export import chain between the countries. This has also renewed the need for sustainable forest management mechanism and its effective implementation in the country to derive maximum benefits and earn maximum trade opportunities.
- 2.2 Though the global forest product trade does not contribute much to India's economy but its stock of bamboo is next only to China in the world. More research in the field and utilization of the raw material to develop handicrafts, alternate source to timber, its certification by Indian Standards which could be endorsed by global certification bodies like PEFC or FSC as per the requirement of the country, can help in increasing the economic returns and in-turn socio-economic benefits to the people as access to bamboo source in the country by forest based communities, rural population etc, is very easy and traditional.
- 2.3 Reducing Emissions from deforestation and Forest Degradation in developing countries, or REDD is among the recent additions to the climate change vocabulary. United Nations Framework Convention on Climate Change (UNFCCC) documents refer to REDD as broad set of approaches and actions that will reduce the emissions from deforestation and forest degradation. National policies for the same can be set once the reference emission levels are known. Setting up reference emission levels or baselines is among the most challenging aspects of implementing REDD project in developing countries. One key area of research to support a REDD programme is to develop methods and approaches for integration of historical deforestation

data with knowledge of drivers of deforestation to construct scenarios and provide reasonable estimates for future emissions.

### **3. Forestry Research Focus in Next 20 Years**

It is paramount that the forestry research priorities in the next 20 years involve above mentioned concerns and evolving issues in its planning and execution. All this would require higher allocation to the forestry sector as well as to forestry research and education. The premier forestry research institutes like ICFRE, IIFM, IPIRTI etc, have to orient and evolve its research priorities accordingly to the changing times and new essentialities. In view of the changing forestry scenario in the present times and also evolving needs, forestry research should be futuristic in approach so as to handle newer challenges of the forestry sector related to Livelihood, Socio-economic and Gender issues; Community Organizing, HRD, Genomic Research & Database Management; NRM, Forest Ecosystem Services, Bio-diversity and Climate Change Research and Forest Utilization as well as Forest Policy

### **4. Workshop Proceedings**

On the behest of Ministry of Environment, Forest and Climate Change, New Delhi, a two days Research Workshop was organized by ICFRE on 24<sup>th</sup>-25<sup>th</sup> February, 2015 at Van Vigyan Bhawan, New Delhi. In all about 50 delegates from different organizations viz., 11 State Forest Departments; SFRI Kanpur, SFRI Jabalpur and KFRI Peechi; Directors of IPRITI Bangalore, IIFM Bhopal, GB Pant HED Almora; Directors/ Scientists of 9 ICFRE institutes and officers of ICFRE Head Quarter participated in this Workshop. The Research Workshop was inaugurated by Dr. S.S. Garbyal, Director General Forest and Special Secretary to Government of India, Ministry of Environment, and Forests & Climate Change.

## ***Showcasing Significant Findings In forestry Research-Workshop Report***

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After lighting of Lamps and felicitation of dignitaries by presentation of bouquets, Dr Savita, Deputy Director General (Education), ICFRE welcomed the guests and all the delegates who participated in the Research Workshop. Dr. Ashwani Kumar, Director General, ICFRE delivered the Key Note address. Dr. S.S. Negi, Additional Director General (Forest Conservation) delivered the presidential address. Dr. S.S. Garbyal, Director General Forest and Special Secretary to Government of India addressed the delegates of research workshop and emphasized upon the need to consolidate the research efforts and flag the priority issues for research in coming years. Dr. D.K. Sharma, Deputy Inspector General (RT), MoEF also attended the workshop. A vote of thanks was proposed by Ms. Kamal Preet, Assistant Director General ( Edu & RB), ICFRE.



The research workshop was divided in six sessions spanning over two days.

4.1 The first session was chaired by Dr. Ashwani Kumar, DG, ICFRE and hosted by Dr. Savita, DDG (Education), ICFRE. In the first session following five institutes and Forest Department of the states presented their research achievements and future priorities.

- **Indian Institute of Forest Management, Bhopal**
- **State of Tamil Nadu**
- **Institute of Forest Genetics and Tree Breeding, Coimbatore**
- **Kerala Forest Research Institute, Peechi**
- **State of West Bengal**

4.2 In the 2nd session, the Chairman of the session was Dr.S Balaji, PCCF (R & E), govt. of Tamil Nadu and Dr. Prashanth, Director, IFGTB was the session host. The following institutes, Forest Departments and SFRI's presented their work done and priorities for future research.

- **Forest Research Institute, Dehradun**
- **G.B.Pant Institute of Himalayan Environment & Development, Almora**
- **State of Gujarat**
- **Tropical Forest Research Institute, Jabalpur**
- **Indian Plywood Industries Research & Training Institute, Bangalore**

4.3 Dr. U. Prakasham, Director, TFRI chaired the 3rd session and Ms. Kamal Preet, ADG (Edu &RB) was the session host. Institute of Forest Biodiversity, Hyderabad, Institute of Forest Productivity, Ranchi, Forest Department Sikkim, Haryana and SFRI Jabalpur presented their research findings and future plan of action.

4.4 On the second day of workshop, i.e on 25th February, 2015, the first session started at 9.15 am This session was chaired by Sh Selva Kumar, APCCF (Research), Govt. of Karnataka and session host was Dr. NSK Harsh, GCR, FRI, Dehradun. Following five presentations were made the different institutes, SFRI's and Forest Departments.

- **Institute of Wood Science & Technology, Bangalore**
- **Arid Forest Research Institute, Jodhpur**
- **SFRI, Kanpur**
- **State of Maharashtra**
- **State of Jharkhad**

4.5 Dr. Kuldeep Goel, APCCF (R&T), Govt. of Gujarat Chaired the 5th session and Dr. Neelu Gera, Dean FRI Deemed University was the session host. During this session, Himalayan Forest Research Institute, Shimla, SFRI Jabalpur, Forest Department of Rajasthan and Rain Forest Research Institute, Jorhat made their presentation on various research programme/ projects undertaken, their respective achievements and future strategies for their research.

4.6 The last and the sixth session of valediction was hosted by Dr. Neelu Gera. Dr. G.S. Goraya, DDG (Research) ICFRE deliberated on the recommendations. Dr. Ashwani Kumar, DG, ICFRE gave the concluding remarks.

The Research workshop ended with vote of thanks.

## **5. Recommendations:**

After two days deliberations on "Showcasing the Significant Findings of Forestry Research", following recommendation emerged:

- 5.1 Ecosystem Services Estimation or valuation of Eco-services should be standardized.
- 5.2 More emphasis on collaborative forestry research among the Forestry Institutions. For the entire country forestry research should be coordinated and ICFRE should take a leading role in the same
- 5.3 To avoid duplicity of efforts and wastage of resources in the same area of research, a mechanism of effective liaisoning among the Institutions involved in research should be evolved so as to supplement each other's work.
- 5.4 Efforts should be made to establish linkages between State Forest Departments and the Stake holders particularly the State Forest Departments. A Pro-active involvement of Forestry Institutions with SFRI's is very much required to steer the forestry research in the right direction.
- 5.5 More emphasis should be given on extension of Developed Technologies for getting the maximum benefit.
- 5.6 Forest Research Institution should work for Forest Based Industries in the form of a Business Model. A proper MoU should be signed between the Research Institutions and Industries.



- 5.7 Forestry Research should be a PAN INDIA REACH. Research should reach to the stakeholder so that everybody can be benefited by work carried out in particular areas.
- 5.8 Forestry Research should be carried out to solve the specific issues of the region. Identified issues/ problem related to particular region should be taken up for research.
- 5.9 The various institutes under ICFRE being the Centre of Excellence should concentrate on major issue related to Core Competence areas.
- 5.10 There is a need of e-Groups among scientists and foresters as continuous communication is essential as it is a web-interface where one can read or post messages and it also contains a complete archive of all posted messages including a local search engine.
- 5.11 Scientist, expert of a particular field may be employed from other institutions, so that their knowledge and expertise may be utilized in the organization.
- 5.12 Scientists/Officers from one organization's may be sent to other organization for a month to know about the works of other organization.
- 5.13 There is a need to revisit progeny trials with supplementing or complementing each other works.
- 5.14 There is need of Germplasm repository as we are losing genetic variability in all species. Hence first step should be to conserve the variability of all forms of life. We need to establish germplasm banks for all species. This will serve as source of future research.
- 5.15 Request to the Ministry may be made to provide adequate fund to carry out research work. Representatives from the MoEF&CC may be requested to participate in such workshops as it is the major funding

source and it is important that MoEF&CC is an active partner in these discussions.

5.16 There is a need to identify the certified planting material.

5.17 90 years data of some old experiments of FRI may be used for Modeling and Forecasting.

5.18 Correspondence courses in Forestry should also be started in FRIDU for collection of more revenue.

5.19 In depth study on 20 years cycle of Sal borer infestation needs to be investigated.



**DAY-1, 24.02.2015**

**PROGRAMME FOR RESEARCH WORKSHOP ON 24-25 FEB 2015**

**REGISTRATION 9.00-9.25 hrs.**

**INAUGURATION**

<b>9.30 hrs- 10.30 hrs</b>	<b>Arrival of the Chief Guest Lighting of the Lamp Felicitation of Guests by Presentation of Bouquets Welcome Address by Dr. Savita, DDG (Education)ICFRE Key Note Address by Dr. Ashwani kumar DG ICFRE Presidential Address by Dr. S.S. Negi, Addl. DG (FC) to GoI Inaugural Address by Dr. S. S. Garbyal, DG-cum-SS to GoI Vote of Thanks by Kamalpreet, ADG (Education), ICFRE</b>
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**HIGH TEA 10.30 hrs. to 11.00 hrs**

**SESSION -1 11.00 hrs-13.30 hrs**

Chair of the Session: Dr. Ashwani kumar, DG ICFRE  
Session host: Dr. Savita

- **Indian Institute of Forest Management, Bhopal**
- **Tamil Nadu**
- **Institute of Forest Genetics and Tree Breeding, Coimbatore**
- **Kerala Forest research Institute, Peechi**
- **West Bengal**

**Remarks by Chair**

**Rapporteur: Dr. Anil Negi**

**LUNCH 13.30hrs – 14.15 hrs**

**SESSION -2 14.15 hrs-16.15 hrs**

Chair of the Session: Dr. Balaji, PCCF (Research) Tamil Nadu  
Session host: Dr. Prashanth

- **Forest Research Institute, Dehradun**
- **G.B.Pant Institute of Himalayan Environment & Development, Almora**
- **Gujarat**
- **Tropical Forest Research Institute, Jabalpur**
- **Indian Plywood Industries Research & Training Institute, Banglore**

**Remarks by Chair**

**Rapporteur: Dr. Anil Negi**

**TEA 16.15 hrs-16.30 hrs**

**SESSION -3 16.30 hrs-18.30 hrs**

Chair of the Session: Dr. U. Prakasham, Director TFRI  
Session host: Kamalpreet

- **Institute of Forest Biodiversity, Hyderabad**
- **Institute of Forest Productivity, Ranchi**

- Sikkim
- Haryana
- SFRI, Jabalpur

Remarks by Chair

Rapporteur: Sh. Rajkumar

Dinner 19.00 hrs onwards

## Day-2, 25.02.2015

### SESSION -4 9.15 hrs-11.15 hrs

Chair of the Session: Sh. Selva Kumar, APCCF (research,), Karnataka,  
Session host: Dr. NSK Harsh

- Institute of Wood Science & Technology, Bangalore
- Arid Forest Research Institute, Jodhpur
- SFRI, Kanpur
- Jharkhand
- Bihar
- Maharashtra

Remarks by Chair

Rapporteur: Dr. S.K. Sharma

TEA 11.15hrs – 11.30 hrs

### SESSION -5 11.30hrs – 13.30 hrs

Chair of the Session: Dr. Kuldeep Goel, APCCF (Research), Gujarat  
Session host: Dr. Neelu Gera, Dean FRIDU

- Himalayan Forest Research Institute, Shimla
- Karnataka
- Rajasthan
- Jammu & Kashmir
- Rain Forest Research Institute, Jorhat

Remarks by Chair

Rapporteur: Dr. S.K. Sharma

LUNCH 13.30 hrs-14.15 hrs

### SESSION -6 14.15 hrs -16.00 hrs

#### VALEDICTION

Chair of the Session: Dr. Ashwani  
kumar

Session co-chair: Dr. G.S.Goraya

Session host: Dr. Neelu Gera, Dean  
FRIDU

14.15 hrs-16.00 hrs

- Recommendations
- Concluding Remarks by Dr. Ashwani Kumar, DG ICFRE
- Vote of Thanks

Rapporteur: Dr. S.K. Sharma

CLOSING TEA 16.00 hrs onwards

**Annexure-II**

**COST STATEMENT**

Item	Details of item	Estimated Cost	Actual expenditure made
Boarding/lodging charges	For 40 Delegates 5 senior officers from MoEF and 5 members of the organizing , committee for 2 days at Van Vigyan Bhawan , R.K.Puram New Delhi (45Nos @ 1000/- Per Person per day)	1,35,000	24,780/-
Workshop Kit	Workshop Kit 45 @ 2,000/- Per Kit (Bag, note pad and pen and workshop agenda and related material) distribution for delegates	50,000	31,290/-
High-tea after inauguration	For 50 person @250	12,500	10,000/-
Lunch	For 50person @ 500 for 2 days	50,000	40,000/-
Session tea &snacks	For 100 person @ 150	15,000	10,000/-
Dinner	For 50 person @500 for 2 days	50,000	22,000/-
Printing	Printing of compilation of information received from the institutes 100 copies	1,00,000	-
Honorarium	Honorarium for Member of the Organizing Committee (5 Nos@ 2000/- Per Member and supporting staff ( 3@ Rs. 500/- Per Person)	11,500	11,500/-
Travel Cost	For organizing team (including local travel at Delhi )	35,000	35,000/-
Contingencies/ Miscellaneous	Workshop Stationery items, and other contingent expenditure	41,000	41,000/-
	<b>Total</b>	<b>5,00,000</b>	<b>2,25,570</b>
	<b>Advance received</b>	<b>4,00,000</b>	
	<b>Balance</b>		4,00,000- 2,25,570= <b>1,74,430</b>

**\*The balance amount of Rs. 1.74430 lakh out of Rs. 4.00 Lakh released shall be utilized for printing of Proceedings in a book form.**

**Annexure-III**

**Feed Back from the Delegates:**

<b>S.No</b>	<b>Name and Address</b>	<b>Remarks</b>
1.	Dr. S. Balaji PCCF(R&E), Chennai	<ul style="list-style-type: none"><li>• well organized Workshop</li><li>• More co-ordination by ICFRE is warranted through Co-ordinated Research project. Result oriented research will bring more esteem to forestry research.</li><li>• More vibrant Forestry Research in India is needed under the able leadership of ICFRE to make India greener, climate friendly and to bring prosperity to people of present and future generations.</li></ul>
2.	R. Seval kumar APCCF(R) Karnataka Forest Department	<ul style="list-style-type: none"><li>• Very useful interaction between the Research Institutes and Forest Departments.</li></ul>
3.	Sh. R.R. Pandey, Addl, PCCF West Bengal	<ul style="list-style-type: none"><li>• For the entire country forestry research should be funded and co-ordinated through single source may be through ICFRE where the domain knowledge and infrastructure to research is traditionally developed.</li><li>• Campa money may be directed towards enhancement of research activities.</li></ul>
4.	Sh. Anurag Chaudhary, APCCF & Silviculturist, Maharashtra	<ul style="list-style-type: none"><li>• Very well structured workshop.</li><li>• Provided the opportunity to know what work is being done at various places</li></ul>
5.	Sh. Upender Pachnanda APCCF and Director SFRI, Jammu & Kashmir	<ul style="list-style-type: none"><li>• Excellent workshop &amp; Interactive sessions</li><li>• The funding of specific research projects should be done by ICFRE/GoI in project mode on regular basis.</li><li>• The SFRI's should be made repositories of Medicinal Plants and they should be charged with Raising of medicinal plants, its certifications, supply by NMAB</li></ul>
6.	Sh. Kuldeep Goel, APCCF R&T, Gujarat	<ul style="list-style-type: none"><li>• Very useful and informative specially interaction with scientists &amp; officers which may be networked at later stage</li><li>• A Pro-active participation of regional centres of FRI with SFRI's is very much required to steer the forestry research in the right direction.</li></ul>

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		<ul style="list-style-type: none"> <li>• More such Meetings and interactions required.</li> </ul>
7.	Dr. V. Ramakantha, Director, IWST, Bangalore	<ul style="list-style-type: none"> <li>• Excellent opportunity provided by ICFRE to learn the research findings of ICFRE and SFRI's and to collaborate with other Institutes.</li> <li>• There should not be paucity of funds and scientific manpower, as is the case in the present scenario. The Govt. of India should invest at least a little. It will bear reward in long time range.</li> </ul>
8.	Dr. U. Prakasham, Director, TFRI	<ul style="list-style-type: none"> <li>• Fruitful workshops to know what is going on in forestry research and what are the technological packages developed by various SFRI/SFDs</li> </ul>
9.	Sh. R. S. Prashanta. Director, IFGTB, Coimbatore	<ul style="list-style-type: none"> <li>• Wonderful opportunity to know the activities of other institutes, field of excellence, scope of collaboration with other institutes &amp; SFRI's regular interaction between the ICFRE institutes and SFRI's</li> </ul>
10.	Dr. M. R. G. Reddy, Director, IFB, Hyderabad	<ul style="list-style-type: none"> <li>• Excellent</li> <li>• Continue such workshop at least once in two years with the help of Govt. of India.</li> </ul>
11.	Sh. G. Krishna Murthy Director DFRI, Jabalpur	<ul style="list-style-type: none"> <li>• Very good</li> <li>• Networking of all institutions needed</li> <li>• Development of video conferencing facilities and interaction between scientists once in a month</li> <li>• Provision of funds from Campa needs lobbying</li> </ul>
12.	Dr. S. R. K. Varshney, CCF(Research) SFRI, Kanpur	<ul style="list-style-type: none"> <li>• Excellent workshop where various institutions showcased the research works of their respective organizations.</li> <li>• Opportunity to learn about what other institutions are doing.</li> <li>• An opportunity to interact among the institutions and burning issues of forestry research</li> <li>• Such workshops must be organized more frequently One or two specific topics/issues so that in depth contribution of the organization and solutions to those problems is known.</li> </ul>

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13.	Sh. Jagdish Chander. CF Research Haryana	<ul style="list-style-type: none"> <li>• very well organized</li> <li>• We are losing genetic variability in all species. Hence first step should be to conserve the variability of all forms of life. We can start with tree we need to establish germplasm banks for all species. This will serve as source of future research.</li> <li>• It is high time to talk about the ecosystem management as a whole and it is high time to extend forestry research to algae, lichens lower animals and so on. Honey bees are in danger, we have to extend forestry research to these issues.</li> </ul>
14.	Mrs. Neelu Gera, Dean FRIDU	<ul style="list-style-type: none"> <li>• Good Effort</li> <li>• Such workshop can be done regularly, preferably subject specific issues such as on sandalwood or guggul.</li> <li>• Representatives from the MoEF&amp;CC may be requested to participate as it is the major funding source and it is important that MoEF&amp;CC is an active partner in these discussions.</li> </ul>
15.	Dr. T. P. Singh, ADG (F&CC), ICFRE	<ul style="list-style-type: none"> <li>• Priorities and objectives needed in the current scenario to focus upon in the forestry research.</li> <li>• Different organizations have highlighted their activities in a detailed manner, it is gathered that most of the research is directed at silviculture, genetics, tree improvement, and entomology/pathology, whereas other aspects are getting ignored.</li> <li>• The current issues in forestry like climate change, Biodiversity, Desertification, Environmental economics, global issues, Policy and institutional issues and social aspects need to be given a lot of push in future research work.</li> <li>• ICFRE considerable scope of getting the land-based sectors and has which our efforts need to be put.</li> </ul>
16.	Sh. Bimal Kishore Prasad CF & State Silviculturist, Ranchi Jharkhand	<ul style="list-style-type: none"> <li>• Excellent topic</li> <li>• ICFRE should assign the research topics/Subject as per available facility and requirement of the State.</li> <li>• Should be co-ordination between SFDs</li> </ul>



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		<p>FRI/SFRI/IFP.</p> <ul style="list-style-type: none"> <li>• should be organized at least once in a year or alternate year</li> </ul>
17.	Dr. S. A. Ansari, Director, IFP, Ranchi	<ul style="list-style-type: none"> <li>• Discussed all aspects of R&amp;D across the country. Problems identified and recommendation evolved for resolving them</li> <li>• A perpetual source for finance be explored for maintenance of assets, including laboratories, instrument, established production populations/demonstration plantations.</li> <li>• For making impact of ICFRE on public/govt. perception, the council must indentify some important problems of national importance and provide their solutions in a phased manner that should also be visible and benefit the society.</li> </ul>
18.	Dr. V. P. Tewari, Director, HFRI, Shimla	<ul style="list-style-type: none"> <li>• A good initiative by the ICFRE where a platform was provided to SFD's, ICFRE institutes and others Forestry Research Institutions in various States and also under MoEF show cased their research achievements and plan for future strategies.</li> <li>• Good Academic exchange sharing of knowledge/ experiences and also to know about the weakness and strength. Overall it was an excellent beginning which need to be organized at regular interval for the benefit of all.</li> <li>• The duration of such important workshop, where, the forestry research scenario of the country is discussed should be more then two days so that more interactions could be take place for making road map for future.</li> </ul>
19.	Dr. N. S. K. Harsh Scientist -G, FRI, Dehradun	<ul style="list-style-type: none"> <li>• Good platform to share and exchange knowledge and information.</li> <li>• Frequent interaction through networking ongoing organizations engaged in forestry research.</li> <li>• Fund crunch for research should be addressed.</li> <li>• Engage sufficient and suitable manpower for research.</li> </ul>

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20.	Dr. G. Singh, AFRI, Jodhpur	<ul style="list-style-type: none"> <li>• Well organized</li> <li>• Needs some times for group discussion and come up with some innovative/fruitful suggestions or recommendations</li> </ul>
21.	Dr. T. V. Sajeev, KFRI, Peechi	<ul style="list-style-type: none"> <li>• Useful in understanding the status of forest research in India. Forestry research is not organized as in the case if agriculture. Needs better interactions, common research programme.</li> <li>• ICFRE should help to formulate a series of All India Co- Ordinated Projects on             <ol style="list-style-type: none"> <li>a) Economic evaluation of forests in India</li> <li>b) Climate change impacts on forests of India</li> <li>c) Productive enhancement of selected tree species.</li> <li>d) Fine scale forest resource mapping</li> </ol> </li> </ul>
22.	Dr. G.C.S. Negi, GBPIHE&D, Almora	<ul style="list-style-type: none"> <li>• Well organized with sufficient time given to each participant</li> <li>• Need to give more time for group discussion to ponder upon some theme and come up with some innovative/fruitful suggestions or recommendations.</li> </ul>
23.	Sh. Rajib Kumar Kalita Scientist -E, RFRI, Jorhat	<ul style="list-style-type: none"> <li>• Well organized and healthy discussion on forestry.</li> <li>• Recommendation of this workshop must have some learning on its execution</li> <li>• VVB's Conference sound system is in the worst condition.</li> <li>• The system did not at all work during the whole two days it needs to work into</li> </ul>
24.	Dr. A. Nicodemus. Scientist-E, IFGTB, Coimbatore	<ul style="list-style-type: none"> <li>• A very good opportunity to interact with all institutions.</li> <li>• During the workshop came to know each other achievement so that they can support each other to take them.</li> <li>• In addition this document will provide a road map for taking up new research initiative for the next 25 years</li> </ul>

**Annexure-IV**

**List of Participants of Research Workshop on showcasing the findings on Forestry Research held during 24-25 Feb, 2015**

<b>SI. No</b>	<b>Name</b>	<b>Organization</b>	<b>Telephone Nos.</b>	<b>E-mail</b>
1.	Dr. S. S. Garbyal, DGF & SS	MoEF&CC, N.Delhi	24695282	<a href="mailto:dgfindia@nic.in">dgfindia@nic.in</a>
2.	Dr. S. S. Negi Addl.DG (FC)	MoEF&CC, N.Delhi	24695279	<a href="mailto:sharadnegi@hotmail.com">sharadnegi@hotmail.com</a>
3.	Dr. D. K. Sharma, DIGF(RT)	MoEF&CC, N.Delhi	24695233	<a href="mailto:dvijendra1@msn.com">dvijendra1@msn.com</a>
4.	Dr. Ashwani Kumar, Director General	ICFRE, Dehradun	0135-222-4333	<a href="mailto:ashwanikumar@icfre.org">ashwanikumar@icfre.org</a> <a href="mailto:dg@icfre.org">dg@icfre.org</a>
5.	Dr. Savita, DDG(Education)	ICFRE, Dehradun	9410110759	<a href="mailto:savita@icfre.org">savita@icfre.org</a>
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Glimpses' of the workshop



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