

**PROCEEDINGS (22<sup>th</sup> -24<sup>th</sup> February 2010)**  
**XI RESEARCH POLICY**  
**COMMITTEE MEETING-2010**



**Directorate of  
Research  
Indian Council of  
Forestry Research and  
Education,  
P.O. New Forest,  
Dehra Dun – 248006**

## Preface

ICFRE's Research Planning Process is a bottom up, transparent and participatory approach documented in the “**Methodology for Setting Research Priorities for ICFRE**” by equitable participation of all groups of research end users, researchers and research managers, envisaged through stakeholders meet, Research Advisory Group (RAG) at regional level and RPC at national level. RAG at each institute level is advisory in nature and new research proposals are prioritized by “weighted criteria method”. Each Project is given an index score by the RAG members at each institute and average index score is calculated. RPC gives final approval to the research project balancing the regional and national perspectives.

Research Policy Committee (RPC) is the apex body at the Indian Council of Forestry Research and Education, Dehradun that prioritize the ICFRE funded research projects of eight research institutes and four research centers of ICFRE, located in different geographical area of the country. Research Policy committee gives final approval to the research projects ensuring balance among international, national, regional and state research requirements and decide investment in high quality forestry research. RPC has composite composition of research managers, research users and researchers. RPC meets once in a year to approve new research projects in ICFRE Institutes.

XI RPC Meeting was held from 22<sup>nd</sup> to 24<sup>th</sup> February, 2010 under the chairmanship of Dr G.S Rawat, Director General ICFRE. Research Planning Division is Thankful to all RPC members who have commendably contributed their valuable suggestions and guidance to research works of the council. Research Planning Division is thankful to DG ICFRE and Sh. Sandeep Tripathi DDG (Research) for their continuous endeavors and encouragements to advance the forestry research projects of ICFRE commensurate with the needs of national forestry objectives as well as the needs of the research end-users involving various stakeholders in ICFRE funded research finalization. Thanks are due to Directors and Group Coordinators of respective ICFRE Institutes for bringing in the various multi-stakeholders and forestry experts for conducting the stakeholders meet, arranging the subject referees comments, holding RAG meeting and presenting the RAG approved new research project proposals before XI RPC. We are thankful to the various multi-stakeholders and forestry experts who have commendably contributed their valuable suggestions on these research project preparations.

I would like to thank Dr. Sushma Mahajan, Scientist E, for her significant support in the efforts of Research Planning division ICFRE towards efficient conduct of RPC meet and bring qualitative improvements in the research project prioritization system of ICFRE. I appreciate the efforts of rapporteurs of the meeting. I appreciate the typing and compilation efforts on this document made by Mrs. Manjeet Sharma PS, Shri Pankaj Thapa, UDC, Sh. Yogesh Gairola, RA and Ms Amita Pant, RA and Ms Ruchi Koranga Computer operator working in Directorate of Research ICFRE. Last but not the least, I thank to everyone who has contributed in preparation this document.

We appreciate the efforts of all of the various researchers of the council who have toiled hard to prepare these research projects for RPC 2010 dealing with variety of emerging forestry research problems.

(Ashish Rawat)  
ADG (Research Panning Division)  
Directorate of Research, ICFRE

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# RESEARCH PROJECT PLANNING PRIORITIZATION AND FINALIZATION PROCESS IN ICFRE

**Research planning Division, Directorate of Research, ICFRE:** Research planning (RP) division of ICFRE deals with the planning, Formulation and finalization ICFRE Plan funded forestry research projects. It coordinates the Stakeholder meets, Research Advisory Group (RAG) meetings at each Institute level and research policy committee meeting at National level in ICFRE HQ.



## MONITORING & EVALUATION DIVISION:

M&E division does quarterly review of progress of research works and annual review once each year of each Institute. The annual review deals with reviewing and evaluation of research activities for timely completion & achieving the objectives of research projects. A schedule for annual review is approved by DG, ICFRE. On completion of the annual review of the Institutes, a review report is communicated to Directors for follow up action.

## Thrust areas of research of ICFRE:

The Council in tune with the desired goals of national policies has identified the main priority areas for research that include development of mitigation strategies in forestry sector to reduce and store green house gases; Research on upland watershed management (integrated soil and water conservation to check water scarcity and boost afforestation), on reforestation of degraded lands and problems soils; Research on conservation, protection and sustainable development of existing forests; Increasing productivity of existing forests and future plantations; Research on; improved utilization, including improved recovery and processing of traditional wood and paper products; non – wood forest products, which provide sustenance to the people and supply raw materials to a large number of forests based industries; modern tools, equipment's, techniques and operations for forestation, logging and extraction of forest produce; Research on multipurpose trees in farming systems; Research on cultivation, utilization and marketing of bamboo and rattan; Protection of forest from entomological and pathological problems; Socio-economic research for motivating farmers/land owners to



adopt tree farming and Research on policy strategies and combination of measures desired for enlarging area under forest.

**The Forestry Research Projects, Formulation, Prioritization and Finalization Process in ICFRE:** On the basis of equal weightage of research end users, stakeholders, researchers, and research managers, the ten criteria has been decided in ICFRE with the weights mentioned against them to be used for project prioritization.

S. N	Description	Scaled Weight
1	User's needs (state research problem)	13.7
2	Importance of research theme (priority) of research area	12.7
3	Scientific advancement	12.3
4	Scientific leadership to ICFRE	11.3
5	Bio diversity conservation	10.0
6	Sustainable forest development	9.3
7	Economic benefit (increase in productivity)	8.8
8	Linking people with forestry	8.4
9	Improvement in environment quality	7.8
10	Poverty alleviation (creation of employment opportunity)	5.7
	<b>Total</b>	<b>100.0</b>

**i) Stakeholders Consultations:** The stakeholders meet in consultation with the State Forest departments are organized in the respective jurisdiction of the Institute ; with a view to adequately facilitate incorporation of the inputs of different stakeholders on identified research problem, a meaningful and continuous exchange of research information, and the project implementation. Main Feature to be considered for holding of the annual stakeholders meet are the Invitation to prominent participants meaningfully representing the realistic spectrum of stakeholders of forestry research is envisaged. Presentation are made in the stakeholders meet to create awareness among the stakeholders of the scientific achievements and the utility of the ongoing research projects of relevance of SFDs or other stakeholders and of the essence of Projects completed giving major research outcome/highlights of relevance to the stakeholder and the proposed research projects to be undertaken in future. And the Proceedings of stakeholders meet are to be uploaded on the Institute / ICFRE website for sharing.

**ii) Project Concept Note Formulation:** Director issues timelines every year by April communicating thrust areas or policy on research to HoD for preparing Project concept note & thereafter the detailed research proposals for RAG meeting. Principal investigator (PI) prepares the project concept note with Introduction; Idea & Objectives; Broad outcomes;

financial outlay and in accordance with pre-determined thrust areas of NFRP (National Forest Research Plan) and Instructions of ICFRE. It is based on discussion with stakeholders, based on Research Needs of the Region, and literature survey. Suggestions in stakeholders' meet and in in-house meet are incorporated.

- iii) Research Project Proposal:** PI prepares detailed project proposal on approved Project concept by 30th Sept. Research Projects are categorized into 'Research Projects' and 'Research & Extension Projects'. HOD recommends proposals to GCR who after appraisal submit it to Director. Simultaneously, proposal is sent for peer review (2 subject experts/referees). After that it is reviewed and cleared by Director by 31st Oct.
- iv) Peer review of new Research Project:** The research Planning in ICFRE has also initiated seeking subject specific expert comments from peer group (subject referees) on each new research project proposal and the expert comments are placed in RAG meeting for the consideration of RAG expert members. Each project proposal is to be vetted by two subject experts/referees who have a blend of prominence in the concerned subject along with demonstrated applied understanding of the regional/national research utility needs of the society.
- v) Research Advisory Group (RAG) :** For each of the eight ICFRE institute spread all over the country and having research work jurisdiction over respective states and union territories of India; Director General ICFRE, in consultation with Director of the Institute approves Research Advisory Group (RAG) for each institute, which have the regional distinctiveness with the regional representation of a composite group of research-end users/ stakeholders, researchers, scientists and research managers. RAG provide directions in the forestry research of the institute within overall frame work of research priorities set by ICFRE and also formulate and review five years research plan on rolling basis. The RAGs of the institutes are held annually in the month of November and December. The subject area experts of national/international eminence are invited. Research Advisory Groups have been made broader by including PCCFs of the concerned states as chairman on rotation basis from the states under the jurisdiction of the institute. Other members of the RAG include different strata of scientists, a range of forest officials, diverse stakeholder's viz. NGOs, industries, progressive farmers and Universities.
- vi) Research Policy committee (RPC):** Research planning division organizes the annual RPC meeting at ICFRE HQ under the chairmanship of Director General, ICFRE. RPC is an Apex advisory body at national level to give the policy directions, bring in innovation and prioritize investment in relevant and high quality forestry research. External national level expert members of RPC include representative of Planning commission, MoEF, sister research organizations, ICAR, universities, NGO, progressive farmer and people working on community forest management. All the DDGs, Director (Research) and Directors of the ICFRE institutes are the members of the RPC. The new research proposals recommended by the RAGs of respective eight Research Institutes of ICFRE are placed in the RPC annual meeting to give final approval to the new research proposals submitted by the eight research institutes. The RPC meet is mostly convened in February every year.

### **Mandate of the research policy (RPC)**

- RPC provide policy directions to research, bring in innovation in research, and decide investment in high quality forestry research, to provide research leadership and make ICFRE a model research organization with international leadership in forestry research.
- RPC will finalize and review the five-year Research Plan of the ICFRE and its Institutes.
- RPC will approve Annual Research Plan, Research Projects and Programmes of the ICFRE and its institutes on the basis of the recommendation 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 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.

## Proceedings of the XI Research Policy Committee Meeting 22<sup>nd</sup> to 24<sup>th</sup> February 2010 at ICFRE Board Room, Dehradun

XI RPC Meeting was held in the Board Room of ICFRE Headquarters from 22<sup>nd</sup> to 24<sup>th</sup> February 2010 under the chairmanship of Dr. G.S. Rawat, Director General, ICFRE. List of participants is at **Annexure I**.

At the outset, Shri Sandeep Tripathi, DDG Research, the member secretary of RPC welcomed the Research Policy Committee (RPC) members. Shri Tripathi outlined the mandate of RPC and role of the members towards achieving this mandate. He gave a brief introduction about the preparation and approval of research projects in the council and need to make the projects more responsive to different stakeholders need. He also briefed them about the proposed New Research Projects, Ongoing Projects and All India Coordinated Projects (AICP) and about projects placed before last five years RPCs. He also apprised the members about new research initiatives like introduction of “Guidelines for testing and releasing of tree varieties and clones” prepared for holding the stakeholders meet in each state.

Shri Ashish Rawat, ADG (Research Planning) briefed the RPC members about research project planning, formulation and finalization process adopted in ICFRE. He made a brief presentation on the Forestry Research Projects, Formulation, Prioritization and Finalization Process in the council right from the inception stage of the project in the institute, modifications in the project proposals by the principal investigators as per the suggestions of various stakeholders like SFDs, NGOs, farmers, representatives of the industries and later put for approval of the Research Advisory

Groups of respective institutes. He briefed the members about the functions of RPC, concept of



rolling plan and apprised the members that new research projects proposals would be presented on Index score basis as per the weighted criteria method adopted by ICFRE.



DG ICFRE in his opening remarks informed the members about the importance of RPC and its inputs in giving direction to forestry research of ICFRE. He also briefed the members about the utility of forestry research of ICFRE to various stakeholders and common people. He also emphasized the need of environmental services and the requirement of research projects on this theme. DG ICFRE also informed the members about the initiation of obtaining referees' comments on the respective projects from this year.

It was followed up by the presentation by the Institutes on their research projects. During presentation of the respective institute, concerned scientists of the institute were available through video conferencing and wherever clarifications were required, same were provided by the scientists.

A total no. of 53 ongoing projects of different institutes / centres deliberated in the RPC were granted extension. Further, 170 new proposed projects and 27 projects of institute + 2 AICP + 2 projects of ICFRE was directly placed before the RPC. After detailed deliberation,



RPC approved 113 projects, (99 recommended by RAG + 14 Direct), and 29 no. of projects for revision and resubmission by 15<sup>th</sup> March 2010. RPC also approved 2 No. of All India Coordinated Projects and 2 Projects of ICFRE.

All the RPC members gave their valuable suggestions for improvement of the research projects. The house authorized the chairman to approve the projects where amendments were recommended by RPC and further to take final decision as per the RPC

recommendations in respect of the amended projects. Salient comments of the RPC members on a general policy to be adopted in formulation and implementation of research projects and the extension of research activities are summarized below:

- A broad categorization of projects on the basis of say,
  - pure research to advance science
  - socially relevant research
  - research benefitting corporate sector

may be made to know the number of each projects and budgetary allocations to track distribution and changes.

- Reports on progress of ongoing projects or projects completed giving the short term and long term results achieved may be widely circulated electronically preferably on website of Institute and ICFRE for feedback, discussions.



- The RAG and RPC project presentations can begin with a slide indicating the main thrust area of research being tackled with and utility of the research Project and the ranking given to the project on each.
- Greater engagement with industry through industry associations like CII, FICCI, PHDCC etc and ICFRE Institutes may interact with their members who use wood and wood derivatives as their raw material.
- Partnerships with user organizations and with their contribution – financial or non financial- clearly spelt out and commitments obtained from them may be made available for viewing on websites of the Institute.
- Brainstorming on relevant and useful areas of research in stakeholder meetings called at the level of individual institutes.
- Greater and more active engagement as well as coordination with institutions and organizations engaged in watershed development, natural resource management, agro forestry, afforestation, silvipasture development etc. to avoid duplication and go for new and more meaningful areas in research. Involvements of SFDs, NGOs and other stakeholders should be ensured for extension activities of the research findings.
- Since forestry research is a long term, therefore, the project duration except for Tree Improvement Projects, may be considered to be kept for a minimum of 5 years with a provision of second phase of 2-3 years depending on the progress and achievements.
- For all Tree Improvement programmes a complete road map for 15-20 years may be prepared after through discussion and soliciting opinion of the experts in the field. Accordingly sub-projects may be approved through phasing. Development of package and practices for tree improvement in case of forestry tree species is quite difficult within a short duration of time so such type of project proposals should be framed for longer time.
- The projects be sent for review by at least two eminent referees who are eminent in the field. The referee should submit a comprehensive review and recommendations for the proposal in descriptive form.
- At least 5 per cent of the Plan budget should be earmarked for activities such as development of databases, repair/upkeep of museums, extension activities and any other activity which is required for R&D. More funds should be reserved for intensive extension activities of the research findings.
- ICFRE should initiate All India Coordinated Project (AICP) for addressing the strategic research issues. There is lot of funding available for climate change research by Govt. of India and ICFRE Institutes must compete for this project funding for its research projects on climate change research. The AICP may encompass, ICFRE institutes, FRCs, State Agricultural Universities. The time tested mechanism of ICAR's All India Coordinated Research Projects (AICRP) may serve as role model.
- Institutes may explore the possibility for funding the project proposals on Environmental Impact Assessment of the areas falling under any construction projects from the concerned Department/ Firm/Company as EIA/EMP studies are mandatory for such type of projects before initiation of the works instead of submitting such type of project proposal from ICFRE for approval.
- It is a good initiative that a data base is being prepared for all the research projects conducted by the ICFRE after 1990's. Once it is available online, it will help the researcher in literature review and will avoid duplication. Efforts should be made to upgrade the same.

- Micro-propagation techniques are not advisable for mass propagation for those species where other means of vegetative propagation techniques for mass multiplication could be developed easily. Micro-propagation techniques should be mainly focused for conservation of such threatened taxa where other propagation methods are quite difficult to develop.
  - Duplication of research works must be avoided.
  - Quality of training methodologies and materials for stakeholders under the project must be ensured by the concerned institutes.

The decisions of RPC for ongoing research projects are at **Annexure -II**. The decisions of RPC for new research projects discussed during XI- RPC is at **Annexure- III** and the decisions of RPC All India Coordinated Projects (AICP) is at **Annexure- IV** and the abstract of new research projects along with the budgetary details of **approved projects or projects needing modification as per advice of XI RPC** is at **Annexure-V** (*Final budgetary figures would come only after projects are revised*).

The XI RPC meeting ended with vote of thanks by DDG (Research) Shri Sandeep Tripathi.

**XI RESEARCH POLICY COMMITTEE  
(RPC) MEETING OF ICFRE**

**Date - 22<sup>nd</sup>, 23<sup>rd</sup> and 24<sup>th</sup> February 2010**  
**Venue- Board Room, ICFRE, Dehradun**

**22.02.2010**

09.00 - 09.20 Introduction by DDG (R)

09.20 - 09.40 Presentation by ADG (RP)

09.40- 10.00 Remarks by DG, ICFRE

10.00 - 13.30 Presentation by ICFRE Institute Directors and Discussion on

- Ongoing Research Projects (Progress)
- Prioritized RAG approved New Research Projects & direct projects

**1. Institute of Forest Genetics & Tree Breeding, Coimbatore (37 RAG approved and 2 plus 2 AICP direct projects)**

13.30 - 14.30 LUNCH

14.30 - 17.30 Presentation and discussion continues-

**Institute of Forest Genetics & Tree Breeding, Coimbatore – Contd.**

**2. Arid Forest Research Institute, Jodhpur (11 RAG approved plus 2 direct projects)**

**3. Himalayan Forest Research Institute, Shimla (4 Projects)**

**4. Tropical Forest Research Institute, Jabalpur (18 RAG approved +10 direct projects)**

**23.02.2010**

09.00 - 13.30 Presentation and discussion continues-

**5. Institute of Wood Science & Technology, Bangalore**

**(14 RAG approved plus 7 direct projects)**

**6. Rain Forest Research Institute, Jorhat (10 RAG approved plus 4 direct projects)**

**7. Institute of Forest Productivity, Ranchi (11 Projects)**

13.30 - 14.30 LUNCH

14.30 - 17.30 **8. Forest Research Institute, Dehradun (65 Projects)**

**24.02.2009**

09.00 - 13.30 **Forest Research Institute, Dehradun (65 Projects) contd..  
ICFRE HQ Projects (2 Projects)**

- Presentation by ICFRE Institute Directors and Discussion on
- Ongoing Research Projects (Progress) and Prioritized New Research Projects

13.30 - 14.30 LUNCH

14.30 - 16.30 *Discussion with Directors about research workload, research thrust areas , stakeholder meet , VVKs, national trials of IFGTB released variety of Eucalyptus & Casuarina and other research issues.*

16.30 - 17.30 Wrap up and concluding session

Concluding remarks by DG / DDG (R)

**PARTICIPANTS OF XI RESEARCH POLICY COMMITTEE  
(RPC) MEETING HELD AT ICFRE H.Q. DEHRADUN  
22<sup>nd</sup>, 23<sup>rd</sup> & 24<sup>th</sup> February 2010  
RPC MEMBERS**

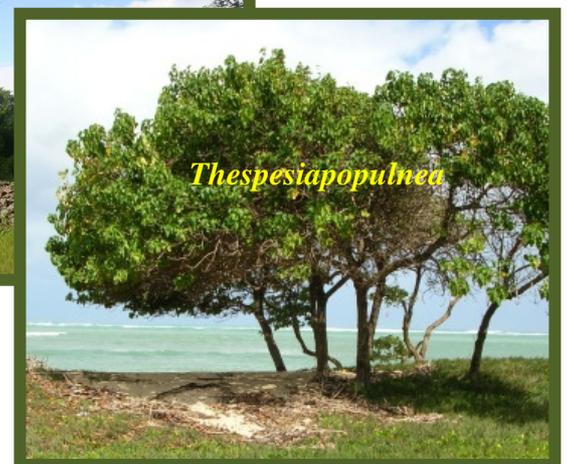
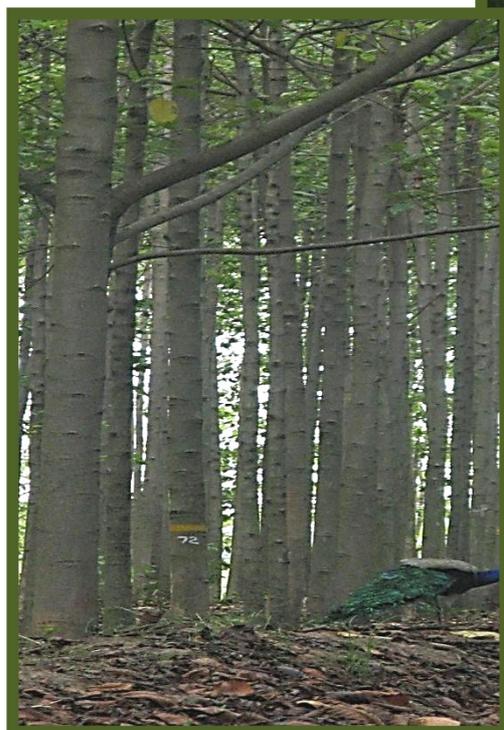
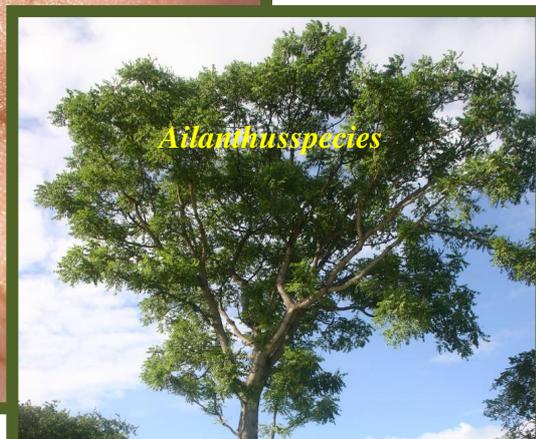
1.	Dr.G.S. Rawat	DG, ICFRE, Chairman
2.	Sh. Sandeep Tripathi	Director (Research) & DDG (R), ICFRE
3.	Shri Omkar Singh	DDG (Education), ICFRE, Dehra Dun
4.	Shri M.S. Garbyal	DDG(Administration), ICFRE, Dehra Dun
5.	Dr. Rabindra Kumar	DDG (Extension), ICFRE, Dehra Dun
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7.	Dr. T.S. Rathore	Director, AFRI, Jodhpur
8.	Sh. Mohinder Pal	Director, HFRI Shimla
9.	Sh. S.C. Joshi	Director, IWST, Bangalore
10.	Dr. N. Krishna Kumar	Director, IFGTB, Coimbatore
11.	Dr. N.K. Vasu	Director, RFRI, Jorhat
12.	Dr. A.K. Mandal	Director, TFRI, Jabalpur
13.	Sh. R. Krishnamurth	Director, IFP, Ranchi
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48	Dr. Kishen Kumar	Scientist E, FRI
49	Dr. Shamila Kalia	Scientist E, FRI
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60	Sh. B.P. Tamta	Scientist C, FRI
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62	Dr. Promod Kumar	Scientist B, FRI
63	Sh. Jawaid Ashraf	Scientist B, FRI
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69	Dr. B.M. Dimri	Scientist B, ICFRE
70	Dr. Devendra Kumar	Research Officer, ICFRE
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2	Dr. Anil Negi	Scientist B, ICFRE
3	Dr. S.K. Sharma	Scientist B, ICFRE
4	Dr. Om Kumar	Scientist B, ICFRE
5	Dr. A.N. Singh	Scientist B, ICFRE
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3	Sh. Yogesh Gairola	Research Associate-BTSG
4	Ms. Amita Pant	Research Associate-BTSG
5	Sh. PankajThapa	UDC to ADG (RP)
6	Ms. Ruchi	Data Entry Operator-DDR

Annexure – II

**ONGOING PROJECTS**



**Institute of Forest Genetics and Tree Breeding Coimbatore**

S N	Title of the project	Name of the PI	Decision of RPC
1	Association analysis of adventitious rooting traits using STS markers in <i>Eucalyptus tereticornis</i> and DNA profiling of <i>Eucalyptus</i> clones	Dr. R. Yasodha	Extension granted up to March 2011 without any extra budget.
2.	Quantitative Trait Loci (QTL) mapping in Eucalypts for salinity tolerance and adventitious rooting.	Dr. R. Yasodha	<ul style="list-style-type: none"> <li>• Extension granted for two years without any additional budget.</li> <li>• Modification in action plan for studying salinity tolerance was also accepted.</li> </ul>
3.	Assessment of population structure using SSRs and molecular characterization using RAPD in <i>Casuarina</i> species	Dr. D. Thangamani	<ul style="list-style-type: none"> <li>• Extension granted up to March 2011 without any additional budget.</li> </ul>
4.	Studies on response of important tree species to elevated CO <sub>2</sub> levels at seedling stage	Dr. C. Buvanewara n	<ul style="list-style-type: none"> <li>• Extension granted up to March 2011 without any additional budget.</li> </ul>
5.	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	Dr. A. Balu	<ul style="list-style-type: none"> <li>• Extension granted up to March 2011 without any additional budget.</li> </ul>

**Arid Forest Research Institute, Jodhpur**

S N	Title of the project	Name of the PI	Decision of RPC
1	Efficacy and economics of water harvesting devices in controlling run-off losses and enhancing biomass productivity in Aravalli ranges (Initially funded by State Forest Department, Rajasthan).	Dr. G. Singh	<ul style="list-style-type: none"> <li>Extension granted up to March 2011 with an additional budget of Rs.0.80 Lakh.</li> </ul>
			
2.	In vitro mass propagation of <i>Jatropha curcas</i> L. and optimization of low cost options for Economizing the technology.	Dr. Tarun Kant	<ul style="list-style-type: none"> <li>Extension granted up to March 2011 with an additional budget of Rs. 1.00 Lakh.</li> </ul>

Himalayan Forest Research Institute, Shimla

S N	Title of the project	Name of the PI	Decision of RPC
1	Identification of superior chemotypes and <i>ex-situ</i> conservation of <i>Podophyllum hexandrum</i> Royle form Himachal Pradesh and Jammu & Kashmir (Nubra Valley)	Dr. Jagdish Singh Scientist – D	<p>Species is not found in Nubra valley. PI wants to include Ladakh valley in the study area.</p> <p>There is genuine constraints that the chemical analysis facility in not in place at HFRI</p> <p>Modified title is proposed as: Identification of superior chemotypes and <i>ex-situ</i> conservation of <i>Podophyllum hexandrum</i> Royle form Himachal Pradesh and Jammu &amp; Kashmir (Laddakh)</p> <p><b>Approved</b></p>
2	Ecological Assessment of Floristic Diversity in Kalatop Khajjiar Wildlife Sanctuary of District Chamba, H.P.	Dr. R.K. Verma Scientist – E	 <p>The project period is three years i.e. 2008-2011. Survey work and phyto-sociological studies for two years has already been completed and in order to generate time scale data relevant for climate change, some fixed plots to be laid out in representative areas and then record all relevant information. For this purpose extension of the project for one more year beyond 2011 may be required. The additional budget of Rs 1.25 lakh is also required to complete the activities in the extended phase of the project.</p> <p><b>Approved</b></p>

ONGOING PROJECTS

3	Studies on the Impact of Ban on Green Felling in Deodar, Kail, Fir and Spruce Forests of Utrakhand and Himachal Pradesh.	Shri R.P. Singh	<p>Proposed activities under the project to be taken up independently/separately in the state of Himachal Pradesh.  Methodology to be adopted by HFRI, Shimla will however, remain the same.  Discussions and pooling up of the data to continue from time to time.  Separate allocation to be made to the institute. The budget earmarked for HFRI (Rs. 10.42 lakh) be directly given to HFRI as there is no mechanism for transfer of budget from FRI  Extension of one more year beyond March, 2011.  <b>Approved</b></p> 
4	Management of Insect Pests and Pathogens of Cone & Seeds of Chilgoza pines.	Dr. Pawan Kumar	<p>RPC (2008) suggested to restrict on the survey part during 1<sup>st</sup> two years for the initially proposed 5 years project proposal. The new proposal is now kept in RPC 2010 for inclusion in the rolling plan  <b>Approved.</b></p>

**Tropical Forest Research Institute, Jabalpur**

S N	Title of the project	Name of the PI	Decision of RPC
1	Sustainable management of medicinal plants in JFM areas in different agro-climatic zones of M.P	Dr. S.D. Sonkar Scientist – F	<p>During RAG Dec., 2009 Honourable Chairman and RAG members had been requested to delete the following objectives from the original project documents as it was not possible to achieve these objectives within the sanctioned project period.</p> <p><b>Long term</b>            2- Checking land degradation, deforestation and loss of biodiversity.            3 - Ecological restoration, environmental conservation and eco-development.            4- Capability endowment and skill enhancement for improving employ ability of rural people.</p> <p><b>Short Term</b>            3- To secure peoples participation in regeneration / management / development of forests.</p> <p><b>Approved.</b></p>
2	Determination of polysaccharides for the development of bioproducts.	Mrs. Neelu Singh Scientist – D	<p>Two equipments (Viscometer and Hydraulic Press) sanctioned for purchase with budget allotment of Rs. 5.00 lakh.</p> <p>Viscometer costing Rs. 3.5 lakh has been finalized and purchase order being placed.</p> <p>Hydraulic press could not be finalized due to shortage of fund as well as due to wide variation in price quoted by different firms.</p> <p>Rs. 1.5 lakh is remaining. An additional Rs. 2.5 lakh is requested for purchase of Hydraulic Press.</p> <p><b>Approved</b></p>

**Institute of Wood Science & Technology, Bangalore**

S N	Title of the project	Name of the PI	Decision of RPC
1	Studies on influence of microwave treatment on drying characteristics and treatability of wood	Dr. Pankaj K. Aggarwal Scientist – E	Original cost of the project: Rs. 3.60 lakh Revised cost of the project: RS. 4.20 lakh (due to increase in equipment cost from 1.50 lakh to Rs. 2.20 lakh and adjustment in first year less expenditure of Rs. 44,000 in FRE and Contingency and second year enhancement of Rs. 2,000) <b>Approved</b>
2	Study on Morphology and Properties of Natural Fiber Filled Polypropylene Composites	Dr. Pankaj K. Aggarwal Scientist – E	Enhancement of total outlay of the project from Rs 23.15 lakhs to Rs.27.69 lakhs. <b>Approved</b>
3	Laboratory testing for the assessment of the durability of timbers against powder post beetles – standardization and evaluation	Dr. O.K. Remadevi Scientist – F	Extension for 1 year and additional budget of 0.40 lakhs. <b>Approved</b>
4	Study on utilization aspects of plantation grown <i>Acacia mangium</i> Willd, from Orissa	Mr. P. Kumar Scientist – C	A budget of Rs. 1 lakh is required for extension activities for popularizing the use of <i>Acacia mangium</i> species with 1 year extension. <b>Approved</b>
5	Seed predation by insects among the emergent rainforest canopies at Makutta, Western Ghats	Dr. Y.B. Srinivasa Scientist – D	Extension by one year is requested without any additional financial burden <b>Approved</b>
6	Development of Commercial Timber Information System (CTIS).		Modified Title: Development of Commercial Timber Information System (CTIS) for Southern India. <b>Approved</b>
7	Studies on the permeability of selected imported timbers marketed in Karnataka		RAG has approved the change the budget proposal from Rs.1.5 lakh to Rs. 0.45 lakh The reduction in budget is because the experimental timbers have been procured at cheaper rate. The glassware and some of the chemicals were made available from the balance left out of the previous experiment. Hence, this submission. <b>Approved</b>

## ONGOING PROJECTS

8	Genetic Improvement of <i>Melia azedarach</i> L., and <i>Melia dubia</i> CAV. EX. M. ROEM., through plus tree selection, assessment of the genetic variability and progeny trial establishment (Phase – I)	Dr. GRS Reddy	<ul style="list-style-type: none"> <li>• RAG has approved change of location for progeny trial from IWST, Bangalore to FRC, Hyderabad on account of transfer of PI Sri Nainamalai to FRC, Hyderabad.</li> <li>• RAG has approved establishment of an additional progeny trial at Bangalore with an additional budget of Rs. 1.08 Lakhs.</li> <li>• RAG has approved Dr. GRS Reddy , Scientist, F, as new PI since the original PI Sri Nainamalai has resigned.</li> <li>• RAG has approved inclusion of Dr. S. Pattanaik, Scientist D, as an additional associate.</li> </ul> <p><b>Approved</b></p>
9	DEVELOPMENT of agroforestry models in <i>Wrightia tinctoria</i> R.BR. and <i>Gmelina arborea</i> ROXB., as tree species in semi arid tropics of Andhra Pradesh.	Mr. M.B. Honnuri	<ul style="list-style-type: none"> <li>• RAG has approved additional budget of Rs.3.61 lakhs. required for one field assistant for the period 2010-14. Modified budget needs approval of RPC.</li> <li>• RAG has approved change of species from <i>Givotia rottleriformis</i> to <i>Wrightia tinctoria</i> that needs approval of RPC.</li> </ul> <p><b>Approved</b></p>

**Rain Forest Research Institute Jorhat**

<b>S N</b>	<b>Title of the project</b>	<b>Name of the PI</b>	<b>Decision of RPC</b>
1	Investigations on ecology of Mimosa invasion in Kaziranga National Park, Assam	Dr. N.K. Vasu	One Field Assistant is proposed to be added without any additional budget implications <b>Approved</b>
2	Assessment of phyto-diversity dynamics for conservation in Jeypore Reserve Forest	Dr. Ranjeet Kumar	An additional budget for Rs. 0.45 lakhs may be approved. The requirement may be met by reappropriating the budget components.
3	In vitro induction of essential oil components in Aquilaria malaccensis	Mr. S. Bordoloi	Extension of 6 months <b>Approved</b>
4	Clonal multiplication of Aquilaria malaccensis Roxb. through in vitro culture including hardening and out planting	Dr. Paponi Sharma	Extension of 6 months <b>Approved</b>
5	Development of an efficient technique for in vitro clonal propagation of superior clones of B. tulda	Mr. S. Bordoloi	Extension of 6 months with 0.25 lakh additional budget <b>Approved</b>
6	Macro and micro propagation of selected germplasm (clones) of Dipterocarpus retusus Bl. Syn D. macrocarpus".	Dr. Paponi Sharma	Extension of 1 year with additional budget of Rs. 1.0 lakhs <b>Approved</b>
7	Evaluation of insecticidal properties of some plant extracts against Heortia vitessoides Moore (Lep: pyralidae), a major pest of Aquilaria malaccensis	Dr. N.D. Borathakur	Extend project duration for 1 Yr with additional budget of Rs. 20 000 under TE and Field research expenses. <b>Approved</b>
8	Carbon sink and fertility status relation of soil under different land use system of some States of NE India	Dr. P.K. Das	One JRF recommended in the project for two (2) years, 2010-11 and 2011-12. Additional budget of Rs. 3.168 lakhs recommended for salary of JRF including HRA [@ Rs. 1.584 lakhs/yr for 2 yrs, 2010-11 and 2011-12; @ Rs. 13,200/- per month]. Travel expenses of the project increased and recommended for the yrs 2010-11 and 2011-12. Additional Budget of Rs. 0.50 lakhs recommended for travel expenses for the two years 2010-11 [Rs. 0.35 lakhs] and 2011-12 [Rs. 0.15 lakhs] for collection of soil samples under different land use from the different States of NE. <b>Approved</b>

**Institute of Forest Productivity, Ranchi**

S N	Title of the project	Name of the PI	Decision of RPC
1	Improvement of Clonal propagation Techniques of Bamboo species and Enhancement in Field Survival	Dr. S. Nath	Re-appropriation of budget <b>Approved</b>
2	Development of Dynamic Database for Forestry Discussion Forum.	Mrs. Ruby S Kujur	Extension upto December 2010 with reappropriation of budget <b>Approved</b>
			
3	Development of low cost technique of enriched vermicompost for commercial production.	Dr. M. V. Durai	Reappropriation of budget <b>Approved</b>

**Forest Research Institute, Dehradun**

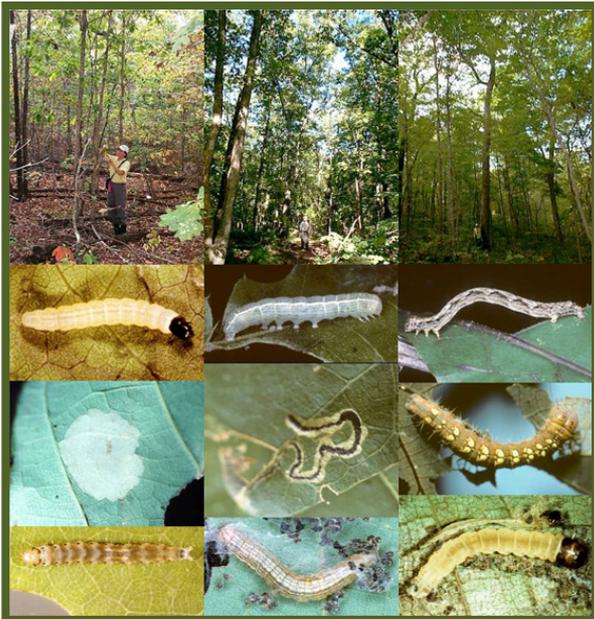
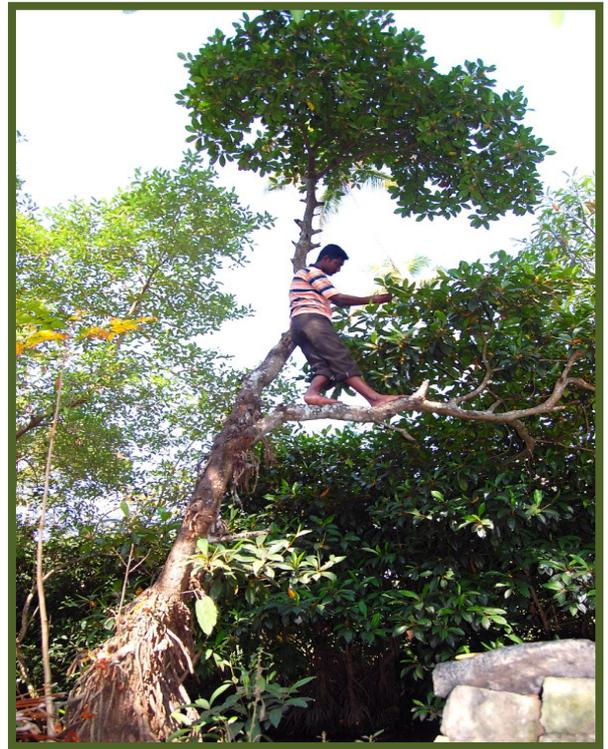
<b>S N</b>	<b>Title of the project</b>	<b>Name of the PI</b>	<b>Decision of RPC</b>
1	Screening and Hybridization of Indian Isolates of <i>Cordyceps sinensis</i> for enhanced production of bioactive principles	Dr. Amit Pandey	RPC approved extension of project period for 01 year without extra budget. <b>Approved</b>
2	Soil Organic Carbon Inventory of Uttarakhand	Dr. M.K. Gupta	RPC approved extension of project period for 01 year, however, within the approved budgetary provision as earlier in 2007. <b>Approved</b>
3	Ecological impact assessment of <i>Lantana</i> invasion, its removal and subsequent restoration of habitats in Rajaji National Park of tropical moist deciduous forest	Dr. H.B. Vasistha, Scientist-D	RPC approved extension of project period for 02 years with additional budgetary support of Rs. 1.96 lakhs. <b>Approved</b>
4	Development of eco-friendly substitutes for nursery poly bags and study their effects on plant growth and environment.	Dr. (Mrs.) P. Soni	RPC agreed to drop the project as per request from PI. <b>Approved</b>
5	Isolation and characterization of phytoecdysteroids from <i>Achyranthes aspera</i> and <i>Achyranthes bidentata</i> and their effect on the economic traits of <i>Bombyx mori</i> L	Dr. Rashmi	RPC approved extension of project period for 01 year for field trial without any additional budgetary support. <b>Approved</b>
6	Biodeinking of waste paper.	Dr. Sanjay Naithani	RPC approved for modification in the objectives of the project. <b>Approved</b>
7	Quality assessment of timbers by using ultrasound and microwaves techniques.	Dr. Y.M. Dubey	RPC approved extension of project period for 06 months without any additional budgetary support. <b>Approved</b>
8	Variability studies on seed quality parameters and seed mycoflora of <i>Bauhinia purpurea</i> , <i>B. semla</i> and <i>B. variegata</i> for their ex-situ conservation	Ms. Manisha Thapliyal	RPC approved engagement of 01 Field Assistant for 03 years with additional budgetary support of Rs. 1.80 lakhs. <b>Approved</b>
9	Bio-ecology and control of oak stem borer, <i>Aprhodisium hardwickianum</i> (white) (Coleoptera: Cerambycidae)	Dr. Arun P. Singh	RPC approved extension of project period for 01 year without any additional budgetary support. <b>Approved</b>
10	Biology and control of bamboo borer, <i>Phloeobius crassicaollis</i> damaging green standing bamboo.	Dr. K.P. Singh	RPC approved extension of project period for 01 year without any additional budgetary support. <b>Approved</b>

11	Development of Deodar ( <i>Cedrus deodara</i> ) and Kail ( <i>Pinus wallichiana</i> ) Information System	<u>Shri Amit Asthana</u>	Engagement of Field Assistant not allowed. <b>Approved</b>
			
12	Digitization & development of software database system for existing pathology herbaria of FRI, Dehradun	<u>Shri Neelesh Yadav</u>	RPC approved engagement of 01 JRF for 06 months. <b>Approved</b>
13	Studies on the <i>Sapindus mukorossi</i> fruits for their utilization	Dr. Vineet Kumar	RPC approved extension of project period for 01 year with additional budgetary support of Rs. 0.60 lakh. <b>Approved</b>
14	Digitization of Herbarium (Dehra Dun Herbarium) of Forest Research Institute	Dr. Veena Chandra	RPC approved extension of project period for 05 years with additional budgetary support of Rs. 8.60 lakhs. <b>Approved</b>
15	Field evaluation of Tissue Culture plants of Eucalyptus hybrids at seven agroclimatic sites.	Dr. Ajay Thakur	RPC approved engagement of 01 Field Assistant with additional budgetary support of Rs. 0.60 lakh for remaining project period <b>Approved</b>

## ONGOING PROJECTS

16	Bio-Remediation of Bauxite Residue (Red Mud) generated from Aluminium industry by using Blue Green Algae/Bio-Inoculants.	Ms. Kumud Dubey	RPC approved engagement of 01 Senior Project Fellow at the place of 01 Field Assistant for 01 year with same budget. <b>Approved</b>
17	Impact on ban on freen felling in deodar, kail, fir and spruce forests of Uttarakhand and Himanchal Pradesh	Deepak Mishra	RPC approved Rs. 1.5 lakh to HFRI, Shimla. <b>Approved</b>
18	Population genetic analysis and characterisation of <i>Cedrus deodara</i> germplasm through DNA based markers.	Dr. Harish Ginwal	RPC approved the re-budgeting of the project in the light of ICFRE one time 100 crores assistance budget. Revised project may be resubmitted to ICFRE for approval. <b>Approved</b>
19	Strengthening of Timber Engineering Museum [ FRI-491/ENGG-02] 1 years (April 2009- March 2010)	Rajesh Bhandari Scientist-D	RPC directed to prepare and submit new project as Phase-II of earlier project by 15 <sup>th</sup> March 2010. <b>Approved</b>
20	Studies on bamboo joints for structural purposes [ FRI-492/ENGG-03] 3 Years (April 2009-March 2012)	Rajesh Bhandari Scientist-D	RPC approved the procurement of UTB Equipment with budgetary support of Rs. 4.0 lakhs. <b>Approved</b>

**NEW RESEARCH PROJECTS**





## Institute of Forest Genetics and Tree Breeding, Coimbatore

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1.	Species recovery using diversity estimate and control pollination in <i>Bruguiera sexangula</i> .	Dr. B. Nagarajan Plant Biotechnology	Plant Biotechnology	2010	2013	14.02	<ul style="list-style-type: none"> <li>Approved with a budget of Rs. 12.00 lakhs.</li> <li>Procurement of marine electrophoresis equipment not allowed as same had already been proposed under EFC.</li> <li>More funds should be reserved for extension activities. Commitment of stakeholders for extension of the research outcome of the project should be ensured.</li> </ul>	Approved with revision.

2.	Tree improvement of <i>Thespesia populnea</i> – A multi-purpose tree Species.	Kannan C.S. Warriar Genetics and Tree Breeding	Genetics and Tree Breeding	2010	2015	32.91	<ul style="list-style-type: none"> <li>It is difficult to develop package and practices for tree improvement in case of forestry tree species within five years as same can be applicable for agricultural crops.</li> <li>Incorporate the proposed project proposal as a part under All India Coordinated Project.</li> </ul>	Dropped
3.	Introduction and evaluation of fast growing tree species under Agroforestry systems in different agro-climatic zones of Tamil Nadu.	S.Saravanan Forestry, Land use and Climate Change	Forestry, Land use and Climate Change	2010	2015	17.95	<ul style="list-style-type: none"> <li>Prioritize the species as it might be difficult to work on all the six proposed species.</li> <li>Number of species should not be more than 3 or 4.</li> <li>Agro-climatic zones should also be reduced to 2 or 3.</li> <li>May include existing plantations done by SFDs in farmers land.</li> <li>Insect-pest control measure must be incorporated in the project.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.
4.	Evaluation of <i>Calophyllum inophyllum</i> populations for high oil yield.	Smt R. Anandalakshmi Seed Technology	Seed Technology	2010	2014	19.00	<ul style="list-style-type: none"> <li>Approved with a budget of Rs. 19.00 lakhs.</li> </ul>	Approved with revision.
5.	Project title: Selection for desirable wood properties in <i>Acacia auriculiformis</i> for short rotation timber production.	Dr. Maheshwar Hegde, Scientist - C Genetics and Tree Breeding	Genetics and Tree Breeding	2010	2015	16.81	<ul style="list-style-type: none"> <li>Approved as a collaborative project of IFGTB and IWST. One Co-Principal Investigator must be from IWST.</li> <li>Role and responsibilities along with budgetary outlay of each collaborative institute must be clearly mentioned in the project proposal.</li> <li>Gist of earlier works done on the species with reference to the project proposal is required to be mentioned.</li> <li>Collaboration can also be made with NBPGR</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.

							and Agroforestry Centre at Tamil Nadu Agriculture University as these organisations have excellent germplasm of the species.	
6.	Selection and Vegetative Propagation of <i>Neolamarkia cadamba</i> (Roxb.) Miq – An alternative species for Pencil, Match Wood and Ply Wood Industries.	Dr. A. Vijayaraghav an Forestry Land Use and Climate Change	Forestry Land Use and Climate Change	2010	2014	24.65	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs. 18.50 lakhs.</li> <li>• Populations of <i>Neolamarkia cadamba</i> from North-Eastern states must also be taken for study as its best populations are in North-East.</li> </ul>	Approved with revision.
7.	Butterfly diversity in relation to landscape changes in the Walayar Valley, at Palakkad Gap in the Western Ghats.	Dr.K.R.Sasidharan Biodiversity	Biodiversity	2010	2013	10.70	<ul style="list-style-type: none"> <li>• Not Approved</li> <li>• Explore the possibility for funding from other sources.</li> </ul>	Dropped
8.	Impact of plantations on ground flora diversity and soil characteristics	Dr.C.Kunhikannan Biodiversity	Biodiversity	2010	2013	20.52	<ul style="list-style-type: none"> <li>• Revise the project title as ‘Impact of forest plantation on ground floral diversity and soil characteristics including the prescription of management practices’.</li> <li>• Revise the objectives of the project by clubbing the objectives no. 2 and 3 into one objective.</li> <li>• Revise the budget accordingly.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.
9.	Chemotyping of <i>Sapindus</i>	Smt R. Anandalaksh	Seed Technology	2010	2013	11.50	<ul style="list-style-type: none"> <li>• Approved with the project duration of 5 years instead of 3 years with change in budget</li> </ul>	Approved with revision.

	<i>emarginatus</i> - A potential NTFP of Tamil Nadu for saponins.	mi Seed Technology					<p>accordingly.</p> <ul style="list-style-type: none"> <li>• Duplication of research works must be avoided.</li> <li>• Himachal Pradesh Agriculture University, Palampur had done excellent works on this species and PI should consult the university.</li> </ul>	
10.	Capacity building among tree farmers for handling large scale <i>Eucalyptus</i> clonal propagation.	V.K.W. Bachpai Plant Biotechnology	Plant Biotechnology	2010	2012	3.00	<ul style="list-style-type: none"> <li>• Approved for the duration of 2 years.</li> <li>• Revise the budgetary part accordingly.</li> <li>• Quality of training methodologies and materials must be ensured.</li> <li>• Training on clonal multiplication of Casuarina also be imparted.</li> </ul>	Approved with revision.
11.	Identification of integrated management methods for the <i>Eucalyptus</i> Gall wasp problem in nurseries.	Dr. John Prasanth Jacob Forest Protection	Forest Protection	2010	2012	2.50	<ul style="list-style-type: none"> <li>• Approved with change in the project title as 'Development of appropriate integrated management methods for the <i>Eucalyptus</i> Gall wasp problem in nurseries'.</li> </ul>	Approved with revision.
12.	Assessment of cellulosic components from wood wastes: Feedstock for Biofuel production.	Dr. N. Senthilkumar, Bioprospecting	Bioprospecting	2010	2013	13.24	<ul style="list-style-type: none"> <li>• Not Approved</li> <li>• P.I./Scientist should submit the project only in the field of their specialization instead of other fields.</li> <li>• Explore the possibility for funding from the Department of Biotechnology, Government of India for funding.</li> </ul>	Dropped
13.	Evaluation of <i>Gmelina arborea</i> Roxb. selections from North Eastern	V.K.W. Bachpai Plant Bio technology	Plant Bio technology	2010	2013	11.38	<ul style="list-style-type: none"> <li>• Approved with the suggestion that entomological component must be included in the project.</li> </ul>	Approved with revision.

	and Southern Regions.							
14.	Evaluation of selected phenotypes of <i>Casuarina</i> for establishment of windbreaks in farmlands.	Dr. C. Buvaneshwaran Forestry Land Use and Climate Change	Forestry Land Use and Climate Change	2010	2013	14.19	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs. 9.15 lakhs.</li> <li>• JRF not allowed.</li> </ul>	Approved with revision.
15.	Developing clonal technology for raising clonal plantation of indigenous species of <i>Ailanthus excelsa</i> and <i>Ailanthus malabarica</i> in Tamilnadu and Kerala.	D. Rajasugunasekar Genetics and Tree Breeding	Genetics and Tree Breeding	2010	2015	29.61	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs.18.68 lakhs.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.
16.	Study on reproductive biology and breeding systems in <i>Ailanthus excelsa</i> and <i>Ailanthus triphysa</i>	D. Rajasugunasekar Genetics and Tree Breeding		2010		10.60	<ul style="list-style-type: none"> <li>• Approved</li> <li>• JRF not allowed.</li> <li>• Reduce the budget accordingly.</li> </ul>	Approved with revision.
17.	Exploration of potential native natural enemies with a special emphasis on microbial biocontrol agents for	Dr. A. Balu Forest Protection	Forest Protection	2010	2013	14.08	<ul style="list-style-type: none"> <li>• JRF not allowed.</li> <li>• Reduce the budget accordingly.</li> </ul>	Approved with revision.

	management of <i>Casuarina</i> hairy caterpillar, <i>Lymantria ampla</i> and <i>Ailanthus</i> defoliators, <i>Eligma narcissus</i> and <i>Atteva fabriciella</i>							
18.	Evaluation and identification of optimal parameters for flowering and fruit set in different Tamarind ( <i>Tamarindus indica</i> L.) orchards.	A. Mayavel Genetics and Tree Breeding	Genetics and Tree Breeding	2010	2013	9.80	<ul style="list-style-type: none"> <li>• Procurement of equipments (Binocular, Digital Camera and GPS) not allowed under the project.</li> <li>• JRF not allowed. Project Assistant is allowed.</li> <li>• Revise the budgetary part of the project by reducing the cost of equipments (digital camera, GPS etc.)</li> </ul>	Approved with revision.
19.	Management of pre and post harvest seed pests and diseases on seeds of fast growing native tree species.	Dr. John Prasanth Jacob Forest Protection	Forest Protection	2010	2013	8.36	<ul style="list-style-type: none"> <li>• JRF not allowed.</li> <li>• Revise the budgetary part of the project by reducing the fellowship of JRF.</li> </ul>	Approved with revision.
20.	Documentation of agroforestry systems and wood flow to wood based industries in Tamil Nadu.	K.Ravichandran Forestry Land Use and Climate Change	Forestry Land Use and Climate Change	2010	2013	10.49	<ul style="list-style-type: none"> <li>• Consultation be made with Forest Survey of India and School of Economics, Chennai regarding the proposed project.</li> </ul>	Approved
21.	Influence of Eucalyptus species on the natural enemies incidence	Dr. John Prasanth Jacob Forest	Forest Protection	2010	2013	17.60	<ul style="list-style-type: none"> <li>• Approved</li> <li>• Economic loss due to gall wasp infection must be estimated.</li> </ul>	Approved with revision.

	on the gall wasp <i>Leptocybe invasa</i> .	Protection					<ul style="list-style-type: none"> <li>Reduce the budget to Rs.13.33 lakhs.</li> </ul>	
22.	Development of inter and intra specific hybrids in <i>Eucalyptus camaldulensis</i> .	Dr.B.Nagaraj an Division of Plant Biotechnology	Division of Plant Biotechnology	2010	2013	14.01	<ul style="list-style-type: none"> <li>Approved with a budget of Rs. 8.00 lakhs only by cutting down expenditure of M&amp;S.</li> <li>One Filed Assistant allowed instead of two Field Assistants.</li> </ul>	Approved with revision.
23.	Selection and evaluation of <i>Casuarina</i> clones for power generation by gasification technology	Mr. A.Mayavel Genetics and Tree Breeding	Genetics and Tree Breeding	2010	2015	21.06	<ul style="list-style-type: none"> <li>Not Approved</li> <li>Explore the possibility for funding from the Department of Biotechnology, Government of India for funding.</li> </ul>	Dropped.
24.	Determination of the target genes through gene-silencing techniques for the management of <i>Leptocybe invasa</i> (Hymenoptera: Eulophidae), an invasive pest in eucalyptus plantations in India.	Dr. Mathish Nambiar-Veetil Plant Biotechnology	Plant Biotechnology	2010	2014	37.47	<ul style="list-style-type: none"> <li>Approved with a budget of Rs. 23.50 lakhs.</li> <li>Reduce the equipment cost, which are included in one time EFC Grant..</li> </ul>	Approved with revision.
25.	Development of Tree DNA Fingerprint database.	R.Vivekanand an Computer	Computer	2010	2013	4.80	<ul style="list-style-type: none"> <li>Approved</li> </ul>	Approved
26.	Influence of beneficial microbes in conferringsalt	Dr. V. Mohan Forest Protection	Forest Protection	2010	2015	18.00	<ul style="list-style-type: none"> <li>Approved with a budget of Rs. 6.00 lakhs for the period of 3 years only.</li> </ul>	Approved with revision.

	tolerance to <i>Casuarina</i> clones							
27.	Development of a GIS based information system for <i>Casuarina</i> and <i>Eucalyptus</i> species.	R.Vivekanandan Computer	Computer	2010	2013	22.60	<ul style="list-style-type: none"> <li>• Not Approved.</li> <li>• May be taken as a routine activity out of available grant.</li> </ul>	Dropped.
28.	Evaluation of certain forest flora based on ethnobotanical records for their pesticidal properties against important forestry insect pests.	Dr. N. Senthilkumar Bioprospecting	Bioprospecting	2010	2013	15.80	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs. 8.00 lakhs.</li> <li>• Reduce the budget under office expenses component.</li> </ul>	Approved with revision.
29.	Studies on oil: chemical composition, antifeedant, insecticidal and antifungal activities of tree born oil seeds.	Dr. S. Murugesan Bioprospecting	Bioprospecting	2010	2013	17.02	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs. 10.00 lakhs by cutting expenditure on O.E.</li> <li>•</li> </ul>	Approved with revision.
30.	Introduction and evaluation of match wood species of Andamans in the high rainfall zone of Tamil Nadu and Kerala for growth and yield.	J.M.Shujauddin Forestry, Land Use and Climate Change	Forestry, Land Use and Climate Change	2010	2013	11.99	<ul style="list-style-type: none"> <li>• Not Approved</li> <li>• Explore the possibility for funding from the SFDs.</li> </ul>	Dropped.
31.	Study of genetic variation in	Dr. Maheshwar	Genetics and Tree Breeding	2010	2015	23.19	<ul style="list-style-type: none"> <li>• Approved for Rs.11.00 lakhs.</li> <li>• Approved with collaboration with IWST.</li> </ul>	Approved with revision.

	<i>Pterocarpus santalinus</i> in Tamil Nadu for growth and heartwood content	Hegde, Genetics and Tree Breeding						
32.	Selection and evaluation of Teak for low rain fall areas of Tamil Nadu	Dr. K. Palanisamy Division of Seed Technology	Division of Seed Technology	2010	2015	16.81	<ul style="list-style-type: none"> <li>• Not Approved</li> </ul>	Dropped.
33.	Studies on Essential Oils: Chemical constituents and toxicity assessment of the Leaf oil of <i>Lantana camara</i> from Tamil Nadu.	Dr. S. Murugesan Bioprospecting	Bioprospecting	2010	2013	17.44	<ul style="list-style-type: none"> <li>• Approved for budget of Rs.9.25 lakhs.</li> </ul>	Approved with revision.
34.	Quality assessment of selected fodder trees and climbers: Nutritional and Antinutritional Factors	Dr. S. Murugesan Bioprospecting	Bioprospecting	2010	2013	21.80	<ul style="list-style-type: none"> <li>• Not Approved as lot of works had already been done by ICAR and other institutes of ICFRE.</li> </ul>	Dropped.
35.	Biotransformation of some secondary metabolites by sporulate surface cultures of <i>Frankia</i> strains for nodulation capacity in <i>C. equisetifolia</i> and <i>C. junhuhinana</i> .	Dr. S. Murugesan Bioprospecting	Bioprospecting	2010	2013	15.92	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs. 6.00 lakhs.</li> <li>• One skilled worker allowed.</li> </ul>	Approved with revision.

36.	Molecular analysis for population differentiation and mating system in <i>Acacia auriculiformis</i> using dominant and codominant marker	Dr. A. Shanthi Plant Biotechnology	Plant Biotechnology	2010	2013	12.00	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs.8.00 lakhs.</li> <li>• Procurement of equipment (PCR) not allowed under the project.</li> </ul>	Approved with revision.
37.	Studies on orthopteran insect pests of forestry importance	Dr. N. Senthilkumar Bioprospecting	Bioprospecting	2010	2013	17.59	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs. 8.00 lakhs.</li> <li>• JRF not allowed.</li> <li>• One skilled worker allowed.</li> </ul>	Approved with revision.

**SUMMARY:****Total Projects:37****Approved with revision: 23****Rejected/Dropped: 08****Approved: 02****Revise and Resubmit by 15<sup>th</sup> March 2010:04**



## Arid Forest Research Institute, Jodhpur

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1.	Micro propagation & field evaluation of selected bamboo species	Dr. I.D.Arya	Forest Genetics & Tree Breeding	2010	2015	20.92	<ul style="list-style-type: none"> <li>• Not Approved</li> <li>• Other vegetative propagation techniques for the multiplication of bamboo are available.</li> <li>• Tissue culture techniques are not advisable for mass propagation.</li> <li>• RPC suggested that it should be framed as an extension project.</li> </ul>	Dropped
2.	Coordinated Project on Integrated Management of Khejri Mortality for Socio-	Dr. S.I. Ahmed		2010	2015	142.00	<ul style="list-style-type: none"> <li>• Modify the project proposal as an inhouse project, involving ICFRE institutes.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March 2010.

	Economic Upliftment in North-East Rajasthan.						<ul style="list-style-type: none"> <li>Revise and resubmit by 15 March 2010.</li> </ul>	
3.	Tissue culture studies for multiplication of selected plus trees of economically important plant – <i>Boswellia serrata</i> .	Dr. Sarita Arya	Forest Genetics & Tree Breeding	2010	2015	14.72	<ul style="list-style-type: none"> <li>Not Approved</li> </ul>	Dropped
4.	Identification of soil-vegetation relations and indicator species for assessment and rehabilitation in lower Aravalli of Rajasthan	Dr. G. Singh	Forest Ecology	2010	2014	11.70	<ul style="list-style-type: none"> <li>Approved as proposed</li> </ul>	Approved
5.	Induction of resistance in <i>Tecomella undulata</i> (Sm.) Seem. rohida against stem canker.	Dr. Sangeeta Singh	Forest Protection	2010	2013	18.396	<ul style="list-style-type: none"> <li>Approved with a budget of Rs.16.40 Lakh.</li> </ul>	Approved with revision
6.	Study of Salt Tolerance Through Gene Expression Pattern Analysis	Dr. Tarun Kant,	Forest Genetics and Tree Breeding	2010	2013	28.60	<ul style="list-style-type: none"> <li>Approved.</li> <li>One JRF allowed instead of Research Associate.</li> <li>Revise the budgetary part of the project accordingly with Rs.22.00 lakhs.</li> </ul>	Approved with revision
7.	Evaluation of antioxidant activity of selected plants of arid zone for their potential as nutraceuticals	Dr. Mala Rathore	Non Wood Forest Products	2010	2013	35.90	<ul style="list-style-type: none"> <li>Not Approved.</li> <li>Explore the possibility for outside funding.</li> </ul>	Dropped
8.	Dependency, evaluation and selection of efficient strains of Arbuscular Mycorrhizal fungi for <i>Acacia nilotica</i> (L.) Willd. ex Del. in Rajasthan.	Dr. Neelam Verma	Forest Protection	2010	2013	12.75	<ul style="list-style-type: none"> <li>Approved with a budget of Rs. 7.80 Lakh.</li> <li>No JRF allowed.</li> <li>One Field Assistant is allowed only.</li> </ul>	Approved with revision

9.	Role of forest exotic plant species on biodiversity, rehabilitation of degraded community lands and as a source of livelihood for people in Rajasthan state.	Smt. Seema Kumar	Agro Forestry and Extension	2010	2013	10.68	<ul style="list-style-type: none"> <li>• Approved with a budget of Rs. 8.00 Lakh.</li> <li>• Revise the project title.</li> <li>• Procurement of equipment not allowed.</li> </ul>	Approved with revision
10.	Assessment of floral diversity influenced by different land uses along Narmada canal in Western Rajasthan	Dr. Abha Rani		2010	2013	7.50	<ul style="list-style-type: none"> <li>• Not Approved</li> <li>• RPC was in view that Environmental Impact Assessment of the areas falling under Narmada Canal had already been done as EIA/EMP studies are mandatory for such type of projects before initiation of the construction works.</li> </ul>	Dropped
11.	Impact assessment of adoption and implementation of Joint Forest Management Programme, its sustainability and role in rural up-liftmen in Gujarat.	Dr. Sunil Kumar,		2010	2013	11.12	<ul style="list-style-type: none"> <li>• Not Approved</li> <li>• JVIC had already operated Joint Forest Management in Gujarat state.</li> </ul>	Dropped

**SUMMARY:****Total Projects: 11****Approved with revision: 04****Rejected/Dropped: 05****Approved: 01****Revise and Resubmit by 15<sup>th</sup> March 2010:01**



## Himalayan Forest Research Institute, Shimla

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	Survey and Bioecology of potential insect-pests and pathogens of cone and seeds of <i>Pinus gerardiana</i> Wall.	Dr. Pawan Kumar,	Forest Protection Division	2010	2013	12.43	<ul style="list-style-type: none"> <li>• Make the project for 2 year duration with 1 Filed Assistant</li> <li>• Revise the objectives.</li> <li>• Reduce the budget to Rs.8.43 lakhs.</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.
2	Carbon Sequestration through Traditional Land Use and Future Potentials in Lahaul & Spiti Valleys, Himachal Pradesh.	Dr. K.S. Kapoor,	Ecology & Biodiversity Conservation Division	2010	2015	47.30	<ul style="list-style-type: none"> <li>• Include work related to ecosystem vulnerability and adaptation.</li> <li>• Concentrate work on Great Himalayan National Park area only</li> <li>• Include Dr. Rajeev Pandey in the project for modelling work.</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.

3	Development of Baseline Data on Ecologically Important Scolytid-Beetles for Assessing the Futuristic Effect of Climate Change in Himachal Pradesh.	Dr. Ranjeet Singh,	Forest Protection Division	2010	2015	35.52	<ul style="list-style-type: none"> <li>Project approved with budget Rs. 19.00 lakhs.</li> </ul>	Approved with revision.
4	Predatory Efficiency of Stegodyphus Sarasinorum (Arachnida:Araneae:Eresidae ) Against Insect Pests of Plants in the Forest- Nursery.	Dr. S. Chakrabarti,	Forest Protection Division	2010	2013	12.56	<ul style="list-style-type: none"> <li>Project approved with budget Rs.7.39 lakhs.</li> </ul>	Approved with revision.

**SUMMARY:**

**Total Projects:04**

**Approved with revision:02**

**Rejected/Dropped: 00**

**Approved: 00**

**Revise and Resubmit by 15<sup>th</sup> March 2010:02**



## Tropical Forest Research Institute, Jabalpur

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1.	Damage assessment of gall making insect species of eucalypts and its management by pesticides	Dr. N. Roychoudhury	Entomology	2010	2013	10.06	<ul style="list-style-type: none"> <li>• Director TFRI &amp; IFGTB to coordinate for sharing information.</li> <li>• JRF is not allowed.</li> <li>• Make the project within budget of Rs.5.0 lakhs</li> <li>• Project duration 2 years.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March 2010.
2.	Development of multitier cropping (Silvi-Agri-Spice) system.	Dr. N. Berry	Agroforestry	2010	2015	15.07	<ul style="list-style-type: none"> <li>• Project approved.</li> </ul>	Approved
3.	Studies on larval parasitoids, <i>Apanteles</i> spp. (Hymenoptera :	Dr. Mohd. Yousuf	Forest Entomology Division	2010	2013	9.51	<ul style="list-style-type: none"> <li>• Project approved.</li> </ul>	Approved

	Braconidae) of major defoliators of teak and sal forests of Orissa.							
4.	Development of certification criteria and production of microbial inoculants for application in forest nurseries and plantations.	Dr. R. K. Verma	Forest Pathology	2010	2014	12.89	<ul style="list-style-type: none"> <li>• Revise objectives.</li> <li>• JRF is not allowed.</li> <li>• Revise budget.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March 2010.
5.	Counterbalancing the detrimental effect of Sponge Iron Factory-emitted Particulate Matters (SIFPM) with the protective effect of Vesicular Arbuscular Mycorrhiza (VAM) on the growth of seedlings of important tree species.	Dr. R. Sett	Ecology	2010	2012	7.48	<ul style="list-style-type: none"> <li>• Project approved</li> </ul>	Approved
6.	Integrated management of vascular wilt disease of <i>Azadirachta indica</i> (Neem), <i>Emblia officianalis</i> (Aonla), and <i>Gmelina arborea</i> (Khamer) in forest nurseries.	Dr. K.K. Soni	Forest Pathology	2010	2013	5.15	<ul style="list-style-type: none"> <li>• Project approved</li> </ul>	Approved
7.	Studies on root rot and stem decay diseases in <i>Acacia catechu</i> and their control.	Dr. R.K. Verma	Forest Pathology	2010	2013	6.45	<ul style="list-style-type: none"> <li>• Project approved</li> </ul>	Approved
8.	Germination eco-physiology of two important tropical forest	Dr. M. Kundu	Silviculture	2010	2013	11.11	<ul style="list-style-type: none"> <li>• JRF is not allowed</li> <li>• In equipment only Rs.1.5 lakhs approved</li> </ul>	Approved with revision.

	tree species: <i>Schleichera oleosa</i> and <i>Pterocarpus marsupium</i> .						<ul style="list-style-type: none"> <li>• Make the project within Rs.5.0 lakhs budget</li> </ul>	
9.	Anthropogenic influence and effect of invasive species on phyto-diversity of Sanjay National Park, (M.P.).	Dr. P.K. Khatri	Biodiversity	2010	2013	7.81	<ul style="list-style-type: none"> <li>• Project Not approved</li> </ul>	Dropped
10.	Studies on variations with respect to in vitro azadirachtin production in selected high yielding populations of <i>Azadirachta indica</i> A. Juss.	Dr. Fatima Shirin	Genetics	2010	2013	11.61	<ul style="list-style-type: none"> <li>• Consult Dr. Ashok Srivastava.</li> <li>• Revise and Resubmit.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.
11.	Development of plantation technology of lesser known tree species ( <i>Strychnos nux-vomica</i> and <i>Sterculia urens</i> ) with emphasis on plantation on refractory sites. (Eco-restoration of degraded land with lesser known tree species).	Shri S.D. Sonkar	Silviculture	2010	2014	3.3	<ul style="list-style-type: none"> <li>• Revise and recast the project after having discussion with Andhra Pradesh Forest Department.</li> </ul>	Dropped
12.	Biological control of insect pests of medicinal plants- <i>Abelmoschus moschatus</i> , <i>Glorisa superba</i> and <i>Withania somnifera</i> .	Dr. P. B. Meshram	Forest Entomology	2010	2014	11.69	<ul style="list-style-type: none"> <li>• Field Assistant is allowed in place of JRF</li> <li>• Revise budget accordingly.</li> </ul>	Approved with revision.
13.	Evaluation of storage potential for prediction of storage life of three tropical forest seeds: <i>Saraca indica</i> , <i>Pterocarpus marsupium</i> and <i>Bridelia</i>	Dr. M. Kundu	Silviculture	2010	2014	9.60	<ul style="list-style-type: none"> <li>• Project not approved</li> </ul>	Dropped

	<i>retusa.</i>							
14.	Integrated nutrient management for improved growth of trees on over burden dumps.	Dr. A.C. Suryaprabha	CFRHRD Chhindwara	2010	2014	7.75	<ul style="list-style-type: none"> <li>• Increase/revised species to be planted.</li> </ul>	Approved with revision.
15.	Evaluation of <i>Diospyros melanoxylon</i> (Tendu) and <i>Carissa carandas</i> (karonda) fruits for their nutritional value and development of value added products for economic development of local people.	Dr. S. C. Biswas	NFWP	2010	2013	6.06	<ul style="list-style-type: none"> <li>• Project not approved</li> </ul>	Dropped
16.	Influence of forest canopy cover on ground flora and micro-climate in western ghats (Maharashtra).	Dr. Avinash Jain	Ecology & Rehabilitation Division.	2010	2012	10.48	<ul style="list-style-type: none"> <li>• Consult FSI &amp; ATREE for revising methodology part.</li> <li>• No equipment is allowed.</li> <li>• Accordingly revise and resubmit by 15<sup>th</sup> March 2010</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.
17.	Documentation and distribution of Forest Invasive Species (FIS) of Jabalpur, Katni, Mandla and Seoni districts of Madhya Pradesh.	Dr. V. Nath	Biodiversity and Sustainable Management	2010	2013	7.66	<ul style="list-style-type: none"> <li>• Recast the project by giving suitable control measures for Invasive species as major component of the project.</li> <li>• Accordingly revise and resubmit by 15<sup>th</sup> March 2010.</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.
18.	Vegetational and hydrological attributes of watershed in Jabalpur and Seoni in M.P.	Dr. A.K. Bhowmik	Ecology	2010	2013	7.91	<ul style="list-style-type: none"> <li>• Project not discussed</li> </ul>	Dropped

**SUMMARY:****Total Projects: 18****Approved with revision: 04****Rejected/Dropped: 04****Approved: 05****Revise and Resubmit by 15<sup>th</sup> March 2010:05**



## Institute of Wood Science & Technology, Bangalore

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	Screening of oil of <i>Pongamia pinnata</i> Linn., <i>Jatropha curcus</i> Linn. and <i>Simarouba glauca</i> D.C. for developing eco-friendly wood preservatives.	Mrs. D. Venmalar	Wood Seasoning & Preservation	2010	2015	20.21	<ul style="list-style-type: none"> <li>Project approved.</li> </ul>	Approved
2	Screening of certain plant extractives for developing eco-friendly wood preservatives.	Mrs. D. Venmalar	Wood Seasoning & Preservation	2010	2015	11.00	<ul style="list-style-type: none"> <li>Suggested not to work on <i>Lanatana camara</i>.</li> <li>Budget reduced to Rs.5.69 lakhs.</li> </ul>	Approved with revision.
3	Utilization of <i>Bambusa bambos</i> (L.) and <i>Dendrocalamus strictus</i>	Dr. S.K. Sharma	Wood Properties	2010	2013	8.74	<ul style="list-style-type: none"> <li>Project approved</li> </ul>	Approved

	(Roxb.) as an alternative of wooden dunnage pallets.		and Uses					
4	Evaluation of Wood quality parameters of plantation grown species for suitability in cooling towers.	N.C.M. Rajan	Wood Properties and Uses	2010	2013	5.10	• Project not approved	Dropped
5	Evaluation of wood quality parameters of plantation grown species for suitability in packing cases.	Dr. S.R. Shukla	Wood Properties and Uses	2010	2013	6.31	• Project not approved	Dropped
6	Study on Impact of “ <i>Podu Cultivation</i> ” on Phytodiversity and Soil Factors in the Eastern Ghats of Andhra Pradesh.	D.J. Prasad	Ecology (FRC Hyderabad)	2010	2012	8.12	• Project approved	Approved
7	Evolution of consumption rates among insect herbivores as a function of intrinsic growth rates of plant resources: A search for patterns among forest pests.	Y.B. Srinivasa	Wood Biodegradation	2010	2012	2.65	• Project approved	Approved
8	Evaluation of the performance of Steam Volatile Creosote (SVC) as a Wood preservative	Dr. S. Mohan	Chemistry of Forest Products	2010	2015	7.90	• Project approved	Approved
9	Comparative study of clones of Eucalypts and Acacia hybrid for handicraft sector.	Dr. S.K. Sharma	Wood Properties and Uses	2010	2013	9.83	• Project approved with budget of Rs.4.83 lakhs.	Approved with revision.
10	Screening and evaluation of selected members of Rutaceae from Southern India for anti-malarial activity.	B.S. Chandrashekar	Chemistry of Forest Products	2010	2013	12.75	• Project approved	Approved
11	Population genetics and phylogeography of <i>Pterocarpus santalinus</i> L.f., and its <i>ex situ</i> conservation through	Dr. S. Pattanaik	Biotechnology (FRC Hyderabad)	2010	2013	27.36	• Project approved with budget of Rs. 25.00 lakhs. • FRC & IFGTB should	Approved with revision.

	biotechnological interventions.						coordinate during the work	
12	Identification System of Trees and Shrubs (Endemic, Rare and Endangered) of Andhra Pradesh	Sudhir Kumar	IT (FRC Hyderabad)	2010	2014	9.77	<ul style="list-style-type: none"> <li>Project approved with the suggestion that such Extension component for whole country be initiated by all the Institutes.</li> </ul>	Approved
13	Quantitative estimation of sandal oil from different locations by colour reaction	S.H. Jain	Chemistry of Forest Products	2010	2013	16.00	<ul style="list-style-type: none"> <li>Project approved with budget of Rs.15.00 lakhs.</li> </ul>	Approved with revision.
14	Optimization of seed germination, vegetative propagation and nursery methods for <i>Ailanthus excelsa</i> Roxb.	E. Venkat Reddy	Silviculture (FRC Hyderabad)	2010	2013	12.00	<ul style="list-style-type: none"> <li>Coordinate and put up a joint proposal for addressing the research work.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March 2010.

**SUMMARY:**

**Total Projects: 14**

**Approved with revision: 04**

**Rejected/Dropped: 02**

**Approved: 07**

**Revise and Resubmit by 15<sup>th</sup> March 2010:01**



## Rain Forest Research Institute, Jorhat

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	Productivity Enhancement in abandoned Jhum land through Agroforestry Management and Value Addition (No. RFRI-22/2009-10/SC)	Shri P.K. Kaushik,	Shifting Cultivation Division	2010	2013	18.98	<ul style="list-style-type: none"> <li>2 Field assistants approved JRF not allowed</li> <li>Revise by giving background of the older project</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March 2010.
2	Genetic evaluation of <i>Aquilaria malaccensis</i> in North Eastern India and establishment of Gene Bank (No. RFRI-31/2009-10/BG)	Dr. N. Ravi,	Biotechnology & Genetics	2010	2013	21.70	<ul style="list-style-type: none"> <li>Tree improvement strategy document having futuristic vision for improvement with Tree Breeding Programme of this important species is to be prepared on priority and submit the same to chairman RPC by 15<sup>th</sup> March 2010. May also consult concerned NBPGR / DBT Scientists.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March 2010.

3	Development of viable technique for efficient charcoal production from different bamboo species of Northeastern India (No. RFRI-30/2009-10/FP)	Shri D. Gurung		2010	2013	16.68	<ul style="list-style-type: none"> <li>• Reduce the project duration to two years.</li> <li>• Reduce the budget to Rs.8.0 lakhs.</li> </ul>	Approved with revision.
4	Studies on increasing seed viability in three recalcitrant species – <i>Dipterocarpus retusus</i> (Hollong), <i>Shorea assamica</i> (Mekai) and <i>Aquilaria malaccensis</i> (Agar) (No.RFRI-28/2009-10/BG)	Shri N.P. Mahadevan	Biotechnology and Genetics	2010	2013	10.51	<ul style="list-style-type: none"> <li>• Field Assistant is allowed in place of JRF.</li> <li>• Reduce the budget to Rs.6.0 lakhs.</li> </ul>	Approved with revision.
5	Ethno-medico-botanical Studies of Khasi Garo and Karbi Tribes (No.RFRI-29/2009-10/EB)	Shri H.N. Dhungana	Ecology & Biodiversity Division	2010	2013	5.22	<ul style="list-style-type: none"> <li>• Reduce the project duration to two years.</li> <li>• Reduce the budget to Rs.3.5 lakhs.</li> </ul>	Approved with revision.
6	Exploration of diversity and utilization potential of <i>Sphagnum</i> species of forestry importance in North –east India	Dr. Praveen Kumar Verma,	Shifting Cultivation Division	2010	2013	11.50	<ul style="list-style-type: none"> <li>• Equipment and Field assistant not allowed.</li> <li>• Budget of Rs.8.0 lakhs is approved.</li> </ul>	Approved with revision.
7	Development of vegetative propagation protocol of selected bamboo species. (No. RFRI-25/2009-10/SFM)	Dr. K. C. Pathak	Silviculture Forest Management	2010	2013	16.27	<ul style="list-style-type: none"> <li>• Reduce project duration to 2 years.</li> <li>• Work on only 4 bamboo species</li> <li>• Budgetary limit approved Rs. 7.00 lakhs.</li> </ul>	Approved with revision.
8	Assessment of insect pest problems of selected bamboo species in Assam and their eco-friendly management (No. RFRI-24/2009-10/FP)	Shri R. Raja Rishi		2010	2013	7.47	<ul style="list-style-type: none"> <li>• Deletion of eco-friendly word is suggested from title of project</li> </ul>	Approved with revision.
9	Studies on species diversity of <i>Ganoderma</i> in Assam with	Shri R. K. Kalita		2010	2012	6.87	<ul style="list-style-type: none"> <li>• Project approved</li> </ul>	Approved

	reference to utilization and cultivation of its selected species							
10	Exploration and conservation of genetic resources of selected rare and endemic plants of Northeast India (No. RFRI-27/2009-10/EB)	Shri H.R. Bora		2010	2013	13.75	<ul style="list-style-type: none"> <li>Approved for Rs.11.0 lakhs.</li> </ul>	Approved with revision.

**SUMMARY:****Total Projects: 10****Approved with revision: 07****Rejected/Dropped: 00****Approved: 01****Revise and Resubmit by 15<sup>th</sup> March 2010:02**



## Institute of Forest Productivity, Ranchi

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	Assessment of variability and genetic fingerprinting in <i>Pongamia pinnata</i> (L.) Pierre using inter simple sequence repeat (ISSR) markers	Dr. Sanjay Singh,	Botany Silviculture & NWFP	2010	2014	26.09	<ul style="list-style-type: none"> <li>• Inclusion of micro-satellite based research programme is suggested in the project</li> <li>• Increase in number of accession with inclusion of <b>ruled</b> population suggested.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.
2	Protocol optimization for in vitro Propagation and Conservation of <i>Rauwolfia serpentina</i> and <i>Asparagus racemosus</i> – important medicinal plants	Dr. Animesh Sinha,	Genetics & Tree Propagation	2010	2013	10.70	<ul style="list-style-type: none"> <li>• Project concept approved with the advise to PI to propose work on the species which is difficult to respond the conventional methods of propagation.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.

							<ul style="list-style-type: none"> <li>• May consult concerned CIMAP scientists.</li> </ul>	
3	Studies on edible shoot production potential of indigenous and introduced bamboos in Jharkhand and enhancement of production period through cultural practices	Dr. S. Nath,	Forest Soil & Land Reclamation	2010	2014	23.00	<ul style="list-style-type: none"> <li>• Project approved for Rs.14.35 lakhs for three years.</li> </ul>	Approved with revision.
4	Studies on variability in rooting proficiency in selected genotypes of <i>Pongamia pinnata</i> (L.) Pierre	Dr. Animesh Sinha,	Genetics & Tree Propagation	2010	2012	8.40	<ul style="list-style-type: none"> <li>• Include grafting and reproductive biology component in the project</li> <li>• Revise title accordingly.</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.
5	Study of various factors effecting the quantity of active principles in some commercially important medicinal plants under cultivation	Dr. Malabika Ray	Biodiversity and Conservation Division	2010	2013	14.00	<ul style="list-style-type: none"> <li>• Add leaf plucking time as an index in the second objective</li> <li>• Compare results with the variety released by CIMAP Lucknow</li> <li>• Reduce the budget to Rs.9.96 lakhs.</li> <li>• Work plan be revised to include accession from different states.</li> </ul>	Resubmit by 15 <sup>th</sup> March, 2010.
6	<i>In vitro</i> Conservation of Bamboo Species for Short and Medium Duration Storage and Their Effect on Regeneration	Dr. Animesh Sinha	Biotechnology, Genetics & Tree Breeding	2010	2013	16.60	<ul style="list-style-type: none"> <li>• Project not approved.</li> </ul>	Dropped
7	Standardization of nursery techniques for cultivation of <i>Celastrus paniculatus</i> and <i>Vitex peduncularis</i> – medicinal plants highly exploited in Jharkhand	Dr. Malabika Ray	Biodiversity and Conservation	2010	2013	9.99	<ul style="list-style-type: none"> <li>• Change the objectives “Standardization of Nursery technology”</li> <li>• Work must be done in the nursery area of the Institute</li> <li>• Develop a demo plantation with</li> </ul>	Revise and resubmit by 15 <sup>th</sup> March, 2010.

							repository creation. • Approved budget Rs. 5.70 lakhs.	
8	Study on documentation of existing scenario on of agro-forestry models and development of suitable models through participatory approach in Central Plateau and Hill region in Jharkhand	Dr. Rajiv Rai	Extension & Publicity	2010	2015	181.15	• Project not approved.	Dropped
9	Creation of database on cultivation, production and marketing of commercially important medicinal and aromatic plants and their pharmaceutical applications for development of decision support system in Jharkhand	Dr. Rajiv Rai,	Extension & Publicity	2010	2013	10.69	• Project not approved.	Dropped
10	Enhancement of Soil Carbon and Nitrogen sequestration potential of different land use in Jharkhand through Recommended Management Practices	Dr M. V. Durai	Forest Soil & Land Reclamation	2010	2013	53.49	• Project approved with budget of Rs.12.0 lakhs.	Approved
11	Collection, characterization and documentation of soil profile of different forest types in Eastern India	Dr M. V. Durai	Forest Soil & Land Reclamation	2010	2013	23.73	• Project not approved.	Dropped

**SUMMARY:****Total Projects:11****Approved with revision: 00****Rejected/Dropped: 04****Approved: 02****Revise and Resubmit by 15<sup>th</sup> March 2010:05**



## Forest Research Institute, Dehradun

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	Evaluation of alternative raw materials for pulp and paper making	Dr. Sanjay Naithani,	C&P Division	2010	2013	11.82	<ul style="list-style-type: none"> <li>Approved for Rs.3.82 lakhs without equipment.</li> <li>Due consultation with Paper Industries recommended.</li> </ul>	Approved with revision.
2	Wood bending studies using vapor-phase ammonia treatment technique on wood species suitable for hockey blades.	Shri N.K. Upreti,	Forest Products Division.	2010	2012	2.40	<ul style="list-style-type: none"> <li>RPC approved the project as proposed.</li> </ul>	Approved
3	Interspecies hybridization between <i>Eucalyptus pellita</i> and <i>E.</i>	Ms. Parveen,	G & TP Division.	2010	2013	14.16	<ul style="list-style-type: none"> <li>Approved for budget of Rs.7.0 lakhs.</li> </ul>	Approved with revision.

	<i>urophylla</i> and development of F1 hybrids.							
4	Making furniture from secondary/plantation timber species for demonstration and display at different Van Vigyan Kendras.	Shri A.K. Mamgain,	Forest Products Division.	2010	2012	6.00	<ul style="list-style-type: none"> <li>Funding may be sought under VVK Scheme.</li> </ul>	Dropped.
5	Studies on Taxonomy of the family Eulophidae (Hymenoptera: Chalcidoidea) present in National Forest Insect Collection (NFIC) except Doon Valley	Dr. Sudhir Kumar,	Entomology Division.	2010	2015	10.50	<ul style="list-style-type: none"> <li>Budget of this project and project No. 34 is to be Rs. 12.0 lakhs only. Common resources/head from both projects may be used for the work in both the projects and accordingly budget may be kept to the tune of 12 lakhs for both the projects.</li> <li>Accordingly, both the projects may be re-budgeted and re-submitted within 15<sup>th</sup> March, 2010.</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.
6	Shisham mortality – Finding solutions for future plantations	Dr. N.S.K. Harsh	Pathology Division	2010	2015	27.71	<ul style="list-style-type: none"> <li>RPC approved the project, however, with budgetary provision of only Rs.23.0 lakhs.</li> <li>Project duration reduce to 3 years.</li> </ul>	Approved with revision.
7	Studies on the effect of fire retardant chemicals on glue shear strength of plywood.	Shri Ajmal Samani	Forest Products Division.	2010	2013	2.20	<ul style="list-style-type: none"> <li>Non leachable properties of chemicals may suitably be addressed.</li> </ul>	Approved with revision.
8	Hetrogeneity study between and within species using near infra red spectroscopy and assess wood quality.	Dr. Vimal Kothiyal	Forest Products Division.	2010	2013	12.60	<ul style="list-style-type: none"> <li>RPC approved the project as such.</li> </ul>	Approved

9	Development of Biomass Expansion Factor (BEF) for some indigenous tree species of Garhwal Himalaya, Uttarakhand	Dr. Laxmi Rawat	Ecology & Env. Division	2010	2013	14.18	<ul style="list-style-type: none"> <li>Species may be replaced by Chir pine and Sal.</li> </ul>	Approved with revision.
10	Development of DNA-marker based technique for <i>Pinus roxburghii</i> and <i>Cedrus deodara</i> for wood/timber forensics.	Dr. Santan Barthwal	G & TP Division.	2010	2013	23.08	<ul style="list-style-type: none"> <li>Only one specie is to be taken.</li> </ul>	Approved
11	Establishment of molecular taxonomy facilities and molecular characterization of selected bamboo species.	Dr. Anup Chandra	Botany Division.	2010	2013	49.39	<ul style="list-style-type: none"> <li>Reduce budget to Rs.39.39 lakhs by reducing cost of modular lab furniture.</li> </ul>	Approved with revision.
12	Development of micropropagation protocol for mature superior recombinants emanating from F2 generations of Eucalyptus hybrid E. citrodora Hook. x E. torelliana F.v. Muell.	Dr. Ajay Thakur	Botany Division.	2010	2013	9.59	<ul style="list-style-type: none"> <li>Unemployed less educated persons may be trained for tissue culture production instead of JRF.</li> </ul>	Approved
13	Study on performance of treated timbers (ZiBOC, CCB & CCA) and their natural durability in cooling towers	Dr. Sadhana Tripathi	Forest Products Division.	2010	2015	9.63	<ul style="list-style-type: none"> <li>RPC approved the project as such.</li> </ul>	Approved
14	Lepidoptera of Morni Hills, Haryana : Assessment of species	Dr. A.P. Singh,	Entomology Division.	2010	2013	7.45	<ul style="list-style-type: none"> <li>Haryana Forest Department may be approached for funding.</li> </ul>	Dropped

	diversity of moths and butterflies across different habitat regimes and development of a database							
15	Biological control of conifer nursery diseases with special reference to <i>Taxus baccata</i>	Shri Suresh Chandra,	Pathology Division.	2010	2013	4.31	<ul style="list-style-type: none"> <li>Uttarakhand Forest Department may be approached for funding.</li> </ul>	Dropped
16	Development of in vitro propagation protocol for <i>Myrica esculenta</i> Bach - Ham. En Dehradun	Smt. Prabha Bisht,	Botany Division.	2010	2013	8.04	<ul style="list-style-type: none"> <li>Not approved.</li> </ul>	Dropped
17	Effect of fire on restored rock phosphate mine ecosystem	Dr. Mridula Negi,	Ecology & Env. Division	2010	2013	3.12	<ul style="list-style-type: none"> <li>Not approved.</li> </ul>	Dropped
18	Investigations into the role of length to pitch ratio of finger profiles on the flexural properties of finger jointed sections	Dr. Kishan Kuamr,	Forest Products Division	2010	2013	7.47	<ul style="list-style-type: none"> <li>No JRF is allowed.</li> <li>Reduce budget expenditure accordingly.</li> </ul>	Approved with revision.
19	Comparative assessment of wood properties in micro and macro propagated plantations of <i>Populus deltoids</i> .	Dr. P.K. Pande	Botany Division.	2010	2013	8.16	<ul style="list-style-type: none"> <li>Not approved.</li> </ul>	Dropped
20	Effect of improved operational parameters on hydrolysis of lignocellulosic biomass to enhance total reducing	Dr. Sanjay Naithani	C&P Division.	2010	2013	19.10	<ul style="list-style-type: none"> <li>RPC approved the project as proposed.</li> </ul>	Approved

	sugar yield for bioethanol production							
21	Screening of Eucalyptus germplasm for disease resistance against <i>Cylindrocladium</i> leaf and seedling blight.	Dr. Amit Pandey	Pathology Division.	2010	2013	19.20	<ul style="list-style-type: none"> <li>No Field Assistant is allowed.</li> <li>Reduce budget expenditure accordingly.</li> </ul>	Approved with revision.
22	Chemoenzymatic saccharification of cellulosic biomass	Dr. P.K. Gupta	Chemistry Division.	2010	2013	7.10	<ul style="list-style-type: none"> <li>Field assistant is allowed in place of JRF.</li> <li>Reduce budget expenditure accordingly.</li> </ul>	Approved with revision.
23	Selection and Improvement of flowering tree species for urban-forestry.	Dr. Santan Barthwal	G & TP Division	2010	2013	24.26	<ul style="list-style-type: none"> <li>Not approved.</li> </ul>	Dropped
24	Study of bioaccumulation of heavy metal content in the tree species in the urban area of Chandigarh.	Dr. A.K. Tripathi	Ecology & Env. Division.	2010	2013	11.23	<ul style="list-style-type: none"> <li>Recast the project for pilot study with Dehradun as case study.</li> <li>Literature survey for best spp.</li> <li>Prof. S. P. Singh may be consulted.</li> </ul> JRF ?	Revise and resubmit by 15 <sup>th</sup> March, 2010.
25	Field trial of borehole method of resin tapping from Chir pine of Uttarakhand for better oleresin yield.	Dr. B.P. Tamta	NWFP Division.	2010	2013	4.77	<ul style="list-style-type: none"> <li>RPC approved the project as such.</li> </ul>	Approved
26	Ecological evaluation of natural regeneration of natural sal forest in response to protection in Doon Valley	Dr. Nirmal Ram	Ecology & Env. Division	2010	2014	6.47	<ul style="list-style-type: none"> <li>Not approved.</li> </ul>	Dropped

27	Validation of chemical markers conferring <i>Cylindrocladium</i> leaf and seedling blight resistance in <i>Eucalyptus</i> germplasm	Dr. V.K. Varshney	Chemistry Div.	2010	2013	6.51	<ul style="list-style-type: none"> <li>One Field Assistant only is allowed.</li> </ul>	Approved with revision.
28	Field trials for increasing NWFP productivity using <i>Piper pedicellatum</i> .	Dr. Lokho Puni	NWFP Division.	2010	2013	8.26	<ul style="list-style-type: none"> <li>RPC approved the project as such.</li> </ul>	Approved
29	Dissemination of information and innovation of FRI technologies among different stakeholders.	Shri Gulab Singh	Extension Division.	2010	2013	13.77	<ul style="list-style-type: none"> <li>Such extension programme may be carried out with extension /VVK fund. Accordingly, programme may be re-casted and approached for funding to the ICFRE separately.</li> </ul>	Dropped
30	Role of temple forests in rejuvenating microclimate of some villages of Uttarakhand.	Dr. Laxmi Rawat	Ecology & Env. Division.	2010	2013	9.00	<ul style="list-style-type: none"> <li>Not approved.</li> </ul>	Dropped
31	A field manual for the insect pests and their control in agroforestry plantations	Dr. Shamila Kalia	Extension Division.	2010	2013	3.70	<ul style="list-style-type: none"> <li>Recast the project title.</li> <li>More focussed approach for bringing out field manual of insects pests for forest nursery/plantation may suitably be addressed.</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.
32	Taxonomic studies of parasitoids belonging to subfamily Braconinae (Hymenoptera : Braconidae) of Uttarakhand.	Dr. Neena Chauhan	Entomology Division.	2010	2013	1.45	<ul style="list-style-type: none"> <li>RPC approved the project as such.</li> </ul>	Approved
33	Ecological study of wetland forest ecosystem of doon valley (Uttarakhand)	Dr. Promod Aggarwal	Ecology & Env. Division.	2010	2013	5.00	<ul style="list-style-type: none"> <li>Such studies are important and may be carried out. More literature survey/consultation with WII/BSI to avoid duplication of study and incorporating more appropriate</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.

							approach/ methodology for study.	
34	Studies on Taxonomy of the family Encyrtidae (Hymenoptera: Chalcidoidea) present in National Forest Insect Collection (NFIC) except Doon Valley	Dr. Sudhir Kumar	Entomology Division.	2010	2015	10.50	<ul style="list-style-type: none"> <li>• Same as for project No. 05.</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.
35	Management and economic appraisal of ecotourism projects in Uttarakhand state	Shri Deepak Mishra	RSM Division	2010	2012	6.00	<ul style="list-style-type: none"> <li>• Not approved.</li> </ul>	Dropped
36	Variations in soil properties and geological formations due to physiographic conditions under natural Shorea robusta forests of Kaleshwar, Haryana.	Dr. A.K. Raina	FSLR Division	2010	2013	6.08	<ul style="list-style-type: none"> <li>• Not approved.</li> </ul>	Dropped
37	Study on wood anatomy of Indian shrubs for the purpose of their identification and efficient utilization	Dr. Sangeeta Gupta	Botany Division	2010	2013	4.50	<ul style="list-style-type: none"> <li>• RPC approved the project as proposed.</li> </ul>	Approved
38	Studies on the Effects of Climate Change on Plant Species Migration in transition zones of Mussoorie Forests	Dr. S.P.S. Rawat	CC & FI Division	2010	2030	117.40	<ul style="list-style-type: none"> <li>• Such studies are important and may be carried out by pooling experts from relevant field/Division ie. Taxonomy/ Botany, ecology or else and not by employing consultant from outside. The Director of institute may be PI of the projects to coordinate and provide required logistic support.</li> </ul>	Dropped

							<ul style="list-style-type: none"> <li>• Consultation with Mr. Jose Kleriol, KFRI suggested.</li> </ul>	
39	Development of artificial diet for <i>Dichomeris eridantis</i>	Shri Lalji Prasad	Entomology Division.	2010	2011	0.75	<ul style="list-style-type: none"> <li>• The project was not approved.</li> </ul>	Dropped.
40	Interaction between <i>Pseudomonas fluorescens</i> and AM Fungus on <i>Dendrocalamus strictus</i>	Dr. Y.P. Singh	Pathology Division.	2010	2015	16.76	<ul style="list-style-type: none"> <li>• Number of target states may be reduced.</li> <li>• JRF is allowed only for 03 years.</li> </ul>	Approved with revision.
41	Biodiversity vis-a-vis Climate Change in Garhwal Himalayas of Uttarakhand	Dr. Laxmi Rawat	Ecology & Env. Division.	2010	2013	10.94	<ul style="list-style-type: none"> <li>• The project was <u>Not Approved</u> as such. However, RPC was of opinion that such studies are important and may be carried out by clubbing work components with project as suggested for project No. 38 of FRI.</li> </ul>	Dropped
42	Vegetation changes of Doon Valley	Dr. Anup Chandra	Botany Division.	2010	2015	11.70	<ul style="list-style-type: none"> <li>• Accommodate with the Climate Change Project at Sl. No. 38.</li> </ul>	Dropped
43	Refining of process for detoxification studies of Jatropha seed oil	Dr. Vineet Kumar	Chemistry Division	2010	2013	7.56	<ul style="list-style-type: none"> <li>• RPC approved the project as such.</li> </ul>	Approved
44	In-vitro propagation of <i>Tinospora cordifolia</i> (Willd.) Miers ex Hook. F. & Thoms. - a multipurpose medicinal plant.	Smt. Prabha Bisht	Botany Division.	2010	2013	3.48	<ul style="list-style-type: none"> <li>• Change the species like <i>Podophylum</i>, <i>Sauseria</i> or alike</li> </ul>	Approved with revision.

45	Development of micro propagation protocol of Rhododendron arboreum Smith: state tree of Uttrakhand	Dr. Ajay Thakur	Botany Division	2010	2013	9.87	<ul style="list-style-type: none"> <li>Field Assistant in place of JRF is allowed.</li> <li>Vegetative propagation may also be tried.</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.
46	Development of Nursery and planting techniques of fiber yielding Himalayan Nettle	Shri S.R. Baloch	NWFP Division.	2010	2013	5.50	<ul style="list-style-type: none"> <li>RPC approved the project as proposed.</li> </ul>	Approved
47	Establishing Germplasm Garden of Some RET (Rare, Endangered and Threatened) Taxa of some lesser known plants (LKT)	Ms. Anita Tomar	Silviculture Division.	2010	2014	11.74	<ul style="list-style-type: none"> <li>Field Assistant in place of JRF is allowed.</li> <li>Change the title by removing LKT.</li> <li>Data on RET species from BSI and IUCN publication may be consulted.</li> <li>Germ plasm of such species may also be established in FRI campus.</li> <li>Explore Patula dagar spp and Lithea spp.</li> <li>Project period reduced to 2 years.</li> </ul>	Resubmit by 15 <sup>th</sup> March 2010.
48	Daily collection and analysis of climatic data of New Forest, Dehradun.	Dr. Nirmal Ram	Ecology & Env. Division	2010	2014	12.10	<ul style="list-style-type: none"> <li>The project was not approved as research project. However, the RPC agreed for the Automatic weather Station equipment which may be procured by making separate requisition request to the Directorate of Administration, ICFRE.</li> </ul>	Dropped
49	Study of field performance of Jatropha curcas in Uttarakhand, analysis of factors responsible for variation and development of pollarding/ pruning schedule.	Dr. Dinesh Kumar	Silviculture Division.	2010	2013	9.160	<ul style="list-style-type: none"> <li>Not approved.</li> </ul>	Dropped

50	Creation of seed production area and commercial cultivation trials of <i>Uraria picta</i>	Dr. A.K. Sharma	NWFP Division.	2010	2013	8.82	<ul style="list-style-type: none"> <li>Number and frequency of training to the farmers/users may be defined.</li> <li>Who is going to adopt the developed protocol from this project, be clarified.</li> </ul>	Approved.
51	Development of tools for planting cuttings in nursery, establishment of multilocation clonal trial and study of wood anatomical properties and cellulose content of promising clones of <i>Populus deltoides</i>	Dr. Dinesh Kumar	Silviculture Division.	2010	2013	14.41	<ul style="list-style-type: none"> <li>The project was approved in principle. However, The RPC was of opinion that component of 'Development of tools for planting cuttings in nursery' may be removed from the proposal.</li> <li>Title may be changed as 'Establishment of multilocation clonal trial and study of wood anatomical properties and cellulose content of promising clones of <i>Populus deltoides</i>' having relevant work components.</li> </ul>	Approved with revision.
52	Training and capacity building of field functionaries and rural communities of Garhwal Himalaya, Uttarakhand.	Shri J.M.S. Chauhan	Botany Division.	2010	2012	9.60	<ul style="list-style-type: none"> <li>RPC was of opinion that such extension programme may be carried out with extension /VVK fund. Accordingly, programme may be re-casted targeting farmers also and approached for funding to the ICFRE separately.</li> </ul>	Dropped
53	Vegetative propagation of some difficult-to-root commercially important tree species.	Dr. Dinesh Kumar	Silviculture Division.	2010	2013	7.88	<ul style="list-style-type: none"> <li>RPC approved the project as such.</li> </ul>	Approved
54	Vegetative propagation, nodulation and nitrogen fixation studies in <i>Myrica esculenta</i> Ham.- a non legume nitrogen fixing species.	Dr.S.P.Chokhi yal	Botany Division	2010	2014	10.96	<ul style="list-style-type: none"> <li>RPC approved the project as such.</li> </ul>	Approved

55	Ethnobotanical studies in Uttarakhand with special reference to medicinal plants	Dr. Veena Chandra,	Botany Division.	2010	2013	7.00	<ul style="list-style-type: none"> <li>• RPC suggested for exploring funding from NMPB.</li> </ul>	Dropped
56	Econometric Evaluation of Potentials and Constraints of Medicinal Plant Cultivation of Munsiyari	Shri Jawaid Ashraf	Statistical Branch	2010	2014	6.77	<ul style="list-style-type: none"> <li>• This project was <u>not approved</u> as such.</li> <li>• However, the RPC suggested to formulate new project related to Estimation of Volume Table of selected tree species within or out side forest with appropriate budget. The project may be submitted to the ICFRE within 15<sup>th</sup> March, 2010.</li> </ul>	Dropped.
57	Development of site specific medicinal plant based agro- forestry models for existing plantations in Eastern Uttar Pradesh and establishment of demonstration model.	Dr. B.K. Pandey,	CSFER, Allahabad.	2010	2013	10.65	<ul style="list-style-type: none"> <li>• RPC approved the project as proposed.</li> </ul>	Approved
58	To Study the Timber Markets of Important Agro forestry Species in Eastern Uttar Pradesh.	Dr. Anubha Srivastava	CSFER, Allahabad.	2010	2013	11.50	<ul style="list-style-type: none"> <li>• Field Assistant not allowed.</li> </ul>	Approved with revision.
59	Data compilation of R & D in medicinal and aromatic plants by ICFRE Institutes and other institutions funded by ICFRE.	Dr. Lokho Puni,	NWFP Division.	2010	2013	9.93	<ul style="list-style-type: none"> <li>• Incorporate the work of last 50 years.</li> </ul>	Approved
60	Phytochemical Studies On Medicinally Important <i>Diploknema Butyracea</i> (Indian Butter	Dr. Rashmi,	Chemistry Division.	2010	2013	6.12	<ul style="list-style-type: none"> <li>• RPC approved the project as proposed.</li> </ul>	Approved

	<i>Tree</i> ) Seeds							
61	Allelopathic Influences in regeneration of silver fir ( <i>Abies pindrow</i> ) and spruce ( <i>Picea smithiana</i> ) forests - Effect of natural leachates on seedling growth in nursery.	Dr. Ombir Singh,	Silviculture Division.	2010	2014	8.15	<ul style="list-style-type: none"> <li>• RPC approved the project as proposed.</li> </ul>	Approved
62	Phyto-remediation of water logged waste land through biodrainage and soil amendmets.	Mrs. Kumud Dubey,	CSFER, Allahabad.	2010	2015	9.90	<ul style="list-style-type: none"> <li>• RPC approved the project as proposed.</li> </ul>	Approved
63	Phytochemical examination of <i>Acacia albida</i> .	Dr. Pradeep Sharma,	Chemistry Div.	2010	2013	8.27	<ul style="list-style-type: none"> <li>• RPC approved the project as proposed.</li> </ul>	Approved
64	To study the marketing mechanism of commercially important medicinal plants in selected districts of Eastern Uttar Pradesh	Shri Hari Om Saxena,	CSFER Allahabad.	2010	2013	7.13	<ul style="list-style-type: none"> <li>• One Field Assistant is allowed.</li> <li>• No equipment is allowed.</li> <li>• Recast budget accordingly.</li> </ul>	Approved with revision.
65	Soil organic carbon store under different land uses in Haryana.	Dr. M.K. Gupta,	FSLR Division	2010	2014	8.43	<ul style="list-style-type: none"> <li>• RPC approved the project as such.</li> </ul>	Approved

**SUMMARY:****Total Projects: 65****Approved with revision: 15****Rejected/Dropped: 20****Approved: 22****Revise and Resubmit by 15<sup>th</sup> March 2010:08**

# Projects Placed Directly to RPC

**Arid Forest Research Institute, Jodhpur**

S N	Title of the project	Name of the PI	Period		Proposed Budget (Rs. in Lakh)	RPC Proceedings	
			from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1.	Evaluation of forest waste materials for fiber properties and making bio-composites	Dr. Abha Rani	2010	2013	14.00	<ul style="list-style-type: none"> <li>Not Approved. May pose to DBT.</li> </ul>	Dropped
2.	Exploring the potential of arid zone species as natural colorants their extraction and value addition	Dr. Abha Rani	2010	2013	14.00	<ul style="list-style-type: none"> <li>Not Approved</li> </ul>	Dropped
3.	Development of Technologies for multiplication of economi-callyimportant desert plant - <i>Capparis decidua</i>	Dr.Sarita Arya	2010	2015	16.52	<ul style="list-style-type: none"> <li>Approved with a budget of Rs. 14.72 Lakh.</li> <li>equipments not allowed.</li> </ul>	Approved with revision
4.	Evaluation of N T F P status in some Selected Districts of Rajasthan and their role in Rural livelihood with special emphasis on Women participation.	Smt. Sangeeta Tripathi	2010	2013	10.25	<ul style="list-style-type: none"> <li>Not Approved</li> </ul>	Dropped
5.	To study post harvest shelf life of some important medicinal plants of arid zone	Dr. Mala Rathore	2010	2013	11.25	<ul style="list-style-type: none"> <li>May be posed to NMPB</li> </ul>	Dropped

**SUMMARY:**

1. Direct Projects: 05
2. Approved: 00
3. Approved with revision: 01
4. Revise and Resubmit by 15<sup>th</sup> March 2010: 00
5. Rejected/Dropped: 04

### Tropical Forest Research Institute, Jabalpur

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	Development of lac based agro forestry (Silvi-Agri-Lac) system.	Dr. N. Berry, Scientist 'C'	Agro forestry Division	2010	2015	15.37	<ul style="list-style-type: none"> <li>JRF is not allowed</li> <li>Reduce the budget to 7.0 Lakhs.</li> </ul>	Approved with revision
2	Studies on the effect of solarization of nursery soil for production of disease free seedling of forest tree species.	Dr. R.K. Verma, Scientist 'D' & Head	Forest Pathology Division	2010	2013	7.21	<ul style="list-style-type: none"> <li>Dropped</li> </ul>	Dropped
3	Development of macro-propagation procedure for salai ( <i>Boswellia serrata</i> Roxb.)	Dr. S.A Ansari, Scientist "F"	Genetics and Plant Propagation Division	2010	2015	15.02	<ul style="list-style-type: none"> <li>Directors of TFRI and AFRI to propose a combined project</li> </ul>	Dropped
4	Development of <i>in vitro</i> propagation technology for <i>Bambusa burmanica</i> Gamble.	Dr. Fatima Shirin, Scientist D	Genetics and Plant Propagation	2010	2013	6.65	<ul style="list-style-type: none"> <li>Dropped in this RPC. The project may be again proposed the next time through RAG.</li> </ul>	Dropped
5	Standardization of <i>in vitro</i> propagation technologies for <i>Boswellia serrata</i> Roxb.: A threatened gum-resin tree.	Dr. Yogeshwer Mishra Scientist-'D'	Genetics and Plant Propagation	2010	2013	5.60		Dropped
6	Evaluation of oleochemicals of non edible oil seeds for development of surfactants	Smt. Neelu Singh, Scientist-D	Non Wood Forest Produce	2010	3013	15.41	<ul style="list-style-type: none"> <li>Dropped in this RPC. The project may be again</li> </ul>	Dropped

Direct RPC

	and their utilization in pest management.						proposed the next time through RAG.	
7	Documentation and preparation of electronic database of forest flora of Satpura Eco-region of Madhya Pradesh.	Dr. V. Nath Scientist F/head	Biodiversity and Sustainable management Division	2010	2013	9.93	<ul style="list-style-type: none"> <li>Propose as activity with a JRF and not in a project mode</li> </ul>	Dropped
8	Performance of tree species in partially purified wastewater through fly ash	Dr. Rupnarayan Sett, Scientist C	Division of Forest Ecology & Rehabilitation	2010	2013	16.14	<ul style="list-style-type: none"> <li>Dropped</li> </ul>	Dropped
9	“Development of Food Products from <i>Madhuca indica</i> flowers for the upliftment of the Tribal/Rural Communities of Central India.”	Dr. Vishakha Kumbhare, Scientist-‘B’	Centre for Forestry Research & Human Resource Development, Chhindwara	2010	2012	3.15	<ul style="list-style-type: none"> <li>Approved</li> <li>May consult Mr. Sudhir Kumar, CFTRI.</li> </ul>	Approved
10	Product development from <i>Lepidium sativum</i> Linn. (Chandrasur) for food and Oleo Chemical Industries	Dr. Vishakha Kumbhare, Scientist-‘B’	Centre for Forestry Research & Human Resource Development, Chhindwara	2010	2012	4.50	<ul style="list-style-type: none"> <li>Dropped</li> </ul>	Dropped

**SUMMARY:**

- 1. Direct Projects: 10**
- 2. Approved: 01**
- 3. Approved with revision: 01**
- 4. Revise and Resubmit by 15<sup>th</sup> March 2010: 00**
- 5. Rejected/Dropped: 08**

## Institute of Wood Science & Technology, Bangalore

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakh)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	Enhancing dimensional stability and durability of wood for flooring application by eco-friendly thermal processing.	Dr. S. R. Shukla Scientist E	Wood Properties and Uses	2010	2013	19.41	<ul style="list-style-type: none"> <li>JRf is not allowed.</li> <li>Reduce the budget upto Rs.14 lakhs.</li> </ul>	Approved with revision
2	Effect treatment with micronized copper preservative on the strength, treat ability and durability of selected wood species.	Dr. S.R. Shukla Scientist E	Wood Properties and Uses	2010	2014	21.33	<ul style="list-style-type: none"> <li>Approved. Resubmit with industrial linkage, and also explore the same with Rubber Board</li> </ul>	Approve. Revised proposal submit by 15 <sup>th</sup> March 2010.
3	Development of botanical pesticidal formulation and demonstration of application fro healthy growth of forest plants.	Dr. O.K. Remadevi Scientist F	Wood Biodegradation	2010	2013	9.94	<ul style="list-style-type: none"> <li>Dropped</li> </ul>	Dropped
4	Screening of indigenous plant extractives fro developing eco-friendly marine wood preservatives.	M.V. Rao Scientist C	Wood Biodegradation (Marine)	2010	2014	8.78	<ul style="list-style-type: none"> <li>Reduce the budget to 6.32 Lakh</li> </ul>	Approved with revision
5	Growth and yield studies on forest plantations of teak in Karnataka for their sustainable management.	Dr. V.P Tewari Scientist F	Wood Energy	2010	2015	20.51	<ul style="list-style-type: none"> <li>FA is not allowed</li> <li>Revised the budget accordingly</li> </ul>	Approved with revision

Direct RPC

6	Study on effect of biofertilizers and irrigation on the growth performance of tree species viz. <i>Eucalyptus</i> , <i>Acacia auriculiformis</i> , <i>Casuarina equisetifolia</i> , <i>Leucaena leucocephala</i> , <i>Melia dubia</i> , <i>Ailanthus excelsa</i> etc.	Dr. A. Ponnambalam Scientist C	Forest Research Centre, Hyderabad	2010	2014	18.52	• Dropped	
7	Development of agro forestry model (Silvi medicinal system) based on <i>Santalum album</i> Land <i>Dalbergia latifolia</i> Roxb. In combination with <i>Gloriosa superba</i> (Lindl) and <i>Andrographis paniculata</i> (Burm.f)Wall ex. Nees.	N. R. Raveendra Prasad Research Officer	Forest Research Centre, Hyderabad	2010	2014	9.81	• Dropped	

**SUMMARY:**

1. Direct Projects: 07
2. Approved: 00
3. Approved with revision: 03
4. Revise and Resubmit by 15<sup>th</sup> March 2010: 01
5. Rejected/Dropped: 03

### Rain Forest Research Institute Jorhat

S n	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakh)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	Conservation, management and utilization of selected rattans of Assam and Arunachal Pradesh.	Dr. T. N. Manohara, Scientist C	Ecology & Biodiversity Conservation Division (E & BG)	2010	2013	22.196	<ul style="list-style-type: none"> <li>Budget approved 20.0 lakhs</li> </ul>	Approved with revision
2	Reproductive biology of <i>Aquilaria malaccensis</i> Lamk., a critically endangered and economically important species for effective conservation	Dr. T. N. Manohara, Scientist C	Ecology and Biodiversity Conservation Division (E & BG)	2010	2013	19.97	<ul style="list-style-type: none"> <li>Reduce the budget to Rs. 8.0 lakh,</li> </ul>	Approved with revision
3	Impact of biotic factors on the emission of CO <sub>2</sub> from soil and microbial immobilization of carbon in Dipterocarp forest with reference to climate change.	Dr. Rajesh Kumar, Scientist B	Forest Protection Division	2010	2015	30.24	<ul style="list-style-type: none"> <li>Come through next RAG</li> </ul>	dropped
4	Quality and yield improvement in agro-forestry based food produce under integrated nutrient management.	Dr. Triyugi Nath, Scientist C	Shifting Cultivation Division	2010	2014	27.18	<ul style="list-style-type: none"> <li>Reduce the budget to Rs. 14.0 lakh,</li> </ul>	Approved with revision
5	Phytodiversity assessment of Khasi Subtropical Wet Hill Forest in Meghalaya	Dr. Vaneet Jishthu, Scientist B		2010		11.17	<ul style="list-style-type: none"> <li>Complete the project in 2 years with a budget of Rs. 4.0 lakh.</li> </ul>	Approved with revision

**SUMMARY:**

1. Direct Project: 05
2. Approved: 00
3. Approved with revision: 04
4. Revise and Resubmit by 15<sup>th</sup> March 2010: 00
5. Rejected/Dropped: 01

## Indian Council Forestry Research Institute

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakhs)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1.	Analyzing the linkage between poverty alleviation and forestry programme	Shri Rakesh Dogra, ADG	(Education), ICFRE	2010		5.89	RPC approved the project as per proposal.	Approved
2.	Carbon stock assessment in Indias' forests for the period up to 2005.	Dr. G. S. Rawat,	DG, ICFRE	2010		84	RPC approved the project in principle assigning great importance of the subject. For the purpose, however, the RPC was of opinion that services of other best experts/trained professionals may also be taken from other than proposed experts, if required, in respective of increase in budget or duration of study. As, the result of this study may invite attention from peers from international community, the most appropriate and recognized strategies need to be adopted to carry out and conclude the study.	Approved

### SUMMARY:

1. Total Project: 02
2. Approved: 02
3. Approved with revision: 00
4. Revise and Resubmit by 15<sup>th</sup> March 2010: 00
5. Rejected/Dropped: 00

**ALL INDIA COORDINATED PROJECTS**



**Institute of Forest Genetics and Tree Breeding Coimbatore**

S N	Title of the project	Name of the PI	Division	Period		Proposed Budget (Rs. in Lakh)	RPC Proceedings	
				from	to		Project Specific RPC Recommendations & Observations	The RPC decision
1	All India Coordinated Project on Fast Growing Native Tree Species	Kannan C.S. Warriar (Project Coordinator) Kannan C.S. Warriar D. Rajasuguna Sekar Dr Rekha R. Warriar Dr A Vijayaraghavan V.K.W. Bachpai		2010	2020	874.15	Approved subject to the availability of funds.	Approved
2.	All India Co-ordinated programme for Improvement of Phyllodinous Acacias	Dr. Maheshwar Hegde		2010	2020	310.00	Approved subject to the availability of funds.	Approved

**SUMMARY:**

1. Total Projects: 02
2. Approved: 02
3. Approved with revision:
4. Revise and Resubmit by 15<sup>th</sup> March 2010:
5. Rejected/Dropped:

## New Projects: Final Position at a Glance

A Name of the Institute	B No. of projects proposed		C XI RPC Approved Projects				Total Approved	D Projects to be resubmitted by 15/03/10			Total projects for revision	E Projects Not approved / Dropped		Total Projects not approved	F Institute wise total	
	Throug h RAG	Direc t RPC	Approved		Approved with revision			RAG	Direct	RAG		Direct	RAG			Direct
			RAG	Direct	RAG	Direct										
IFGTB Coimbatore	37	2	2	2	23	0	27	4	0	4	8	0	8	39		
AFRI Jodhpur	11	5	1	0	4	1	6	1	0	1	5	4	9	16		
HFRI Shimla	4	0	0	0	2	0	2	2	0	2	0	0	0	4		
TFRI Jabalpur	18	10	5	1	4	1	11	5	0	5	4	8	12	28		
IWST Bangalore	14	7	7	0	4	3	14	1	1	2	2	3	5	21		
RFRI Jorhat	10	5	1	0	7	4	12	2	0	2	0	1	1	15		
IFP Ranchi	11	0	2	0	0	0	2	5	0	5	4	0	4	11		
FRI Dehradun	65	0	22	0	15	0	37	8	0	8	20	0	20	65		
ICFRE	0	2	0	2	0	0	2	0	0	0	0	0	0	2		
<b>Total</b>	<b>170</b>	<b>31</b>	<b>40</b>	<b>5</b>	<b>59</b>	<b>9</b>	<b>113</b>	<b>28</b>	<b>1</b>	<b>29</b>	<b>43</b>	<b>16</b>	<b>59</b>	<b>201</b>		

