

# PROCEEDINGS OF THE IX RESEARCH POLICY COMMITTEE MEETING



25<sup>th</sup>-28<sup>th</sup> February 2008



**Directorate of Research  
Indian Council of Forestry Research and Education,  
P.O. New Forest, DEHRA DUN – 248006  
(Uttarakhand)**

**“Research is to see what everybody else has seen, and to think what nobody else has thought”**

**Albert Szent, Hungarian Biochemist**

**“If we knew what it was we were doing, it would not be called research, would it ?”**

**Albert Einstein, American Physicist**

**Cover photograph – Arresting Willow (Salix sp.) mortality in Lahaul Valley of H.P.**

**Courtesy – HFRI Shimla**

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## **Mandate of the Research Policy Committee (RPC)**

- RPC being an apex advisory body at the Council level, will provide policy directions to research, bring in innovation in research and decide investment in high quality forestry research. It will also provide research leadership so as to make ICFRE a model research organization with international leadership in forestry research.
- RPC will finalize the five-year Research Plan of the ICFRE and its Institutes and also review the same on rolling basis.
- RPC will approve Annual Research Plan, Research Projects and Programmes of the ICFRE and its Institutes on the basis of the recommendations of RAGs of the respective Institutes.
- RPC will promote effective coordination of the research work among different Institutes of ICFRE, and will optimize resource utilization.
- RPC will ensure balance among different international, national, regional and state research requirements.
- RPC will consider current and emerging research issues, and keeping these in view, will prioritize research projects and programmes of each Institute.
- RPC will explore and establish synergistic alliance with other agencies engaged in forestry research.
- RPC will also carry out any other function related with forestry research assigned by the Council from time to time.

IX RESEARCH POLICY COMMITTEE (RPC)  
MEETING OF ICFRE

Date - 25<sup>th</sup> to 28<sup>th</sup> February 2008  
Venue - Board Room, ICFRE, Dehradun

PROGRAMME

**25.02.2008**

09.30 - 09.40 Introduction by DDG (R)

09.40 - 09.50 Presentation by ADG (RP)

09.50 - 10.00 Remarks by DG ICFRE

**10.00 - 01.30**

**Presentation by ICFRE Institute Directors  
and Discussion on**

- **Ongoing Research Projects (Progress)**
- **Prioritized New Research Projects**
- **All India Coordinated Projects**

1. Institute of Wood Science and Technology,  
Bangalore

01.30 - 02.30

LUNCH

**02.30 - 05.30**

**Presentation and discussion continues-**

2. **Himalayan Forest Research Institute, Shimla**
3. **Rain Forest Research Institute, Jorhat**

**26.02.2008**

**09.30 - 01.30**

**Presentation by ICFRE Institute Directors  
and Discussion on**

- **Ongoing Research Projects (Progress)**
- **Prioritized New Research Projects**
- **All India Coordinated Projects**

4. Institute of Forest Genetics & Tree Breeding,  
Coimbatore

5. Institute of Forest Productivity, Ranchi

**01.30 - 02.30**

LUNCH

**02.30 - 05.30**

**Presentation and discussion continues-**

6. Arid Forest Research Institute, Jodhpur
7. Tropical Forest Research Institute, Jabalpur

**27.02.2008**

**09.30 - 01.30**

**Presentation by ICFRE Institute Director  
and Discussion on**

- **Ongoing Research Projects (Progress)**
- **Prioritized New Research Projects**
- **All India Coordinated Projects**

**8. Forest Research Institute, Dehradun**

01.30 - 02.30

LUNCH

**02.30 - 05.15**

**Presentation and discussion continues-**

05.15 - 06.00  
Dr.G.P.Maithani,

Launching of New Website of ICFRE by

Presentation on IT Initiatives by ADG (Admin.).

**28.02.2008**

09.30 – 03.00

Presentation and discussion on New Projects and AICP  
of FRI, Dehradun

**Proceedings of The  
IX Research Policy Committee Meeting  
25<sup>th</sup> to 28<sup>th</sup> February 2008  
at  
ICFRE Board Room  
Dehra Dun**

IX RPC meeting was held in the Board Room of ICFRE Headquarters from 25<sup>th</sup> to 28<sup>th</sup> February 2008. Shri Jagdish Kishwan, Director General (DG), ICFRE, chaired the meeting . List of participants of the IX RPC Meeting is enclosed (Annexure I).

Dr G.S. Rawat, DDG (R), welcomed all the RPC members and other delegates. While welcoming, DDG (R) gave a brief account on how the RAGs of all 8 Research Institutes were conducted well in time as per calendar of schedule. He also apprised the house about the mandate of RPC and new initiatives taken by ICFRE like All India Coordinated Projects etc.

Shri Vipin Chaudhary, ADG (RP), gave a brief presentation on the research planning process of ICFRE, the methodology of prioritization of research projects and the Rolling Research Plan.

In the inaugural address, Shri Jagdish Kishwan, DG ICFRE requested all the members to make their valuable inputs for improving the research proposals, so that the research outputs of the ICFRE may be more useful for the stakeholders and communities. He further stressed the need for intensive extension of the research results to the field and other user groups. He directed all the Directors of the institutes to ensure that all the research projects should invariably include the extension component. In addition, he stressed that the expected outcome should have the component of patenting of the technology/process and knowledge. The chairman of IX RPC also desired that the environmental services rendered by the research projects must also be highlighted. The DG, ICFRE also informed the house about the process of Quinquennial Review being taken up by the ICFRE. He requested all the Directors to suggest the panel of experts by taking personal interest, and in the most judicious manner. He emphasized that the quality of Quinquennial Review Team will help the Institutes in effective review and improvement.

The DG, ICFRE informed the house that from the next year onwards, the research proposals approved by RAGs will be submitted to independent referees before finally placing these before the RPC. The DG also informed the house about the aim of having formulated All India Coordinated Projects but he stressed that the AICPs have to be open ended and will be taken up in a phased manner, most likely from external funding. Emphasizing on the contemporary global problem of climate change, the DG desired that the “Climates Change Cells” should be created in all the 8 Institutes.

All the learned members of IX RPC including Shri G.P. Maithani, Dr.B.S. Burfal, PCCF, Uttarakhand, Dr. Rajendra Dobhal, Director UCOST Dehradun, Mr. M.S. Kunwar HARC Dehradun, Dr. P.S. Pathak, Ex-Director, IGFRI Jhansi, Dr. A.R. Nautiyal, Dean, HNB Garhwal University and Dr. R.P. Tyagi, Star Paper Mills, Saharanpur gave valuable comments and suggestions, which helped the IX RPC to unanimously take the following decisions :

- Only those ongoing projects where RAG has suggested changes will be discussed in the IX RPC.
- Next year onwards for the ongoing projects only half page summary of projects and RAG comments will be presented by respective Directors.
- Extension component has to be made an integral part of the project.
- Environmental services accruing through research projects must also be indicated and studied wherever possible.
- In future, new projects approved by RAG will be sent to independent referees for comments before placing them for RPC’s consideration.
- As per the BOG’s request, an All India Coordinated Project on Forest Fire will be formulated by FRI Dehradun, which has been assigned the lead role for the purpose.
- An All India Coordinated Project on Fast Growing Tree Species for Plywood and Panel Making will be formulated by IWST Bangalore, which has been assigned the lead role in this regard.
- Regarding the 12 All India Coordinated Projects, RPC decided that non ICFRE R&D institutions must also be roped-in, that through stakeholders meetings sub projects must be prioritized for funding, Directors of the lead Institutes must look for external funding and the revised and finalized All India Coordinated Projects must be resubmitted by May 2008.

- Two RPC members shall be invited as observers by the Directors of the lead Institute during the meeting of stakeholders and collaborators.
- The RPC was unanimously extended till 28<sup>th</sup> February 2008 afternoon.
- The RPC authorized the DG, ICFRE in respect of projects wherefor amendments were recommended by RPC, to take final decision on receipt of the amended proposal in consonance with the RPC's recommendations.

There was fruitful discussion on each project at length and all the RPC members and other delegates contributed immensely. One of the senior most RPC member Shri G.P. Maithani, Retd. PCCF and the Ex-Director FRI was requested by the DG ICFRE to inaugurate and kick off the new website of ICFRE. A brief presentation on IT initiatives of ICFRE was made by Dr.A.K. Srivastava, ADG (Admin.) with the due permission of the chair.

The recommendations of Research Policy Committee are given in Annexure II, III and IV.

ANNEXURE – I

**PARTICIPANTS OF IX RESEARCH POLICY  
COMMITTEE (RPC) MEETING HELD AT ICFRE  
H.Q. DEHRADUN  
25<sup>th</sup>, 26<sup>th</sup>, 27<sup>th</sup> & 28<sup>th</sup> February 2008**

| <b>RPC MEMBERS</b>        |                           |   |
|---------------------------|---------------------------|---|
| 1.                        | Shri Jagdish Kishwan      | DG, ICFRE, Chairman                                   |
| 2.                        | Dr. B.S. Burfal           | PCCF, Uttarakhand, Dehra Dun                          |
| 3.                        | Dr. G.P. Maithani         | (Retd. PCCF), Dehradun                                |
| 4.                        | Dr. Rajendra Dobhal       | Director, Uttarakhand Council of Science & Technology |
| 5.                        | Mr. Mahinder Singh Kunwar | Himalayan Action Research Centre, Dehra Dun           |
| 6.                        | Dr. P.S. Pathak           | Ex-Director IGFRI, Lucknow                            |
| 7.                        | Dr.A.R. Nautiyal          | Dean, HNB Garhwal University, Srinagar, Garhwal       |
| 8.                        | Dr. R.P. Tyagi            | Star Paper Mills, Saharanpur                          |
| 9.                        | Dr. G.S. Rawat            | DDG (Research), ICFRE, Dehra Dun                      |
| 10.                       | Shri A.K. Wahal           | DDG (Education), ICFRE, Dehra Dun                     |
| 11.                       | Shri M.S. Garbyal         | DDG(Administration), ICFRE, Dehra Dun                 |
| 12.                       | Dr. Shashi Kumar          | Director (Research), ICFRE, Dehra Dun                 |
| 13.                       | Dr. Rabindra Kumar        | DDG (Extension), ICFRE, Dehra Dun                     |
| 14.                       | Dr. S.S. Negi             | Director, FRI, Dehra Dun                              |
| 15.                       | Dr. R.L. Srivastava       | Director, AFRI, Jodhpur                               |
| 16.                       | Sh. Mohinder Pal          | Director, HFRI Shimla                                 |
| 17.                       | Sh. Suresh Gairola        | Director, IWST, Bangalore                             |
| 18.                       | Dr. M. Surya Prakash      | Director, IFGTB, Coimbatore                           |
| 19.                       | Dr. M.S. Negi             | Director, RFRI, Jorhat                                |
| 20.                       | Dr. A.K. Mandal           | Director, TFRI, Jabalpur                              |
| 21.                       | Sh. S. Sundriyal          | DCF, ICFRE  |
| 22.                       | Dr.R.P. Singh             | Scientist 'F', ICFRE                                  |
| 23.                       | Sh. Sudhir Kumar          | Scientist 'E', ICFRE                                  |
| 24.                       | Shri Vipin Caudhary       | ADG (Research Planning), ICFRE, Dehra Dun             |
| <b>OTHER PARTICIPANTS</b> |                           |   |
| 25.                       | Sh. Sandeep Tripathi      | Secy. ICFRE, Dehra Dun                                |
| 26.                       | Dr. Atul K. Srivastava    | ADG (Admin.), ICFRE                                   |
| 27.                       | Shri Balbir Singh         | ADG (M&E), ICFRE                                      |
| 28.                       | Sh. Amit Asthana          | ADG (PF) ICFRE  |
| 29.                       | Sh. Anurag Bhardwaj       | DCF ICFRE   |
| 30.                       | Sh. T. Gunasekaran        | Group Coordinatore (R) IFGTB Coimbatore               |
| 31.                       | Dr. A. Kumar              | Group Coordinatore (R), AFRI Jodhpur                  |
| 32.                       | Sh. S.P. Rayal            | Head, Engineering Cell, FRI                           |
| 33.                       | Sh. A.S. Rawat            | Group Coordinatore (R), FRI Dehradun                  |

|            |                         |  |
|------------|-------------------------|--|
| 34.        | Sh. V.R.R. Singh        | Head, Silviculture Division, FRI                 |
| 35.        | Sh. Ashish Rawat        | Head, RSM Division, FRI                          |
| 36.        | Sh. A.K. Pandey         | Head, CSFER Allahabad                            |
| 37.        | Sh. Birendra Chaudhary  | DCF, CSFER, Allahabad                            |
| 38.        | Dr. Lokho Puni          | Head, NWFP Division, FRI                         |
| <b>39.</b> | <b>Dr. S.S. Jain</b>    | <b>Scientist, ICFRE (Rapporteur)</b>             |
| <b>40.</b> | <b>Dr. Om Kumar</b>     | <b>Scientist, ICFRE (Rapporteur)</b>             |
| 41.        | Dr. A.K. Rai            | Scientist F ICFRE                                |
| 42.        | Dr. Rita Dhawan         | Scientist F ICFRE                                |
| 43.        | Dr. Devendra Kumar      | Research Officer, ICFRE                          |
| 44.        | Dr. V. Sivakumar        | Scientist D IFGTB Coimbatore                     |
| 45.        | Dr. Madhumita Das Gupta | Scientist D IFGTB Coimbatore                     |
| 46.        | Dr. A. Nicodemus        | Scientist IFGTB Coimbatore                       |
| 47.        | Dr. V. Soundara Rajan   | Scientist IWST Bangalore                         |
| 48.        | Sh.C.J.S.K.Emmanuel     | Scientist 'F' AFRI Jodhpur                       |
| 49.        | Dr. G. Singh            | Head, Forest Ecology Division, AFRI Jodhpur      |
| 50.        | Dr. K.S. Kapoor         | Group Coordinatore (R) & Scientist HFRI Shimla   |
| 51.        | Dr. Sumit Chakrabarti   | Scientist E HFRI Shimla                          |
| 52.        | Dr.Rajesh Sharma        | Scientist HFRI Shimla                            |
| 53.        | Dr. Sanjay Singh        | Scientist IFP Ranchi                             |
| 54.        | Sh. Kumud Dubey         | Scientist CSFER Allahabad                        |
| 55.        | Sh. R.P.Singh,          | AS(G), FRI                                       |
| 56.        | Dr. (Mrs.) P. Soni      | Head, Ecology & Environment Division, FRI        |
| 57.        | Dr. A.N. Shukla         | Head, Pathology Division, FRI, Dehra dun         |
| 58.        | Dr. Sas Biswas          | Head, Botany Division, FRI, Dehradun             |
| 59.        | Sh. Shailendra Kaushik  | Chief Librarian, NFLIC, FRI                      |
| 60.        | Dr. R. Dayal            | Head, Chemistry Division, FRI                    |
| 61.        | Dr. S.B. Singh          | Head, FS& LR Division, FRI                       |
| 62.        | Dr. M. Ahmad            | Head, Forest Entomology Division, FRI            |
| 63.        | Dr. Vimal Kothiyal      | Head, Forest Products Division, FRI              |
| 64.        | Dr. H.S. Ginwal         | Head, G&TP Division, FRI                         |
| 65.        | Sh. D. Khanna           | Head, Extension Division, FRI                    |
| 66.        | Dr. Sanjay Naithani     | Head, C&P Division, FRI                          |
| 67.        | Dr. N.S.K. Harsh        | FRI Dehradun                                     |
| 68.        | Manisha Thapliyal       | Scientist C, Silviculture Division, FRI Dehradun |
| 69.        | Dr.M.K. Gupta           | Scientist, FS&LR Division, FRI Dehradun          |
| 70.        | Dr. A.K. Raina          | Scientist FS&LR Division, FRI Dehradun           |
| 71.        | Dr. S.D. Sharma         | Scientist, FS&LR Division, FRI Dehradun          |
| 72.        | Sh. Amit Pandey         | Forest Pathology Division, FRI Dehradun          |
| 73.        | Dr. S. Nautiyal         | Scientist FRI                                    |
| 74.        | Sh. S.P. Chaukiyal      | Scientist FRI                                    |
| 75.        | Dr. P.K. Pande          | Scientist FRI                                    |
| 76.        | Sh. Anoop Chandra       | Scientist, Botany Division, FRI                  |
| 77.        | Dr. Veena Chandra       | Scientist Botany Division, FRI                   |
| 78.        | Dr. Sangeeta Gupta      | Scientist, Wood Anatomy Discipline FRI           |
| 79.        | Sh. Dinesh Kumar        | Scientist C Silviculture Division, FRI           |
| 80.        | Sh. Rajiv Pandey        | Scientist FRI Dehradun                           |

|     |                    |                                    |
|-----|--------------------|------------------------------------|
| 81. | Dr. Harish Sharma  | Scientist 'E' IT Cell ICFRE        |
| 82. | Sh. Jatender Singh | Scientist IT Cell ICFRE            |
| 83. | Sh. Ashok Kumar    | FRI Dehradun                       |
| 84. | Sh. Nava Bahar     | Scientist, FRI Dehradun            |
| 85. | Sh. V.K.Dhawan     | R.O., FRI Dehradun                 |
| 86. | Dr. B.M. Dimri     | Scientist, ICFRE                   |
| 87. | Dr. Sushma Mahajan | Scientist 'E' (RP Division), ICFRE |

## ANNEXURE II

### ONGOING PROJECTS (Only those where RAG recommended changes)

#### Institute of Wood Science and Technology, Bangalore

| Sl. No. | Project Title/Name of the PI/Duration/Cost (Rs. in Lakh)   | Comments / Decisions of RPC   |
|---------|--|---|
| 1.      | Assessment of seed quality in unimproved populations, seed production areas and seed orchards of <i>Tectona grandis</i><br><b>Dr. Geeta Joshi</b><br><b>(2005-2009)</b><br>Rs.0.61 | <ul style="list-style-type: none"> <li>• Agreed for one year extension and for revision of project cost from Rs.0.41 to Rs.0.61 lakhs.</li> </ul> |
| 2.      | <b>Reclamation of Iron ore minespoils in Karnataka through Afforestation.</b><br><b>A. Ponnambalam</b><br><b>(2003-2009)</b><br>Rs.0.95  | <ul style="list-style-type: none"> <li>• Agreed for one year extension.</li> </ul>  |

| <b>Himalayan Forest Research Institute, Shimla</b> |  |   |
|--|--|---|
| <b>Sl. No.</b>                                     | <b>Project Title/Name of the PI/Duration/Cost (Rs. in Lakh)</b>  | <b>Comments / Decisions of RPC</b>  |
| 1.   | Standardization of nursery techniques of five dominant indigenous species ( <i>Capparis spinosa</i> , <i>Colutea nepalensis</i> , <i>Caragana gerardiana</i> , <i>Ribes orientale</i> , <i>Cratagus songarica</i> ) besides <i>Eleaegnus angustifolia</i> , <i>Hippophae rhamnoides</i> & <i>Rosa webbiana</i> of Cold Deserts<br><b>Dr. K.S. Kapoor</b><br><b>2002-2009</b><br><b>Rs.3.32</b> | <ul style="list-style-type: none"> <li>• Change the title by including “Prominent” in place of “Dominant”.</li> <li>• RPC agreed for one year extension and additional budget.</li> </ul> |
| 2.   | Planting stock improvement programme in <i>Cedrus deodara</i><br><b>Dr. Rajesh Sharma</b><br><b>2002-2008</b><br><b>Rs. 0.68</b>   | <ul style="list-style-type: none"> <li>• Agreed for one year extension.</li> </ul>  |
| 3.   | Allozyme variation in natural populations of Deodar ( <i>Cedrus deodara</i> )<br><b>Dr. Rajesh Sharma</b><br><b>2005-2008</b><br><b>Rs. 1.63</b>   | <ul style="list-style-type: none"> <li>• Agreed for one year extension.</li> </ul>  |
| 4.   | Diagnostic study of indigenous and institutionalized participatory forest management in Himachal Pradesh<br><b>K.D. Sharma</b><br><b>2005-2008</b><br><b>Rs. 0.80</b>  | <ul style="list-style-type: none"> <li>• Agreed for one year extension.</li> </ul>  |

| <b>Rain Forest Research Institute, Jorhat</b> |   |   |
|---|---|---|
| <b>Sl. No.</b>                                | <b>Project Title/Name of the PI/Duration/Cost (Rs. in Lakh)</b>   | <b>Comments / Decisions of RPC</b>  |
| 1.  | Development of patchouli based viable agro-forestry models for NE region of India.<br><b>Shri P.K. Kaushik</b><br><b>3 Years</b>  | <ul style="list-style-type: none"> <li>• Agreed for 11 months extension.</li> </ul>   |
| 2.  | Documentation of baseline information and restoration of selected stress sites under shifting cultivation through Agroforestry in NE India<br><b>Dr. Vishavjit Kumar</b><br><b>3 Years</b>    | <ul style="list-style-type: none"> <li>• Agreed for providing JRF along with additional budget of Rs.2.16 lakhs.</li> </ul> |
| 3.  | Studies on structural formation of vegetation for the conservation of biodiversity in the Gibbon Wild Life Sanctuary, Assam.<br><b>Dr. P.K. Khatri</b><br><b>3 years (2005-08)</b>            | <ul style="list-style-type: none"> <li>• Agreed for six months extension.</li> </ul>  |
| 4.  | Comparative studies on natural resistance of bamboos to Biodegradation in Assam<br><b>Shri D.Gurung</b><br><b>3 years</b>   | <ul style="list-style-type: none"> <li>• Agreed for six months extension.</li> </ul>  |
| 5.  | Diversity and dynamics of Arbuscular Mycorrhizal fungi and their influence on biomass production of some medicinal and aromatic plants of Assam.<br><b>Shri R.K. Kalita</b><br><b>3 years</b> | <ul style="list-style-type: none"> <li>• Agreed for extension up to September 2008.</li> </ul>                              |

| <b>Institute of Forest Genetics &amp; Tree Breeding, Coimbatore</b> |  |   |
|---|--|---|
| <b>Sl. No.</b>  | <b>Project Title/Name of the PI/Duration/Cost (Rs. in Lakh)</b>  | <b>Comments / Decisions of RPC</b>  |
| 1.  | Genetic Improvement of <i>E.tereticornis</i> through control pollination and molecular characterization<br><b>B.Nagarajan</b><br><b>5 years (2002-2008)</b><br><b>Rs.4.2</b>   | <ul style="list-style-type: none"> <li>• Agreed for extension of one year</li> <li>• To cover more areas.</li> </ul>                  |
| 2.  | Evaluation of improved germplasm of <i>Eucalyptus camaldulensis</i> and <i>E.tereticornis</i> for Productivity, wood traits, tolerance to insect pests and diseases and management for higher seed production<br><b>Dr. A. Balu</b><br><b>3years (2007-2010)</b><br><b>Rs.9.75</b> | <ul style="list-style-type: none"> <li>• Agreed to RAG's recommendation of having a Project Coordinator and others as PIs.</li> </ul> |
| 3.  | Evaluation and productivity of clones of <i>Casuarina</i> with reference to yield, tree form, biomass, pulping characteristics and key nursery pests.<br><b>Kannan C.S. Warriar</b><br><b>5 Years (April 2007 to March 2012)</b><br><b>Rs.27.31</b>                                | - do -  |
| 4.  | Improvement of teak through selection, quality, seed production, hybridization and clonal evaluation.<br><b>B. Gurudev Singh</b><br><b>5 years ( April 2007 to March 2012)</b><br><b>Rs.17.35</b>  | <p>- do -</p> <ul style="list-style-type: none"> <li>• Include KFRI representative as collaborator.</li> </ul>                        |
| 5.  | Phenotypic selection, reproduction and propagation in <i>Ailanthus excelsa</i> : Perspectives for Safety Matches Industry and Farmers in Tamil Nadu<br><b>D. Rajasugunasekar</b><br><b>4 years (2005-2009)</b><br><b>Rs.4.85</b>   | <ul style="list-style-type: none"> <li>• Agreed.</li> <li>• Collaborate with AFRI Jodhpur.</li> </ul>                                 |
| 6.  | Selection and Conservation of Red and Sweet tamarind in southern India<br><b>A.Mayavel</b><br><b>3 Years (Apr 2007 –Mar 2010)</b><br><b>Rs.5.20</b>  | <ul style="list-style-type: none"> <li>• Agreed to RAG's approval of newspaper advertisement.</li> </ul>                              |

|     |   |  |
|-----|---|--|
| 7.  | <p align="center"><b>Genetic Transformation of Eucalyptus and Casuarina to enhance Salinity Tolerance</b></p> <p><b>Dr. N.V. Mathish</b><br/> <b>5 years (From 2002 to 2007 extended up to 2009)</b><br/> <b>Rs.17.13</b></p>                                 | <ul style="list-style-type: none"> <li>• Agreed to change in Co-PIs.</li> </ul>  |
| 8.  | <p>Assessment of population structure using SSRs and molecular characterization using RAPD in <i>Casuarina species</i></p> <p><b>Dr. D. Thangamani</b><br/> <b>3 years (From April 2007 – March 2010)</b><br/> <b>Rs.7.85</b></p>                             | <ul style="list-style-type: none"> <li>• Agreed to change in Associates.</li> </ul>                                      |
| 9.  | <p>Association analysis of adventitious rooting traits using STS markers in <i>Eucalyptus tereticornis</i> and DNA profiling of eucalyptus clones</p> <p><b>Dr. R. Yasodha</b><br/> <b>Three years, (From April 2008- March 2011)</b><br/> <b>Rs.14.7</b></p> | <ul style="list-style-type: none"> <li>• Agreed to change in Associates.</li> </ul>                                      |
| 10. | <p>Status and floristic diversity of sacred groves- The only remnants of natural forests in Alappuzha District, Kerala</p> <p><b>Kannan C.S. Warriar</b><br/> <b>Years (August 2005 to July 2008)</b><br/> <b>Rs.2.90</b></p>                                 | <ul style="list-style-type: none"> <li>• Agreed to RAG's observation of completion of project by March 2008.</li> </ul>  |
| 11. | <p>Origin, distribution and genetic diversity of <i>Jatropha curcas</i> in India</p> <p><b>Dr. Rekha R. Warriar</b><br/> <b>Two years, (From July 2006- July 2008)</b><br/> <b>Rs.4.07</b></p>  | <ul style="list-style-type: none"> <li>• Agreed to relieve two PIs and project to be completed by March 2008.</li> </ul> |
| 12. | <p>Assessment of insect pest problems in selected fast growing tree species of Tamil Nadu and Kerala</p> <p><b>R.Raja Rishi</b><br/> <b>3 years (Aug 2006- July 2009)</b><br/> <b>Rs.4.85</b></p>   | <ul style="list-style-type: none"> <li>• Agreed to change in Associates.</li> </ul>                                      |

| <b>Institute of Forest Productivity, Ranchi</b> |   |   |
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| <b>Sl. No.</b>                                  | <b>Project Title/Name of the PI/Duration/Cost (Rs. in Lakh)</b>   | <b>Comments / Decisions of RPC</b>  |
| 1.  | Development of appropriate agro-silvicultural systems for selected medicinal flora of Chotanagpur and Santhal Parganas<br><b>Dr. Malabika Ray</b><br><b>5 years</b><br><b>Rs.2.49</b> | <ul style="list-style-type: none"> <li>Agreed to RAG's recommendation of one year extension.</li> </ul> |

| <b>Arid Forest Research Institute, Jodhpur</b> |   |  |
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| <b>Sl. No.</b>                                 | <b>Project Title/Name of the PI/Duration/Cost (Rs. in Lakh)</b>   | <b>Comments / Decisions of RPC</b>   |
| 1.   | Characterization and classification of forest soils of Rajasthan.<br><b>N.Bala</b><br><b>5 Years (2007-2012)</b><br><b>Rs.7.53</b>  | <ul style="list-style-type: none"> <li>RPC agreed to RAG's recommendation of merging this project with AICP on Forest Soils.</li> </ul>  |
| 2.   | Efficacy and economics of water harvesting devices in controlling run off losses and enhancing biomass productivity in Aravalli ranges.<br>(Funded by State Forest Department, Rajasthan)<br><b>G. Singh</b><br><b>3 Years (2006-08)</b><br><b>(extension for one year 2008-09)</b><br><b>Rs.3.32</b> | <ul style="list-style-type: none"> <li>RPC agreed to RAG's recommendation of one year extension and increase of budget by Rs.1.00 lakh.</li> </ul>   |
| 3.   | Management of potential insect pests and diseases of important medicinal plants grown in arid and semi-arid regions.<br><b>Dr. S.I. Ahmed</b><br><b>3 Years (2006-09)</b><br><b>Rs.4.45</b>   | <ul style="list-style-type: none"> <li>RPC agreed to RAG's recommendation of restricting the studies to only two species, inclusion of one JRF and revised budget of Rs.7.45 lakhs.</li> </ul> |

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| 4. | <p align="center"><b>Screening of Exotic and indigenous plant species for their performance potential on arid salt affected soils with different level of management.</b></p> <p><b>Dr. Ranjana Arya</b><br/><b>(1997-2001 WB) (2002-08)</b><br/><b>Rs.6.30</b></p>      | <ul style="list-style-type: none"> <li>RPC agreed to RAG's recommendation of one year extension.</li> </ul> |
| 5. | <p>Quantitative estimation of biologically active secondary metabolites in some of the arid zone medicinal plants to ascertain correct harvesting time.</p> <p><b>Dr. Mala Rathore,</b><br/><b>5 Years (2002-07) one year extension upto 2008</b><br/><b>Rs.20.6</b></p> | <ul style="list-style-type: none"> <li>RPC agreed to RAG's recommendation of one year extension.</li> </ul> |

| <b>Tropical Forest Research Institute, Jabalpur</b> |  |   |
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| <b>Sl. No.</b>                                      | <b>Project Title/Name of the PI/Duration/Cost (Rs. in Lakh)</b>  | <b>Comments / Decisions of RPC</b>  |
| 1.  | <p>Genetic variation for in-vitro morphogenetic potential of <i>Dalbergia sissoo</i> Roxb. Clones and evaluation of their field performance</p> <p align="center"><b>Dr. Yogeshwar Mishra</b><br/><b>5 Years (2007-2012)</b></p> | <ul style="list-style-type: none"> <li>RPC agreed to RAG's recommendation of continuing the project without any change in project duration and budget.</li> </ul> |
| 2.  | <p>Standardization of nursery techniques of <i>Strychnos nuxvomica</i> and <i>Strychnos potatorum</i></p> <p align="center"><b>Dr. S.D.Sonkar</b><br/><b>3 Years (2005-2008)</b></p>   | <ul style="list-style-type: none"> <li>RPC agreed to RAG's recommendation of one year extension.</li> </ul>   |
| 3.  | <p>Studies on the active chemical constituents of Hadjora, <i>Cissus quadrangular</i> Linn. Growing on <i>Terminalia arjuna</i> (Roxb.)</p> <p align="center"><b>Dr.V.Kumbhare</b><br/><b>3 Years (2006-2009)</b></p>            | <ul style="list-style-type: none"> <li>RPC agreed for one year extension as recommended by RAG.</li> </ul>  |

| <b>Forest Research Institute, Dehradun</b> |  |  |
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| <b>Sl. No.</b>                             | <b>Project Title/Name of the PI/Duration/Cost (Rs. in Lakh)</b>  | <b>Comments / Decisions of RPC</b>   |
| 1.   | Evaluation of principal chemical constituent of medicinal plants available with NWFP<br><b>Rakesh Kumar</b><br><b>2005-08 / Rs. 2.75</b> | <ul style="list-style-type: none"> <li>Agreed for increase of budget from Rs.2.55 to Rs.2.70 lakhs</li> </ul>  |
| 2.   | Studies on the development of biopesticides from <i>Eucalyptus</i> hybrid<br><b>Dr. Rameshwar Dayal</b><br><b>2006- 2009 / Rs. 3.61</b>  | <ul style="list-style-type: none"> <li>Agreed to increase the budget from Rs.2.00 to Rs.2.30 lakhs</li> </ul>  |
| 3.   | Development of Air Pollution Biomonitoring Station for Air Quality Assessment in Dehradun.<br><b>Dr A.K. Tripathi</b>                    | <ul style="list-style-type: none"> <li>Approach Uttarakhand Council of Science and Technology for arranging site at Selaqui.</li> </ul>  |
| 4.   | Studies on biodiversity of parasitic Chalcidoidea (Hymenoptera) of Uttarakhand.<br><b>Dr Sudhir Singh</b>                                | <ul style="list-style-type: none"> <li>RPC agreed for budget increase of 15% only.</li> <li>Rs.0.60 lakhs additional budget allowed.</li> </ul>  |
| 5.   | Studies on performance of plantation grown species in cooling towers.<br><b>Sh. Ram Lal,</b>   | <ul style="list-style-type: none"> <li>Budget increase of Rs.0.50 lakh agreed.</li> </ul>  |
| 6.   | Establishment of breeding arboretum of Eucalyptus and production of interspecies hybrids<br><b>Ms. Parveen,</b>                          | <ul style="list-style-type: none"> <li>Complete ongoing Phase I with the available budget.</li> <li>II Phase with additional budget allotment shall be taken up separately.</li> </ul>     |
| 7.   | Genetic evaluation of selected genotypes for exploring clonal forestry potential in <i>Dalbergia sissoo</i><br><b>Dr. Ashok Kumar</b>    | <ul style="list-style-type: none"> <li>Complete the ongoing Phase I with available budget.</li> <li>Take up Phase II separately as a fresh project.</li> </ul>                             |
| 8.   | Development of prediction models for resin production of <i>Pinus roxburghii</i> .<br><b>Director FRI</b>                                | <ul style="list-style-type: none"> <li>Agreed to change the budget from Rs.1.0 lakh to Rs.1.40 lakh for each year.</li> <li>In-house review to assess the need for more budget.</li> </ul> |

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| 9. | Development of agro forestry models for eastern UP<br><b>Dr. Anubha Srivastava</b> | <ul style="list-style-type: none"> <li>• Since the increase in budget is more than 15%, take Phase II with additional budget requirement as a new project.</li> <li>• Complete ongoing project as Phase I with the available budget.</li> </ul> |
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## ANNEXURE – III

### NEW PROJECTS

#### Institute of Wood Science and Technology, Bangalore

| Sl. No. | Project Title/Name of the PI/Duration/Budget (Rs. in Lakh)  | Comments / Decisions of RPC  |
|---------|---|--|
| 1.      | Studies on scale up of protocols for <i>invitro</i> propagation, hardening, production of cloned plants and establishment of field trials of Sandalwood. ( <i>Santalum album</i> L)<br><b>Dr. T.S. Rathore</b><br><b>3 years (2008-11)</b><br><b>Rs.11.76</b> | <ul style="list-style-type: none"> <li>• <b>Approved.</b></li> <li>• Technology to be patented.</li> </ul>   |
| 2.      | Variability studies in <i>Hardwickia binata</i> – a multipurpose tree species in Karnataka.<br><b>Dr. A.N. Arun Kumar</b><br>5 years (2008-13) / <b>Rs.18.76</b>  | <ul style="list-style-type: none"> <li>• More area to be included.</li> <li>• Only field assistant allowed.</li> <li>• Environmental services of the species to be included</li> <li>• <b>Project to be revised by 20.03.2008</b></li> <li>• <b>RPC authorizes DG for taking final decision.</b></li> </ul>  |
| 3.      | Studies on seed variability, Propagation and ex-situ conservation of <i>Canarium strictum</i> Roxb. and <i>Hydnocarpus pentandra</i> (Buch. – Ham.) Oken – threatened medicinal trees.<br><b>Dr. Geeta Joshi</b><br><b>3 years (2008-11) / Rs. 3.45</b>       | <ul style="list-style-type: none"> <li>• Prospective buyers of technology to be indicated.</li> <li>• Environmental services to be linked.</li> <li>• Extension component has to be part of the project.</li> <li>• Only one TA allowed.</li> <li>• <b>Revised project to be submitted by 20.03.2008</b></li> <li>• <b>RPC authorizes DG for taking final decision.</b></li> </ul> |
| 4.      | Studies on the insect pest problems of sandal under cultivation and their management.<br><b>Raja Muthukrishnan</b><br><b>3 years (2008-11) / Rs.5.73</b>  | <ul style="list-style-type: none"> <li>• Pathological studies to be included.</li> <li>• Co-PI from plant pathology.</li> <li>• Budget remains the same.</li> <li>• <b>Revised project to be submitted by 20.03.2008</b></li> <li>• <b>RPC authorizes DG for taking final decision.</b></li> </ul>   |

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| 5.  | Mechanisms governing discrete generation cycles among seasonal insects.<br><b>Y.B. Srinivasa</b><br><b>3 years (2008-11) / Rs.4.96</b>  | <ul style="list-style-type: none"> <li>• <b>Not approved.</b></li> </ul>   |
| 6.  | Studies on identification and molecular typing of indigenous of <i>Trichoderma</i> and their bioefficacy in forest soils.<br><b>Muthukumar Arunachalam</b><br><b>3 years (2008-11) / Rs.21.26</b> | <ul style="list-style-type: none"> <li>• <b>Not approved.</b></li> </ul>   |
| 7.  | Studies on surveillance and variability of soil-borne pathogens associated with forest seedling diseases.<br><b>Muthukumar Arunachalam</b><br><b>3 years (2008-11) / Rs.18.85</b>                 | <ul style="list-style-type: none"> <li>• <b>Not approved</b></li> </ul>  |
| 8.  | Anatomical approach to evaluate treatability of timbers.<br><b>T.R. Hemavathi</b><br><b>3 years (2008-11)</b><br><b>Rs.12.96</b>  | <ul style="list-style-type: none"> <li>• Poplar species to be included.</li> <li>• Commercial application to be ensured.</li> <li>• Objective No.2 be changed.</li> <li>• Develop treatability parameters only, redefining of the treatability classes to be removed.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul> |
| 9.  | Studies on the permeability of selected imported timbers marketed in Karnataka.<br><b>P. Narayanappa</b><br><b>3 years (2008-11) / Rs.0.90</b>  | <ul style="list-style-type: none"> <li>• Objective No.2 be changed.</li> <li>• Applied aspects of timbers like durability, carbon sequestration capacity to be included.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>  |
| 10. | Studies on the thermal degradation kinetics and fuel properties of roots from selected tree species.<br><b>Ritesh Kumar</b><br><b>3 years (2008-11) / Rs.1.96</b>                                 | <ul style="list-style-type: none"> <li>• Title to be changed by adding 'agroforestry'</li> <li>• <b>Project to be recast as Wood Energy Project by 20.03.2008.</b></li> <li>• RPC authorizes DG to take final decision.</li> </ul>   |
| 11. | Study on the Morphology and Properties of Natural Fiber Filled Polypropylene Composites (NFPPC)<br><b>Pankaj Aggarwal</b><br><b>3 years (2008-11)</b><br><b>Rs.19.65</b>                          | <ul style="list-style-type: none"> <li>• Environmental services to be added.</li> <li>• Patenting to be ensured before publication.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>   |

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| 12. | Development of database on Red sanders ( <i>Pterocarpus santalinus</i> L)<br><b>V. Soundararajan</b><br><b>1 year (2008-09)</b><br><b>Rs. 2.00</b>  | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> </ul>   |
| 13. | Performance of waterborne wood coatings on some timber species.<br><b>Dr. K.K. Pandey</b><br><b>2008-2011</b><br><b>Rs.12.00</b>  | <ul style="list-style-type: none"> <li>• Details of oil bound coatings to be given.</li> <li>• Coatings which are locally used should be studied.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>                                |
| 14. | Synthesis of organometallic complex replacing arsenic component in CCA preservative by organic ligand (plant extractive) and evaluate as semi bio preservative.<br><b>S.H. Jain</b><br><b>3 years (2008-11)</b><br><b>Rs.1.51</b> | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> </ul>   |
| 15. | Ecological, economic and socio-culture evaluation of a Ficus based traditional agroforestry system in Mandya district of Karnataka.<br><b>Dr. Syam Vishwanath</b><br><b>3 years (2008-11)</b><br><b>Rs.6.00</b>                   | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> </ul>   |
| 16. | Characterization of marine lignicolous fungi in traditional wood crafts.<br><b>Dr. M. Balaji</b><br><b>4 years (2008-12)</b><br><b>Rs.10.11</b>   | <ul style="list-style-type: none"> <li>• What has already been done regarding marine lignicolous fungi to be included.</li> <li>• What is new about the study is to be included.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul> |
| 17. | Incidence and diversity of marine borers in mangrove habitats of Northern Andhra Pradesh.<br><b>M.V. Rao</b><br><b>3 years (2008-11)</b><br><b>Rs.8.84</b>  | <ul style="list-style-type: none"> <li>• Assess the extent of damage to mangroves by borers.</li> <li>• Impact study to be taken up</li> <li>• Revise the budget</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>                 |

| <b>Forest Research Centre, Hyderabad</b> |  |   |
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| 18.                                      | Screening of certain forest flora; selected based on ethnobotanical records for their bioefficacy against insect pests.<br><b>Dr. Y. Sridhar</b><br><b>3 years (2008-11)</b><br><b>Rs.8.00</b> | <ul style="list-style-type: none"> <li>• Project has inherent flaw.</li> <li>• Project title to be changed by including ethnobotanical properties and not records</li> <li>• A chemist to be added as Co-PI</li> <li>• Species to be decided after thorough scrutiny of literature.</li> <li>• <b>Revised project to be submitted by 20.03.2008</b></li> <li>• <b>RPC authorizes DG for taking final decision.</b></li> </ul> |
| 19.                                      | Reclamation of coal minespoil at Singareni Collieries Company Ltd, Kothagudem.<br><b>Dr. A. Ponnambalam</b><br><b>5 years (2008-12)</b><br><b>Rs.2.90</b>                                      | <ul style="list-style-type: none"> <li>• <b>Approved for external funding</b></li> <li>• As an extension project, SCC Ltd. to fund the project.</li> </ul>  |

| <b>Himalayan Forest Research Institute, Shimla</b> |  |  |
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| <b>Sl. No.</b>                                     | <b>Project Title/Name of the PI/Duration/Budget (Rs. in Lakh)</b>  | <b>Comments / Decisions of RPC</b>   |
| 1.   | Ecological assessment of floristic diversity in Kalatop Khajjiar Wildlife Sanctuary of district Chamba, Himachal Pradesh.<br><b>Dr. R.K. Verma</b><br>3 Years (2008-11) / <b>Rs.5.65</b> | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Collaborate with FRI, Universities of H.P.</li> </ul>  |
| 2.   | Development of techniques for planting wildings of Deodar ( <i>Cedrus deodara</i> )<br><b>Dr. Sandeep Sharma</b><br><b>3 Years (2008-11)</b><br><b>Rs.17.24</b>                          | <ul style="list-style-type: none"> <li>• Study for raising tall plants for ornamental purpose.</li> <li>• Cost effectiveness of the technique to be studied.</li> <li>• Study on pilot basis only.</li> <li>• Reduce budget to Rs.3.00 lakhs only.</li> <li>• Title to be changed.</li> <li>• <b>Revised project to be submitted by 20.03.2008</b></li> <li>• <b>RPC authorizes DG for taking final decision.</b></li> </ul> |
| 3.   | Population genetic analysis and characterization of Cedrus deodara germ plasm through DNA based markers.<br><b>HS Girwal &amp; Rajesh Sharma</b><br><b>3 Years (2008-11) / Rs.5.25</b>   | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• To be taken in collaboration with FRI.</li> </ul>  |

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| 4. | Management of Indian Gypsy Moth ( <i>Lymantria obfuscata</i> ) in H.P.<br><b>S. Chakrabarti</b><br><b>5 Years (2008-13)</b><br><b>Rs.17.40</b>  | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Pathologist from FRI to be included as Co-PI.</li> <li>○ Dr. A.N. Shukla, Head, Pathology Division FRI to nominate Co-PI.</li> <li>○ Bedni Bugyal area disease in Uttarakhand to be included in the study.</li> <li>○</li> </ul> </li> </ul>   |
| 5. | Study on potential insect-pests and pathogens of cone and seeds of <i>Pinus gerardiana</i> Wall. and their control.<br><b>Pawan Kumar and RC Sharma</b><br><b>5 Years (2008-13)</b><br><b>Rs.19.75</b>  | <ul style="list-style-type: none"> <li>• Study to be done in two phases.</li> <li>• <u>Ist phase</u> - study of literature and field survey whether insect-pests have seriously damaged cones and seeds, full spectrum of the damage causing insects to be studied.</li> <li>• <u>IInd phase</u> - study of control measures and biology damaging insect pests.</li> <li>• Ist phase to be completed till next RPC</li> <li>• <b>Recast the Ist phase by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG for taking final decision.</b></li> </ul> |
| 6. | Assessment of nutritional status of most preferred wild edible plants of Kinnaur District, H.P.<br><b>A. Rajsekaran</b><br><b>3 Years (2008-11)</b><br><b>Rs.11.40</b>  | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Survey all wild edible plants but select only important species for detailed nutritional studies.</li> </ul>   |
| 7. | Identification and screening of high active ingredient yielding populations of <i>Picrorhiza kurrooa</i> Royle ex. Benth, <i>Valeriana jatamansi</i> Jones and <i>Angelica glauca</i> Edgew from high hill temperate regions of Himachal Pradesh.<br><b>Jagdish Singh</b><br><b>5 years (2008 to 2013)</b><br><b>Rs.32.15</b> | <ul style="list-style-type: none"> <li>• <b>Approved for external funding by NMPB / others.</b></li> <li>• IHBT and Garhwal University to be consulted.</li> </ul>   |

### RAIN FOREST RESEARCH INSTITUTE, JORHAT

| Sl. No. | Project Title/Name of the PI/Duration/Budget (Rs. in Lakh) | Comments / Decisions of RPC |
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|----|---|--|
| 1. | <p>Development of Farm based Entrepreneurship through efficient Land use and Value Addition in Jhum Areas of Meghalaya and Mizoram.<br/> <b>Shri Pawan K. Kaushik</b><br/> <b>1 year</b><br/> <b>Rs.2.53</b> (Ist Phase)</p>  | <ul style="list-style-type: none"> <li>• Modify the title to make it agroforestry project, remove the word “entrepreneurship”.</li> <li>• <u>First phase</u> of the project duration 1 year, budget Rs.2.53 lakh will be taken up first for preliminary survey and intercrop species.</li> <li>• For the <u>IInd phase</u> of the project, local agroforestry models will be surveyed and studied first and then come up with the revised project in the next RPC.</li> <li>• <b>Revise the project by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG for taking final decision.</b></li> </ul> |
| 2. | <p>A study on the biodiversity of the plant resources of the patch vegetations around rural homestead in Jorhat District, Assam and its role in socio-economy of the villagers.<br/> <b>Dr. Dandeswar Dutta</b><br/> <b>3 years (2008-11)</b><br/> <b>Rs.4.81</b></p> | <ul style="list-style-type: none"> <li>• Co-PI from Soil Science to be included.</li> <li>• Include ecological services for soil improvement</li> <li>• From equipments remove lap top cost, and revise the budget.</li> <li>• <b>Revised project to be submitted by 20.03.2008</b></li> <li>• <b>RPC authorizes DG for taking final decision.</b></li> </ul>  |
| 3. | <p>Ecological assessment of medicinal plants in Nambor Reserve Forests and their socio-economic impact on fringe villagers.<br/> <b>Shri Alok Yadav</b><br/> <b>3 years (2008-11)</b><br/> <b>Rs.6.40</b></p>   | <ul style="list-style-type: none"> <li>• <b>Approved.</b></li> <li>• Directed to submit specific report in next RPC on working of TA and whether 1 JRF is required or not.</li> </ul>  |
| 4. | <p>Development of commercially viable dye products from selected plants of Northeast region.<br/> <b>Shri Hari Om Saxena</b><br/> <b>3 years (2008-11)</b><br/> <b>Rs.8.25</b></p>  | <ul style="list-style-type: none"> <li>• <b>Approved.</b></li> <li>• Buddhist monasteries be visited to know more about the natural dyes being used in monastery paintings.</li> </ul>   |
| 5. | <p>Exploration and documentation of indigenous knowledge of phyto-resources among Mishing tribe of Assam.<br/> <b>Dr. Tilak Ch. Bhuyan</b><br/> <b>2 years (2008-10)</b><br/> <b>Rs.6.05</b></p>  | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Documentation of indigenous knowledge in a holistic way so that it will adjust to any format like 7CRC or IUCN</li> </ul>  |

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| 6. | Impact of climate change on litter microbial dynamics in Dipterocarp forest.<br><b>Shri Rajesh Kumar</b><br><b>3 years</b><br><b>Rs. 8.36</b>  | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• More sites under different environmental conditions to be considered.</li> <li>• PI should focus on indicator / thermophilic microbial species.</li> </ul>  |
| 7. | Seed production potential, seed and seedling quality of planting stock in seedling seed orchards of <i>Dipterocarpus retusus</i> Syn <i>D. macrocarpus</i> .<br><b>Shri Tara Chand</b><br><b>3 years</b><br><b>Rs.5.30</b> | <ul style="list-style-type: none"> <li>• Revise the duration and budget.</li> <li>• Modify the project as advised by Dr.Ginwal, Head, G&amp;TP Division, FRI. Consult Dr. Ginwal in relation to conversion of Ist generation SSO to IInd generation SSO, through 1 and half generation SSO by culling.</li> <li>• <b>Submit the Revised proposal by 20.03.2008</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul> |

## Institute of Forest Genetics & Tree Breeding, Coimbatore

| Sl. No. | Project Title/Name of the PI/Duration/Budget (Rs. in Lakh)   | Comments / Decisions of RPC   |
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| 1.      | Progeny testing of selected clones for establishment of Clonal and Seedling Seed Orchards in Eucalyptus.<br><b>Dr. V. Sivakumar</b><br><b>6 Years (2008-14)</b><br><b>Rs.34.14</b> | <ul style="list-style-type: none"> <li>• <b>Approved.</b></li> <li>• New clones to be released before 1<sup>st</sup> April 2008 as per the guidelines.</li> <li>• It is a part of AICP</li> </ul> |
| 2.      | Genetic Improvement of Casuarina species through Second Generation Orchards<br><b>Dr. A. Nicodemus</b><br><b>6 Years (2008-09 to 2013-14)</b><br><b>Rs.43.28</b>                   | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Part of AICP</li> <li>• Pathology and Entomologist to be part of research team.</li> </ul>                                    |
| 3.      | Induction of nutrition in Casuarina using Gamma Rays and Evaluations of mutants<br><b>Dr. S. Jayakumar</b><br><b>5 Years</b><br><b>Rs.15.17</b>                                    | <ul style="list-style-type: none"> <li>• <b>Not approved</b> since PI has resigned.</li> </ul>  |
| 4.      | Evaluation of realized genetic gain from clonal seed orchard seeds of Teak<br><b>Dr. Maheshwar Hegde</b><br><b>5 years</b><br><b>Rs.15.61</b>                                      | <ul style="list-style-type: none"> <li>• <b>Not approved</b></li> </ul>   |

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| 5. | Developing cloning techniques for raising high yielding clonal plantations in <i>Casuarina equisetifolia</i><br><b>Shri Kannan C.S. Warriar</b><br><b>5 years</b><br><b>Rs.8.49</b> | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Duration 3 years instead of 5 years</li> <li>○ Budget limited to Rs.3.00 lakhs</li> <li>○ JRF not allowed.</li> </ul> </li> </ul>   |
| 6  | Studies on suitability of eucalyptus clones in various Agro-Climatic Zones of Southern India<br><b>Dr. A. Vijayaraghavan</b><br><b>5 years</b><br><b>Rs.25.21</b>                   | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Part of AICP</li> <li>○ Gall susceptibility to be studied along with productivity.</li> <li>○ JRF not allowed. JRF of project at Sl. No.7 of this document to be used.</li> </ul> </li> </ul> |
| 7  | Characterization of Eucalyptus clones for physiological and nutritional parameters<br><b>Shri S. Saravanan</b><br><b>3 Years</b><br><b>Rs.10.10</b>                                 | <ul style="list-style-type: none"> <li>• <b>Approved.</b></li> <li>• Part of AICP</li> </ul>  |
| 8  | Evaluation and selection of Teak clones for clonal forestry to improve productivity<br><b>Dr. K. Palanisamy</b><br><b>5 Years / Rs.19.79</b>  | <ul style="list-style-type: none"> <li>• <b>Not approved.</b></li> </ul>  |
| 9  | Selection, multiplication and evaluation of high yielding clones of <i>Acacia auriculiformis</i><br><b>Dr. K.Palanisamy</b><br><b>5 Years</b><br><b>Rs.30.27</b>                    | <ul style="list-style-type: none"> <li>• <b>Not approved</b></li> <li>• To be taken as in-house study for standardizing clonal technique, budget Rs.2.00 lakhs and duration 3 years.</li> </ul>   |
| 10 | Allelic diversity of Cinnamoyl CoA reduc-tase (CCR) Gene in <i>Casuarina equisetifolia</i><br><b>Dr. A. Shanthi</b><br><b>3 Years / Rs.10.00</b>                                    | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> </ul>   |
| 11 | Identification of bio-chemical markers linked to sex determination in <i>Casuarina equisetifolia</i><br><b>Dr. A. Shanthi</b><br><b>3 years / Rs.7.85</b>                           | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> </ul>   |

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| 12 | Quantitative Trait Loci (QTL ) mapping in Eucalypts for salinity tolerance and adventitious rooting<br><b>R. Yasodha</b><br><b>3 Years (2008 – 2011) /</b><br><b>Rs.30.00</b>                     | <ul style="list-style-type: none"> <li>● <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Part of AICP</li> <li>○ 2 JRFs out of three asked, are allowed.</li> <li>○ Equipment for Rs.18.00 lakhs not allowed.</li> <li>○ Budget reduced to Rs.30.00 lakhs only.</li> </ul> </li> </ul>   |
| 13 | Identification of secondary xylem specific cellulose synthase genes from <i>Eucalyptus tereticornis</i><br><b>Dr. Modhumita Dasgupta</b><br><b>3 Years (2008 – 2011)</b><br><b>Rs.17.35</b>       | <ul style="list-style-type: none"> <li>● <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Part of AICP</li> <li>○ DNA sequencing gel not allowed.</li> <li>○ Budget reduced to Rs.10.00 lakhs only.</li> </ul> </li> </ul>  |
| 14 | Bioinformatic approach to data mine wood forming genes of Eucalyptus<br><b>R.Vivekanandan</b><br><b>3 Years (2008– 2011)</b><br><b>Rs.2.00</b>  | <ul style="list-style-type: none"> <li>● <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ JRF not allowed.</li> <li>○ Budget reduced to Rs.2.00 lakhs only.</li> </ul> </li> </ul>  |
| 15 | Status and influence of microbial inoculants associated with Eucalyptus clones in established breeding populations.<br><b>Dr. A. Karthikeyan]</b><br><b>3 Years (2008-2011)</b><br><b>Rs.3.63</b> | <ul style="list-style-type: none"> <li>● <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ JRF not allowed.</li> <li>○ Budget reduced to Rs.3.63 lakhs only.</li> </ul> </li> </ul>  |
| 16 | Studies on response of important tree species to elevated CO <sub>2</sub> levels at seedling stage.<br><b>Dr. C. Buvaneshwaran</b><br><b>1 Year</b><br><b>Rs.1.01</b>                             | <ul style="list-style-type: none"> <li>● <b>Study to be more holistic by simulating the change in other environmental conditions like temperature and moisture.</b></li> <li>● FACE technology to be used instead of open top chamber.</li> <li>● Revise the project by using the proven technologies.</li> <li>● <b>Revise it for Rs.30.00 by 20.03.2008.</b></li> <li>● <b>RPC authorizes the DG to take final decision.</b></li> </ul> |
| 17 | Some phytochemical toxicological, pharma-cological investigations of <i>Aegle marmelos</i> for a new product<br><b>Dr. S. Murugesan</b><br><b>3 Years</b><br><b>Rs.13.43</b>                      | <ul style="list-style-type: none"> <li>● <b>Approved.</b></li> <li>● Research results of other Institutes to be studied.</li> <li>● Ensure patenting.</li> </ul>  |

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| 18 | Studies on the impact of <i>Indarbela quadrinotata</i> on growth of <i>Casuarina equisetifolia</i> and factors influencing the pest infestation<br><b>Dr. K.R.. Sasidharan</b><br><b>4 years (2008 – 2012)</b><br><b>9.25</b> | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ AP Forest Development Corporation (APFDC) to be approached with project details for 75% funding.</li> <li>○ 25% funding from ICFRE.</li> </ul> </li> </ul> |
| 19 | Characterization and evaluation of allelo-chemical profiles of insect pest tolerant/ resistant candidates of Teak, Casuarina and Eucalypts<br><b>Dr. John Prasanth Jacob</b><br><b>2 years</b><br><b>Rs.5.00</b>              | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Check if any leads are available.</li> <li>○ Include <i>Acacia mangium</i>, <i>A. auriculiformis</i> and <i>Ailanthus excelsa</i></li> </ul> </li> </ul>   |
| 20 | Exploration of traditional and indigenous knowledge in pest and disease management and its utilization in Forestry.<br><b>Dr. K. Panneer Selvam</b><br><b>3 Years (2008- 2011)</b><br><b>Rs.11.57</b>                         | <ul style="list-style-type: none"> <li>• <b>Not approved.</b></li> </ul>   |

| <b>Institute of Forest Productivity, Ranchi</b> |   |  |
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| <b>Sl. No.</b>                                  | <b>Project Title/Name of the PI/Duration/Budget (Rs. in Lakh)</b>   | <b>Comments / Decisions of RPC</b>   |
| 1.  | Studies on collection, processing, sale and utilization of commercially important medicinal plants & NWFP and their threat to extinction in Jharkhand<br><b>Dr. Malabika Ray</b><br><b>Years</b><br><b>4.96</b> | <ul style="list-style-type: none"> <li>• <b>Approved.</b></li> </ul>   |
| 2.  | Conservation of medicinal plants through commercial cultivation of by JFMCs and farmers in eastern Himalaya and its socio-economic impact.<br><b>Sh. S.N. Majumdar</b><br><b>4 Years</b><br><b>Rs.15.00</b>     | <ul style="list-style-type: none"> <li>• <b>Downscale the cost.</b></li> <li>• Involve JFMCs and Panchayats.</li> <li>• Include value addition studies.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul> |

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| 3. | <p>To develop in-vitro propagation protocol in <i>Anthocephalus chinensis</i> &amp; elucidating physio-morphological process at juvenile/mature stage<br/> <b>Sh. Sanjeev Kr Bhatia</b><br/> <b>4 years</b><br/> <b>Rs.12.00</b></p>                 | <ul style="list-style-type: none"> <li>• <b>Approved for external funding.</b></li> <li>• Arrange for DBT funding.</li> </ul>  |
| 4. | <p>Development of low-cost technique of enriched vermicompost for commercial production<br/> <b>Dr. P.K.Das</b><br/> <b>3 years</b><br/> <b>Rs.13.00</b></p>   | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Budget reduced to Rs.7.00 lakhs in place of proposed budget of Rs.13.00 lakhs.</li> </ul> </li> </ul>  |
| 5. | <p>Integrated strategy for evaluation of Indigenous fast-growing multi-purpose trees of Eastern India for plantation forestry.<br/> <b>Dr. Sanjay Singh</b><br/> <b>5 years / Rs.16.50</b></p>   | <ul style="list-style-type: none"> <li>• <b>Approved.</b></li> </ul>   |
| 6. | <p>Domestication, mass multiplication and popularization of promising trees with medicinal and nutritive<br/> Value: <i>Bauhinia variegata</i> and <i>Moringa oleifera</i><br/> <b>Dr. Sanjay Singh</b><br/> <b>5 years</b><br/> <b>Rs.14.70</b></p> | <ul style="list-style-type: none"> <li>• Reduce the budget.</li> <li>• Non destructive extraction methodologies to be added.</li> <li>• Reformulate the project focussing on one species.</li> <li>• <b>Submit the revised proposal by 20.03.2008</b></li> <li>• <b>RPC authorizes the DG to take final decision.</b></li> </ul> |
| 7. | <p>Nursery management and propagation of promising medicinal trees in Jharkhand<br/> <b>Dr. Malabika Ray</b><br/> <b>3 years</b><br/> <b>Rs.10.97</b></p>  | <ul style="list-style-type: none"> <li>• <b>Not approved.</b></li> </ul>   |
| 8. | <p>Development of Dynamic Database for Forestry Discussion Forum<br/> <b>Mrs. Ruby Kujur</b><br/> <b>2 years</b><br/> <b>Rs.4.40</b></p>   | <ul style="list-style-type: none"> <li>• <b>Approved.</b></li> <li>• An Advisory Committee consisting of insiders and outsiders be formed.</li> <li>• RPC will review the progress after one year.</li> </ul>  |

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| 9. | Evolving Good Agricultural & Collection Practices (GACP) for indigenous medicinal plant on the lines of WHO Guidelines<br><b>Dr. Rajiv Rai</b><br>3 years<br>Rs.10.69 | <ul style="list-style-type: none"> <li>• <b>Approved for external funding by NMPB</b></li> </ul> |
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| <b>Arid Forest Research Institute, Jodhpur</b> |   |   |
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| <b>Sl. No.</b>                                 | <b>Project Title/Name of the PI/Duration/Budget (Rs. in Lakh)</b>   | <b>Comments / Decisions of RPC</b>  |
| 1.   | Studies on carbon sequestration potential of dry forests of north-western India.<br><b>Dr. G. Singh</b><br>3 Years (2008-2011)<br>Rs.101.40   | <ul style="list-style-type: none"> <li>• Objectives of the project have to be more focused.</li> <li>• Project duration will be three years, during which studies in Rajasthan will be taken up.</li> <li>• Gujarat forests will be studied in the second phase.</li> <li>• For estimation of carbon internationally accepted latest methodology should be used.</li> <li>• Budget also should be revised.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul> |
| 2.   | Effect of fertilizer application on growth and yield of ten year old <i>Salvadora persica</i> and <i>Acacia ampliceps</i> plantation on arid salt affected soil (Post Gangani Project)<br><b>Dr. Ranjana Arya</b><br>3 Years(2008-1)<br>Rs.6.57 | <ul style="list-style-type: none"> <li>• Title not matching with the objectives.</li> <li>• <b>The revised project with changed objectives to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>  |
| 3.   | Status of non wood forest products in two desert districts of Rajasthan and their role in rural economy with special emphasis on women.<br><b>Mrs. Sangeeta Tripathi</b><br>4 Years (2008-2012)<br>Rs.9.60                                      | <ul style="list-style-type: none"> <li>• <b>Approved for external funding.</b></li> <li>• In the methodology in place of questionnaire, new schedule should be adopted.</li> <li>• One district from Eastern Rajasthan and one district from Western Rajasthan should be taken for studies.</li> <li>• Revised project to be submitted to Rajasthan Forest Department for funding.</li> </ul>   |
| 4.   | Comparative study of changing trends in the site specific Agro Forestry practices in Rajasthan for their productivity and economic return enhancement.<br><b>Dr. Sunil Kumar</b><br>4 Years (2008-2012)<br>Rs.39.80                             | <ul style="list-style-type: none"> <li>• <b>Withdrawn</b> by Director, AFRI Jodhpur.</li> </ul>   |

## Tropical Forest Research Institute, Jabalpur

| Sl. No. | Project Title/Name of the PI/Duration/Budget (Rs. in Lakh)  | Comments / Decisions of RPC  |
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| 1.      | <p>Studies on endogenous auxin level and its relationship with adventitious rooting potential in <i>Gmelina arborea</i> Roxb.</p> <p style="text-align: center;"><b>Dr. Pramod Kumar Tiwari</b><br/><b>3 Years (2008-11)</b><br/><b>Rs. 10.68</b></p> | <ul style="list-style-type: none"> <li>• <i>Dalbergia latifolia</i> to be studied in place of <i>Gmelina arborea</i>.</li> <li>• <b>Budget to be reduced.</b></li> <li>• Instead of JRF, one TA is allowed.</li> <li>• <b>Revised proposal be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>  |
| 2.      | <p>Evaluation of productivity of maize in <i>Dalbergia sissoo</i> (Shisham) and <i>Zea mays</i> (Maize) Agro-forestry system</p> <p style="text-align: center;"><b>Sh. E. Venkat Reddy</b><br/><b>3 Years (2008-11)</b><br/><b>Rs.5.50</b></p>        | <ul style="list-style-type: none"> <li>• Two controls are needed, one with Shisham and one without Shisham.</li> <li>• <b>Revised proposal be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>  |
| 3.      | <p>Studies on important diseases of medicinal plants and their bio-control.</p> <p style="text-align: center;"><b>Dr. V.S. Dadwal</b><br/><b>3 Years (2008-11)</b><br/><b>Rs.6.60</b></p>   | <ul style="list-style-type: none"> <li>• Change the title by putting “important” before the medicinal plants and not before “diseases”/</li> <li>• In place of <i>Gloriosa superba</i>, one species out of Jangli haldi, safed musli, kali musli or isabgol should be added.</li> <li>• <b>Revised proposal be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul> |
| 4.      | <p>Studies on wood decay and its control in stored tropical timber.</p> <p style="text-align: center;"><b>Dr. C.K. Tiwari</b><br/><b>4 Years (2008-12)</b><br/><b>Rs.11.24</b></p>  | <ul style="list-style-type: none"> <li>• <b>Approved for 50% funding from MP Forest Department.</b></li> <li>• The timber species which decay faster but fetch good prices in market must be studied first.</li> <li>• Cost effective treatments have to be suggested.</li> <li>• After every six months the project progress must be put for review by Dr. Dobhal, Director, UCOST, Dehradun.</li> </ul>          |
| 5.      | <p>Development of an Information System for Forest Tree Species Associated Insects and their Management</p> <p style="text-align: center;"><b>Dr. Sharad Tiwari</b><br/><b>3 Years (2008-11)</b><br/><b>Rs.7.60</b></p>                               | <ul style="list-style-type: none"> <li>• Approved.</li> <li>• <b>The information should be broad based and other ICFRE Institutes should be involved.</b></li> <li>• Symptom related information should be provided.</li> <li>• Keys to develop in consultation with FRI</li> <li>• Try to develop user friendly touch screen type of Kiosks.</li> </ul>   |

| <b>Forest Research Institute, Dehradun</b> |  |  |
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| <b>Sl. No.</b>                             | <b>Project Title/Name of the PI/Duration/Budget (Rs. in Lakh)</b>  | <b>Comments / Decisions of RPC</b>   |
| 1.   | Clonal screening of <i>Dalbergia sisso</i> in relation to nitrogen utilization and carbon sequestration.<br><b>Dr. S.P.Chaukiyal &amp; S. Nautiyal</b><br><b>3 years (2008-11) / Rs.12.746</b> | <ul style="list-style-type: none"> <li>• Link the study with Shisham mortality.</li> <li>• Reduce the budget.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>  |
| 2.   | Taxonomic and anatomical studies of exotic pinus species.<br><b>Dr. Sangeeta Gupta</b><br><b>3 years (2008-11) / Rs.11.00</b>  | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Reduced the project duration to 3 years in place of 4 years.</li> <li>○ Budget reduced to Rs.11.00 lakhs in place of Rs.13.85 lakhs.</li> <li>○ TA not allowed.</li> </ul> </li> </ul>   |
| 3.   | Inheritance pattern of wood anatomical traits in <i>Populus deltoides</i> Bartr. Ex. Marsh.<br><b>Dr. P. K. Pandey</b><br><b>3 years (2008-11) / Rs.8.79</b>                                   | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ TA not allowed.</li> <li>○ Reduce the budget accordingly.</li> </ul> </li> </ul>   |
| 4.   | Fluorescent studies of Indian woods.<br><b>Dr. Sangeeta Gupta</b><br><b>3 years / Rs.4.436</b>   | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Purchase of spectrophotometer not allowed.</li> <li>○ JRF to be shared with Pine Project of same PI</li> <li>○ Modified budget of Rs.4.436 lakhs only is allowed.</li> </ul> </li> </ul> |
| 5.   | Field evaluation of tissue culture plants of Eucalyptus hybrid FRI-5 & FRI-14 at seven agro climatic sites<br><b>Dr. I.D.Arya,</b><br><b>3 years (2008-11) / Rs.2.70</b>                       | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ JRF not allowed.</li> <li>○ Reduce the budget accordingly.</li> </ul> </li> </ul>  |
| 6.   | Development of Micro-propagation protocol for mass multiplication of medicinal plant <i>Stevia rebaudiana</i> .<br><b>Dr. Sarita Arya</b><br><b>3 years (2008-11) / Rs.2.00</b>                | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ JRF not allowed.</li> <li>○ Equipment purchase not allowed</li> <li>○ Budget revised to Rs.2.00 lakhs only in place of proposed budget of Rs.7.88 lakhs.</li> </ul> </li> </ul>          |

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| 7.  | Digitization of Herbarium (Dehradun Herbarium) of Forest Research Institute<br><b>Dr. Veena Chandra</b><br><b>5 years (2008-13)</b><br><b>Rs.43.23</b>  | <ul style="list-style-type: none"> <li>• <b>Approved for partial funding by UCOST</b></li> <li>• Director, UCOST, Dr. Dobhal agreed to provide 33% of funds, provided the plants of Uttarakhand to be digitized are informed to UCOST</li> <li>• Review after every six months.</li> <li>• Chairman desired that a presentation be made by FRI before RPC Members Dr.Dobhal and Shri G.P. Maithani.</li> </ul>  |
| 8.  | To improve white rot fungus strains accessibility in bamboo for better delignification through mechanical process.<br><b>Dr. S.P. Singh</b><br><b>3 years (2008-11) / Rs.6.646</b>                            | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Budget limited to Rs.5.00 lakhs</li> <li>○ Ensure patent before publication.</li> </ul> </li> </ul>   |
| 9.  | Studies on Natural Dyes from <i>Tagetes minuta</i> and <i>Terminalia chebula</i><br><b>Dr. Rameshwar Dayal</b><br><b>2 years (2008-10) / Rs.3.00</b>  | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Budget limited to Rs.3.10 lakhs in place of Rs.4.30 lakhs as proposed.</li> <li>○ Duration of project 2 years in place of 3 years..</li> </ul> </li> </ul>  |
| 10. | Studies on the pectic substances from the fruits of <i>Diospyros peregrina</i> .<br><b>Dr. P.K.Gupta</b><br><b>3 years (2008-11) / Rs.3.98</b>  | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Budget reduced to Rs.3.98 lakhs only in place of Rs.4.97 lakhs.</li> <li>○ Scan some other species also.</li> </ul> </li> </ul>   |
| 11. | Development of Cost Effective Housing by using Pole Structures for.<br><b>Mr. S.P.Royal</b><br><b>3 years (2008-11)</b><br><b>Rs.8.05</b>   | <ul style="list-style-type: none"> <li>• Project will be taken in two phases.</li> <li>• <u>In first phase</u> of 1 year duration, a small prototype with round, treated timber will be developed.</li> <li>• The prototype will have one bedroom /two bed room with lobby.</li> <li>• Low cost treatment used by tribals and local people e.g. smoking can be studied.</li> <li>• Consult Forest Products Divsiion, FRI</li> <li>• <u>In second phase</u> construction of full fledged pilots will be taken up.</li> <li>• Budget allotment for Ist phase of 1 year is Rs.2.00 lakh.</li> <li>• Review after every six months will be taken up.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul> |
| 12. | Studies on The Termites of Family Termitidae (Insecta: Isoptera), With Special Emphasis On Their Taxonomic Status, Identity And Distribution.<br><b>Dr. R.K. Thakur</b><br><b>2 years (2008-10) / Rs.0.40</b> | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Budget limited to Rs.1.0 lakhs</li> <li>○ One TA allowed.</li> </ul> </li> </ul>  |

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| 13. | Exploration of Diversity in <i>Ganoderma lucidum</i> and its Conservation with Special Emphasis on its Medicinal Uses.<br><b>Dr. N.S.K.Harsh</b><br><b>3 Years (2008-11) / Rs.10.325</b> | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> </ul>  |
| 14. | Creation of photo gallery for FRI at Shatabdi Kendra city centre/Rangers college, Dehradun.<br><b>Dr Y.P. Singh</b><br><b>5 Years (2008-13) / Rs.37.87</b>                               | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• 5<sup>th</sup> June 2008 is the date of completion.</li> <li>• Memorabilia of importance and antique value should be kept in the photo gallery e.g. painted turbine of power house.</li> </ul> |
| 15. | Health assessment of logs and converted timbers by vibration techniques.<br><b>Dr. Y.M.Dubey</b><br><b>3 Years (2008-11) / Rs.2.35</b>   | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Coordinate with IWST.</li> </ul>   |
| 16. | Wood quality assessment of selected candidates of <i>Eucalyptus tereticornis</i> of Australian origin.<br><b>Dr. Vimal Kothiyal</b><br><b>3 Years (2008-11) / Rs.9.78</b>                | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Budget limited to Rs.8.0 lakhs in place of Rs.9.78 lakhs as proposed.</li> <li>○ TA and CDL not allowed.</li> </ul> </li> </ul>    |
| 17. | Study on rebound characteristics of wood and wood products.<br><b>Shri Rajesh Bhandari</b><br><b>4 years / Rs.11.22</b>  | <ul style="list-style-type: none"> <li>• <b>Approved for external funding.</b></li> </ul>  |
| 18. | Development of quality wood composite from lops and tops of mixed plantation species.<br><b>Dr. Anil Negi</b><br><b>3 Years (2008-11) / Rs.2.42</b>                                      | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Ensure patenting.</li> </ul>   |
| 19. | Development of Phenol Urea formaldehyde wood adhesives.<br><b>Dr. D.P.Khali</b><br><b>3 Years (2008-11) / Rs.1.94</b>  | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Ensure patenting.</li> </ul>   |
| 20. | Fabrication and performance study of Vacuum based wood dryer for fast and efficient drying of Indian timbers.<br><b>Dr. N.K.Upreti</b><br><b>4 years (2008-12) / Rs.8.42</b>             | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• If dryer has patenting potential, ensure patenting otherwise go for extension of technology developed.</li> <li>• JRF not allowed.</li> </ul>  |
| 21. | Development of treatment technology for commercially important difficult to treat species.<br><b>Ajmal Samani</b><br><b>3 Years (2008-11) / Rs.2.80</b>                                  | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Ensure patenting.</li> </ul>   |

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|-----|--|--|
| 22. | Genetic evaluation and characterization of different clones for higher productivity and hybridization in <i>Dalbergia sissoo</i><br><b>Dr. Ashok Kuma</b><br><b>3 Years (2008-11) / Rs.26.65</b>       | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Part of AICP on <i>Dalbergia sissoo</i>.</li> <li>• One JRF and Rs.10.00 worth equipment not allowed.</li> <li>• Budget limited to Rs.7,65 lakhs only.</li> </ul>  |
| 23. | Population genetic analysis and characterization of <i>Cedrus deodara</i> germplasm through DNA based markers./<br><b>Dr. H.S. Ginwal</b><br><b>3 years / Rs.115.42 (FRI)</b><br><b>Rs.5.25 (HFRI)</b> | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> <li>• Subject to availability of funds.</li> </ul>   |
| 24. | Screening of Forest species for Newer sources of D-Galactomann.<br><b>Shri B.P.Tamta</b><br><b>2 years / Rs.3.50</b>   | <ul style="list-style-type: none"> <li>• Review the literature again.</li> <li>• <b>Recast the project and submit by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take the final decision.</b></li> </ul>  |
| 25. | Enhancement of seed longevity of <i>Diploknema butyracea</i> .<br><b>Dr. Nava Bahar</b><br><b>4 years (2008-12) / Rs.5.60</b>  | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Add environment services e.g. soil fertility in the study.</li> <li>○ Add Soil Scientist as Co-PI</li> </ul> </li> </ul>   |
| 26. | Silviculture studies on <i>Hippophae salicifolia</i> - A wonder Lesser Known plant of Uttarakhand.<br><b>Ms. Anita Tomar</b><br><b>3 Years (2008-11)</b><br><b>Budget to be revised.</b>               | <ul style="list-style-type: none"> <li>• <b>Environmental services e.g. soil binding, glacial soil deposits, etc. to be studied.</b></li> <li>• TA is allowed in place of JRF</li> <li>• Budget to be revised.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul>  |
| 27  | Impact of ban on green felling in deodar blue pine fir and spruce forests in Uttarakhand<br><b>R.P. Singh</b><br><b>3 Years</b><br><b>Rs.31.84</b>   | <ul style="list-style-type: none"> <li>• Merging of projects of Botany division and Silviculture Division not required.</li> <li>• The Botany division project being in advanced stage of completion, be concluded within next 2 months.</li> <li>• The project of Silviculture Division to study the forest areas where basic information is available.</li> <li>• Decrease the number of sample areas taking 3, from Uttarakhand and 3 from H.P.</li> <li>• Environmental impact like soil improvement to be included along with impacts on goods and economic returns</li> <li>• Ground water recharge also to be studied.</li> <li>• Possibility of using satellite imageries may also be included.</li> <li>• <b>Revised proposal to be submitted by 20.03.2008.</b></li> <li>• <b>RPC authorizes DG to take final decision.</b></li> </ul> |

| <b>CSFER Allahabad</b> |  |  |
|------------------------|--|--|
| 28                     | To standardize the Nursery techniques of selected Ficus species by using Different Bio-treatments.<br><b>Sh A.K. Pandey</b><br><b>2 years (2008-10)</b><br><b>Rs.2.00</b>                    | <ul style="list-style-type: none"> <li>• <b>Approved with following modifications:</b> <ul style="list-style-type: none"> <li>○ Field Assistant not allowed.</li> <li>○ Objective No.4 to be dropped.</li> <li>○ Budget limited to Rs.2.00 lakhs only in place of Rs.3.12 lakhs as proposed..</li> </ul> </li> </ul> |
| 29                     | Bio-remediation of Bauxite residue(red miu) generated from Aluminium industries by using blue green algae/ bio-inoculants.<br>MRS. KUMUD DUBEY<br><b>3 years (2008-11)</b><br><b>Rs.7.00</b> | <ul style="list-style-type: none"> <li>• <b>Approved</b></li> </ul>  |

## ANNEXURE – IV

### ALL INDIA COORDINATED PROJECTS

#### Lead Institute - Rain Forest Research Institute, Jorhat

| Sl. No. | Project Title                                  | Comments / Decisions of RPC   |
|---------|--|---|
| 1.      | All India Coordinated Project on <b>Bamboo</b> | <ul style="list-style-type: none"> <li>• <b>In principle approved by RPC.</b></li> <li>• Involve non ICFRE Institutes and sister organizations working on bamboos.</li> <li>• Identifiable benchmark timeframes to be decided activity-wise.</li> <li>• Overall AICP will be open ended but for specific activities time frame should be given</li> <li>• Different components / subprojects can be arranged in the order of priority for funding in a sequential manner.</li> <li>• Director to explore all the possibilities of external funding.</li> <li>• <b>Lesser known bamboo species of H.P., Uttarakhand, and J&amp;K are also to be included.</b></li> <li>• <b>By 31<sup>st</sup> May 2008 a workshop on AICP for Bamboo to be organized to finalise the operational plan etc.</b></li> <li>• Two RPC members of IX RPC of ICFRE will attend the workshop as observer.</li> </ul> |

**Lead Institute - Institute of Forest Genetics & Tree Breeding, Coimbatore.**

| Sl. No. | Project Title  | Comments / Decisions of RPC  |
|---------|--|--|
| 1.      | All India Coordinated Project on <b>Eucalyptus</b>                           | <ul style="list-style-type: none"> <li>● <b>In principle approved.</b></li> <li>● Involve non ICFRE Institutes.</li> <li>● Identify benchmark timeframes activity-wise.</li> <li>● Identify Institute wise roles and responsibilities.</li> <li>● Arrange sub projects in the order of priority.</li> <li>● Explore the possibility of external funding.</li> <li>● <b>By 31.05.2008, a workshop on AICP on Eucalyptus to be organized to finalize the operational plan etc. and two RPC members of IX RPC of ICFRE to attend the Workshop.</b></li> </ul> |
| 2.      | All India Coordinated Project on Genetic Improvement of <b>Casuarina spp</b> | <ul style="list-style-type: none"> <li>● <b>In principle approved.</b></li> <li>● Involve non ICFRE Institutes.</li> <li>● Identify benchmark timeframes activity-wise.</li> <li>● Identify Institute wise roles and responsibilities.</li> <li>● Arrange sub projects in the order of priority.</li> <li>● Explore the possibility of external funding.</li> <li>● <b>By 31.05.2008, a workshop on AICP on Casuarina to be organized to finalize the operational plan etc. and two RPC members of IX RPC of ICFRE to attend the Workshop.</b></li> </ul>  |

**Lead Institute - Arid Forest Research Institute, Jodhpur**

| Sl. No. | Project Title                                    | Comments / Decisions of RPC  |
|---------|--|--|
| 1.      | All India Coordinated Project on <b>Jatropha</b> | <ul style="list-style-type: none"> <li>● <b>Approved in principle.</b></li> <li>● <b>Environmental impact of Jatropha also to be studied specially study on toxicity, impact on soil, soil micro flora etc.</b></li> <li>● <b>Net affect on the carbon balance to be studied</b></li> <li>● Funding on the prioritized aspects basis.</li> <li>● AFRI to approach the External Funding Agencies for the entire project or on sub-project basis.</li> <li>● <b>Director, AFRI to consult the Director of Uttarakhand Council of Science and Technology for making the project more suitable for NOVOD funding.</b></li> <li>● <b>PCCF Uttarakhand Forest Department agreed to fund the component related to the studies being made in Uttarakhand State.</b></li> <li>● Regarding Environmental impact study, token money will be provided from ICFRE funds.</li> </ul> |

## Lead Institute – Tropical Forest Research Institute, Jabalpur

| Sl. No. | Project Title                         | Comments / Decisions of RPC   |
|---------|---------------------------------------|---|
| 1.      | All India Coordinated Project on Teak | <ul style="list-style-type: none"> <li>• <b>Approved in principle by IX RPC</b></li> <li>• AICP on Teak will be open ended but some sub projects will be time bound.</li> <li>• <b>Past achievements specially related to tree improvement and breeding should be highlighted and the project should not appear as a <i>de-novo</i> project.</b></li> <li>• <b>The prioritization of sub projects should be done and the revised sequence should be as under :</b></li> </ul> |
| 1.      | Sub project I                         | Developing advance generation breeding populations and seed orchards.   |
| 2.      | Sub project II                        | Selection and breeding to improve wood quality.   |
| 3.      | Sub project III                       | Demonstration and popularization of genetically superior planting material.   |
| 4.      | Sub project IV                        | Managing variation in fertility levels through genetic and silvicultural inputs.  |
| 5.      | Sub project V                         | Meeting the demand for quality planting material.   |
|         |                                       | <ul style="list-style-type: none"> <li>• Benchmarks to be identified after every year of the project as monitorable indicators.</li> </ul>  |

## Lead Institute – Forest Research Institute, Dehradun

| Sl. No. | Project Title   | Comments / Decisions of RPC  |
|---------|---|--|
| 1.      | All India Coordinated Project on <b>Forest Soils of India</b>         | <ul style="list-style-type: none"> <li>● <b>Approved in principle.</b></li> <li>● Prioritized sub-projects to be decided so that part funding could be arranged.</li> <li>● Director to look for external funding</li> <li>● Stakeholders meeting to be completed by 1<sup>st</sup> May 2008</li> <li>● Non ICFRE Institutes to be roped in.</li> <li>● Roles and responsibilities of all the collaborating partners to be indicated.</li> </ul>   |
| 2.      | All India Coordinated Project on <b>Forest Invasive Species (FIS)</b> | <ul style="list-style-type: none"> <li>● <b>Approved in principle.</b></li> <li>● AICPs to be open ended projects but some important sub projects to be time bound.</li> <li>● Director to explore External Funding.</li> <li>● Meeting of stakeholders and collaborating partners to be organised by 01.05.2008.</li> <li>● Non ICFRE R&amp;D organizations to be roped in.</li> <li>● Roles and responsibilities of all the collaborating partners to be decided.</li> <li>● Recast the AICP so that sub-projects are in the order of priority.</li> </ul> |
| 3.      | All India Coordinated Project on <i>Shorea robusta</i> ( <b>Sal</b> ) | <ul style="list-style-type: none"> <li>● <b>Approved in principle.</b></li> <li>● <b>PCCF Uttarakhand agreed for part funding.</b></li> <li>● The SFDs of MP, Chhattisgarh and Jharkhand also to be approached.</li> <li>● Non ICFRE R&amp;D organizations to be roped in.</li> <li>● Stakeholders and collaborating partners to hold a meeting and come out with prioritized sub project-wise action plan by 01.05.2008.</li> <li>● Roles and responsibilities of all the collaborating partners to be decided.</li> </ul>                                  |

|    |  |   |
|----|--|---|
| 4. | All India Coordinated Project on <b>Shisham</b> ( <i>Dalbergia sissoo</i> Roxb.) | <ul style="list-style-type: none"> <li>● <b>Approved in principle.</b></li> <li>● IFP Ranchi failed to contribute and attend discussions on the All India Coordinated Project which was noted with displeasure.</li> <li>● The stakeholders and collaborating partners including non ICFRE R&amp;D organizations to meet and come out with prioritized sub project-wise action plan by 01.05.2008.</li> <li>● Director FRI may explore the possibility of external funding.</li> <li>● <b>Role of ecology in disease cannot be underestimated and therefore a team of Scientists from Ecology Division shall be included.</b></li> </ul>              |
| 5. | All India Coordinated Project on <b>Lesser Known Tree Species (LKTS)</b>         | <ul style="list-style-type: none"> <li>● <b>Approved in principle.</b></li> <li>● The list of LKTS selected should be once again discussed with stakeholders and collaborating partners.</li> <li>● Non ICFRE R&amp;D organizations to be roped in.</li> <li>● Sub projects in the order of priority shall be decided by 01.05.2008.</li> <li>● Director FRI to explore the possibility of external funding.</li> </ul>   |
| 6. | All India Coordinated Project on <b>Preservation Plots</b>                       | <ul style="list-style-type: none"> <li>● <b>Approved in principle.</b></li> <li>● Experts and research components of other IC FRE Institutes not included.</li> <li>● All ICFRE Institutes and Non ICFRE R&amp;D organizations shall be roped in.</li> <li>● <b>Regarding the maintenance of preservation plots, State Forest Departments need to contribute.</b></li> <li>● Roles and responsibilities of all the collaborators should be well defined.</li> <li>● <b>Preservation Plots representing one or other forest types must be selected on priority.</b></li> <li>● Only willing states with PPs will be invited to participate.</li> </ul> |
| 7. | All India Coordinated Project on <b>Poplar</b>                                   | <ul style="list-style-type: none"> <li>● <b>Approved in principle.</b></li> <li>● Revised AICP with prioritized sub-projects and with roles and responsibilities of collaborating organizations should be submitted by 01.05.2008.</li> <li>● Non ICFRE R&amp;D organizations to be roped-in.</li> <li>● Director FRI to explore for external funding.</li> </ul>   |

**Annexure - V**

**NEW PROJECTS: FINAL POSITION AT A GLANCE**

| Sl. No. | Name of the Institute                                    | Placed before RPC | Not approved | Approved             |                      |                   |                                  |
|---------|--|-------------------|--------------|----------------------|----------------------|-------------------|----------------------------------|
|         |  |                   |              | For External Funding | Without modification | With modification | To be re-submitted by 20.03.2008 |
| 1       | Institute of Wood Science & Technology, Bangalore        | 19                | 3            | 1                    | 4                    | -                 | 11                               |
| 2       | Himayalan Forest Research Institute, Shimla              | 7                 | -            | 1                    | 3                    | 1                 | 2                                |
| 3       | Rain Forest Research Institute, Jorhat                   | 7                 | -            | -                    | 4                    | -                 | 3                                |
| 4       | Institute of Forest Genetics & Tree Breeding, Coimbatore | 20                | 5            | -                    | 6                    | 8                 | 1                                |
| 5       | Institute of Forest Productivity, Ranchi                 | 9                 | 1            | 2                    | 3                    | 1                 | 2                                |
| 6       | Arid Forest Research Institute, Jodhpur                  | 4                 | 1            | 1                    | -                    | -                 | 2                                |
| 7       | Tropical Forest Research Institute, Jabalpur             | 5                 | -            | 1                    | 1                    | -                 | 3                                |
| 8       | Forest Research Institute, Dehradun                      | 29                | -            | 2                    | 8                    | 14                | 5                                |
|         | <b>Total</b>   | <b>100</b>        | <b>10</b>    | <b>8</b>             | <b>29</b>            | <b>24</b>         | <b>29</b>                        |



