

Proceedings of the XIV Research Policy Committee (RPC) Meeting

30th – 31st May 2013



Thrust Areas of ICFRE Research:

- Managing Forests and Forest Products for Livelihood Support & Economic Growth
- Biodiversity Conservation & Ecological Security
- Forests and Climate Change
- Forest Genetic Resource Management & Tree Improvement

Thrust Areas of ICFRE Forestry Education

- Forestry Education and Policy Research to meet Emerging Challenges

Thrust Areas of ICFRE Extension

- Forestry Extension for taking research to people



Indian Council of Forestry Research & Education
(An Autonomous Body of the Ministry of Environment & Forests, Govt. of India)
P. O. New Forest Dehra Dun - 248 006

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Minutes of the XIV meeting of the Research Policy Committee (RPC) of Indian Council of Forestry Research and Education (ICFRE),

30th -31st May, 2013

XIV meeting of Research Policy Committee (RPC) was convened in the Board Room of ICFRE under the Chairmanship of Dr. V. K. Bahuguna, Director General, ICFRE from 30th -31st May, 2013. List of participants of RPC meeting is at **Annexure I**.

At the outset, Dr P.P Bhojvaid, Deputy Director General (Research) and Member Secretary RPC welcomed all the RPC members and invited participants. He briefed the house about the mandate of the Council and role of the RPC.

Dr. V. K. Bahuguna, DG, ICFRE & Chairman, RPC in his opening remarks stated that the **ICFRE: Vision 2040** and document on "**Changing Frontiers of Research Programs in ICFRE based on XIII Research Policy Committee (RPC) 2012 Meeting**" is in place now and new project proposals have to be considered as per Vision Document in the already identified following four research thrust areas in programme mode as All India Coordinated Project/ Interinstitutional project/Networking project:

- Managing Forests and Forest Products for Livelihood Support and Economic Growth
- Biodiversity Conservation and Ecological Security
- Forests and Climate Change
- Forest Genetic Resource Management and Tree Improvement

DG, ICFRE informed the house that ICFRE is planning to add two more All India Coordinated projects namely "**Conservation of Biodiversity and enhancing Livelihood Opportunities to the Tribal's and forest fringe communities**" and **Agroforestry models** for the country. The adaptability of agroforestry research needs extra efforts to popularize it among farmers by demonstrating robust models/ technologies.

He stressed that ICFRE research programs must have forward and backward linkages to maintain the continuity of research in a manner that the output of one scientist becomes input of other scientist with interdisciplinary/multidisciplinary approach as team work. Leads in the research projects needs to be followed for future gains. The research should focus on the needs of the society though few research projects with region specific scientific pursuits may be started by a special justification by associated director.

Further ICFRE needs to work on emerging global issues such as biodiversity conservation, climate change etc. Linkages between ICFRE research works with the industries should be established. The DG, ICFRE again reminded that the culture should be developed that scientists work by themselves and number of JRF/SRF in the projects should be curtailed. One JRF/SRF should be involved at least in 4-5 projects. In place of JRF/SRF appointment of post doctoral fellows may be considered for appointment as consultants or otherwise. It was further discussed and decided that JRFs engaged in the projects may be encouraged and enrolled for perusing the research work for the Ph.D degree out of the project work. It was decided that a Committee under the chairmanship of Prof. S.P. Singh, Chair of Excellence, FRI (DU), Dr P.P. Bhojvaid, Director, FRI and two other members would be formed to formulate guidelines for the enrollment of the JRF/SRF for the Ph.D degree from FRI, DU out of the project work / part off shoot of the project work. DG, ICFRE stressed that while research has importance the maintenance of premises, assets and infrastructure has also significance and therefore their maintenance should be given priority over over all issues.

RFRI, Jorhat has sufficient funds available with them from North East funding and it was decided by the house that the equipments whatever possible in collaborative projects may be purchased under North-East funds by RFRI, Jorhat and may be transferred to the other institutes of ICFRE on loan basis. The institutes would give the requirement of the equipment to the Director, RFRI with copy to DDG (Admin).

As the current year budget position with ICFRE is not very sound, the house was of the view that PI's/Institutes should keep on exploring the possibility of funds from the national and international funding agencies. The projects may be submitted to the Planning Commission/Ministry of Tribal Affairs/MoEF/NMPB/DST/DBT/NMBA/ITTO/UNDP/EU etc. State Forest Departments (SFDs) may be contacted for CAMPA funds available with them to cater the research needs related State Forest Departments.

A book **“Atlas of Wood Decaying Fungi of Central India”** authored by Dr C.K. Tiwari, TFRI, Jabalpur was released in the inaugural session of RPC meeting by Director General, ICFRE.

After this, Thrust area wise presentations were made by the respective National Project Directors (NPDs) on the new proposals to be included in these thrust areas. Directors of the

institutes presented the ongoing projects of the institutes along with rolling plan projects for extension/change in budget/change in objectives etc., and the details of approvals are given at **Annexure II**. Subsequently pending projects of the institutes, which could not be initiated in 2012-13 due to budget constraint, were presented by the Directors of the institutes and decision of RPC is also at **Annexure II**. Thrust area wise details of new projects along with decision taken are given in **Annexure III, IV, V and VI**. Newly created Centre for Forest Based Livelihood and Extension (CFLE), Agartala has submitted five new projects with total budget of Rs. 12.10 lakhs. The incharge of CFLE, Agartala was requested to submit the detail projects for the approval by the competent authority. The list of these projects at **Annexure VII**. The house authorized Chairman of the RPC for taking decisions on case to case basis if need so arises.

A. Projects for Extension:

During 2012-13, due to budget constraint, sufficient budget for ongoing projects could not be released, which affected the progress of ongoing projects. It was unanimously decided by the house that those ongoing projects which were due for completion on 31st March 2013, without any additional budget requirement would be given extension. All ongoing projects requiring enhancement of budget less than 15% of the total approved budget outlay were approved for cost and time duration.

B. Pending Projects:

These are projects which were non starter of XIII RPC. Institutes have submitted the list of pending projects to be undertaken by them (**listed in Annexure III**) for their execution in 2013-14, approval was given with the condition that they will manage it within the allocated budget.

Following points also emerged after detailed discussions by RPC members:

- The ongoing projects will be completed on priority basis by the directors of the institutes. However based on availability of funds, the directors of the institutes will take their conscious decision with respect to new and pending projects. New projects that have been technically approved by the RPC during the meeting will be started as and when funds are available. In principle, approval is given to the new projects as indicated in **Annexures IV-VII** as detailed above.
- DDG (R) and DDG (Admin) will rationalize the distribution of allotted budget after the discussions with respective directors.

- ICFRE research on conservation of forest resources and their sustainable use will be actively perused.
- Data of 'Revisit of Forest type' may be used as base line data by the institutes for further biodiversity related research as discussed in the RPC meeting. Forest Based Biodiversity in AICP mode may be initiated at state level by the respective institutes. Director, IFGTB was requested to initially work on biodiversity aspects of Andaman and Nicobar Islands.
- CSFER, Allahabad will focus extension work on poplars for farmers with the help of IFP, Ranchi and extension of agro forestry species in Eastern UP.
- Research on invasive species like *Lantana* may be taken on localized area. Dr Subash Nautiyal, Scientist-G, FRI will take necessary initiation in this regard.
- TFRI, Jabalpur with the help of State Forest Department will make efforts to open a new centre in its jurisdiction states. TFRI, Jabalpur will work towards increased activities at Chhindwara centre.
- Research on micropropagation in Bamboo in AICP mode would be taken, Dr T.S. Rathore, Director, AFRI will be the Chief Technical Advisor for this activity.

The meeting concluded with vote of thanks by DDG (Research), ICFRE.

PROGRAMME

XIV RESEARCH POLICY COMMITTEE (RPC) MEETING OF ICFRE

Date: 30 - 31 May 2013

Venue: Board Room ,ICFRE,Dehradun

30/5/2013 Inaugural Session

9.30 AM - 10.30 AM Welcome by DDG(R)

Opening of XIV RPC by Chairman, RPC

Thrust area-1 : Managing forests and forest products for livelihood support 10.30 AM to 1.00 PM

Overview Presentations of the Thrust Area I by NPD

Institute wise Presentation and discussions on New and Ongoing Projects

New Projects / Approved pending projects of XIII RPC / Ongoing projects

FRI Dehradun, IWST Bangalore, IFGTB Coimbatore, IFP Ranchi, TFRI Jabalpur, AFRI Jodhpur, RFRI Jorhat, HFRI Shimla, IFB Hyderabad, CSFER Allahabad

Lunch (1.00-2.00)

Thrust area- 2 : Biodiversity Conservation & Ecological Security 02.00 PM to 05.30 PM

Overview Presentations of the Thrust Area II by NPD

Institute wise Presentation and discussions on New and Ongoing Projects

New Projects / Approved pending projects of XIII RPC / Ongoing projects

FRI Dehradun, IWST Bangalore, IFGTB Coimbatore, IFP Ranchi, TFRI Jabalpur, AFRI Jodhpur, RFRI Jorhat, HFRI Shimla, IFB Hyderabad, CSFER Allahabad

31/5/2013

Thrust area-3 : Forestry interventions for climate change mitigation and adaptation

09.30 AM to 1.00 PM

Overview Presentations of the Thrust Area III by NPD

Institute wise Presentation and discussions on New and Ongoing Projects

New Projects / Approved pending projects of XIII RPC / Ongoing projects

FRI Dehradun, IWST Bangalore, IFGTB Coimbatore, IFP Ranchi, TFRI Jabalpur, AFRI Jodhpur, RFRI Jorhat, HFRI Shimla, IFB Hyderabad, CSFER Allahabad

Lunch (1.00-2.00)

Thrust area-4 : Management and Improvement of Forest genetic resources 02.00 PM to 04.30 PM

Overview Presentations of the Thrust Area III by NPD

Institute wise Presentation and discussions on New and Ongoing Projects

New Projects / Approved pending projects of XIII RPC / Ongoing projects

FRI Dehradun, IWST Bangalore, IFGTB Coimbatore, IFP Ranchi, TFRI Jabalpur, AFRI Jodhpur, RFRI Jorhat, HFRI Shimla, IFB Hyderabad, CSFER Allahabad

4.30 PM Any other discussion with the permission of the chair

Wrap up and Concluding Session

**PARTICIPANTS OF XIV RESEARCH POLICY COMMITTEE (RPC) MEETING
HELD AT ICFRE H.Q. DEHRADUN
30th and 31st May, 2013**

RPC MEMBERS	
1.	Dr. V.K. Bahuguna, DG, ICFRE & Chairman, RPC
2.	Dr. P.P. Bhojvaid, Dy. Director General (Research) & Director, FRI, Dehradun & Member Secretary, RPC
3.	Dr. S.P. Singh, DDG (Admin.), ICFRE
4.	Sh. Saibal Dasgupta, DDG (Extension) ICFRE
5.	Dr. N.S. Bisht, Director, International Cooperation, ICFRE & Director, RFRI, Jorhat
6.	Sh. S.C Joshi, Director, IWST, Bangalore.
7.	Dr. N. Krishna Kumar, Director, IFGTB, Coimbatore.
8.	Dr. T.S. Rathore, Director, AFRI Jodhpur
9.	Dr. U.Prakasham, Director, TFRI Jabalpur
10.	Dr. V.R.R. Singh, Director, HFRI, Shimla.
11.	Shri Rameshwar Das, Director, IFP, Ranchi.
12.	Sh. M.R.G. Reddy, Director, IFB, Hyderabad
13.	Sh. S.K. Singh, IFS, Chief Conservator of Forests (Research), Haldwani
14.	Prof (Dr.) S. P. Singh, Chair of Excellence, FRI, Dehradun (Formerly Vice-Chancellor, HNB Garhwal University), 41/1 Vasant Vihar, Dehradun – 248006
15.	Dr. O.P. Chaturvedi, Head, Plant Sciences, CSWCRTI, Dehradun
16.	Dr. A.R. Nautiyal, Professor, High Altitude Plant Physiology Research Center (HAPPRC), HNB Garhwal University, Srinagar (Garhwal), UK 246 174
17.	Sh. Anil P. Joshi, HESCO, Dehradun
18.	Dr. T.P. Singh, ADG (FCC), ICFRE, Dehradun
19.	Dr. V.R.S. Rawat, Scientist E / Addl. Director, ICFRE, Dehradun
20.	Dr. Vimal Kothiyal, ADG (RP), ICFRE Dehradun
OTHER PARTICIPANTS	
21.	Ms. Neelu Gera, ADG (Panchayat & Human Research), ICFRE, & NPD, Managing forests and forest products for livelihood support & economic growth.
22.	Dr. Veena Chandra Scientist F, FRI Dehradun and & NPD, Biodiversity Conservation and Ecological Security
23.	Shri M.P. Singh Head, Climate Change, FRI, Dehradun & NPD Forests and Climate Change
24.	Dr. H.S. Ginwal, Scientist-F, FRI & NPD, Forest Genetic Resource Management and Tree Improvement
25.	Ms Kamal Preet ADG (Education and Policy Research), ICFRE Dehradun & NPD, Forestry Education and Policy Research to Meet Emerging Challenges
26.	Sh. Kunal Satyarthi ADG (Media & Extn.), ICFRE Dehradun & NPD, Forestry Extension for Taking Research to People
27.	Sh. A.S. Rawat Group Coordinator (R), FRI Dehradun
28.	Sh. T.P. Raghunath Group Coordinator (R), IFGTB, Coimbatore
29.	Dr. S.A. Ansari Group Coordinator (R), TFRI Jabalpur
30.	Dr. K.S. Kapoor Group Coordinator (R) & Scientist HFRI Shimla
31.	Sh. Pankaj Agrawal ADG (EM) ICFRE

32.	Sh. S.D. Sharma	ADG Stats, ICFRE
33.	Dr. V. Mohan	Scientist F /Special Director, IFGTB, Coimbatore
34.	Dr. Sushma Mahajan	Scientist F / Special Director, ICFRE
35.	Dr. G.R.S. Reddy	Scientist F, IFB, Hyderabad
36.	Sh. N.K. Upreti	Scientist F, RCS, FRI Dehradun
37.	Dr. R. Yasodha	Scientist F, IFGTB Coimbatore
38.	Sh. S. Banerjee	TFRI Jabalpur
39.	Dr. Anita Tomar	Scientist D, CSFER, Allahabad
40.	Dr. B.M Dimri	Scientist C, ICFRE
RAPPORTEURS		
41.	Dr. R.S. Rawat	Scientist C/ Asstt. Director, FCC, ICFRE
42.	Dr. Anil Negi	Scientist C/ Asstt. Director, ICFRE
45.	Dr. Vishwajit Kumar	Scientist, C / Asstt. Director, ICFRE
46.	Dr. Shilpa Gautam	Scientist, C / Asstt. Director, ICFRE
SUPPORT TEAM		
47.	Smt. Manjeet Sharma	PS to ADG (RP), ICFRE
48.	Sh. Kailash Chand	Assistant, RP Division, ICFRE
49.	Sh. Danish Shahab	RA, RP Division
50.	Sh. Sanjeev Sharma	Highly Skilled worker, RP Division
51.	Sh. Vipin Verma	Unskilled worker, RP Division

Annexure II

Ongoing projects of the Institutes

(Institutes would distribute the budget according to the Total Budget allocated vide DDG (Admin) letter dated 15th May 2013)

(i) Institute: Forest Research Institute, Dehradun

Ongoing Projects Without Change Request			
Sl. No	Title of the project/PI/ Duration	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth.			
1.	Vegetative propagation, nodulation and nitrogen fixation studies in <i>Myrica esculenta</i> Ham.- a non legume nitrogen fixing species. Dr. S. P. Chaukiyal/ 4 Years, April 2010 – March 2014	10.96	2.59
2.	Evaluation of wood properties and growth performance of <i>Eucalyptus</i> hybrids raised in multilocation trials./ Dr. P.K. Pandey/ 3 years (April 2011– March 2014)	11.70	4.40
3.	Evaluation of <i>Sesbania Grandiflora</i> and <i>Lannea coromandilica</i> for paper making./ Dr. S.P. Singh/ 3 years (April 2011- March 2014)	5.59	1.94
4.	Enzyme aided alternative process for the extraction of oil from <i>Cymbopogon citratus</i> (lemon grass)./ Dr. Rashmi/3 years (April 2011– March 2014)	5.97	2.13
5.	Evaluation of <i>Santalum album</i> grown in plateau area of Uttar Pradesh adjoining Madhya Pradesh and Uttarakhand for yield, quality and composition of essential oil. / Rakesh Kumar/3 years (April 2011 – March 2014)	3.90	1.05
6.	Screening of some forest tree species for their antioxidant properties./ Dr. V.K. Varshney/3 years (April 2011– March 2014)	6.35	1.99
7.	Utilization of <i>Pinus roxburghii</i> needles for value added products./ Dr. Vineet Kumar/3 Years (April 2012 - March 2015)	4.50	2.22
8.	Structural studies and utilization of <i>Acacia tortilis</i> gum exudates./ Dr. Vineet Kumar/3 Years (April 2012 - March 2015)	4.50	1.57
9.	Processing fungal resources for development of natural dye./ Dr. Rakesh Kumar/3 Years (April 2012 - March 2015)	6.18	1.50
10.	Process refinement for extraction of quality fiber and optimal isolation of bioactive constituents from <i>Agave sisalana</i> ./ Dr. Y.C. Tripathi/3 years (April 2011– March 2014)	8.40	2.59
11.	Phytochemical screening of selected wild edible plants for exploration of new sources of Luteolin./ Dr. Y.C. Tripathi/3 Years (April 2011- March,2014)	8.65	2.64
12.	Biology of hispine Bamboo borer- <i>Estigmene chinensis</i> Hope (Coleoptera :Chrysomelidae) damaging green standing bamboo and its management./ Dr. K.P. Singh/4 Years (April 2012 - March 2016)	10.01	2.70
13.	Studies on diversity of egg parasitoid wasps <i>Trichogramma</i> spp. From Punjab and Haryana and their application in biological control of important forest insect pests./ Dr. Mohammed Yousuf/4 Years (April 2012 - March 2016)	11.94	5.32
14.	Development of models of some important medicinal plants with <i>Melia Composita</i> and <i>Embllica officinalis</i> in degraded land of Punjab and Utrrakhand. Sh. Ram Bir Singh/5 Years (April 2011 - March 2016)	9.83	0.80
15.	Study on status of agroforestry system existing in Punjab, Haryana, Utrrakhand & North-West Region of Uttar Pradesh./ Smt. Jayshree Ardey Chauhan/3 Years (Oct. 2011– Sept. 2014)	17.10	2.60
16.	Enhancing fodder productivity through silvi - pasture system on degraded land of India./ Dr. Charan Singh/5 Years (April 2012 - March 2017)	8.00	0.75
17.	Studies on performance of ZiBOC treated imported wood in different agro climatic conditions./ Dr. Sadhna Tripathi/5 years, April 2009 – March 2014	6.00	0.40
18.	Application of defects detection technique on standing trees./ Dr. Y.M. Dubey/3 years (April 2011- March 2014)	1.88	0.68
19.	Chemical modification of wood for durability improvements./ Sh. Ajmal Samani/3 years (April 2011– March 2014)	6.66	1.77
20.	Studies on the suitability of paper mulberry for plywood. D.P. Khali/3 years (April 2011–March 2014)	4.77	2.35
21.	Studies on working quality and finishing aspects of <i>Melia Composita</i> . / Dr Kishan Kumar/2013-2016 (4 Years)	18.48	2.92

22.	Vacuum press drying studies of <i>Melia composite</i> Sh. Shailendra Kumar/3 Years (April 2012 - March 2015)	3.35	1.30
23.	Studies on natural durability of plantation grown species with conventional /eco-friendly preservatives (ZIBOC)./ Dr. Sadhna Tripathi/5 Years (April 2012 - March 2017)	8.08	2.61
24.	Study on Nanoclayas filler on physical and mechanical properties of plywood./ Ms. Ismita Nautiyal/3 Years (April 2012 - March 2015)	4.30	1.55
25.	Development of composites of lops and tops of <i>Melia composita</i> . Sh. D.P. Khali/3 Years (April 2012 - March 2015)	8.10	2.85
26.	To develop medium density fiber board (MDF) from lops and tops of poplar./ Ms. Ismita Nautiyal/3 Years (April 2012 - March 2015)	7.35	1.10
27.	Working Plan of FRI		
	Sub Total	202.55	54.32
Thrust Area 2 . Biodiversity conservation and ecological security			
28.	Ecological studies of watershed in Mussorie hills of Dehradun/ Sh. Nirmal Ram/	4.86	1.41
29.	Studies on Taxonomy of the family Eulophidae (Hymenoptera: Chalcidoidea) present in National Forest Insect Collection (NFIC) except Doon Valley Dr. Sudhir Kumar/5 years, April, 2010 - March, 2015	6.00	0.40
30.	Studies on Taxonomy of the family Encyrtidae (Hymenoptera: Chalcidoidea) present in National Forest Insect Collection (NFIC) except Doon Valley Dr. Sudhir Kumar/5 years, April, 2010 - March, 2015	6.00	0.60
31.	Studies on thrips of forest and medicinal plants, problems caused by them and their management in Uttarakhand./ Dr. Neena Chauhan/4 Years (April, 2011 – March, 2015)	9.00	1.52
32.	Soil organic carbon store under different land uses in Haryana. Dr. M.K. Gupta/4 Years, April 2010- March 2014	8.43	2.02
33.	Assessment of Soil Quality Indicators for growing different Plantations in Uttarkashi District. / Dr. A. K. Raina/3 years (April, 2011– March, 2014)	6.66	1.97
34.	Assessment of soil microbial community and soil quality under poplar and eucalyptus plantations in Haryana./ Dr. Parul Bhatt Kotiyal/3 years (April, 2011– March, 2014)	9.06	2.09
35.	Development of suitable model for enrichment of selected Medicinal Plant Conservation Areas (MPCAs) of Uttarakhand Himalayas./ Dr Anoop Chandra/2012-2015 (3 Years)	7.35	0.95
36.	Development of molecular diagnostic kits for identification and early detection of nursery and plantation pathogens of Eucalyptus./ Sh. Amit Pandey/3 years (April, 2011- March, 2014)	12.53	4.08
37.	Impact of Human Induced Disturbance on Regeneration and Population Structure of Rhododendron arboretum and Myrica nagi in Mid Hills of Gharwal Himalaya./ Dr. H.B. Vasistha/4 years, April, 2009 – March, 2013	16.25	2.75
38.	Invasive Species - Impact of invasive species on plant diversity in selected forest sites of Uttarakhand, Haryana, Punjab./ Dr. Anoop Chandra/3 Years (April 2012 - March 2015)	8.67	3.03
39.	Rare and endangered species - AICP on inventorization, characterization and conservation strategies of selected rare and endangered species of India/ Dr. Anoop Chandra/3 Years (April 2012 - March 2015)	120.46	5.23
	Sub Total	215.27	26.05
Thrust Area 3: Forests and Climate Change			
40.	Adaptation Component - Assessment of ecosystem services imparted by forests of Uttarakhand./ Sh. M.P. Singh/3 Years (April 2012 - March 2015)	69.74	40.02
41.	Program: Elevated CO2 Studies Forest ecosystem studies in change environment conditions of elevated CO2 and temperature by free air CO2 enrichment (FACE) and open top chamber (OTC) conditions./ Sh. M.P. Singh / 2012-2014 (2years)	40.00	40.00
	Sub Total	109.74	80.02
Thrust Area 4: Forest Genetic Resource Management and Tree Improvement			
42.	Evaluation of different genotypes and recombinants of eucalypts for adaptability and productivity/ Ms. Parveen	13.02	9.34
43.	Population Genetic Analysis of Himalayan Banj Oak (<i>Quercus leucotrichophora</i>) forests and its pertinence to Genetic Conservation./	24.45	6.63

	Dr. H.C. Ginwal/3 years (June, 2011 – May, 2014)		
44.	AICP for genetic improvement of <i>Melia composita</i> ./Dr Ashok Kumar	103.00	50.00
45.	Screening of Poplar genotypes for resistance against <i>Alternaria alternata</i> Toxin (s)./ Dr. Y.P. Singh/3 years (April 2011 - March 2014)	8.56	2.87
46.	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./Sh. Ombir Singh	8.15	3.24
47.	Evaluation of <i>Bombax ceiba</i> for seeds sources in Northern India Dr. Dinesh Kumar/4 years (April 2011- March 2015)	13.39	4.16
48.	Allelopathic potential in regeneration of Sal (<i>Shorea robusta</i>) forests Dr. Ombir Singh/5 years (April, 2011– March, 2016)	13.43	3.42
	Sub Total	184.00	79.66
	Grand Total	711.56	240.05

Ongoing Projects With Change Request

Sl. No.	Title of the project/PI/Duration	Total cost of the project (in lakhs)	Change request with justification	Recommendations of RPC
1	Validation of chemical markers conferring <i>Cylindrocladium</i> leaf and seedling blight resistance in Eucalyptus germplasm./ Dr. V.K. Varshney/3 Years, April 2010–March 2013	4.71	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period.	Approved for one year extension without additional budget
2	Development of Category Shades of Natural Dyes of <i>Pinus roxburghii</i> and <i>Mallotus philippensis</i> ./Sh. Rakesh Kumar/2years (April 2011–March 2013)	4.00	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period.	Approved for one year extension without additional budget
3	Refining of process for detoxification studies of Jatropha seed oil Dr. Vineet Kumar/3 Years, April, 2010 – March, 2013	7.56	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period.	Approved for one year extension without additional budget
4	Phytochemical examination of <i>Acacia albida</i> ./Dr. Pradeep Sharma/3 Years, April, 2010 – March, 2013	8.27	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period.	Approved for one year extension without additional budget
5	Survey of insect pests and their control in plantations./ Dr. Shamila Kalia/3 Years, April, 2010 – March, 2013	3.70	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period. Permission for appointment of one FA is also requested within project budget outlay.	Extension of one year is approved. Existing manpower approved for continuation.
6	Shisham mortality – Finding solutions for future plantations Dr. N.S.K. Harsh/3 Years, April, 2010 – March, 2013	22.99	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period. Permission for appointment of one FA is also requested within project budget outlay.	Extension of one year is approved. Existing manpower approved for continuation.
7	Screening of Eucalyptus germplasm for disease resistance against <i>Cylindrocladium</i> leaf and seedling blight./Dr. Amit Pandey/3 Years, April, 2010 – March, 2013	18.12	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period.	Approved for one year extension without additional budget
8	Interaction between <i>Pseudomonas fluorescens</i> and AM Fungus on <i>Dendrocalamus strictus</i> Dr. Y. P. Singh/5 years, April, 2010 – March, 2015	12.56	The project period is 2010 to 2015. The JRF was sanctioned for three years only. Due to acute shortage of regular staff in the Division, services of one JRF/SRF	Approved within the allotted budget.

			are required for 4th to 5th years also. For this extra budget of Rs. 2.88 lakh is required.	
9	Studies on the suitability of different combinations of plantation grown species for laminated veneer lumber (LVL) Sh. D.P. Khali/3 years (April 2011 - March 2014)	4.97	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period. Permission for appointment of one FA is also requested within project budget outlay.	Extension may be applied in the last year of completion of the project.
10	Refinement in vacuum timber dryer designed by FRI and its performance studies Sh. N.K. Upreti/2 Years (April 2012 - March 2014)	2.00	The Project period is 2012-2014. Due to very late release of budget for Equipment (on 18th Feb 2013), no activity could be performed during 2012-13 except initiation of procurement of equipment in March 2013. Hence project period may kindly be revised to 2012-2015.	Extension may be applied in the last year of completion of the project.
11	Study on performance of treated timbers (ZiBOC, CCB & CCA) and their natural durability in cooling towers./ Dr. Sadhna Tripathi/5 years, (2010-2015)	9.63	Extension of Project Assistant (@Rs. 8500/- per month) may be given for two years for which Rs. 2.04 lakhs are required. As Rs. 1.59 lakhs are already balance after the first three years, additional 0.45 lakhs may be sanctioned.	Approved extension of PA within allotted budget.
12	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/3 Years (April 2011 - March 2014)	24.87	Due to non availability of specialized scientific worker, work under the 4th objective (Development of NIR based application methods in relation in spiral grain formation and resin yield in <i>P. roxburghii</i>) could not be initiated. Hence this objective may be dropped and title of this project may be modified accordingly as "Characterization of <i>Pinus roxburghii</i> for resin yield through association studies using molecular markers".	Approved
13	Development of DNA-marker based technique for <i>Pinus roxburghii</i> and <i>Cedrus deodara</i> for wood/timber forensics./ Dr. Santan Barthwal/3 Years, April, 2010 – March, 2013	23.08	Two years extension in project period. Additional budget of Rs. 9.36 lakh (over project, outlay) is also required.	One year extension is approved with additional budget of Rs. 3.00 lakhs
14	Development of macro and micropropagation protocol of <i>Rhododendron arboreum</i> Smith: state tree of Uttarakhand/ Dr. Ajay Thakur/3 Years, April, 2010 – March, 2013	7.35	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period.	Approved for one year extension without additional budget
15	Interspecies hybridization between <i>Eucalyptus pellita</i> and <i>E. urophylla</i> and development of F1 hybrids/ Ms. Parveen/ 3 Years, April, 2010 – March, 2013	7.00	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period.	Approved for one year extension without additional budget
16	Digitization of FRI (Dehradun Herbarium) Herbarium Dr. Veena Chandra/5 years, April, 2008 - March, 2013	43.23	5 years extension in the project period with additional budget of Rs. 25.00 lakhs.	Send the Project proposal to all the Directors for exploring more funds from outside. Create a search engine facility for

				identification of plants with more data base.
17	Phytochemical studies on medicinally important <i>Diploknema butyracea</i> (Indian Butter tree) seeds./ Dr. Rashmi/3 Years, April, 2010 – March, 2013	6.12	1 Year's extension in project period. No additional budget is required. Balance amount will be utilized in the extension period.	Approved
18	Establishment of multilocation clonal trial and study of wood anatomical properties and cellulose content of promising clones of <i>Populus deltoids</i> ./ Dr. Dinesh Kumar /3 Years, April, 2010 – March, 2013	14.41	Six months extension (upto September 2013) with additional budget requirement of Rs. 1.37 lakhs.	Approved 6 months extension with additional budget of Rs. 1.37 lakhs
19	Impact component - To undertake the dendrochronological analysis of different trees growing in different meteorological settings. Sh. M.P. Singh/3 Years (April 2012 - March 2015)	39.59	The project was approved in XIII RPC-2012 for Rs 18.00 lakh. However the NPD has requested for budget outlay of Rs 39.59 lakhs in XIV RPC 2013. The budget of Rs 20.79 lakh is requested for the current year	The budget of Rs 20.79 lakh is approved for current year subject to availability of funds.
20	Mitigation Component - Process based carbon sequestration study (Open Top Chamber)./ Sh. M.P. Singh/3 Years (April 2012 - March 2015)	40.41	The project was approved in XIII RPC-2012 for Rs 20.00 lakh. However the NPD has requested for budget outlay of Rs 40.41 lakhs in XIV RPC 2013. The budget of Rs 32.93 lakh is requested for the current year	The budget of Rs 32.93 lakh is approved for current year subject to availability of fund
	Total	304.57		

Ongoing Projects Dropped (As requested by FRI, Dehradun)

SI No.	Name of the Project/PI/Duration	Total Cost of the Project (in lakhs)	Required Budget for 2013-14 (in lakhs)	Recommendations of RPC
1	Study on silvi - medicinal system in arid an semi - arid Himalaya and tropical zones of India./ Dr Charan Singh /April 2012-March 2016	1.87	1.25	Project Dropped
2	Development of NIR spectroscopy based application methods for evaluation of physical and mechanical properties of <i>Melia composita</i> (Syn Melia dubia) Dr Vimal Kothiyal/April 2012-March 2015	6.00	0.65	Project Dropped
3	Screening of Higher Basidiomycetes fungal resources for bioactive cholesterol and triglycerides lowering agents (Statins)./ Dr V. K. Varshney/April 2012-March 2015	1.50	1.50	Kept in abeyance
4	Genetic evaluation and establishment of germplasm banks of <i>Bauhinia variegata</i> Dr Shilpa Gautam/April 2011-March 2015	15.24	-	Rs. 1,38,307/- has been incurred. Need justification from the institute.
5	Evaluation of Joint Forest Management in Northern India./ Sh. Ved Pal/Oct. 2011-Sep. 2015	36.81	9.67	Rs. 4,71,300/- has been incurred. Need justification from the institute.
6	Bioecology and management of the gall insect in Eucalyptus./ Dr. Shamila Kaliya/3 years (April, 2011– March, 2014)	12.66	The project is proposed to be dropped as the Entomology Division has already taken up work on same field on larger scale in collaboration with Punjab Government. PI Needs time till 31st March	Budget incurred may be intimated along with project report

			2013 to compile the data and submit the report of the work done so far.	
	Total	74.08		
Pending Projects				
Sl. No.	Name of the Project	Total Cost of the Project (in lakhs)	Required Budget for 2013-14 (in lakhs)	
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth				
1.	Evaluation of some bio-pesticides for the management of termites in nurseries and plantations./ Dr. Shamila Kalia /	13.90	3.60	
2.	Management of fungal discolouration of Bamboo for handicrafts, furniture and other utility items to help artisans./ Dr. N.S.K. Harsh /	14.99	3.50	
3.	Studies on finishing aspects of <i>Dendacalamus strectus</i> ./ Dr. Kishan Kumar /	5.20	2.60	
4.	Chemical Interventions for utilization of Eucalyptus bark residues for wood conversion industry./ Dr. V.K. Varshney /	12.02	3.84	
5.	Studies on chemoenzymatic treatment of Black liquor for recovery of reducing sugars./ Dr. P.K. Gupta /	9.10	4.22	
	Total	55.21	17.76	

(ii) Center for Social Forestry and Eco-Rehabilitation, Allahabad

Ongoing Projects Without Change Request				
Sl. No	Title of the project/PI/ Duration	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)	
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth.				
1.	Conservation and cultivation of Economically valuable lesser known/ less utilized fruits tree species and to determine possibly chemical components presents in fruit based Agro-forestry in Eastern U.P.	6.85	2.82	
	Total	6.85	2.82	
Thrust Area 2 . Biodiversity conservation and ecological security				
2.	Phyto-remediation of water logged waste land through biodrainage and soil amendments	9.90	2.79	
3.	Restoration of Sand Stone Mining Area of Vindhyan region through Microbial Technology	30.66	5.38	
	Total	40.56	8.17	
	Grand Total	47.41	10.99	
Ongoing Projects With Change Request				
Sl. No.	Title of the project/PI/Duration	Total cost of the project (in lakhs)	Change request with justification	Recommendations of RPC
1.	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, Sci-D /	-	-	Details not provided by the Institute.

(iii) Institute: Institute of Wood Science and Technology, Bangalore

Ongoing Projects Without Change Request			
Sl. No.	Title of the project/ PI/ Duration	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area I Managing Forests and Forest Products for livelihood Support and Economic Growth			
1	Effect of treatment with micronized copper preservative on the strength, treatability and durability of selected wood species./ PI: Dr. S.R. Shukla / (2010-2014)	21.34	3.98
2	Furfurylation of wood to improve properties for various applications./ PI: Dr. Anil Kumar Sethy/ (2011 –2014)	6.2	0.55
3	Effect of flowering on culm quality of <i>Dendrocalamus brandisii</i> and to explore its potential for making bamboo composite products./ PI: Amita Pant/ (2012-2015)	10.23	2.05
4	Evaluation of wood properties of <i>Melia dubia</i> of different ages from southern India for finding suitability for various end products and development of value added products./ PI: Dr. S.K. Sharma/ (2012-2015)	7.7	3.27
5	Nanoparticles based wood coatings for outdoor applications./ PI: K.K.Pandey/ (2011 –2014)	7.54	0.70
6	Natural fiber-PVC composites for light structural applications./ PI: Dr.Pankaj Aggarwal/ (2011 –2014)	23.61	2.73
7	Wood quality variability in sawn timber from three plantation grown species./ PI: Dr.Shakthi singh chuhan / (2011 –2014)	2.5	0.65
8	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./ PI: Ritesh Kumar D.Ram / (2011-2014)	15.98	2.62
9	Variation of growth stresses in <i>Melia composita</i> ./ PI: Dr. Pankaj Aggarwal.	8.95	6.54
10	Wood modification of <i>Melia composita</i> for improving its dimensional stability and durability. Dr. K.K. Pandey	9.4	2.15
11	Evaluation of the performance of Steam Volatile Creosote as a wood preservative./ PI: S.Mohan/ (2010-2015)	7.9	1.65
12	Chemical derivatization of a cellulose into value added products./ PI: Dr. S.S. Bisht / (2012- 2015)	14.36	3.20
13	Production of Synthetic Biodiesel from the Wood Waste./ PI: R.Ezhumalai / (2011-2014)	15.5	2.00
14	Development of coccinellids based biocontrol programmes for the management of sandal scales and mealy bugs./ Dr.R.Sundarraj / (2011-2015)	4.89	2.86
15	Development of botanical pesticidal formulations and demonstration of application in forest nurseries and plantations. / PI: Dr.R.Sundararaj / (2011-2014)	11.5	3.58
16	Determination of the treatability and durability of imported timbers as per Bureau of Indian Standards./ Dr. R. Sundararaj / (2012-2018)	8.8	1.43
17	Population dynamics of pests and suitable control measures in selected silvicultural models in Karnataka./ PI: Raja.Muthukrishnan / (2011-2014)	1.00	0.26
18	Microbial biosynthesis of polyhydroxyalkanoates (PHA) from wood waste. / PI: Dr.Muthukumar / (2011-2014)	3.95	0.80
19	Screening of oils of <i>Pongamia pinnata</i> , Linn., <i>Jatropha curcus</i> Linn., and <i>Simarouba glauca</i> . D.C for developing eco-friendly wood preservatives./ PI: D.Venmalar / (2010-2015)	20.2	2.62
20	Screening of certain plant extractives for developing eco-friendly wood preservatives. / PI: D.Venmalar / (2010-2015)	5.69	1.73
21	Durability and treatability of <i>Melia composita</i> . / Mrs. D. Venmalar./	2.00	1.00
22	Studies on macro wood deteriorogens at Kakinada port and Narsapur Green filed port, Andhra Pradesh. / PI: M.Balaji / (2011 –2014)	4.73	1.32
23	Growth and yield studies on forest plantations of teak in Karnataka for their sustainable management. / PI: Dr.V.P.Tiwari / (2010-2015)	17.51	2.49
	Total	231.48	50.18
THRUST AREA -II : Biodiversity conservation and ecological security			
24	Structure, Diversity and Regeneration Studies in Permanent Preservation Plots in	14.31	5.262

	Moist Deciduous and Evergreen Forests of Western Ghats in Karnataka./ PI:Dr. Syam Viswanath/ (2011 –2014)			
25	All India Coordinated Project on genetic improvement of Melia dubia./ Dr.Geeta Joshi / (2012-2022)	107.00	11.25	
26	Growth variability in melia dubia plantations and seed germination studies./ Dr. Arun Kumar / (2011-2016)	3.5	1.27	
27	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 oliver</i> ./ Dr. Ashuthosh Srivastava/ (2011 –2015)	15.48	2.07	
	Total	140.29	19.852	
	Grand Total	371.77	70.032	
Ongoing Projects With Change Request				
Sl. No.	Title of the project	Total cost of the project (in lakhs)	Change request with justification	Recommendations of RPC
1.	Screening and evaluation of selected members of Rutaceae from Southern India for anti-malarial activity./ Sh. B.S. Chandrashekar / 2010-2013	12.75	Request to drop the objective of evaluating the plant extracts on RBC and liver cell lines. One year extension with budget of 2.872 lakhs.	Approved for one year extension with Rs. 2.00 lakhs
2.	Vegetative propagation and silvicultural practices for selected tropical timber species for plywood and panelwood industries./ Dr. Geeta / 2011-2016	17.04	The second objective, "Evaluation of growth performance of macro propagated plants at nursery and field", needs to be modified to: "Evaluation of growth performance plants (Seedlings / cuttings) at nursery and field".	Approved as proposed.
3.	Development of Sandal (<i>Santalum album</i> Linn.) Information System. / PI: Sh. V. Soundarajan / (2011 – 2013)	4.5	One year extension is needed.	Approved for one year extension.
	Total	34.29		
Pending Projects				
Sl.No.	Title of the project/PI/Duration	Total Cost of the project (in lakhs)	Requirement for 2013-14	
Thrust Area: Managing Forests & Forest Products for Livelihood Support & Economic Growth				
1	Biomass, net primary productivity and site productivity of seven industrially important bamboo species in semi arid and humid tropics of Peninsular India./ Dr. Syam Viswanath/ 2013-2016	16.88	Not provided by Institute	
Thrust area: Forestry Extension for taking research to people				
2	Documentation of traditional knowledge of protecting marine wooden craft through indigenous methods./ Sh. M.V. Rao/ 2013-2015	2.945	Not provided by Institute	
	Total	19.825		

(v) Institute: Institute of Forest Genetics and Tree Breeding, Coimbatore

Ongoing Projects Without Change Request			
Sl. No.	Title of the project	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth			
1.	Introduction and evaluation of fast growing species in different agro-climatic zones of Tamil nadu. / Shri. S. Saravanan, Scientist – D/ 5 Years (April 2010- March 2015)	17.55	1.71
2.	An improved holistic approach for development of database on fast growing tree species targeting stakeholders in Tamilnadu and Kerala. / Sh. R. Vivekanandan / (April, 2011- March, 2013)	5.00	0.28
	Total	22.55	1.99
THRUST AREA –II : Biodiversity conservation and ecological security			
3.	Incorporating resistance in Eucalyptus to <i>Leptocybe invasa</i> fisher & La Salle (Hymenoptera: Eulophidae) through expression of insect specific dsRNA./ Dr. N.V.Mathish, Scientist – E / (April, 2012)	29.75	4.065
4.	Influence of <i>Eucalyptus</i> species on the natural enemies incidence on the gall wasp <i>Leptocybe invasa</i> ./ Dr. John Prasanth Jacob, Scientist – E / (April, 2010- March, 2013)	13.33	3.39
5.	Screening for blister bark disease resistance in <i>Casuarina equisetifolia</i> clones./ Dr. A. Karthikeyan, Scientist – D / (April 2009, March 2014)	16.61	2.24
6.	Response of mycorrhizae and microbial symbionts to elevated CO ₂ in commercially important tree species. / Dr. A. Karthikeyan, Scientist – D / (April 2011- March 2015)	9.73	0.76
7.	Anti-insect secondary metabolites from fungal endophytes of selected tree species./ Dr. N. Senthilkumar, Scientist –D/ (April, 2011- March, 2014)	12.14	1.74
8.	Tree rich biobooster: A Novel approach to synergise growth and pest management in fast growing industrially important tree species./ Dr. S. Murugesan, Scientist – F / (April, 2012)	25.09	9.73
9.	Restoration Ecology and species recovery studies in Tsunami impacted Mangroves of Andaman Islands./ Dr. K. Ravichandran, IFS, D.C.F / (April, 2011-March 2016)	23.89	2.91
10.	Development of models for conversion of plantations into secondary forests in Andaman./ Dr. K. Ravichandran, IFS, D.C.F / (April, 2011-March 2016)	24.09	3.05
11.	Development of site specific regeneration augmentation plan for potential degraded areas in Western Ghats./ s	15.12	0.38
12.	Impact of forest plantations on ground flora diversity and soil characteristics including the prescription of management practices./ Dr.C.Kunhikannan, Sci-E / (April 2010– March, 2013)	12.05	2.00
13.	Population structure, regeneration status and pollination ecology of <i>Dalbergia latifolia</i> and <i>D. sissoides</i> ./ Dr. K.R. Sasidharan, Sci – E / (April, 2011- March, 2016)	22.26	1.87
14.	The study of Biology and Conservation of Endemic Plants of Kalakad Mundanhurai Tiger Reserve, Tamil Nadu./ Sh. S.K. Shanmugha Sundaram/ (April 2011- March 2014)	7.30	1.64
	Total	211.36	33.775
Thrust Area IV: Forest Genetic Resource Management and Tree Improvement			
15.	Progeny testing of selected clones for establishment of clonal and seedling seed orchards in Eucalyptus./ Dr. V. Sivakumar, Scientist – D / (April, 2008– March, 2014)	34.14	3.80
16.	Genetic Improvement of <i>Casuarina</i> species through Second Generation Orchards./ Dr. A. Nicodemus , Scientist –E / (April, 2008- March, 2014)	43.28	4.04
17.	Development of advanced generation seed orchard of <i>A. mangium</i> based on biomass and wood density. / Dr. Maheshwar Hegde, Scientist-D / (Aug, 2009- March, 2014)	15.31	2.40
18.	Study of variation in <i>Pterocarpus santalinus</i> in Tamilnadu for growth and heartwood content./ Dr. Maheshwar Hegde, Scientist – D / (August 2010- March 2015)	11.00	2.94
19.	Selection of clones of <i>Acacia auriculiformis</i> with desirable stem form and wood properties for short rotation timber production. / Dr. Maheshwar Hegde, Scientist – D / (Aug, 2010- March, 2015)	19.225	3.82
20.	Clonal Tech Developing : Clonal Technology for raising clonal Plantation of Endogenous Species Ailanthus 17ineat and Ailanthus triphysa in Tamilnadu & Kerala./ D. Rajasugunasekar, Scientist – C / 4 Years (May, 2010- May, 2014)	18.68	2.75
21.	Evaluation and identification of optimal parameters for flowering and fruit set in	5.77	0.41

	tamarind (<i>tamarindus indica</i> .) Orchards./ Shri A. Mayavel, Scientist – D/ (April, 2010 – March, 2013)		
22.	Genetic Improvement of <i>Gmelina arborea</i> Roxb. Through selection and clonal evaluation./ Mr. A. Mayavel, Scientist –D / (April, 2011- March, 2016)	22.71	3.62
23.	Selection and screening of germplasm of <i>Thespesia populnea</i> for improving productivity./ Dr. Kannan C.S. Warriar, Scientist –D/ (April, 2011-March, 2016)	19.82	2.68
24.	Establishment of second generation seed orchards and selection of clones for high productivity in eucalyptus./ Dr. V. Sivakumar, Scientist – D / (April, 2012)	39.98	6.69
25.	Developing breeding populations of teak with broad genetic base for long term genetic improvement./ Dr. B. Gurudev Singh, Sci – F./ (April, 2012)	11.97	3.56
26.	Molecular Analysis for population differentiation and mating system studies in <i>Acacia auriculiformis</i> using dominant and codominant markers./ Dr. A. Shanthi, Scientist – B / (April 2010- March 2013)	8.00	3.33
27.	Genetic diversity assessment for management of Eucalyptus seed orchards./ Dr. Rekha R. Warriar, Scientist – C / (April, 2012)	47.60	6.41
28.	Evaluation of genetic resources of <i>Melia dubia</i> in Tamil nadu and Kerala for productivity enhancement in tree farming./ Dr. Rekha R. Warriar, Scientist – C / (April, 2012)	41.90	3.26
29.	Evaluation of <i>Gmelina arborea</i> Roxb. Selections from North Eastern and Southern Regions./ Shri V.K.W. Bachpai, Scientist – B / (April 2010- March 2013)	11.38	2.20
30.	Development of methods for functional analysis of genes involved in salt tolerance in Eucalyptus./ Dr. N. V. Mathish, Scientist –E / (April, 2009 – March, 2014)	30.93	1.547
31.	Determination of the target genes in <i>Leptocybe invasa</i> for engineering resistance in Eucalyptus through gene-silencing approaches. / Dr. N. V. Mathish, Scientist – E / (April 2010- March 2014)	23.50	4.215
32.	Evaluation of <i>Calophyllum inophyllum</i> populations for high oil yield./ Smt. R. Anandalakshmi, Scientist – D / (April-2010, March-2014)	19.00	3.87
33.	Chemotyping of <i>Sapindus emarginatus</i> - a potential NTFP of Tamil nadu for saponins./ Smt R. Anandalakshmi, Scientist – D / (April 2010- March 2015)	23.15	2.89
34.	Studies on the suitability of Eucalyptus clones for various agro climatic zones of southern India	16.10	1.43
35.	Selection and Vegetative Propagation of <i>Neolamarkia cadamba</i> (Roxb.)Miq – An alternative species for Pencil , Match Wood and Ply Wood Industries./ Dr. A. Vijayaraghavan, Scientist – C / (April 2010- March 2014)	18.50	2.48
36.	Selection and Evaluation of High yielding clones of <i>Pongamiapinnata</i> ./ Dr. K. Palanisamy, Sci –F / (April, 2011- March, 2015)	18.38	3.45
37.	Exploration, Collection and Evaluation of Forest Genetic Resources and Development of National Gene bank./ Dr. K. Palanisamy, Scientist- F / (April, 2012)	48.82	5.54
38.	Productivity studies on commonly cultivated bamboo species in different agro climatic zones of Tamil Nadu./ M. Mario Dominic Savio, Scientist – D / (April, 2012)	19.11	2.73
	Total	568.255	80.062
	Grand Total	802.165	115.83
Pending Projects			
Sl. No.	Title of the project/PI/Duration	Total Cost of the project (in lakhs)	Required budget for 2013-14 (in lakhs)
	Thrust Area –I		
1.	Establishment of model plantations of teak as subsequent rotation crop for enhanced productivity./ Dr A.C. Surya Prabha/2012-2017 (5 Years)	25.52	5.38
	Thrust Area –II		
2.	Assessment of soil organic carbon under different land uses in Tamil Nadu./ Dr A.C. Surya Prabha /2012-2015 (3 Years)	33.90	4.67
	Thrust Area –IV		
3.	Germplasm assemblage and Improvement of <i>Leucaena leucocephala</i> (Lam) De Wit for industrial biomass productivity./ Durai/ 2012-2017 (5 Years)	23.31	6.06
4.	Selection and screening of germplasm of <i>Acacia nilotica</i> L. to improve productivity in Tamil Nadu./ K. Paneer Selvam /2012-2017 (5 Years)	38.97	5.52
5.	Mapping and monitoring of Casuarinas and Eucalyptus plantations in Tamilnadu using RS and GIS techniques. / Sh. Vivekanandan / 2012-2015 (3 Years)	17.00	3.93
6.	Cytogenetic analysis of selected native tree species./ Dr. R. Yasodha / 2012-2015 (3 Years)	11.72	3.24
	Total	150.42	28.80

(vi) Institute: Institute of Forest Productivity, Ranchi

Ongoing Projects Without Change Request			
Sl. No.	Title of the project/PI/Duration	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth			
1.	Introduction of selected genotypes of Karanj, Kusum and Bamboo as tree components in Agroforestry models in lateritic belt of eastern India./ Dr. Animesh Sinha, Scientist – D/ 4 years (April, 2011- March, 2015)	14.995	4.06
2	Studies on nutrient management practices in <i>Flemingia</i> species for lac cultivation and promotion of rural livelihood./ Dr. Arvind Kumar, Scientist-C/ 3 years (April, 2011- March, 2014)	14.04	2.99
3	Survey and identification of insect pest associated with <i>Dalbergia sissoo</i> , <i>Gmelina arborea</i> and <i>Shorea robusta</i> of eastern states of India. / Dr. Arvind Kumar, Scientist – C / 3 years (April, 2011-March, 2014)	13.028	4.68
	Total	42.063	11.73
Thrust Area-IV:- Forest genetic resource management and tree improvement			
4	Assessment of variability and genetic fingerprinting in <i>Pongamia pinnata</i> (L.) Pierre using microsatellite markers./ Dr. Sanjay Singh, Scientist – E/ 4 year (April 2010 – March 2014)	26.09	4.46
5	Evaluation of <i>Dalbergia sissoo</i> Roxb. Clones for suitability in large scale clonal forestry in Gangetic plains and Chotanagpur Plateau./ Dr. Sanjay Singh, Scientist – E / 5 years (July, 2011- March, 2016)	29.40	6.20
6	Studies on pollarding and propagation in Kusum (<i>S.oleosa</i>) for lac cultivation./ Dr. Animesh Sinha, Scientist – D / 4 years (April, 2011-March, 2015)	10.00	2.23
7	Standardization of propagation method and germplasm conservation of <i>Machilus villosa</i> (Roxb.) & <i>Quercus 19ineate</i> : promising timber & fuel wood of North West Bengal./ Sh. Sanjeev Kumar, Scientist – C / 3 years (April, 2011- March, 2014)	6.77	2.75
8	Tree Borne Oil seeds (TBOs) in community lands for Improved Livelihoods of Vulnerable Groups of Jharkhand./ Dr. Animesh Sinha, Scientist – D/ 5 years (2012 – 2017)	23.34	3.70
	Total	95.6	19.34
	Grand Total	137.663	31.07

(viii) Institute: Tropical Forest of Research Institute, Jabalpur.

Ongoing Projects Without Change Request			
Sl. No.	Title of the project	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth			
1	Development of lac based agroforestry (Silvi-Agri-Lac) system. / Dr. N. Berry, Scientist – D / (June, 2010- May, 2015)	8.2	2.06
2	Evaluation of Madhuca indica based silvi-agri system in arid and semi-arid zones of india. / Dr. Nanita Berry, Scientist – E / (April 2012- March 2017)	32.75	2.06
3	Status of sal heartwood borer, <i>Hoplocerambyx spinicornis</i> Newman and its management. / Dr. N. Roychoudhury Scientist – F / (June, 2011- March, 2016)	14.02	1.1
4	Biological control of insect pests of medicinal plants- <i>Abelmoschus moschatus</i> , <i>Gloriosa superb</i> and <i>withania somnifera</i> ./ Dr. P. B. Meshram, Scientist-F / (April, 2010- March 2014)	7.37	1.59
5	Eco-friendly management of bark eating caterpillar, <i>Indarbela quadrinotata</i> on aonla (<i>Emblca officinalis</i>) in plantations. / Dr. P.B. Meshram, Scientist – F / (April 2012- March 2015)	6.57	2.09
6	Biocontrol potential of native isolates of entomopathogenic nematodes for the management of insect pests of teak./ Dr. N. Kulkarni, Scientist – F/(April, 2011 – March, 2014)	9.41	3.38
7	Development of rearing technique for production of insect predator, <i>Canthecona furcellata</i> , as biocontrol agent for larval defoliators. / Shri Subhash Chandra / (April 2012- March 2015)	7.52	2.04
8	Development of certification criteria and production of microbial inoculants for application in forest nurseries and plantations. / Dr. R. K. Verma, Scientist-E / (April, 2010- March 2014)	4.75	2.49
9	Potential pathogens and insects responsible for the low seed production in teak seed orchards and their management. / Dr. V.S. Dadwal, Scientist – C / (April, 2011 – March, 2014)	7.05	1.89
10	Evaluation of <i>Schleichera oleosa</i> (Kusum) fruits for their nutritional value and development of value added products for economic development of local people. / Dr. S.C. Biswas, Scientist – B / (April 2012- March 2015)	5.26	1.13
11	Chemo-profiling of some <i>Dasmoola</i> species (<i>Uraria picta</i> , <i>Solanum indicum</i> and <i>Solanum xanthocarpum</i>) in Madhya Pradesh. / Sh. Hari Om Saxena, Scientist-B / (April 2011 – March, 2014)	5.00	1.74
12	Evaluation of non edible oil seeds for development of surfactants and their utilization in pest management. / Smt. Neelu Singh, Scientist – E / (April, 2011- March, 2014)	14.7	3.38
13	"Evaluation of phyto-polymers as eco-frindly bioadhesives". / Smt. Neelu Singh, Scientist – E / (April 2012- March 2015)	9.91	3.17
14	To study the variations in major phytochemical constituents of <i>Andrographis paniculata</i> , <i>Cyperus rotundus</i> , <i>Hemidesmus indicus</i> , <i>Phyllanthus amarus</i> and <i>Plumbago zeylanica</i> for quality produce from different agroclimatic regions of Chhattisgarh	6.51	2.38
	Total - I	139.02	30.5
Thrust Area –II - Biodiversity Conservation & Ecological security			
15	Standardization of the technique for germination, collection and maintaince of maximum viability of four important tropical species: <i>Bridelia Retusa</i> , <i>Sterculia urens</i> , <i>Bosvella serrata</i> and <i>Serrata indica</i> ./ Dr. Maitreyee Kundu / (April 2012– March 2016)	8.46	2.14
	Total - II	8.46	2.14
Thrust Area –III- Forests and Climate Change			
16.	Monitoring the impact of climate variables on plant diversity in Bhimashankar permanent preservation plot of Sub tropical hill forest of Maharashtra. / Dr. P.K. Khatri, Scientist-D / (April, 2011 – March, 2014)	7.81	2.85
	Total - III	7.81	2.85

Thrust Area-IV- Forest Genetic Resource Management and Tree Improvement			
17.	"All India Coordinated programme for genetic improvement of Teak". as four sub projects.: / Dr. S.A. Ansari, Scientist – F / 10 years (April 2012-March 2022) Sub project: - (i) Selection of plus trees, raising their progeny trials and establishing germplasm bank. (TFRI, Jabalpur)/ Dr. S.A. Ansari, Scientist - F Sub project: - (ii) Development of management practices of teak seed production areas, seedling seed orchards and clonal seed orchards. (TFRI & SFRI, Jabalpur)/ Dr. S.A. Ansari, Scientist - F Sub project: - (iii) Production of transgenic teak tolerant to defoliating pests. (TFRI, Jabalpur)/ Ms. Trisa Dominic, Scientist – B Sub project: - (iv) Studies on population structure, linkage disequilibrium and marker-trait association mapping of teak. (FRI & TFRI, Jabalpur)/ Dr. S.A. Ansari, Sci - F	711.31	74.22
18.	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, Scientist – F / (June, 2011 – March, 2014)	13.41	3.99
19.	Collection of germplasm of madhuca indica J. F. Gmel for identification of best sources in Chhattisgarh through phytochemical Evaluation. / Dr. Fatima Shirin, Scientist – E / (April 2012- March 2015)	11.04	3.82
Total - IV		735.76	82.03
Grand Total		891.05	117.52

(ix) Institute: Centre for Forestry Research & Human Resource Development, Chhindwara (M.P.)

Ongoing Projects Without Change Request			
Sl. No.	Title of the project	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth			
1	Integrated Nutrient Management for Improved Growth of Trees on overburden dumps	7.75	1.72
Total		7.75	1.72

(x) Institute: Arid Forest Research Institute, Jodhpur

Ongoing Projects Without Change Request			
Sl. No.	Title of the project/ PI/ Duration	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area 1. Managing Forests and Forest Products for livelihood Support and Economic Growth			
1.	Coordinated project on Integrated management of khejri mortality for socio-economic upliftment in Rajasthan./ Dr. S. I. Ahmed, Scientist –F/ 5 years (April, 2010- March, 2015)	102.93	8.65
2.	Innovative approaches for augmentation of composting and biofertilizer production in hot arid regions” / Dr.K.K. Srivastava, Scientist-F / 3 years (April, 2011 - March, 2014)	4.0	1.0
3.	Enhancing fodder productivity through silvipastoral systems on degraded land of India.	20.50	1.69
4.	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, Scientist-D/ 5 Years (April, 2011 – March, 2016)	18.2	1.54
5.	Quantification value addition of NTFP and improved agricultural productivity to enhance livelihood opportunity in tribal belt of Sirohi District of Rajasthan.	14.8	1.89
6.	Managing Resources to enhance productivity of agro-forestry system in Dry Areas of Rajasthan./ Dr. Bilas Singh, Research Officer / 5 years (May, 2012 - April, 2017)	20.21	0.70
7.	Market survey on selected species in selected markets./ Dr. Sunil Kumar, Scientist –E / 1994 to continue	2.00	0.10
8.	Evaluation of antifungal potential and identification of broad spectrum antifungal compound from selected tree/shrubs/weeds of Indian arid region../ Bhawana Sharma Scientist- C / 5 years (July, 2009- June, 2014)	9.00	1.08
	Total	191.64	16.65
Thrust Area-II Biodiversity Conservation & Ecological security			
9.	Screening, identification and preparation of a comprehensive check- list of the Lepidopteron fauna of Sasan Gir National Park of Gujarat state. / Dr. Meeta Sharma, Research Officer / 3 Years (August 2011 – March 2014)	14.64	0.28
	Total	14.64	0.28
Thrust Area-III Forests and Climate Change			
10	Carbon stock and soil classification mapping for Rajasthan Forest. / N. Bala Scientist-E / 4 years (April 2012 - March, 2016)	22.05	0.60
11	Identification of soil-vegetation relations and indicator species for assessment and rehabilitation in lower Aravalli./ Dr. G. Singh, Scientist –F / 4 year (April, 2010- March, 2014)	11.70	2.26
	Total	33.75	2.86
Thrust Area-IV Forest Genetic Resource Management and Tree Improvement			
12.	Investigations on genetic variation and inheritance of Western Indian teak (<i>Tectona grandis</i> L.f) / Dr. P. H. Chauhan, Scientist –F, / 5 years (July, 2009- March, 2014)	20.70	2.71
13.	Demonstration trial of male and female <i>Ailanthus Excelsa</i> plants raised through grafting and tissue culture	6.40	1.65
14.	Regional project-Assessment of variability, improvement and refinement of cloning techniques of <i>Tecomella undulate</i> (sm.) Seem. / Ms. Desha Meena, Research Officer /5 years (June, 2012- March, 2017)	52.42	0.83
15.	Study of salt tolerance through gene expression pattern analysis. / Dr. Tarun Kant, Scientist –E / 5 Years (April, 2010 – March, 2015)	22.0	2.32
16.	Development of tissue culture technology for multiplication of economically important desert plant- <i>Salvadora persica</i> . / Dr. I. D. Arya, Scientist-F/ 5 years (June, 2009- March, 2014)	14.9	0.33
17.	Development of technologies for multiplication of economically important desert plant – <i>Capparis deciduas</i> ./ Dr. Sarita Arya, Scientist –E / 5 years (April, 2010- March, 2015)	14.72	2.00
18.	Refinement of modern nursery practices for raising quality seedlings of selected important forest tree species and arid and semi arid areas./ Dr. N.K.Bohra, Research Officer / 5 years (April, 2011 - March, 2016)	28.06	1.38

19.	Sub project a. Establishment of Multilocational evaluation trials for testing selected genotypes under different agro-climatic conditions for stability, adaptability and productivity. Sub project b. Evaluation and screening for disease, insects, salinity and drought.(melia)	86.00	2.20	
	Total	245.20	13.42	
	Grand Total	485.23	33.21	
Ongoing Projects with Change Request				
S.No.	Name of the Project	Total Cost of the Project (in lakhs)	Change request with justification	Recommendations of RPC
1	Induction of systemic acquired resistance in rohida (<i>Tecomella 23xcels23e</i> (Sm.) Seem.) against stem canker./ Dr. Sangeeta Singh, Sci –D / 3 years (April, 2010-March, 2013)	16.4	Since last three years work has been concentrated on the study of the disease i.e., what are the bio chemicals, physiological, anatomical changes occurring in the host, once the pathogen attacks. The study of effect of systematic chemical against the pathogen is being conducted in the last year. The study of how long the defense mechanism is occurred after the injection of the chemical in plantation is being continued and for which one year is very short period because repeated biochemical study will be done at different time intervals. Moreover, in technical program we have give the quantitative studies of defense enzymes but since the results are promising we want to some qualitative studies also. For logical conclusion of the project, one year extension (2013-14) with budget of Rs. 3.016 lakhs is required.	Approved 1 year extension with additional budget of Rs. 2.00 lakhs.
2	Evaluation and selection of efficient strains of AM fungi & <i>Rhizobium</i> for <i>Acacia nilotica</i> and <i>Ailanthus 23 excelsa</i> in western Rajasthan ./ Dr. Neelam Verma, Research Officer / 3 years (April, 2010–March, 2013)	7.80	As per recommendation of RAG in addition to <i>Acacia nilotica</i> sp., few more species like <i>Acacia nilotica</i> var. Indica , <i>Acacia nilotica</i> var. <i>cupressiformis</i> and <i>Ailanthus excelsa</i> were included therefore , suvey work was exceeded and other activities like isolation, quantification/ population of AM scores, soil nutrient analysis etc., were increased. Other activities like lying out of nursery and field trials were delayed. Due to non availability of seeds of <i>Acacia nilotica</i> var. <i>cupressiformis</i> , experiments could not start. Therefore project required one year extension with Rs. 1.50 lakhs budget to complete all the remaining work of the project for logical conclusion. Out of regional sanction of Rs. 7.8 lakhs about Rs. 4.50 lakhs expenditure incurred and still Rs.3.3 lakhs is balance.	Approved 1 year extension with budget of Rs. 1.00 lakh.
3	Impact of <i>Prosopis juliflora</i> on biodiversity, rehabilitation of degraded community lands and as a source of livelihood for people in Rajasthan State./ Mrs. Seema Kumar, Sci –D/ 3 years (April 2010- March 2013)	8.00	In order to carryout remaining work of the project viz: inventorization of exotic species remaining 4 agro climatic zones, studies on the dependent associated faunal diversity, development of strategies for the utilization of <i>Prosopis juliflora</i> and development of awareness material for logical conclusion of the work. One year extension with budget of Rs. 2.00 lakhs is requested. Project was sanctioned with budget of Rs. 8 lakhs and out of which Rs. 2 lakhs expenditure is incurred. ADG (M&E) recommended for	Approved 1 year extension with budget of Rs. 1.00 lakhs.

			the one year extension of the project. RAG also recommended for one year extension with budget of Rs. 2 lakhs.	
4	Studies on carbon sequestration in different forest types of Rajasthan./ Dr. G. Singh, Scientist – F/ 4 year (April, 2008-March, 2012, Extn. upto March, 2013)	122.41	Extension is required to complete tree felling for biomass estimation, estimation of carbon stock (above ground and root), carbon analysis of the vegetations, data compilation of 33 districts, statistical analysis and preparation of report for Rajasthan. In addition as per the recommendations of stake holder meeting, Jaipur and RAG-2010, carbon stock assessment of tree outside forest (TOF) i.e., in 26 districts is also required to be completed during the extended period (2013-14). ADG (M&E) Head suggested including land use to evolve carbon sequestration status of Rajasthan. RAG recommended for the extension of one year with a budget of Rs. 15 lakhs (5.00 lakhs for 2012-13 and 10 lakhs for 2013-14).	Approved 1 year extension with budget of Rs. 10.00 lakhs
5	Screening of high oil and Azadirachtin in Neem./ Dr. U.K.Tomar Scientist- E/ 9 years (2002-11) extended upto 2013	9.80	As this project has long term objectives and due poor fruiting as well as less number of trees producing fruits at this stage project cannot be concluded. Hence the activities may be executed in non-project mode just for maintenance of trials for two years and two times recordings of observations on flowering and fruiting. Once 50% of trees produce sufficient seeds a fresh proposal may be taken in a project mode for estimation of oil and <i>Azadirachtin</i> for continuously three years for strong scientific conclusive recommendation of this selective germplasm and thinning operations can be recommended accordingly	Approved 2 years extension with budget of Rs. 1.00 lakh.
6	Multilocational trials of <i>E. camaldulensis</i> and <i>D.sissoo</i> clones in Gujarat state	40.5	Due to work load of other projects and other financial peak activities six months period is required for operation of consolidated report.	Approved 6 months extension.
7	Development of web portal for forestry research extension./ A.K.Sinha, Scientist-D/ 6 years (April, 2007-March, 2013)	4.06	Extension of the project for one more year is required to finally test, host of the web application on web server and to complete the data entry. Collection of the data and photographs of some more important species will be done as suggested by the RAG. Rs. 1.00 lakh additional requirement is proposed.	Approved 1 year extension with budget of Rs. 0.60 lakh.
8.	Carbon stock and soil classification of mapping for Rajasthan Forests.	22.05	It was submitted that the said project on mapping was conceived on the results of two projects (studies on carbon sequestration in different forest types of Rajasthan, Duration 2008-2013 and characterization and classification of forest soil of Rajasthan, Duration 2007-2013) through which, the primary data have been generated at AFRI, jodhpur. It is quite clear that the data base generated through these projects would be presented in the form of digital maps of various kinds, which is hitherto unavailable. It is not possible as	Approved to continue as standalone as per request of Director, AFRI. Letter No.: Ref: Director, AFRI letter No. 500/FED-5.16/AFR/JU-2011, dt.: 15 th May, 2013

		AICP, may be approved as standalone Project	
	Total	231.02	
Pending Projects			
Sl No.	Name of the Project	Total cost of the project (in lakhs)	Required budget for 2013-14 (in lakhs)
	Thrust Area-I		
1.	Selection of efficient AM fungi, PSBs and Azosirillum for productivity enhancement of <i>Dendrocalamus strictus</i> and <i>Bambusa bambos</i> . / Dr. K. K. Shrivastava / 2011-2014 (3 years)	15.35	0.60
2.	Survey evaluation and management of important insect- pest and disease of <i>Anogeissus pendula</i> . / Shivani Bhatnagar	18.81	0.50
	Thrust Area-II		
3.	Phytochemical evaluation, development of nursery practices and conservation of germplasm of <i>Withania coagulens</i> (stocks) Dunal and endemic and endangered species of Thar desert. / Dr. Mala Rathore / 2011-2015 (4 years)	19.834	0.83
	Total	53.994	1.93
Important Pending Project Required separate fund			
Sl No.	Name of the Project	Total cost of the project (in lakhs)	Required budget for 2013-14 (in lakhs)
	Thrust Area-IV		
1	Screening tree species for their potential to accumulate metals and to produce nanoparticles under in vivo and in vitro. / Dr. U.K. Tomar / 2012-2016 (4 years)	60.70	16.18 (To be managed within allotted budget)
	Total	60.70	16.18
	Grand Total	114.694	18.11

(xi) Institute: Rain Forest Research Institute, Jorhat.

Ongoing Projects Without Change Request				
Sl. No.	Title of the project	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)	
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth				
1.	Studies on the ecological and ethno mycological aspects of wild mushrooms of Nagaland. /P.I: Shri Rajesh Kumar/3 Years (April, 2011 - March 2014)	11.97	4.33	
2.	Molecular characterization of <i>Mimosa diplotricha</i> C. wright seed Polysaccharide. /P.I: Dr. Vikas Rana./ 3 Years (April, 2011 - March 2014)	14.94	3.00	
3.	Study on post flowering regeneration status of <i>Melocanna baccifera</i> in Tripura. /P.I: Dr. D.J. Das/4 Years (April, 2012 - March 2016)	25.57	4.89	
4.	Ecology, utilization and conservation of <i>Garcinia</i> species in upper Brahmaputra Valley, Assam. /P.I: Dr. D. Dutta/3 Years (April, 2012 - March 2015)	17.85	3.51	
5.	Preliminary phytochemical analysis of <i>Abroma Augusta</i> L.P.I: Dr. Vikas Rana/	3.68	3.68	
	Total:	74.01	19.41	
Thrust Area-II Biodiversity Conservation & Ecological security				
6.	Studies on the incidence and management of pine mortality in Manipur. P.I: Dr. R.K. Borah/3 Years (April, 2011 - March 2014)	9.67	3.29	
7.	Standardization of Inoculation Technique for Agarwood formation in <i>Aquilaria malaccensis</i> Lamk. /P.I.: Dr. R.K. Borah/5 years (April, 2009 – March, 2014)	9.96	0.72	
8.	Ecological studies on the distribution patterns and food plant resources of butterflies along altitudinal gradients in different forest eco systems of the Eastern Himalayas (Arunachal Pradesh). P.I: Dr. A.P. Singh/3 Years (April, 2011 - March 2014)	16.14	5.98	
9.	Screening of endomycorrhizae and bio agents in rhizosphere of <i>Abroma augusta</i> L. and their role in its propagation and conservation (Sub project). P.I: Dr. V. Parkash/3 Years (April, 2011 - March 2014)	15.52	3.89	
	Total	51.29	13.88	
Thrust Area-III Forests and Climate Change				
10.	Rehabilitation of degraded Jhum land through potential bamboo species with reference to carbon sequestration and livelihood development. /P.I: Dr. (Mrs.) I.P. Borah/5 Years (April, 2009- March, 2014)	16.12	3.55	
	Total	16.12	3.55	
Thrust Area-IV Forest Genetic Resource Management and Tree Improvement				
11.	All India Coordinated project on <i>Melia Dubia</i> . P.I: Dr. Tara Chand/	16.99	12.00	
	Total:	16.99	12.00	
	Grand Total	158.41	48.84	
Ongoing Project With Change Request				
Sl. No.	Title of the Project/ PI/ Duration	Total Cost of the Project (in lakhs)	Change request with justification	Recommendations of RPC
1.	Conservation, management and utilization of selected rattans of Assam. P.I: Dr. T.N. Manohara./ 3 Years (April, 2010- March, 2013)	20.00	Extension of the project for one year as field survey could not be complicated due to disturbances in some parts of Assam.	One year extension is approved.
	Total	20.00		

Pending Projects			
Sl. No.	Name of the project	Total cost of the project (in lakhs)	Required budget for 2013-14 (in lakhs)
	Thrust Area –I		
1.	Studies on the traditional knowledge of medicinal plants used by Nepali Community in Assam and identification of important species for chemical analysis. P.I.: Shri H.N. Dhungana / 2012-2015 (3years)	4.99	1.49
2.	Capacity building, skill upgradation of artisans and promotion of traditional bamboo handicraft and art with improve technology, suitable design and value addition. P.I.: Dr. T.C. Bhuyan/ 2012-2015 (3years)	25.28	11.38
	Thrust Area –II		
3.	Genetic diversity of <i>Trichoderma</i> strains prevalent in forest types of North East India. P.I.: Dr. S. Pandey/ 2012-2015 (3years)	27.21	21.53
	Thrust Area –III		
4.	Assessment of diversity and carbon sequestration potential of above ground woody biomass of semi evergreen forest of Assam. P.I.: Dr. Ranjeet Kumar/ 2012-2015 (3years)	14.68	4.92
	Thrust Area –IV		
5.	Screening of <i>Gmelina arborea</i> clone for productivity and stability. P.I. :Dr. Tara Chand./ 2012-2017 (5years)	31.98	7.92
6.	Stability analysis of candidate plus clumps (CPCs) of Bamboos and Identification of CPCs specific SSR Marker. / P.I.: Md. Ibrahim/ 2012-2015 (3years)	24.74	13.59
	Total	128.88	60.83

(xii) Institute: Himalayan Forest Research Institute, Shimla

Ongoing Projects Without Change Request			
Sl. No.	Title of the project	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth			
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)/ Mr. Jagdish Singh / 15 years (April, 2009-March, 2014)	29.23	05.94
2.	Assessment of Optimum harvest limits of <i>Picrorhiza kurrooa</i> & <i>Valeriana jatamansi</i> in Himachal Pradesh/ Dr A. Rajasekaran/5 Years (April 2009-March 2014)	26.62	04.65
3.	Studies on Seed Germination and Longevity of <i>Abies spectabilis</i> (D. Don) Spach- an ecologically important conifer species of high temperate Himalayas / Sh. P. S. Negi/5 years (April, 2011- March, 2016)	15.75	02.80
4.	Status, Survey and Mapping of Ashtavarga Group of Medicinal and Aromatic Plants (MAPs) in Himachal Pradesh./ Dr. Vaneet Jishtu/5 Years (April, 2012 - March 2017)	19.75	4.06
5.	Determination of nursery requirements and initial planting performance of <i>Diploknema butyracea</i> (Roxb.) H. J. Lam and <i>Myrica esculenta</i> Buch. Ham. under mid-hill conditions of Himachal./ Dr. Sandeep Sharma/ 2012-2017 (5 years)	15.50	3.51
Total		106.85	20.96
Thrust Area-II: Biodiversity Conservation and Ecological Security			
6.	Biology and Management of Insect pests of seeds of <i>Juniperus polycarpus</i> C. Koch and evaluating the insect-pests resistance performance in the nursery./ Dr. Pawan Kumar/3 Years (April, 2012 - March 2015)	7.50	2.52
Total		7.50	2.52
Thrust Area-III: Forest and Climate Change			
7.	Study on the Influence of Climate on Bionomics of <i>Pityogenes scitus</i> Blanford (Coleoptera: Scolytidae) in Himachal Pradesh./ Dr. Ranjeet Singh/5 years (April, 2010- March, 2015)	19.00	03.73
8.	Assessment of Carbon Stock in Forest Types of Shimla Forest Circle, Himachal Pradesh/ Dr. R. K. Verma,/ 5 years, (April, 2011- March, 2016)	24.95	03.17
Total		43.95	6.9
Thrust Area-IV: Forest Genetic Resource Management and Tree Improvement			
9.	Isozyme Variation in Natural Populations of <i>Pinus gerardiana</i> (NEOZA PINE)/ Dr. Rajesh Sharma/3 years (April, 2011- March, 2014)	13.70	04.31
10.	Population Genetic Analysis of Himalayan Banj Oak (<i>Quercus leucotrichophora</i>) forests and its pertinence to Genetic Conservation/ Dr. H.S. Ginwal/3 years (April, 2011- March, 2014)	05.00	01.49
Total		18.7	5.8
Grand Total		177.00	36.18
Pending Projects			
Sl. No.	Name of the Project	Total Cost of the Project (in lakhs)	Required Budget for 2013-14 (in lakhs)
Thrust Area-III : Forest & Climate Change			
1.	All India coordinated project (AICP) Climate change forestry research programme (AICFP) HFRI one of the implementing institute.	-	40.00
2.	Carbon sequestration potential of existing land use system in Lahaul Valley, Himachal Pradesh. / Dr. K.S. Kapoor / 2012-2017 (5years)	27.40	06.37
Total			46.37

(xiii) Institute: Institute of Forest Biodiversity, Hyderabad.

Ongoing Projects Without Change Request				
Sl. No.	Title of the project	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)	
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth				
1.	Development of Agroforestry model in <i>Wrightia tinctoria</i> R.Br. and <i>Gmelina arborea</i> Roxb. as tree species in semi arid tropics of Andhra Pradesh (2009-14)	10.32	2.84	
	Total	10.32	2.84	
Thrust Area – IV Forest Genetic Resource Management and Tree Improvement				
2.	Establishment and evaluation of multilocational trails of <i>Melia azedarach</i> L. and <i>Melia dubia</i> Cav. (Ex.M. Roem) – Phase-II (2011-2015)	18.00	4.68	
3.	Molecular assessment of breeding patterns in clonal seed orchards of Teak in Andhra Pradesh (2011-14)	26.00	4.72	
	Total	44	9.4	
	Grand Total	54.32	12.24	
Ongoing Project With Change Request				
Sl. No.	Title of the Project/ PI/ Duration	Total Cost of the Project (in lakhs)	Change request with justification	Recommendations of RPC
1.	Population genetics and phylogeography of <i>Pterocarpus santalinus</i> L.f. and its <i>Ex-situ</i> conservation through biotechnological interventions (FRC/XI/17)/ Dr. S. Pattanaik/ 2010-2013 (3 years)	25.00	The PI was involved in the field survey and analysis work for the reassignment of forest types of India and devoted considerable amount of time for the same (April-June 2013). Further because of the breakdown of the liquid nitrogen container, laboratory works had suffered for two months (August-Sept. 2012). Hence, three months extension period is essential to logically conclude the project.	Approved three months extension.
2	Development of the micro propagation protocols for production of superior germplasm <i>Dalbergia latifolia</i> Roxb. and <i>Pterocarpus santalinus</i> L. FRC XI-14./ Dr. G.R.S. Reddy/ 2009-2013(4 years)	10.00	Project is progressing as per annual action plan. The stated objectives were achieved in rosewood and multiple shoot initiation in Red Sanders except for the root induction and hardening which needs to be refined further to a satisfactory level. The root induction studies were relegated behind schedule because of erratic and highly interrupted power supply due to Telangana education and various related factors. It needs to be refine the protocol of red sanders further and multiplied the plant lets for hardening and propagation which needs one year extension. Simultaneously the induction of callus in Rosewood and Red Sanders are proposed to be attempted in the extended period to accomplish the task and extension of one year is required to the project. Requires Rs. 2.00 lakhs	One year extension and Rs. 1.3 lakhs is approved.

Table I : Number of Ongoing Projects of the Institutes (including Ongoing Projects With Change Request) and Pending Projects for 2013-2014

SI No.	Institute	No. of ongoing projects (without change request) (A)	No. of ongoing projects (with change request) (B)	Total no. of Ongoing Projects (C=A+B)	Pending projects to be taken up in 2013-14 (D)	Total no. of Projects (E=C+D)
1	FRI, Dehra Dun	48	20	68	5	73
2	CSFER, Allahabad	3	1	4	0	4
3	IWST, Bangalore	27	3	30	2	32
4	IFGTB, Coimbatore	38	0	38	6	44
5	IFP, Ranchi	8	0	8	0	8
6	TFRI, Jabalpur	19	0	19	0	19
7	CFRHRD, Chhindwara	1	0	1	0	1
8	AFRI, Jodhpur	19	8	27	4	31
9	HFRI, Shimla	10	0	10	2	12
10	IFB, Hyderabad	3	2	5	0	5
11	RFRI, Jorhat	11	1	12	6	18
Total		187	35	222	25	247

Table II: Budget Requirement for Ongoing Projects of the Institutes (including Ongoing Projects With Change Request) and Pending Projects for 2013-2014

SI No.	Institute	Budget requirement for ongoing projects for 2013-2014 (in lakhs) (A)	Budget requirement for pending projects for 2013-2014 (in lakhs) (B)	Total Budget Required for 2013-14 (in lakhs) (C=A+B)
1	FRI, Dehra Dun	298.14	17.76	315.90
2	CSFER, Allahabad	10.99	0.00	10.99
3	IWST, Bangalore	72.03	0.00	72.03
4	IFGTB, Coimbatore	115.83	28.80	144.63
5	IFP, Ranchi	31.07	0.00	31.07
6	TFRI, Jabalpur	117.52	0.00	117.52
7	CFRHRD, Chhindwara	1.72	0.00	1.72
8	AFRI, Jodhpur	48.81	18.11	66.92
9	HFRI, Shimla	36.18	46.37	82.55
10	IFB, Hyderabad	13.54	0.00	13.54
Total		745.83	111.04	856.87
North East				
11	RFRI, Jorhat	48.84	60.83	109.67
Total		48.84	60.83	109.67
Grand Total		794.67	171.87	966.54

**Thrust Area Wise and Institute wise
XIV RPC Recommendations and
Observations on the New Research
Proposals Presented**

Annexure III

New Research Proposals

THRUST AREA - I: MANAGING FORESTS & FOREST PRODUCTS FOR LIVELIHOOD SUPPORT AND ECONOMIC GROWTH.				
Sl. No.	Title of Project/PI/Duration	Proposed Budget (Rs. in lakhs)	Current year 2013-14 requirement (Rs. in lakhs)	RPC Recommendations/ Decisions Taken
INSTITUTE: Forest Research Institute, Dehradun				
1	Entomychological studies in Garhwal Himalaya for edible and medicinally important mushrooms./ P.I.: Dr Ashwani Tapwal, Scientist-C /2013-2017 (3 years)	13.93	5.44	To be developed as AICP with FRI as nodal Institute with the comments/observations of the National Project Director.
2	Production of reducing sugars through pre-treatment lignocellulosic biomass for bioethanol./ P.I.: Dr. P.K. Gupta, Scientist-F /2013-2016 (3 years)	8.84	2.48	Standalone Project Approved subject to the availability of funds.
3	Strength evaluation of structural bamboo./ P.I.: Shri. Rajesh Bhandari, Scientist-E /2013-2016 (3 years)	4.91	2.28	Approved. Institute may justify By verifying with earlier works.
4	Physical, mechanical properties and fiber morphology of some bamboo species. / P.I.: Dr. Y.M. Dubey, Scientist-C /2013-2016 (3 years)	4.00	1.92	Approved, Institute may justify the project utility
5	Improvement and innovation in Solar timber dryer design and trial with Thermal Energy Storage System (TESS)/ P.I.: Shri. Shailendera Kumar, RO / 2013-2016 (3 years)	3.36	1.56	Approved however, Institute may justify 2 nd modification.
6	Micro-propagation of plus clumps of <i>Bambusa nutans</i> and <i>Dendrocalamus hamiltonii</i> and establishment of multilocational trials./ Shri. J.M.S Chauhan, Sci-C/ 2013-2017 (3 years)	10.88	2.62	Institute may justify
INSTITUTE: Centre for Social Forestry and Eco-Rehabilitation, Allahabad				
1	Extension of Poplar Based Agroforestry in Eastern Uttar Pradesh./ P.I.: Shri M.K. Shukla, IFS, Director / 2013-	52.84	16.06	Approved subject to the availability of funds.

	2018 (5 years)			
2	Development of site specific medicinal plant based agro-forestry models for existing plantations of Guava and Anola in Eastern Uttar Pradesh and establishment of demonstration model. / P.I.: Dr. B. K. Pandey, Scientist-D / 2013-2018 (5 years)	21.86	3.15	Project should be developed in AICP mode.
3	Promotion of Eucalyptus based Agroforestry in Eastern U P. / P.I.: Dr. Anubha Srivastava, Research Officer / 2013-2018 (5 years)	17.48	4.36	Project should be developed in AICP mode.
4	Promotion of Shisham based Agroforestry in Eastern U P./ P.I.: Dr. Anubha Srivastava, Research Officer / 2013-2018 (5 years)	15.98	3.36	Project should be developed in AICP mode.
5	Capacity building for Rehabilitation of lac cultivation and processing mechanism in Eastern Uttar Pradesh for rural development./ P.I.: Dr. B. K. Pandey, Scientist-D / 2013-2018 (5 years)	23.50	4.59	May be developed as networking project with IFP, Ranchi as nodal Institute by assigning task to scientist working Lac. 3 similar projects from 3 Institutes can be combined as inter-institutional Three similar projects from three institutes can be combined as inter-institutional
6	Promotion of Lesser Known beneficial species in Social Forestry Programmes./ Dr. Anita Tomar, Sci- C/ 2013-2016 (3 years)	9.72	3.43	Institute may justify
INSTITUTE: Institute of Wood Science & Technology, Bangalore				
1	Nanocellulose filled starch based composites./ P.I.: Ajay Karmarkar, Scientist-F / 2013-2015 (2 Years)	5.18	2.58	Approved subject to the availability of funds.
2	Liquefaction of Wood and value added products from the liquefied wood./ P.I.: Dr. S.S. Chauhan / 2013-2016 (3 years)	3.35	2.35	Approved subject to the availability of funds.

3	Chemical modification of Eucalyptus hybrid oil and development of fragrant Products./ P.I.: Mr. S.H. Jain / 2013-2016 (3 years)	9.50	5.50	Approved subject to the availability of funds.
4	Bioassay of plant extractives for antibacterial activity of marine biofilm isolates./ P.I.: Mr. M.V. Rao / 2013-2017 (4 years)	9.28	2.06	Approved subject to the availability of funds.
5	Characterization of selected botanicals exhibiting anti wood borer activity in marine environment./ P.I.: Mr. M.V. Rao / 2013-2017 (4 years)	8.73	3.00	Can be combined. Already dropped by the institute.
6	Development of database on selected Non-Timber Forest Produce in Southern India./ P.I.: V. Soundararajan / 2013-2016 (3 years)	8.00	3.52	DRI may discuss with the DDG (Education) and ADG (Education and Policy Research) regarding the inclusion of this project in networking project on NTFPs in collaborating some agricultural universities from Karnataka.
INSTITUTE: Institute of Forest Genetics and Tree Breeding, Coimbatore				
1	Development of livelihood strategies and capacity building for tribes through NTFPs and Medicinal plants in Coimbatore Districts of Tamil Nadu./ P.I.: Dr. K. Panneer Selvam, Scientist C / 3 Years (2013 - 2016)	27.57	4.22	This project could be incorporated under livelihoods project. Director (IC), ICFRE may be contacted for this.
2	Insect pests of out planted saplings of TCPL (Tree Cultivation in Private Lands) species and their management./ P.I.: Dr. John Prasanth Jacob, Scientist-E / 3 Years (2013 - 2016)	21.99	6.63	Institute may justify. This project could be incorporated under agro-forestry project . Institute may contact NPD and nodal officer of the project.
3	Molecular Characterization of PGPRs and Actinomycetes and their efficacy as Biological Control Agents against Forest Tree Pathogens./ Dr. V. Mohan, Sci- F/ 2013-2016 (3 years)	14.55	4.16	To be submitted for external funding.
INSTITUTE: Institute of Forest Productivity, Ranchi				
1	Livelihood support through lac cultivation on non traditional host <i>Flemingia</i> species for the rural tribal farmers of Jharkhand./ P.I.: Dr. Sharad Tewari, Sci-E /	65.31	26.20	➤ To be developed as inter institutional project on lac. ➤ IFP, Ranchi as Nodal Institute.

2013-2016 (3 Years)				
INSTITUTE: Tropical Forest Research Institute, Jabalpur				
1	Standardization of processing and storage techniques of Malkangni (<i>Celastrus panuculatis</i>), Baheda (<i>Terminalia belerica</i>) & Baividang (<i>Embelia tsjeriam – cottam</i>) fruits/seeds./ P.I. Dr. S.C. Biswas, Sci-B / 2013-2016 (3 Years)	6.37	2.58	Approved subject to the availability of funds.
2	Studies on the causes of <i>Gmelina</i> mortality in plantation of Madhya Pradesh, Chhattisgarh and its integrated management./ P.I.: Dr. V.S. Dadwal, Sci-C / 2013-2016 (3 Years)	2.80	1.20	Approved subject to the availability of funds.
3	Studies on insect biocontrol agent, <i>Chrysoperla carnea</i> and its potentiality as insect predator./ P.I. Subhash Chandra, Sci-C/ 2013-2016 (3 Years)	6.37	2.04	Institute may do complete literature review.
INSTITUTE: Arid Forest Research Institute, Jodhpur				
1	Integrated lac and medicinal plants cultivation and demonstration or livelihood support in Gujarat & Rajasthan. (MERGED)/ PI: Dr. Shiwani Bhatnagar, Sci-B / 2013-2016 (3 Years)	37.47	5.65	➤ To be developed as inter institutional project on lac. ➤ IFP, Ranchi as Nodal Institute.
2	Integrated pest and disease management (IPDM) of important tree species in nurseries of Rajasthan./ Mrs. Seema Kumar, Sci-D/ 2013-2017 (4 years)	20.16	5.65	Can be taken up in AICP mode.
3	Effect of shallow water table on physiological behavior of different tree species growing along Jojari river./ Sh. Manish K. Singh, Sci-B/ 2013-2016 (3 years)	22.52	14.53	Approved subject to funding from Jodhpur Development authority and SFD. Recast the title.
INSTITUTE: Rain forest Research Institute, Jorhat				
1	Raising planting materials of selected cane species and establish plantation in fringe villages of Karbi-anglong, Assam to sustain rural livelihood./ Shri H.R. Borah, Research Officer / 2013-2016 (3 Years)	22.79	4.78	This project could be incorporated under livelihoods project. Action Dr. N.S. Bisht, Director (IC).
2	Studies on soil profile attributes and its relation with forest	16.286	6.61	Approved Stand alone.

	vegetation of some selected sites of Nagaland State./ Dr. P.K. Das, Sci.-C/2013-2016 (3 years).			
3	Studies on the diversity of soil borne entomopathogenic fungi in different land use system of North East India and their utility for the management of major defoliators of <i>Gmelina arborea</i> Roxb. and <i>Aquilaria malaccensis</i> Lamk./ Shri. R. Raja Rishi, Sci-C/ 2013-2016 (3 years)	8.27	2.43	Approved.
INSTITUTE: Himalayan Forest Research Institute, Shimla				
1	Ecological assessment and selection of superior genotypes of Salix and Poplars for developing appropriate models for benefit of communities in the Cold Deserts of Himachal Pradesh./ P.I. : Dr. KS Kapoor, Scientist-F / 2013-2018 (5 years)	60.00	8.38	Institute may justify Budget requirements ➤ Funding could be explored from the States. ➤ J&K may be included in later stage. ➤ Linkages can be developed with Kashmir University.
2	To determine optimum age of harvest of Khair trees./ Dr. Rajesh Sharma, Sci-F/ 2013-2015 (2 years)	7.95	4.29	Institute may justify. Funds for the project may be explored from SFD being as a demand driven project.
3	Standardization of nursery and planting technique of <i>Juniperus polycarpus</i> C. Koch./ P.I. : Sh. P.S. Negi, RO/ 2013-2018 (5 Years)	20.40	3.13	Likely duplication. Institute may justify.
4	Biological Control of Insect-Pests of <i>Aconitum heterophyllum</i> , <i>Picrorhiza Kurooa</i> , <i>Saussurea costus</i> in Nursery and Extension of Protection Technology./ Dr. Ranjeet Singh, Sci-F / 2013-2015 (3 years)	15.05	4.70	Institute may justify. Possibility of funding may be explored from NMPB.
5	Soil organic carbon inventory of different agroforestry systems in Himachal Pradesh./ Dr.V.P. Panwar, Sci-C / 2013-2018 (5 Years)	20.50	4.53	Dropped
6	Establishment of <i>Lymantria obfuscata</i> cell lines for propagation of LONPV Baculovirus./ Dr. S. Chakarabarti, Sci-F / 2013-2016 (3 years)	12.85	7.55	Approved subject to the availability of the funds.
7	Role of agroforestry on community livelihood and carbon	23.70	4.36	Dropped

	mitigation in lower hills of HP./ Dr. Vijender Pal Singh Panwar, Sci-C / 2013-2018 (5 years)			
8	Valuation of Ecosystem's Goods and Services of Satluj River to Assess its Contribution Towards Green Economy./ Dr. K.S. Kapoor, Sci-F/ 2013-2015 (2 years)	15.20	6.77	Approved subject to the availability of funds from SFD/NHPC/BBMB. Reframe the title as "Contribution of forest ecosystems in sustaining hydro-electric projects".
INSTITUTE: Institute of Forest Biodiversity, Hyderabad				
1	Development of Agro-forestry models based on RET and Medicinal species in Andhra Pradesh./ Dr. G. Ravi Shankar Reddy, Sci-F/ 2013-2018 (5 years)	40.55	Nil	Possibility may be explored for funding from National Institute of Rural Development. For External funding from NIRD or any other funding agency.
2	The successional trends and productivity studies of Sriharikota (SHAR) and Pulicat Lake Ecosystems for conservation of biodiversity./ Dr. G.R.S. Reddy / 2013-2016 (3 years)	29.00	3.67	Approved subject to availability of funds

THRUST AREA - II: BIODIVERSITY CONSERVATION AND ECOLOGICAL SECURITY				
Sl. No.	Title of Project	Budget (Rs. in lakhs)	Current year 2013-14 requirement (Rs. in lakhs)	RPC Recommendations/ Decisions Taken
INSTITUTE: Forest Research Institute, Dehradun:				
1	Qualification and conservation of <i>Indopiptadenia oudhensis</i> , <i>Ilex pseudo-odorata</i> , <i>trachycarpus takil</i> , <i>Cochlospermum religiosum</i> , <i>Turpenia cochinchinensis</i> Rare/Endangered trees of Uttarakhand. / Dr. Ranjana Negi, Sci-B/ 2013-2016 (3 years)	6.97	2.74	Approved subject to the availability of the funds.
2	Propagation and conservation of vulnerable/threatened species of Uttarakhand./ Dr. Nav Bahar, Sci-B/ 2013-2017 (4 years)	9.31	2.20	This project could be prepared as a collaborative project with Uttarakhand Forest Department.
3	Study of weeds and their management in FRI campus./ Shri. A.K. Acharya, DCF, ASE	10.82	Nil	Dropped
4	Effect of heavy metals on morpho-biochemical traits and metal accumulation in some forest trees species./ Dr. Meena Bakshi / 2013-2016 (3 years)	10.82	3.94	Approved subject to justification from Institute.
INSTITUTE: Centre For Social Forestry And Eco-Rehabilitation, Allahabad				
1	Evaluation of bamboo species for Bioremediation of Usar land in Uttar Pradesh./ Dr. B. K. Pandey, Sci-D/2013-2018 (5 years)	19.51	3.65	Dropped. It was suggested that CSFER, Allahabad should work on agro-forestry species including poplar in Uttar Pradesh with the help of IFP, Ranchi.
2	Evaluation of Medicinal and Aromatic plant Species for Bioremediation of Usar land in Uttar Pradesh. / Dr. B. K. Pandey, Sci-D/ 2013-2018 (5 years)	18.11	2.25	Dropped
INSTITUTE: Institute of Wood Science & Technology, Bangalore				
1	Rehabilitation of Bellary-Chitradurga iron ore belt by ecosystem approach./ Dr. B.N. Diwakara/ 2013-2016 (3 years)	9.99	2.98	Dropped
2	Diversity and species assemblage of scarabs (Coleoptera:	8.96	1.96	Approved subject to the

BIODIVERSITY CONSERVATION AND ECOLOGICAL SECURITY

	Scarabaeidae) in forest ecosystems of central Western Ghats./ Y.B. Srinivasa/ 2013-2016 (3 years)			availability of funds.
INSTITUTE: Institute of Forest Genetics and Tree Breeding, Coimbatore				
1	Invasion impacts of <i>Acacia mearnsii</i> on changes in soil fertility status of shola forests in the Western Ghats./ Dr. A.C. Surya Prabha, Sci-C/ 2013-2018 (5 Years)	25.47	4.43	Reframe it as preservation of Shola forest ecosystem and possibility for funding can be explored from SFD.
2	Biocolourant: Bioprospecting of selected accessions of Red tamarind as natural dye in textile industry./ Dr. S. Murugesan, Sci-F/ 2013-2016 (3 years)	29.544	3.36	Approved but funding can be explored from outside agencies such as CSIR and DBT etc.
3	Development of seed pelleting techniques for commercially important tree species./ R. Anandalakshmi, Sci-D / 2013-2016 (3 years)	15.00	4.88	Approved subject to the availability of funds.
INSTITUTE: Institute of Forest productivity, Ranchi				
1	Standardization of nursery techniques for organic cultivation of <i>T. Terrestris</i> L. & <i>C. quadrangularis</i> L. medicinal plants extensively used in traditional system of medicine./ Dr. Malabika Ray, Sci-D/2013-2016 (3 Years)	11.78	2.00	Reframe the project with main emphasis on cultivation techniques instead of nursery techniques. Reduced the funds/budget. Species selection can be made on the basis of agro-climatic zones.
INSTITUTE: Tropical Forest Research Institute, Jabalpur				
1	Impact of coal and iron mining on forest health and crop productivity in Chhattisgarh./ Dr. A.K. Bhowmik, Sci-C / 2013-2016 (3 Years)	13.28	3.69	Dropped
INSTITUTE: Arid Forest Research Institute, Jodhpur				
1	Diversity of pollinators and their role in fruit/pod production of <i>Acacia senegal</i> , <i>Capparis decidua</i> and <i>Prosopis cineraria</i> in Rajasthan./ Dr. Shiwani Bhatnagar, Sci-B/ 2013-2016 (3 years)	19.53	8.38	Approved subject to availability of funds.
2	Rehabilitation of limestone mine over-burden in arid region of Western Rajasthan./ Sh. S. R. Baloch, Sci-B/ 2013-2018 (5 Years)	45.38	15.84	Approved. Hold a one day workshop on the subject and explore the possibility of funding from Hindustan Zinc Ltd./CAMPA funds of SFD.

INSTITUTE: Rain forest Research Institute, Jorhat				
1	Studies on the economically important diseases of medicinal and aromatic plants of Assam to develop management practices through organic approach./ Dr. Shailesh Pandey, Sci-B/ 2013-2016 (3 Years)	8.00	3.58	Approved.
INSTITUTE: Himalayan Forest Research Institute, Shimla				
1	Biodiversity of Spiders (Arachnida:Araneae) in Himachal Pradesh./ Dr. S. Chakarabarti, Sci-F / 2013 to 2016 (3 years)	7.47	4.49	Approved subject to the availability of funds.
2	Assessment of plant diversity in Tundah Wildlife Sanctuary of District Chamba, Himachal Pradesh for long term ecological monitoring./ Dr. R.K. Verma, Sci-F/ 2013 to 2017 (4 years)	7.27	1.68	Dropped. AICP on Access and Benefit Sharing to be prepared by Prof. S.P. Singh, Chair of Excellence, FRI (DU) in consultation with Dr. Anil Joshi, HESCO. A Committee to be constituted under the Chairmanship of Prof. S.P. Singh, Chair of Excellence, FRI (DU) on Access and Benefit Sharing and capacity building of villagers.
INSTITUTE: Institute of Forest Biodiversity, Hyderabad				
1	Screening of certain forest flora based on ethno-botanical records for their bio-efficacy against insect pests./ Dr. N. Rama Rao, Sci-G/ 2013-2016 (3 Years)	23.09	Nil	Approved. Deferred for next year.
2	Natural Regeneration Studies of important tree species of Nallamalla Seshachalam Hills and Koundinya wildlife sanctuary of Eastern Ghats of Andhra Pradesh./ Dr. G.R.S. Reddy, Sci-F/ 2013-2018 (5 Years)	18.00	4.40	Approved. RPC suggested to include population dynamic studies.
3	Ecological diversity of Kawal Tiger Reserve in Andhra Pradesh- A Bench Mark Study./ Dr. G. Ravi Shankar Reddy, Sci-F/ 2013-2018 (5 Years)	24.71	2.97	Approved subject to availability of funds.

THRUST AREA - III: FORESTS AND CLIMATE CHANGE				
Sl. No.	Title of Project	Budget (Rs. in lakhs)	Current year 2013-14 requirement (Rs. in lakhs)	RPC Recommendations/ Decisions Taken
INSTITUTE: Forest Research Institute, Dehradun				
1	Seasonal characteristics and climate effect to black carbon aerosols over the urban areas of Uttarakhand./ Dr. A.K. Tripathi, Registrar and Sci-F./ 2013-2016 (3 Years)	20.64	2.49	To be a part of AICP (Impact Component) Methodology and funding. Issue may be discussed with concerned NPD.
INSTITUTE: Centre For Social Forestry And Eco-Rehabilitation, Allahabad: Nil				
INSTITUTE: Institute of Wood Science & Technology, Bangalore: Nil				
INSTITUTE: Institute of Forest Genetics and Tree Breeding, Coimbatore				
1	Screening tree species for intra-specific variation in carbon sequestration potential under elevated CO ₂ ./ Dr. C. Buvaneshwaran, Sci-E / 2013-2016 (3Years)	9.57	2.69	Approved subject to availability of funds.
INSTITUTE: Institute of Forest productivity, Ranchi:				Nil
INSTITUTE: Tropical Forest Research Institute, Jabalpur :				Nil
INSTITUTE: Arid Forest Research Institute, Jodhpur :				Nil
INSTITUTE: Rain forest Research Institute, Jorhat :				Nil
INSTITUTE: Himalayan Forest Research Institute, Shimla :				Nil
INSTITUTE: Institute of Forest Biodiversity, Hyderabad :				Nil

THRUST AREA IV: FOREST GENETIC RESOURCE MANAGEMENT AND TREE IMPROVEMENT				
Sl. No.	Title of Project	Budget (Rs. in lakhs)	Current year 2013-14 requirement (Rs. in lakhs)	RPC Recommendations/ Decisions Taken
INSTITUTE: Forest Research Institute, Dehradun:				
1	Genetic diversity and adaptability though morphological and molecular markers in <i>Dalbergia sissoo</i> Roxb./ Dr. Ashok Kumar, Sci-E/ 2013-2016 (3 Years)	24.86	11.54	Approved subject to availability of funds
2	Clonal propagation of newly developed superior hybrids/genotypes of Eucalypts and their development in the field./ Ms. Praveen, Sci-C./ 2013-2016 (3 Years)	18.78	5.26	New component added in AICP on Eucalyptus. Approved subject to availability of funds.
3	Field evaluation of recombinants emanating from F1 and F2 generations of <i>Corymbia</i> (Syn. <i>Eucalyptus</i>) hybrid <i>C. citrodora</i> Hook. x <i>C. torelliana</i> F.v. Muell for high productivity (follow up for high project)./ Dr. Ajay Thakur, Sci-C/ 2013-2015(2 years)	19.91	4.54	New component added in AICP on Eucalyptus. Approved subject to availability of funds.
4	Cytogenetic investigations of selected forest tree species./ Dr. Rama Kant, Sci-B./ 2013-2016 (3 Years)	22.71	7.57	New component added in AICP on Forest Genetics Resource Evaluation and Conservation. Approved subject to availability of funds.
INSTITUTE: Centre for Social Forestry and Eco-Rehabilitation, Allahabad:				
1	All India Coordinated Project for Genetic Improvement of <i>Melia Composita</i> Wild Nodal Institute FRI: CSFER, Allahabad will be the part of this AICP./ Dr. Kumud Dubey / 2012-2022 (10 years)	-	4.00	Technically approved subject to availability of funds.
INSTITUTE: Institute of Wood Science & Technology, Bangalore:				Nil
INSTITUTE: Institute of Forest Genetics and Tree Breeding, Coimbatore				
1	Documentation of existing forest genetic resources in India and preparation of a national register of FGR./ M. Maria Dominic Savio, Sci-D/ 2013 - 2016 (3 Years)	101.74	38.91	New component added in AICP on Forest Genetics Resource Evaluation and Conservation. Approved subject to availability of funds.

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2	Production of multi-parent intercross populations of eucalypts and transcript profiling for salinity tolerance./ Dr. R. Yasodha, Sci-F/ 2013-2016 (3 years)	32.36	6.24	New component added in AICP on Eucalyptus. Approved subject to availability of funds.
3	Isolation and characterization of Cinnomoyl CoA Reductase gene in <i>Casuarina equisetifolia</i> ./ Dr. A. Shanthi, Sci-B/ 2013-2016 (3 years)	18.71	4.74	New component added in AICP on <i>Casuarina equisetifolia</i> . To be started with AICP as and when funds are available.
4	Studies on heart-rot and root rot diseases of Phyllodinous Acacias./ Dr. V. Mohan, Sci – F/ 2013-2017 (4 years)	26.33	3.26	AICP on Phyllodinous Acacias. Approved subject to availability of funds.

INSTITUTE: Institute of Forest Productivity, Ranchi:

1	Collection, conservation and evaluation of <i>Melia dubia</i> germplasm from North Bengal, Odisha Hills and other parts of India for identification and release of superior clones./ Sh. Aditya Kumar, Sci–B/ 2013-2018 (5 Years)	67.50	23.43	New component added in AICP on <i>Melia</i> . Approved subject to availability of funds.
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INSTITUTE: Tropical Forest Research Institute, Jabalpur :

1	Studies on effect of introduction of honey bee on seed production in teak seed orchards./ P.I. Dr. Deepa M., Sci-B./ 2013-2016 (3 Years)	7.52	2.69	New component added in AICP on Teak. Check the pollination deficiency/ flowering problem in teak from available literature and take up preliminary study.
2	Genetic improvement of <i>Dalbergia latifolia</i> Roxb. through selection and evaluation of germplasm in central India./ Dr. Fatima Shirin/ 2013-2016 (3 Years)	99.04	7.43	New component added in Inter Institutional AICP on <i>Dalbergia latifolia</i> . To be taken with complete project subject to availability of funds.
3	Collection and morpho-molecular characterization of critically endangered <i>Litsea glutinosa</i> germplasm from Madhya Pradesh and Chhattisgarh./ Dr. Naseer Mohammad, Sci-B/ 2013-2016 (3 years)	11.12	3.99	New component added in AICP on Forest Genetic Resource Evaluation and Conservation. Revise the proposal including <i>ex-situ</i> conservation aspect of the proposed species.

INSTITUTE: Arid Forest Research Institute, Jodhpur

1	Assessment of guggul plant's population density phenology and	24.19	4.88	New component added in AICP on "Forest Genetic Resource
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FOREST GENETIC RESOURCE MANAGEMENT AND TREE IMPROVEMENT

	progenies in Gujarat./ Dr. Shivesh Kumar Rajput/ 2013-2016 (3 Years)			Evaluation and Conservation". Subject to availability of funds.
INSTITUTE: Rain forest Research Institute, Jorhat				
1	<i>In vitro</i> propagation of <i>Vanda coerulea</i> ./ Shri Satyam Bordoloi, Sci-B./ 2013-2016 (3 years)	6.65	2.85	Approved
2	Study on seed source variation for germination and seedling growth and establishment of seedling seed orchard of <i>Michelia champaca</i> ./ Md. Ibrahim, Sci-B/ 2013 to 2016 (3 years)	10.47	3.20	Approved
INSTITUTE: Himalayan Forest Research Institute, Shimla:				Nil
INSTITUTE: Institute of Forest Biodiversity, Hyderabad				
1	Productivity improvement in <i>Pterocarpus santalinus</i> L.f. through mass selection and selective breeding./ Dr. S. Pattanaik, Sci-E/ 2013-2018 (5 years)	37.77	Nil	For external funding from DBT, SFD.

Annexure VII

Institute: Centre for Forest based Livelihood and Extension (CFLE), Agartala			
Sl. No	Title of the project/PI/ Duration	Total cost of the project (in lakhs)	Budget approved for 2013-14 (in lakhs)
Thrust Area 1 . Managing Forests and Forest Products for livelihood Support and Economic Growth.			
49.	Documentation of Forest based livelihood supports. (1 year)	0.75	0.75
50.	Livelihood Research and Development Program on bamboo handicrafts and their value addition (in collaboration with BCDI, Agartala)./ (1 year)	4.00	4.00
Total		4.75	4.75
Thrust Area 2 .Biodiversity Conservation & Ecological Security			
51.	Biodiversity assessment of various sites in Tripura./ (1 year)	1.40	1.40
Total		1.40	1.40
Thrust Area 3. Forestry intervention for Climate Change mitigation and adaptation			
52.	Studies on Check dams/ water-bodies. / (1 year)	2.40	2.40
53.	Studies on lowering of water table with special reference to Haora River./ (1 year)	3.55	3.55
Total		5.95	5.95
Grand Total		12.00	12.00

Table III: Status of New Projects of the Institutes with Budget

Sl. No	Institute	New Research Projects Submitted		New Research Projects Approved		
		Number of Projects	Budget Outlay (in lakhs)	Number of Projects	Budget Outlay (in lakhs)	Budget requirement (2013-14) (in lakhs)
1	FRI, Dehra Dun	15	190.74	13	170.61	170.61
2	CSFER, Allahabad	9	179	7	141.38	141.38
3	IWST, Bangalore	8	62.99	7	53	20.97
4	IFGTB, Coimbatore	11	322.83	10	297.364	79.09
5	IFP, Ranchi	3	144.59	2	132.81	49.63
6	TFRI, Jabalpur	7	146.5	6	133.22	19.93
7	AFRI, Jodhpur	6	169.25	6	169.25	54.93
8	RFRI, Jorhat	6	72.47	6	72.466	23.45
9	CFLE, Agartala*	5	12.00	5	12.00	12.00
10	HFRI, Shimla	10	190.39	9	183.12	48.2
11	IFB, Hyderabad	6	173.12	5	135.35	11.04
Total		86	1663.88	76	1500.57	631.23

*5 projects of CFLE, Agartala costing Rs. 12.00 lakhs are yet to be approved.