

PROCEEDINGS (8th -9th April 2011)
**XII RESEARCH POLICY COMMITTEE
MEETING-2011**



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

CONTENTS

Proceedings of XII RPC Meeting	1
Programme	6
Annexure – I : List of Participants	8
Annexure – II: Thrust Areas and Themes	10
Annexure – III : New Research Projects placed before XII RPC	11
Annexure – IV: Status of Research Project Proposals	12
Annexure – V: RPC Recommendations and Observations	13

Proceeding of the XII meeting of the Research Policy Committee of Indian Council of Forestry Research and Education 8th - 9th April, 2011

Van Vigyan Bhawan, R.K. Puram, New Delhi



XII meeting of RPC was held in the Seminar Hall of Van Vigyan Bhawan, ICFRE, New Delhi on 8th - 9th April 2011 and was chaired by Shri A.K Bansal, Director General, ICFRE. List of participants is at **Annexure I.**

Dr G.S. Rawat, Deputy Director General (Research), ICFRE and Member Secretary, RPC, ICFRE welcomed the Members and briefed them about the mandate of RPC, and role of the members and informed that decision is to taken on 157 new research projects proposed by the ICFRE Institutes, in addition to request for extension of some ongoing projects.

Shri A.K Bansal, Director General, ICFRE in his opening remarks emphasized the need for developing core competence of different ICFRE institutes while catering the forestry needs of the country. IFGTB, Coimbatore under ICFRE, have core competence in “genetics and tree breeding”, IWST, Bangalore is specializes in “wood science and technology”. Similarly, other institutes of should also select theme and evolve their core competency in the selected field in the coming years. He also desired that focus is required on quality rather than quantity, and research works should either result in advancement of science, address needs of the Industry-SFD, or should be beneficial to the society. He sought opinion of members about the percentage efforts to be put in by different



the
RPC
of

institutes in the areas of their core competency and stakeholders’ needs and regional requirement in their respective geographic jurisdictions. He also suggested that Directors need to be given flexibility and responsibility to optimally utilize research funds and manpower by placing annual

agreed amounts and additional manpower at his disposal rather than the current practice of earmarking the same for different projects.



meetings and concept note formation. Thereafter, detail proposals are formulated and subject specific expert referees

Shri Ashish Rawat, ADG (Research Planning), ICFRE made a brief presentation about the research project formulation, prioritization and finalization process in the ICFRE institutes through stakeholders



comments are taken. The detail proposals are critically analyzed at the meeting of Research Advisory Group experts of the respective Institutes. Finally, projects recommended by RAG are placed before the RPC, the apex body of ICFRE to give final approval. For the information of the house, 7 thrust areas and themes covered under each thrust area of the ICFRE were presented (**Annexure II**). Distribution of 157 new research proposals to be deliberated upon by the RPC members, under these thrust area and themes was also shown (**Annexure III**).



Shri M.P Singh, ADG, Monitoring and Evaluation (M&E), ICFRE briefed the RPC members about monitoring and evaluation processes adopted by ICFRE. He made a brief presentation on thematic analysis of monitoring of the ongoing projects for the year 2010-11 and the research gaps identified on the basis of the Annual Review 2010. It was felt that some of the projects such as Characterization of forest soils, Soil Carbon Sequestration Status, Biodiversity Status,

need to be taken up at all ICFRE Institutes in programme mode so that all India scenarios can emerge.

A fresh look is required on certain important projects currently locked up in AICPs. Some of these can be taken up in programme mode at institute/ICFRE level. Tree improvement strategy and programmes



should be finalized for important species by the institute having core competence on the subject and projects at institute levels should be part of that programme. The methodology and the design of the research projects need improvement. Another support discipline of IT at ICFRE should take up the projects in association with extension wing on development of web portal for Forestry Research Extension so that dissemination of the research findings is effective and these portals should be interactive and all the queries from the public should be answered. Strategy needs to be drawn for dissemination and extension of research findings. To begin with, Guidelines/strategy for dissemination of research related information need to be prepared by Directorate of Extension for the benefit of all stakeholders.

Ms. Sonali Bisht, Member RPC opined to give more focus of research projects in ICFRE on the demands of stakeholder and community participation like tribal and forest management during new project formulation. Prof. M.K Pandit, Delhi University, suggested that projects on policy analysis will facilitate evolution of national forest policy. He supported the ideas of DG, ICFRE and stressed the need for giving more autonomy to Directors of the Institute so that they feel responsible for outcomes of the projects. All RPC Members agreed with the idea of DG, ICFRE and Chairman of RPC meeting.

Thereafter, the directors of the ICFRE institutes (in the order RFRI, HFRI, AFRI, IFGTB, FRI, IWST, IFP, and TFRI) made brief presentations highlighting various research activities of the respective institutes along with research



infrastructure, available man power, and core areas of research, important achievements.



After the introductory presentation by the institutes, the new research projects of the institutes were presented by the directors as per the attached programme. All the scientists of the institutes were present through video conferencing during the presentations of their respective institute and wherever required by RPC elaborations/clarifications were provided by them. All the RPC members actively participated at the deliberations and gave their valuable suggestions and input during the two daylong meeting. The house authorized the Chairman of the RPC to take final decision on the projects which are required to be re-submitted after modifications suggested by RPC.

All the new projects are categorized “Approved”, “Approved with Revision”, “Revise and resubmit”, “Recommended for external funding” and “dropped” and are enclosed as Annexure IV with the project specific recommendations of RPC. RPC authorized the Chairman of the RPC and DG ICFRE to decide on for modification/extension requested in respect of the ongoing projects and placed in the RPC on case by case basis after due analysis.

Important generic recommendations of the RPC members for the research policy, formalization and implementation of research projects are given below:

- For the optimum utilization of the available manpower, Directors of the institutes are responsible and they should be given the additional manpower based in consideration of the available manpower with the institute. Directors are to decide the final distribution of additional manpower as per the workload on a scientist and to get optimize Institute’s output and outcome.
- Directors of the institutes will be allotted additional fund for new research projects and it is to be



allotted to various project on detailed analysis of priority and need, under intimation to ICFRE hqrs within a month.

- All the institutes have to select theme for developing core competency of the institute. For example, IFP Ranchi may focus primarily on restoration of mining areas, as this is the demand of that area being in the mining belt of the country.
- Directors of the institute have to look in to the quality of research of the institute rather than being involved in research by themselves.
- Directors of the institute are to look into that the selection of referee is competent and comments of the referees are really analytical and where some changes have been suggested by the referee, it should be again sent to the referee after necessary modifications.
- Directors of the institute are to ensure that the projects submitted to the RPC are up to the mark having in-depth literature review, appropriate/detailed methodology and sample design, and adequate sampling intensity. The directors have to take the responsibility for the projects as per the format / policy of ICFRE.
- Contingency in any project budget should not be more than 5% of the total budget.
- Research work on tissue culture should be restricted to commercially important, rare and endangered and those species which are difficult to propagate by other methods. The research experiments should be economical vis-à-vis the need of technology. Work on costlier markers is to be avoided to the extent possible and instead if the simpler markers that can give desired results should be preferred. Scientists should take lead in the field work and not to be dependent on JRFs/ SRFs.
- Project having potential for giving national trends are to be coordinated from ICFRE hqrs. and to follow standard methodology.
- All agreed to projects are to be revisited by the Institutes on the above lines and re-submitted, complete in all respects, within a month for final decision.

It was decided that recommendations made during the RPC should be followed in letter and spirit by all concerned.

The meeting ended with the vote of thanks to the Chair, and all members.

Schedule for XII Research Policy Committee (RPC) Meeting ICFRE

Date - **8th and 9th April 2011**

Venue - **Van Vigyan Bhawan, Sector V, R.K. Puram,
New Delhi**

8th April, 2011 (Friday)

09.30 - 09.35 Introduction by DDG (R), Member Secretary, XII RPC
09.35 - 09.45 Presentation by ADG (RP) / ADG (M&E)
09.45 - 10.00 Opening Remarks by DG, ICFRE and Chairman, XII RPC
10.00 - 11.30 Introductory Presentations on research works / achievements of
Institutes by Directors:
(1.IWST, 2. RFRI, 3.IFGTB, 4.FRI, 5. HFRI, 6. IFP, 7.TFRI,
8. AFRI) - (Max 10 minutes each)

Technical Programme

8th April, 2011...

11.30 – 14.00 - Brief Presentation on Ongoing Research Projects (Progress)
- Presentation of New Research Project Proposals

1. Forest Research Institute, Dehradun (55 Projects)

14.00 - 14.30 LUNCH

Presentation and discussion continues-

14.30 - 16.00 **Forest Research Institute, Dehradun..contd**

16.00 - 18.00 **2. Institute of Wood Science & Technology, Bangalore
(26 Projects)**

9th April, 2011 (Saturday)

- 09.00 - 14.00
- Presentation on Ongoing Research Projects (Progress)
 - Presentation of New Research Projects

Institute of Wood Science & Technology, Bangalore .contd.

- 3. Tropical Forest Research Institute, Jabalpur
(14 Projects)**
- 4. Institute of Forest Productivity, Ranchi (16 Projects)**
- 5. Institute of Forest Genetics & Tree Breeding,
Coimbatore (22 Projects)**

14.00 - 14.30

LUNCH

14.30 - 18.00

Presentation and discussion continues-

- 6. Himalayan Forest Research Institute, Shimla (4
Projects)**
 - 7. Rain Forest Research Institute, Jorhat (9 Projects)**
 - 8. Arid Forest Research Institute, Jodhpur (11 Projects)**
- Wrap up and concluding session
 - Concluding remarks by DG / DDG (R)

**PARTICIPANTS OF XII RESEARCH POLICY COMMITTEE (RPC) MEETING HELD
AT VAN VIGYAN BHAWAN, NEW DELHI
8th & 9th April, 2011**

RPC MEMBERS	
1.	Shri A.K. Bansal, DG, ICFRE, & Chairman RPC
2.	Dr. G. S Rawat Dy Director General (Research) ICFRE
3.	Sh. M.S. Garbyal, DDG(Admin.) ICFRE
4.	Sh. Omkar Singh, DDG (Education), ICFRE
5.	Dr Rabindra Kumar, DDG (Extension) ICFRE
6.	Dr. Sandeep Tripathi, Director (Research), ICFRE
7.	Dr S.S Negi, Director, FRI, Dehra dun
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. T.S. Rathore, Director, AFRI Jodhpur
12.	Sh. N.K. Vasu, Director, RFRI, Jorhat.
13.	Shri Rameshwar Das, Director, IFP, Ranchi.
14.	Ms. Sonali Bisht, Advisor, Institute of Himalayan Environmental Research and Foundation, Masi Bazar, Masi 263 658 Almora
15.	Professor M.K. PANDIT , Director, Centre for Inter-disciplinary Studies of Mountain & Hill Environment, Delhi University, Academic Research Centre Building (3 rd Floor), Patel Marg, Delhi-110 007
16.	Dr. Satyawada Rama Rao, Prof. & Head, Department of Biotechnology, North Eastern Hill University, Shillong-793022
17.	Dr. K.K. Nag, (Retd. Prof. & Ex-VC), Ranchi & Binoba Bhave University, Hazaribagh), Rameshwaram, Bariatu Road, Ranchi – 834009
18.	Sh. Ashish Rawat, ADG (Research Planning) ICFRE
19.	Shri M.P. Singh, ADG (M&E), ICFRE
20.	Dr. Vimal Kothiyal, Scientist – F, FRI

OTHER PARTICIPANTS		
1.	Sh. A.S. Rawat	Group Coordinator (R), FRI Dehradun
2.	Dr. V. Nath	Group Coordinator (R), TFRI Jabalpur
3.	Dr. B.N. Mohanty	Group Coordinator (R), IWST, Bangalore
4.	Dr.S.A. Ansari	Scientist F, TFRI Jabalpur
5.	Dr Sushma Mahajan	Scientist F, ICFRE
6.	Dr. R.K. Verma	Scientist E, HFRI Shimla
7.	Dr. Sanjay Singh	Scientist D, IFP, Ranchi
8.	Shri Jatender Singh	Scientist D, ICFRE
RAPORTEURS		
1.	Dr Anita Srivastava	Scientist, E ICFRE
2.	Dr. B.M Dimri	Scientist, B ICFRE
3.	Dr. Anil Negi	Scientist, B ICFRE
4.	Dr. Devendra Kumar	Research Officer, ICFRE
SUPPORTANT TEAM		
1	Smt. Manjeet Sharma	PS to ADG (RP)
2	Sh. PankajThapa	UDC to ADG (RP)
3	Sh. J.P. Pandey	
4	Sh. Anoop Singh	

Forestry Research : Thrust Areas and Themes		
Sl. No.	Thrust Area	Theme
1	Ecosystem Conservation and Management	<ol style="list-style-type: none"> 1. Climate Change 2. Ecology and Environment 3. Biodiversity 4. Forest Botany 5. Tribals and Traditional Knowledge System
2	Forest Management	<ol style="list-style-type: none"> 1. Sustainable Forest Management (SFM) 2. Forest Economics 3. Forest Biometrics 4. Participatory Forest Management 5. Policy and Legal Issues 6. Information and Communication Technology (ICT)
3	Forest Productivity	<ol style="list-style-type: none"> 1. Silviculture 2. Social Forestry, Agro-forestry /Farm Forestry 3. Forest Soils and Land Reclamation 4. Watershed Management
4	Forest Protection	<ol style="list-style-type: none"> 1. Insects pests, diseases and control 2. Mycorrhizae, rhizobia and other useful microbes 3. Weeds and Invasive species 4. Forest Fire and Grazing
5	Genetic Improvement	<ol style="list-style-type: none"> 1. Conservation of Forest Genetic Resources 2. Tree Improvement 3. Vegetative Propagation 4. Biotechnology
6	Non-wood Forest Products (NWFPs)	<ol style="list-style-type: none"> 1. Resource Development of NWFPs 2. Sustainable Harvesting and Management 3. Chemistry of NWFPs, Value Addition and Utilization 4. Biofuels and Bioenergy
7	Wood Products	<ol style="list-style-type: none"> 1. Wood and other Lignocellulosic Composites 2. Wood Processing 3. Value Addition and Utilization 4. Wood Chemistry 5. Pulp and Paper

New Research Projects Proposals placed before XII RPC

Annexure - III

Sl. No	Thrust Area	Theme	AFRI	FRI	HFRI	IFGTB	IFP	IWST	RFRI	TFRI	Total
			a	b	c	d	e	f	g	h	
1	Ecosystem Conservation and Management	Climate Change		6	1	1			1		9
		Ecology and Environment	1			2				2	5
		Biodiversity	1			1	1	1	1		5
		Forest Botany									0
		Tribals and Traditional Knowledge System							2		2
		Sub Total	2	6	1	4	1	1	4	2	21
2	Forest Productivity	Silviculture	1	2	1		3				7
		Social Forestry, Agro-forestry /Farm Forestry		3		1	4		1		9
		Forest Soils and Land Reclamation	1	2							3
		Watershed Management									0
		Sub Total	2	7	1	1	7	0	1	0	19
3	Genetic Improvement	Conservation of Forest Genetic Resources		2		2	1	1		2	8
		Tree Improvement		7	2	7	3	2			21
		Vegetative Propagation	2	2		1					5
		Biotechnology									0
		Sub Total	2	11	2	10	4	3	0	2	34
4	Forest Management	Sustainable Forest Management (SFM)									0
		Forest Economics		2							2
		Forest Biometrics						3			3
		Participatory Forest Management									0
		Policy and Legal Issues		1							1
		Information and Communication Technology (ICT)				2					2
		Sub Total	0	3	0	2	0	3	0	0	8
5	Forest Products	Wood and other Lignocellulosic Composites		2				2			4
		Wood Processing		2				2			4
		Value Addition and Utilization		1				2			3
		Wood Chemistry						4			4
		Pulp and Paper		1							1
		Sub Total	0	6	0	0	0	10	0	0	16
6	Non-wood Forest Products	Resource Development of NWFPs		3							3
		Sustainable Harvesting and Management	1	1							2
		Chemistry of NWFPs, Value Addition and Utilization	2	9				6	1	5	23
		Bio-fuels and Bio-energy									0
		Total	3	13	0	0	0	6	1	5	28
7	Forest Protection	Insects pests, diseases and control		5		1	4	3	1	5	19
		Mycorrhizae, rhizobia and other useful microbes	2	3		2			2		9
		Weeds and Invasive species				2					2
		Forest Fire and Grazing		1							1
		Sub Total	2	9	0	5	4	3	3	5	31
		Total Proposals	11	55	4	22	16	26	9	14	157

Annexure-IV

INSTITUTE WISE STATUS OF THE RESEARCH PROJECTS PROPOSALS AFTER XII RPC MEETING

Name of the Institute	No. of projects proposed	Approved	Approved with revision	Revise and resubmit by 25 th April 2011	Dropped	Recommended for external funding	** All India Coordinated Project (AICP)
		(A)	(B)	(C)	(D)	(E)	
FRI Dehradun	55	12	19	9	11	4	1 (Under the umbrella of IFGTB)
IWST Bangalore	26 + 1*	15	8	2	2	-	0
TFRI Jabalpur	14	1	8	1	4	-	1 (Under the umbrella of BCC Div. ICFRE)
IFP Ranchi	16	-	7	3	6	-	0
IFGTB Coimbatore	22	3	11	1	7	-	1 (Under the umbrella of IFGTB)
HFRI Shimla	4	-	4	-	-	-	0
RFRI Jorhat	9	3	3	2	1	-	1 (Under the umbrella of BCC Div. ICFRE)
AFRI Jodhpur	11	3	4	1	1	2	0
Total	157 + 1	37	64	19	32	6	
* 1 project of IWST submitted directly to the RPC. ** No. of total projects include the projects as AICP.							

Institute wise

XII RPC Recommendations & Observations

On

the Research Project Proposals presented

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 wood properties and growth performance of Eucalyptus hybrids raised in multilocation trials.	Dr. P. K. Pande	Botany	2011	2014	11.70	Approved	Approved
2.	Ecological and economic impact and danger rating system of forest fire in Sal and Chir pine forest of Uttarakhand	Shri H.B. Vasistha	Ecology & Environment	2011	2015	20.12	More literature survey is needed for good results and publications.	Revise and resubmit by 25 th April 2011
3.	Application of defects detection technique on standing trees.	Dr. Y.M. Dubey	Forest Products	2011	2014	1.88	Approved	Approved
4.	Evaluation of <i>Broussonetia papyrifera</i> and <i>Lannea coromandilica</i> for paper making.	Dr. S.P. Singh	Forest Products	2011	2013	5.59	<i>Broussonetia papyrifera</i> is a slow growing species. Replace it with fast growing species for pulp and paper making.	Revise and resubmit by 25 th April 2011
5.	Studies on the suitability of different combinations of plantation grown species for laminated veneer lumber (LVL)	Shri D.P. Khali	Forest Products	2011	2014	4.97	Reduce duratin for 2 years and explore the possibility for collaborated project with IPIRTI, Bangalore.	Approved subject to the RPC recommendation
6.	Development of suitable harvesting strategy and	Dr. Pradeep	NWFP	2011	2015	16.30	Dropped	Dropped

	post harvesting techniques of medicinal tree <i>Terminalia arjuna</i>	Sharma						
7.	Diversification of Hill Agriculture through Integration of medicinal/aromatic Plants for Livelihood Improvement in Garhwal Himalayas	Dr. Vishavjit Kumar	NWFP	2011	2014	5.80	<ul style="list-style-type: none"> • Change in title i.e. “Diversification of hill agriculture through integration of medicinal/ aromatic plants for livelihood”. • Change the Short term objectives i.e. To assess suitability of cultivation of <i>Thymus serpyllum</i> on stone walls of terraced hill agricultural fields. • Reduce the budget accordingly. • Reduce the duration for 2 years. 	Approved subject to the RPC recommendation
8.	Bioecology and management of the gall insect in Eucalyptus	Dr. Shamila Kaliya	Forest Entomology	2011	2014	12.66	Recommended for collaborative project with IFGTB, Coimbatore & TFRI, Jabalpur as All India Coordinated Project (AICP) under the umbrella of IFGTB, Coimbatore.	Revise and resubmit by 25 th April 2011
9.	Development of molecular diagnostic kits for identification and early detection of nursery and plantation pathogens of Eucalyptus	Shri. Amit Pandey	Forest Pathology	2011	2014	13.85	<ul style="list-style-type: none"> • Studies should be very specific and specified about the fungal pathogen. • Reduce the budget 	Revise and resubmit by 25 th April 2011
10.	Evaluation of Prospects for Cultivation of <i>Bombax ceiba</i> and Identification of Its Promising Seed Sources in Northern India	Dr. Dinesh Kumar	Silviculture	2011	2015	17.97	<ul style="list-style-type: none"> • Change the title i.e. “Evaluation of <i>Bombax ceiba</i> for seed sources in Northern India”. • More literature survey is to be done. 	Revise and resubmit by 25 th April 2011

11.	Phytochemical screening of selected wild edible plants for exploration of new sources of Luteolin	Dr. Y.C. Tripathi	Chemistry	2011	2014	8.65	<ul style="list-style-type: none"> Select at least five species for the study. Reshuffle the objectives from bottom to top. 	Approved subject to the RPC recommendation
12.	Assessment of Soil Quality Indicators for growing different Plantations in Uttarkashi District.	Dr. C. M. Mathavan	FSLR	2011	2014	6.66	Suggested Forest stand instead of plantations studies in the projects.	Approved
13.	Evaluation of different genotypes and recombinants of eucalypts for adaptability and productivity	Ms. Parveen	G&TP	2011	2016	17.20	<ul style="list-style-type: none"> Change the title “Evaluation of different genotypes of eucalypts” Revise the budget and work plan accordingly. Third objectives should be dropped. Reduce the duration from 5 years to 3 years. 	Revise and resubmit by 25 th April 2011
14.	Ecological studies under different plantations in Doon Valley	Ms. Mridula Negi	Ecology & Environment	2011	2014	5.82	Dropped	Dropped
15.	Carbon Footprint Mapping of Forest Research Institute	Shri T. Johri	CC&FI	2011	2013	7.50	Follow standard methodology for all ICFRE institutes.	Approved
16.	Development of Enrichment Techniques for selected Medicinal Plant Conservation Areas of Uttarakhand	Dr. Vishavjit Kumar	NWFP	2011	2014	7.35	<ul style="list-style-type: none"> Change the title “ Development of sustainable model for selected Medicinal Plants Conservation Areas (MPCAs) of Uttarakhand Himalayas”. Project period should be increased from 3 years to 5 years. Involve community and SFDs in this programme. 	Approved subject to the RPC recommendation
17.	To study the extent of medicinal plants available,	Dr. Anubha	CSFER	2011	2014	5.00	Dropped	Dropped

	its traditional knowledge and Ethno-botanical studies in the district of Sonabhadra (Renukoot) of U.P.	Srivastav						
18.	Studies for value addition of <i>Prosopis juliflora</i> seeds for fodder and feed	Dr. P.K. Gupta	Chemistry	2011	2014	8.68	Dropped	Dropped
19.	Evaluation of productivity of some important medicinal plants with <i>Melia composita</i> and <i>Emblica officinalis</i> in degraded land of Punjab and Uttarakhand	Shri Ram Bir Singh	Extension	2011	2016	15.70	<ul style="list-style-type: none"> • Change the title “Development of Model of some important medicinal plants with <i>Melia composita</i> and <i>Emblica officinalis</i> in degraded land of Punjab and Uttarakhand”. • Combine with project at Sl. No. 36. • Work out at least two models in two different places. 	Revise and resubmit by 25 th April 2011
20.	Assessment of soil microbial community and soil quality under poplar and eucalyptus plantations in Haryana	Dr. Parul Bhatt Kotiyal	FSLR	2011	2012	9.06	Review literature thoroughly and . prepare objectives accordingly	Approved subject to the RPC recommendation
21.	Standardization of seed and nursery technology of <i>Lannea cromandelica</i> (Houtt) Merr. and <i>Holoptelea intergrifolia</i> (Roxb.) Planch	Shri Ved Pal Singh	Silviculture	2011	2012	4.67	<ul style="list-style-type: none"> • Suggested for nursery development. • Write for collaboration to SFD Uttarakhand also. 	Approved subject to the RPC recommendation
22.	Soil bacteria population and diversity under Alpine meadows of Uttarakhand.	Dr. Parul Bhatt Kotiyal	FSLR	2011	2014	7.41	Suggested to identify methodology for study the climate change aspects also.	Approved
23.	Chemical modification	Shri.	Forest	2011	2014	6.66	• Synergy the project with IWST,	Approved

	of wood for durability improvements.	Ajmal Samani	Products				Bangalore. • Workout the details for collaborative project.	subject to the RPC recommendation
24.	Enzyme aided alternative process for the extraction of oil from <i>Cymbopogon citratus</i> (lemon grass).	Dr. Rashmi	Chemistry	2011	2014	7.32	The material should be authenticated. Name the places where materials/genotype are to be collected.	Approved subject to the RPC recommendation
25.	Screening of some forest tree species for their antioxidant properties	Dr. V.K. Varshney	Chemistry	2011	2014	2.50	Approved as such	Approved
26.	Process refinement for extraction of quality fiber and optimal isolation of bioactive constituents from <i>Agave sisalana</i>	Dr. Y.C. Tripathi	Chemistry	2011	2014	8.40	Approved as such	Approved
27.	To study the market mechanism & Trade of Wood of <i>Ailanthus excelsa</i> , and <i>Melia spp</i> in Haryana	Shri H.P. Singh	RS&M	2011	2013	6.64	Project is approved subject to that the study should be generic and marketing in Punjab, Haryana and West UP to be studied.	Approved subject to the RPC recommendation
28.	Development of DUS descriptors in <i>Dalbergia sissoo</i> Roxb.	Dr. Ashok	G&TP	2011	2014	15.72	House stressed that the work is already done for release of clone. Develop methodology first.	Recommendation for external funding/ Collaboration
29.	Sustainable management of degraded lands through geological and geomorphological investigations in Haryana.	Dr. A.K. Raina	FSLR	2011	2014	6.71	Dropped	Dropped
30.	Mortality and evaluation of health status of trees alongside roads and	Shri Suresh Chandra	Forest Pathology	2011	2014	6.00	Collaborative project should be taken with SFDs for training to Urban people.	Recommendation for external funding/

	avenues at Dehra Dun							Collaboration
31.	Vegetative propagation of Acer pictum by different rooting hormones.	Shri S.R. Joshi	Silviculture	2011	2013	3.08	Develop protocol for different species.	Approved
32.	Molecular characterization & validation of the accessions of National Type Culture Collection (NTCC) through ITS region analysis of ribosomal DNA	Shri. Amit Pandey	Forest Pathology	2011	2016	35.57	ITS sequences is not easy job and find out possibility first to do the job perfectly. Explore external funding from DBT because it is massive task for present and future germplasm preservation.	Recommendation for external funding/ Collaboration
33.	Study of drying stresses in wood during seasoning through non-destructive method.	Shri Shailendra Kumar	Forest Products	2011	2013	0.56	Approved	Approved
34.	Study on essential oil composition of Skimmia laureola from wild and domesticated sources	Dr. Pushpa Borai	NWFP	2011	2013	4.00	Approved with budget of Rs. 2.00 lakhs.	Approved subject to the RPC recommendation
35.	Estimation of Soil Carbon Sequestration of Sal and Pine Forests of Uttarakhand	Dr. C. M. Mathavan	FSLR	2011	2014	7.16	Revise and resubmit as per referees' comments.	Revise and resubmit by 25 th April 2011
36.	Development of agroforestry models based on Burma Drek (<i>Melia composita</i> and study on tree-crop interaction on dry land in Haryana and Uttar Pradesh	Dr. Charan Singh	Extension	2011	2016	8.83	Merged with project at Sl.No. 19.	Dropped
37.	Microbial biomass carbon and nitrogen and	Dr. Parul Bhatt	FSLR	2011	2014	7.31	Dropped	Dropped

	its relationship with soil bacteria under different forest covers of Pithoragarh, Uttarakhand.	Kotiyal						
38.	Impact of Mining Restoration on Aravali Hills.	Dr. Pramod Kumar	Ecology & Environment	2011	2014	6.02	Dropped	Dropped
39.	Ecological efficiency of urban forest with reference to on-road vehicle pressure, emission and built environment in selected areas of Chandigarh	Dr. V. Jeeva	Ecology & Environment	2011	2014	13.54	Dropped	Dropped
40.	Development of Category Shades of Natural Dyes of <i>Pinus roxburghii</i> and <i>Mallotus philippensis</i>	Shri Rakesh Kumar	Chemistry	2011	2014	7.57	Project period for 2 years and revise budget accordingly.	Approved subject to the RPC recommendation
41.	<i>Screening of Poplar genotypes for resistance against Alternaria alternata Toxin (s)</i>	Dr. Y.P. Singh	Forest Pathology	2011	2014	12.56	Approved for Rs. 8.00 Lakhs only.	Approved subject to the RPC recommendation
42.	Studies on the suitability of paper mulberry for plywood.	Shri. D.P. Khali	Forest Products	2011	2014	4.77	Approved	Approved
43.	Evaluation of Santalum album grown in plateau area of Uttar Pradesh adjoining Madhya Pradesh and Uttarakhand for yield, quality and composition of essential oil	Shri Rakesh Kumar	Chemistry	2011	2014	3.90	Approved	Approved

44.	Population Genetic Analysis of Himalayan Banj Oak (<i>Quercus leucotrichophora</i>) forests and its pertinence to Genetic Conservation	Dr. H.S.Ginwal	G&TP	2011	2014	33.30	<ul style="list-style-type: none"> • Collaborated project with HFRI, Shimla. • Outcome of the previous similar study on Deodar and develop tree breeding programme first then on the basis of result take another species of oak with simple marker. • Start this study with simple three markers and then it goes to higher marker like SSR and CPSSR marker etc. • Revise budget. 	Approved subject to the RPC recommendation
45.	Development of Plantation and Tree Management Plan for Delhi Urban Areas	Dr. V R R Singh	Silviculture	2011	2014	17.00	Explore funding from External sources like Delhi Govt.	Recommendation for external funding/ Collaboration
46.	To assess the ecological status of <i>Lantana camara</i> , <i>Pathenium hysterophorus</i> , and <i>Ageratum conyzoides</i> invasion under different landscapes of Shiwalik hills of Haryana	Nirmal Ram	Ecology & Environment	2011	2014	6.76	<ul style="list-style-type: none"> • Change the title “Ecology and watershed study in Mussoorie area”. • Include watershed area and resubmit the project by 25th April, 2011. 	Revise and resubmit by 25 th April 2011
47.	Conservation and Cultivation of Economically Valuable Lesser Known/Less Utilized Fruits Tree Species and to Determine Possible Chemical Components present in Fruits	Anita Tomar	Silviculture	2011	2014	9.00	Project approved subject to revision of budget excluding the equipment..	Approved subject to the RPC recommendation
48.	Evaluation of Germplasm of Tree Species for Drought	Dr. Santan Barthwal	G&TP	2011	2015	40.24	Dropped	Dropped

	Affected Sites of Haryana State							
49.	Evaluation of Potentials and Constraints of Agroforestry Development in Punjab, Haryana and Tarai areas of Uttarakhand based on Econometric Analysis.	Shri Jawaid Ashraf	RSM	2011	2014	25.71	<ul style="list-style-type: none"> • Reduce the time period to 2 years and budget to Rs 5.00 lakhs. • Confine the study to one state only i.e. Uttarakhand. 	Approved subject to the RPC recommendation
50.	Taxonomic studies of order Thysanoptera of Uttarakhand and updating of thrips insects of National Insect Reference Collection, FRI Dehradun.	Dr. Neena Chauhan	Forest Entomology	2011	2015	9.02	The project approved for Rs.9.00 lakhs with change in title.	Approved subject to the RPC recommendation
51.	Characterization of <i>Pinus roxburghii</i> for resin yield and spiral grain formation in wood using NIR spectroscopic methods and association studies using molecular markers	Dr. Santan Barthwal	G&TP	2011	2014	34.38	Approved subject to revision with simple markers and revision of budget to Rs. 25.00 lakhs.	Approved subject to the RPC recommendation
52.	To develop macro-proliferation techniques of <i>Desmodium gangeticum</i> DC. and to find its reproductive capacity.	Anita Tomar	Silviculture	2011	2015	12.00	Change the title and formulate for 3 years with budget of Rs. 5.00 lakhs.	Approved subject to the RPC recommendation
53.	To Study the Socio-economic constraints of Taungya Farmers in Eastern Uttar Pradesh	Shri. B.K. Pandey	CSFER	2011	2014	7.21	The project is withdrawn by Director, FRI.	Dropped

	and its Effect on Regeneration							
54.	Genetic evaluation of <i>Grewia optiva</i> and establishment of germplasm bank of <i>Bauhinia variegata</i>	Dr. Shilpa Gautam	G&TP	2011	2016	25.02	<ul style="list-style-type: none"> • Accession numbers should be as per the standard mechanism of authentication of genotype. Therefore precaution should be taken for the repetition of accession. • The accession numbers should be placed in public domain and National registry system. 	Approved
55.	Allelopathic potential in regeneration of Sal (<i>Shorea robusta</i>) forests	Dr. Ombir Singh	Silviculture	2011	2016	15.54	Approved with budget revision.	Approved subject to the RPC recommendation

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.	Growth variability in <i>Melia dubia</i> plantations and seed germination studies.	Dr. A.N. Arun Kumar	Tree Improvement and Propagation	2011	2016	7.20	Approved	Approved
2.	Production of Synthetic Biodiesel from the Wood Waste.	R. Ezhumalai	Wood Energy	2011	2014	15.50	Approved	Approved
3.	Study the effect of microwave irradiation and seed storage conditions on quality of <i>Pongamia pinnata</i> (L.) seed oil for cost effective production of biodiesel.	Ritesh Kumar D. Ram	Wood Energy	2011	2014	15.98	Change the title "Study the effect of microwave based heating and seed storage conditions on quality of <i>Pongamia pinnata</i> (L.) seed oil for cost effective production of biodiesel".	Approved subject to the RPC recommendation
4.	Development of coccinellids based biocontrol programmes for the management of sandal scales and mealy bugs.	Dr. R. Sundararaj	Wood Biodegradation	2011	2015	11.91	Approved	Approved
5.	Molecular assessment of breeding patterns in clonal seed orchards of Teak in Andhra Pradesh.	Dr. S. Pattanai k,	Forest Research Centre, Hyderabad	2011	2014	31.00	<ul style="list-style-type: none"> Collaborate with SFD, Andhra Pradesh. Include expert and explore external funding also. 	Revise and resubmit by 25 th April 2011
6.	Structure, diversity and regeneration studies in permanent preservation plots in moist deciduous	Dr. Syam Viswanath	Tree Improvement and Propagation	2011	2014	14.31	Approved	Approved

	and evergreen forests of Western Ghats in Karnataka.							
7.	Development of commercially viable production system for <i>Aquilaria malaccensis</i> for promoting cultivation and management for agarwood production in humid tropics of Karnataka.	Dr. Ashutosh Srivastava	Tree Improvement and Propagation	2011	2016	19.248	Revise the objectives and also explore possibility the collaboration with RFRI, Jorhat.	Approved subject to the RPC recommendation
8.	Biomass, Net Primary Productivity and nutrient dynamics of seven industrially important bamboo species in semi arid and humid tropics of Peninsular India	Dr. Syam Viswanath	Tree Improvement and Propagation	2011	2014	16.65	Approved	Approved
9.	Natural fiber-PVC composites for light structural applications.	Dr. Pankaj K. Aggarwal	Wood Seasoning and Preservation	2011	2014	22.61	Approved	Approved
10.	Microwave assisted chemical modification of wood.	Dr. K.K. Pandey	Wood Seasoning and Preservation	2011	2013	8.14	Approved	Approved
11.	Development of botanical pesticidal formulations and demonstration of application in forest nurseries and plantations.	Dr. O.K. Remadevi	Wood Biodegradation	2011	2014	11.50	Approved	Approved
12.	Evaluation of strength	N.C.M.	Wood	2011	2014	3.50	• Suggested for technical revision.	Approved subject

	properties of Finger joints of <i>A. auriculae-formis</i> A. Cunn. ex Benth of different ages for various end uses	Rajan	Properties and Uses				<ul style="list-style-type: none"> Reduce duration for 2 years. 	to the RPC recommendation
13.	Establishment and evaluation of multilocational trials of <i>Melia azedarach</i> L. and <i>Melia dubia</i> Cav. (Ex. M. Roem) (Phase-II)	Dr. G.R.S. Reddy	Forest Research Centre, Hyderabad	2011	2015	19.33	Collaborate with IFGTB, Coimbatore.	Revise and resubmit by 25 th April 2011
14.	Growth stresses in clones of Eucalyptus hybrid in different environmental conditions.	Dr. Pankaj K. Aggarwal	Wood Seasoning and Preservation	2011	2016	13.96	Dropped	Dropped
15.	Refinement and standardization of protocols for in vitro propagation and genetic fidelity studies of micro propagated plants of two bamboo species <i>Bambusa balcooa</i> and <i>Thyrsostachys oliveri</i>	Dr. Ashutosh Srivastava	Tree Improvement and Propagation	2011	2015	15.48	PI should develop long term tree improvement programme and focus on these issues.	Approved
16.	Nanoparticles based wood coatings for outdoor applications.	Dr. K.K. Pandey,	Wood Seasoning and Preservation	2011	2014	12.99	Approved	Approved
17.	Studies on macro wood deteriogens at Kakinada port and Narsapur Greenfield port, Andhra	Dr. M. Balaji	Wood Biodegradation (Marine)	2011	2014	9.703	Approved	Approved

	Pradesh.		Centre					
18.	Pest and natural enemy dynamics in selected silvi- horti systems of Karnataka State.	Raja Muthukrishnan	Wood Biodegradation	2011	2014	7.50	Revise budget to Rs. 2.00 lakhs	Approved subject to the RPC recommendation
19.	Population structure and phenology of selected species distributed across altitudinal gradient in central Western Ghat Forests of Karnataka	Dr. Geeta Joshi,	Tree Improvement and Propagation	2011	2015	15.90	Dropped	Dropped
20.	Microbial biosynthesis of poly-hydroxy alkanates (PHA) from wood waste.	Dr. A. Muthukumar	Wood Biodegradation	2011	2014	6.87	Project approved subject to revision of budget to Rs. 3.90 lakhs without JRF/T.A.	Approved subject to the RPC recommendation
21.	Soil Carbon Sequestration in traditional agroforestry systems in Karnataka	Dr. Syam Viswanath,	Tree Improvement and Propagation	2011	2014	41.23	Project approved subject to revision of budget to Rs. 16.74 lakhs.	Approved subject to the RPC recommendation
22.	Development of Sandal (<i>Santalum album</i> Linn.) Information System	V. Soundara-ajan	Information Technology Cell	2011	2013	5.00	Approved	Approved
23.	Study of soil properties of forest soils to suggest suitable plant species in Nalgonda district of Andhra Pradesh	Dr. A. Ponnambalam	Forest Research Centre, Hyderabad	2011	2014	13.16	Project approved subject to revision of budget to Rs. 8.00 lakhs.	Approved subject to the RPC recommendation
24.	Carbon sequestration in the soils of five different forest types from East Godavari district of Andhra Pradesh	Dr. A. Ponnambalam	Forest Research Centre, Hyderabad	2011	2014	13.06	<ul style="list-style-type: none"> • Revise budget to Rs. 8.00 lakhs • All India Coordinated Project under the umbrella of BCC Division, ICFRE. 	Approved subject to the RPC recommendation
25.	Vegetative propagation and silvicultural practices	Dr. Geeta	Tree Improvement	2011	2016	24.92	Approved. Sponsored by MoEF.	Approved

	for selected tropical timber species for plywood and panelwood industries	Joshi	nt and Propagation					
26.	Furfurylation of wood to improve properties for various application.	Anil Kumar Sethy	Wood Properties and Uses	2011	2014	6.20	Approved	Approved
27.	Wood Quality Variability in some timbers	S.S. Chauhan		2011	2014	4.46	Approved	Approved

INSTITUTE OF FOREST GENETICS AND TREE BREEDING

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.	Restoration ecology and species recovery studies in Tsunami impacted mangrove areas of Andamans	K. Ravichandran,	Division of Forestry, Land Use and Climate Change	2011	2016	33.03	Approved with one JRF	Approved subject to the RPC recommendation
2.	Development of models for conversion of plantations into secondary forests in Andaman & Nicobar islands	K. Ravichandran,	Division of Forestry, Land Use and Climate Change	2011	2016	33.23	Approved with one JRF, Encourage to take such type of project	Approved subject to the RPC recommendation
3.	Selection and Screening of Germplasm of <i>Thespesia populnea</i> for Improving Productivity	Dr Kannan C.S. Warriar	Division of Genetics and Tree Breeding	2011	2016	25.69	Approved with one FA instead of JRF	Approved subject to the RPC recommendation
4.	Adaptive variations for CO ₂ induced physiological forcing in Eucalyptus	Dr. Rekha R. Warriar	Division of Plant Biotechnology	2011	2015	40.01	Dropped	Dropped
5.	Genetic Improvement of <i>Gmelina arborea</i> Roxb. through selection and clonal evaluation.	Mr. A. Mayavel	Division of Genetics and Tree Breeding	2011	2016	22.71	Recommended for the part of All India Co-ordinated Project	Approved subject to the RPC recommendation
6.	Anti-insect secondary metabolites from fungal endophytes of selected tree species.	Dr. N. Senthil Kumar	Division of Bioprospecting	2011	2014	22.1	Approved with one FA only.	Approved subject to the RPC recommendation
7.	Selection and Evaluation	Dr. K.	Division of	2011	2015	18.38	Approved	Approved

	of High yielding clones of <i>Pongamia pinnata</i>	Palanisa my	Seed Technology					
8.	Genetic Diversity, Population Structure and Species Recovery in <i>Canarium strictum</i> Roxb.–A Medicinally Important Red listed Taxon.	Desha Meena	Division of Plant Biotechnology	2011	2014	12.50	<ul style="list-style-type: none"> Remove DNA marker part Collect seeds as much as possible Phenology and reproductive biology may be studied initially Grow the nursery to develop enough population first and increase density Developing conservation and management studies to achieve minimum size/ viable population Recast the project with a budget outlay of Rs. 4.5 lakh without JRF 	Revise and resubmit by 25 th April 2011
9.	Studies on productivity and value addition in selected bamboo species of Tamil Nadu.	Shri. M. Maria Dominic Savio	Division of Forestry, Land Use & Climate Change	2011	2016	27.158	Dropped	Dropped
10.	Selection and Evaluation of <i>Grevillea robusta</i> Cunn. for Large-scale plantation Programme in Tamil Nadu	Mr. A.Mayavel	Division of Genetics and Tree Breeding	2011	2016	24.36	Dropped	Dropped
11.	Evaluation of seed orchards of Eucalyptus and Casuarina for fertility, qualitative and quantitative characteristics of seeds	Hukum Singh	Division of Seed Technology	2011	2014	13.51	Approved without JRF	Approved subject to the RPC recommendation
12.	The study of bioecology and conservation management of endemic plants of Kalakadu	Shri.S.K. Shanmugha Sundara	Division of Biodiverstiy	2011	2015	36.09	<ul style="list-style-type: none"> Change the title viz. “The study of biology and conservation of endemic plants of Kalakadu Mundanthurai Tiger Reserve, Tamil Nadu.” 	Approved subject to the RPC recommendation

	Mundanthurai Tiger Reserve, Tamil Nadu.	m,					<ul style="list-style-type: none"> • Remove the DNA Part • Approved with a budget of Rs. 20.00 Lakhs 	
13.	Evaluation of Seed Source Variations and Germplasm Assemblage of <i>Macaranga peltata</i> (Roxb.) Mueller	Dr. A. Vijayaragavan	Division of Forestry Land Use and Climate Change	2011	2014	15.50	<ul style="list-style-type: none"> • No logic for conducting genetic variation since it is open pollinated • Project may be modified taking second objective only into consideration • Approved without JRF 	Approved subject to the RPC recommendation
14.	Study on physiological and biochemical characteristics of different seed sources of <i>Gmelina arborea</i> Roxb in India.	Hukum Singh	Division of Seed Technology	2011	2014	15.46	Dropped	Dropped
15.	Population structure, regeneration status and pollination ecology of <i>Dalbergia latifolia</i> and <i>D. sissooides</i>	Dr. K. R. Sasidharan	Division of Biodiversity	2011	2016	33.96	Approved with one JRF	Approved subject to the RPC recommendation
16.	Risk Assessment for Invasive Alien Insect, Papaya mealybug, <i>Paracoccus marginatus</i> and its Proliferation Prevention Measures	Dr. N. Senthil Kumar	Division of Bioprospecting	2011	2014	15.924	Approved with financial outlay of Rs. 5.00 Lakh without JRF	Approved subject to the RPC recommendation
17.	Impact of weed management options on biodiversity conservation in Deciduous and Thorn forest of Tamil Nadu	Dr. K. Paneer Selvam	Division of Biodiversity	2011	2014	31.57	Dropped	Dropped
18.	Development of Pedigreed Eucalypt Potted Seed Orchards (PEPSO) and Testing of	K.S.Venkataramanan	Division of Plant Biotechnology	2011	2014	11.354	Dropped	Dropped

	Bio-regulators for improved flowering and Seed Production							
19.	An improved holistic approach for development of database on fast growing tree species targeting stakeholders in Tamilnadu and Kerala	Vivekandan, R	Computer Division	2011	2014	7.942	Approved with a budget of Rs. 10.00 Lakh for both projects at S. No. 19 and 20.	Approved
20.	A New paradigm: A study to evaluate different innovative and successful marketing strategies and its suitability for forestry products	Vivekandan, R	Computer Division	2011	2013	8.312	Approved with a budget of Rs. 10.00 Lakh for both projects at S. No. 19 and 20.	Approved
21.	Assessment of disease problems of selected fast growing indigenous tree species in Tamil Nadu	Dr. V. Mohan	Forest Protection Division	2011	2014	13.50	Dropped	Dropped
22.	Response of mycorrhizae and microbial symbionts to elevated CO ₂ in commercially important tree species	Dr.A.Krti Keyan	Division of Forest Protection	2011	2015	14.48	Approved without JRF	Approved subject to the RPC recommendation

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.	Exploration of bio-control agents of family <i>Pteromalidae</i> (Hymenoptera: Chalcidoidea) of eastern India	Dr. Arvind Kumar	Forest Protection	2011	2014	17.378	<ul style="list-style-type: none"> All infrastructure should be developed on theme specific not on Scientist requirement basis. 	Dropped
2.	Multilocal trial on clones of <i>Poplar deltoids</i> in different Agro-climatic zone of Bihar & northern part of West Bengal State.	Sh. Biplav Kumar Mishra	Agro forestry	2011	2015	26.42	Dropped	Dropped
3.	Multilocal trial on clones of Eucalyptus sps. in different Agro-climatic zone of Bihar State.	Sh. Biplav Kumar Mishra	Agro forestry	2011	2015	24.49	It should be done under the umbrella of IFGTB, Coimbatore.	Revise and resubmit by 25 th April 2011
4.	Standardization and extension of vegetative propagation protocol of <i>Buchnanian lanzan</i> and its performance in the field	Sh. N. D. Khobragade	Bio-technology, Genetics & Tree Improvement	2011	2015	10.16	Incorporate the recommendation of RAG	Approved subject to the RPC recommendation
5.	Introduction of selected genotypes of Karanj, Kusum and Bamboo as tree components in Agroforestry models in lateritic belt of eastern	Dr. Animesh Sinha	Bio-technology, Genetics & Tree Improvement	2011	2015	41.28	<ul style="list-style-type: none"> Approved with a budget of Rs.15.00 lakh Contingency should not be more than 5% of total financial outlay. 	Approved subject to the RPC recommendation

	India							
6.	Evaluation of <i>Dalbergia sissoo</i> Roxb. Clones for suitability in large scale clonal forestry in Gangetic plains and Chotanagpur Plateau	Dr. Sanjay Singh	Botany, Silviculture and NWFP	2011	2016	34.40	<ul style="list-style-type: none"> Approved with 5% contingency Disease free clones may be taken for study. 	Approved subject to the RPC recommendation
7.	Effects of soil nutrient management on lac production and insect pest infestation on <i>Kerria lacca</i> (kerr.) reared on <i>Flemingia</i> species	Dr. Arvind Kumar	Forest Protection	2011	2014	17.028	Approved with FA instead of JRF	Approved subject to the RPC recommendation
8.	Multilocation Evaluation, studies on breeding system and Characterization of Diversity in <i>Pongamia pinnata</i> (L.) Pierre	Dr. B. N. Divakara	Bio-technology, Genetics & Tree Improvement	2011	2014	19.17	<ul style="list-style-type: none"> Approved with half of the proposed budget PI was advised to modify the objective by deleting diversity analysis from the objective of the project Consult with IFGTB Coimbatore. 	Revise and resubmit by 25 th April 2011
9.	Studies on the pathogens associated with diseases in forest nurseries of different agroclimatic zones of Eastern India and their management	Dr. S. N. Mishra	Forest Protection	2011	2014	5.00	Dropped	Dropped
10.	Studies on pollarding and propagation in Kusum (<i>S.oleosa</i>) for lac cultivation	Dr. Animesh Sinha	Bio-technology, Genetics & Tree Improvement	2011	2014	36.97	<ul style="list-style-type: none"> Approved with a budget of Rs.10.00 lakhs Recommendation of RAG should be included in the modified project Objectives should be more specific. 	Approved subject to the RPC recommendation
11.	Development of seed technology of commercially important tree species of Eastern	Sh. N. D. Khobragade	Bio-technology, Genetics & Tree	2011	2014	8.37	<ul style="list-style-type: none"> Approved with budget outlay of Rs. 7.37 Lakhs Change the title and include all the four species name in the title 	Approved subject to the RPC recommendation

	India.		Improvement					
12.	Diseases management of important forestry species through inter-venetions of plant extracts.	Dr. S. N. Mishra	Forest Protection	2011	2014	13.14	Dropped	Dropped
13.	Standardization of propagation method and germplasm conservation of <i>Machilus villosa</i> (Roxb.) & <i>Quercus lineata</i> : promising timber & fuel wood of North West Bengal	Sh. Sanjeev Kumar	Bio-technology, Genetics & Tree Improvement	2011	2014	9.47	<ul style="list-style-type: none"> Approved with a budget of Rs.7.00 lakh Contact with Dr. S. Rama Rao, Prof. & Head, Botany Division, JNV University, Jodhpur for improvement 	Approved subject to the RPC recommendation
14.	Assessment and Documentation of Agro-forestry practices in agro climatic conditions of Jharkhand	Dr. B. N. Divakara	Bio-technology, Genetics & Tree Improvement	2011	2013	10.14	Dropped	Dropped
15.	Studies on insect pest of <i>Ocimum bacillicum</i> and their management with botanicals and bio-pesticides	Dr. Arvind Kumar	Forest Protection	2011	2014	13.028	<ul style="list-style-type: none"> Do the general survey Identify part of the tree attacked by the pest Revise and resubmit 	Revise and resubmit by 25 th April 2011
16.	Development of protocol for seed certification of Teak	Sh. N. D. Khobragade	Bio-technology, Genetics & Tree Improvement	2011	2014	4.59	Dropped	Dropped

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.	Studies on natural dyes from <i>Aegle marmelos</i> (Bael) and <i>Woodfordia fruticosa</i> (Dhawai) for their utilization.	Shri Hari Om Saxena	NWFP	2011	2014	13.91	<ul style="list-style-type: none"> Lot of work have already been done by FRI on this aspect. Collaborate with Chemistry Division, FRI, Dehradun Revise and resubmit 	Revise and resubmit by 25 th April 2011
2.	Value addition of <i>Annona squamosa</i> (Sitaphal) and skill upgradation training to Tribal/ Rural population.	Dr. Vishakha Kumbhar e	CFRHRD	2011	2013	5.75	<ul style="list-style-type: none"> Project may be clubbed with Project at Sl. No. 5 Consult CFTRI or other ICAR horticulture institute Give work plan for training 	Approved subject to the RPC recommendation
3.	Evaluation of non edible oil seeds for development of surfactants and their utilization in pest management.	Smt. Neelu Singh	NWFP	2011	2014	15.41	Approved with revised budget	Approved subject to the RPC recommendation
4.	Biocontrol potential of native isolates of entomopathogenic nematodes for the management of insect pests of teak.	Dr. N. Kulkarni	Forest Entomology	2011	2014	9.41	Approved	Approved
5.	Development of value added products from Jamun (<i>Syzigium cuminii</i>) for economic development of tribal/	Dr. S. C. Biswas	NWFP	2011	2014	5.71	Project may be clubbed with project at S. No.2.	Dropped

	rural population.							
6.	Status of sal heartwood borer, <i>Hoplocerambyx spinicornis</i> Newman and its management.	Dr. N. Roychoudhury	Forest Entomology	2011	2016	14.02	<ul style="list-style-type: none"> To explore the possibilities for collaboration with SFD. SFD should be the collaborator since beginning. Revise and resubmit 	Approved subject to the RPC recommendation
7.	Field evaluation of indigenous species of <i>Trichogramma</i> against teak skeletonizer <i>Eutectona machaeralis</i> .	Dr. Mohd. Yousuf	Forest Entomology	2011	2014	9.51	Project approved without JRF	Approved subject to the RPC recommendation
8.	Potential pathogens and insects responsible for the low seed production in teak seed orchards and their management.	Dr. V.S. Dadwal	Forest Pathology	2011	2014	7.05	<ul style="list-style-type: none"> Collaborate with SFD since beginning as it is seasonal problem in the forest. Scientist should visit the seed orchard Approved with revision 	Approved subject to the RPC recommendation
9.	Studies on assessment of genetic diversity and structure of <i>Boswellia serrata</i> Roxb. populations through RAPD and ISSR molecular markers.	Dr. S. A. Ansari	Genetics & Plant Propagation	2011	2014	13.41	<ul style="list-style-type: none"> Prepare the objectives based on preliminary study of phenotypic diversity Study on reproductive biology/basic biology is required. Approved with revision 	Approved subject to the RPC recommendation
10.	Impact of defoliator, <i>Hyblaea puera</i> and skeletonizer, <i>Eutectona machaeralis</i> on volume increment of teak, <i>Tectona grandis</i> .	Dr. P. B. Meshram	Forest Entomology	2011	2016	11.50	Dropped	Dropped
11.	Monitoring the impact of climate variables on plant diversity in Bhimashankar permanent preservation plot of Sub	Dr. P.K. Khatri	Biodiversity & Sustainable Forest Management	2011	2014	7.81	<ul style="list-style-type: none"> Part of All India Co-ordinated project Follow GIS format in AICP after consultation with BCC Division, ICFRE 	Approved subject to the RPC recommendation

	tropical hill forest of Maharashtra.		t				<ul style="list-style-type: none"> BCC Division will give a standard methodology for uniform approach. 	
12.	Chemo-profiling of some Dasmoola species (<i>Uraria picta</i> , <i>Solanum indicum</i> and <i>Solanum xanthocarpum</i>) in Madhya Pradesh.	Shri Hari Om Saxena	NWFP	2011	2014	11.01	Approved with a budget outlay of Rs. 5.0 Lakhs without JRF	Approved subject to the RPC recommendation
13.	Physico-chemical characterization of particulate matters emitted from the sponge-iron factories and their effect on germinating seed of important tree species at molecular level.	Dr. Rupnarayan Sett	Agroforestry	2011	2014	17.62	Dropped	Dropped
14.	Genetic basis of <i>in vitro</i> propagation of <i>Boswellia serrata</i> Roxb: A threatened gum-resin tree	Dr. Yogeshwar Mishra	Genetics & Plant Propagation	2011	2014	5.85	<ul style="list-style-type: none"> First let be completed the study under taken by Dr. S.A. Ansari and new project should be initiated on the basis of the outcome of the project. Dropped 	Dropped

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.	Standardization of nursery technology for raising quality seedlings of important forest tree species of arid and semi arid areas.	Dr. Naveen Bohra	Silviculture	2011	2016	46.866	<ul style="list-style-type: none"> Project should be divided into two parts viz. i) Application project and ii) Scientific project. Revise the budget and Resubmit 	Revise and resubmit by 25 th April 2011
2.	Development of macro and micro propagation techniques for clonal multiplication of <i>Ailanthus excelsa</i> Roxb. evaluation of genetic fidelity, establishment and evaluation of field trials	Dr. Sarita Arya	FOREST GENETICS AND TREE BREEDING	2011	2016	21.27	<ul style="list-style-type: none"> Submit the project proposal to Gujarat State Government (Gujarat Forestry Programme) for external funding 	Recommendation for external funding/ Collaboration
3.	Screening, identification and preparation of a comprehensive checklist of the Lepidopteron fauna of Sasan Gir National Park of Gujarat state	Dr. Meeta Sharma	GCR Section	2011	2014	14.64	Approved	Approved
4.	Phytochemical evaluation, development of nursery practices and conservation of germplasm of <i>Withania coagulans</i> (Stocks)	Dr. Mala Rathore	Non wood Forest Product division	2011	2015	19.834	<ul style="list-style-type: none"> RPC suggested the PI to talk with Dr. Chaubey, NMPB for exploring the possibilities for external funding. Approved 	Approved

	Dunal , an endemic and endangered species of Thar desert.							
5.	Potential and Prospects of NTFP collection, processing, storage, and their trade for enhanced tribal livelihood opportunities through introduction of low cost management practices in Sirohi District of Rajasthan	Smt. Sangeeta Tripathi	Non wood Forest Product division	2011	2014	6.40	Dropped	Dropped
6.	Carbon stock and soil classification mapping for Rajasthan forests	Sh N. Bala	Forest Ecology	2011	2015	22.05	<ul style="list-style-type: none"> Part of All India co-ordinated project under the umbrella of BCC Division, ICFRE. Sample technique should be decided. Methodology should be similar in all the institute. 	Approved subject to the RPC recommendation
7.	Selection of efficient AM fungi & other biofertilizers (PSBs & <i>Azospirillum</i>) for <i>Dendrocalamus strictus</i> & <i>Bambusa bambos</i>	Dr.K.K.S rivastava,	Forest protection Division	2011	2014	15.35	Approved	Approved subject to the RPC recommendation
8.	Refinement of Protocol for macro and micro propagation of <i>Azadirachta indica</i> A.Juss for large scale multiplication, evaluation of genetic fidelity & establishment of field trials	Dr. I.D. Arya,	FOREST GENETICS AND TREE BREEDING DIVISION	2011	2016	13.95	Approved	Approved

9.	Innovative approach for composting, vermicomposting through bioagents, biofertilizer production & technology transfer to forest nurseries of Rajasthan & Gujarat	Dr.K.K.S rivastava,	Forest protection Division	2011	2013	24.27	<ul style="list-style-type: none"> Do it at small level first Delete the transfer of technology part Approved with budget outlay of Rs. 4.0 lakh 	Approved subject to the RPC recommendation
10.	Tapping the potential of some selected indigenous lesser known wild edible plants for food and nutrition in arid and semi arid region	Dr. Mala Rathore	Non Wood Forest product Division	2011	2016	18.70	<ul style="list-style-type: none"> Emphasis should be given on value addition of lesser known Species in terms of utility/ Value addition Revise budget. 	Approved subject to the RPC recommendation
11.	Phytoremediation of soil and productivity enhancement during land disposal of effluent	Dr. Abha Rani	Forest Ecology	2011	2016	21.00	<ul style="list-style-type: none"> DG, ICFRE commented that problem is of industry so institute should contact Rajasthan Pollution Control Board for funding Submit proposal to them accordingly 	Recommendation for external funding/ Collaboration

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.	Studies on the incidence and management of pine mortality in Manipur (RFRI-38/2010-11/FP).	Dr. R. K. Borah	Forest Protection	2011	2014	9.67	Approved	Approved
2.	Studies on ecological and ethno mycological aspects of wild mushrooms of Nagaland (RFRI-39/2010-11/FP).	Dr. Ashwani Tapwal	Forest Protection	2011	2014	11.73	<ul style="list-style-type: none"> Survey and make a list of all the mushrooms available in area (edible and non edible both) Consult the ICAR centre's established in NE 	Approved
3.	Molecular Characterization of <i>mimosa diplotricha</i> C. Wright Seed Polysaccharide (RFRI-45/2010-11/BIK)	Dr. Vikas Rana	Bioprospecting & Indigenous Knowledge	2011	2014	14.94	Approved as such	Approved
4.	Ecological Studies on the distribution patterns and food plant resources of butterflies along altitudinal gradients in different forest ecosystems of the Eastern Himalayas. (RFRI-36/2010-11/EB)	Dr. Arun P. Singh	Ecology & Biodiversity	2011	2014	18.99	<ul style="list-style-type: none"> Revise the title Restrict to Arunachal Pradesh only Approved with one FA 	Approved subject to the RPC recommendation
5.	Effect of the endomycorrhiza along with other bio-agents on biomass production, conservation and accumulation of some	Dr. Vipin Parkash	Silviculture & Forest Management	2011	2014	23.12	<ul style="list-style-type: none"> Approved with first two sub projects Budget outlay of Rs. 15.00 lakhs (Rs.12.816 Lakh & Rs. 2.70 lakh for I & II Subprojects respectively) Sub project component III is 	Approved subject to the RPC recommendation

	phyto chemicals in <i>Abroma augusta</i> L. (RFRI-42/2010-11/SFM).						dropped.	
6.	CO ₂ emission and microbial immobilization in <i>Dipterocarp</i> forest soils: effect of abiotic and biotic factors with special reference to climate change (RFRI-2010-11/FP)	Shri Rajesh Kumar	Forest Protection	2011	2016	35.79	All India Co-ordinated project under the umbrella of BCC Division, ICFRE.	Approved subject to the RPC recommendation
7.	Survey and documentation of traditional knowledge of insects used by ethnic groups in Nagaland and Mizoram with reference to their conservation. (RFRI-41/2010-11/FP).	Shri D. Gurung	Forest Protection	2011	2013	8.95	<ul style="list-style-type: none"> • Can be linked some of the species with pollination mechanism • Explore linkage with GB Pant Institute Almora • Check the list of FAO • Revise and resubmit 	Revise and resubmit by 25 th April 2011
8.	Sustainable productivity enhancement of fallow Jhum land through soil management technique in Nagaland (RFRI-44/2010-11/SFM)	Dr. P.K. Das	Silviculture & Forest Management	2011	2014	15.90	<ul style="list-style-type: none"> • Consult Mr. Thakkar , NGO who has done work on jhum cultivation. • Relook and recast the project • Revise and resubmit 	Revise and resubmit by 25 th April 2011
9.	Eco-restoration of degraded coal mine areas through arbuscular mycorrhizal technology in Jaintia Hills, Meghalaya (RFRI-37/2010-11/EB)	Dr. D. Dutta	Ecology & Biodiversity	2011	2015	21.47	Dropped	Dropped

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.	Assessment of Carbon Stock in Coniferous Forests of Shimla Forest Circle, Himachal Pradesh	Dr. R.K. Verma,	Ecology and Bio-diversity Conservation	2011	2015	24.94	<ul style="list-style-type: none"> Change the title of the project as “Assessment of Carbon Stock in all forest types of Shimla circle, Himachal Pradesh” Approval of technical part/ Methodology may be obtained from BCC Division of ICFRE. Duration of project recommended for 5 years Approved with revision 	Approved subject to the RPC recommendation
2.	Studies on Seed Germination and Longevity of <i>Abies Spectabilis</i> (D. Don) Spach – An Ecologically Important Conifer Species of Higher Temperate Himalayas.	Sh. Pitamber Singh Negi	Silviculture & Tree Improvement	2011	2016	15.75	<ul style="list-style-type: none"> Change the title viz. “Studies on Seed Germination and Longevity of <i>Abies Spectabilis</i> (D. Don) Spach” 	Approved subject to the RPC recommendation
3.	Isozyme Variation in Natural Populations of <i>Pinus Gerardiana</i> Wall (Neoza Pine).	Dr. Rajesh Sharma	Silviculture & Tree Improvement	2011	2014	13.70	<ul style="list-style-type: none"> Some sort of management interventions are needed in the objectives. HFRI will seek the help from the Directorate of Education, ICFRE giving directions to Y S Parmar University, Solan to undertake the socio-economic study part in lieu 	Approved subject to the RPC recommendation

							of budgets provided the Directorate of Education, ICFRE	
4.	Population Genetic Analysis of Himalayan Banj Oak (<i>Quercus leucotrichophora</i>) forests and its pertinence to Genetic Conservation	Dr. Rajesh Sharma	Silviculture & Tree Improvement	2011	2014	05.00	Modify the project as per the comment on FRI project at S. No. 44.	Approved subject to the RPC recommendation