

**Proceedings of The
VIII Research Policy Committee Meeting**

26th and 27th February 2007

at

ICFRE Board Room

Dehra Dun

Mandate of the Research Policy Committee

(RPC)

- **To consider and review Research Projects of ICFRE Institutes duly approved by RAG, in consonance with State, Regional and National priorities.**
- **To consider and approve new Projects of all Institutes (RPC may even decide new Projects which have not come through RAG). It may also recommend to modify or delete the Projects as appropriate.**
- **To review and co-ordinate Research programme of ICFRE Institutes with SFDs, NGOs etc.**
- **To approve the prioritized Research Projects of each Institute, and to guide ICFRE in mobilizing and optimizing the resources.**
- **To help in ensuring the balance among various disciplines with a view avoiding undesirable duplication of work, and promote effective coordination.**
- **To explore the possibility of meaningful collaboration with other agencies engaged in forestry research.**

AGENDA
VIII RESEARCH POLICY COMMITTEE (RPC)
MEETING OF ICFRE

Date - **26th and 27th February 2007**
Venue - **Board Room, ICFRE, Dehradun**

26.02.2007

09.30 - 09.45 Introduction by DDG (R)
09.45 - 10.00 Remarks by DG ICFRE
10.00 - 01.00 Presentation by ICFRE Institute Directors and Discussion on
Prioritized New Research Projects
Ongoing Research Projects (Progress)

**1. Institute of Forest Genetics and Tree
Breeding, Coimbatore**

02.00 - 05.30 Presentation and discussion continues-

- 2. Rain Forest Research Institute, Jorhat**
- 3. Tropical Forest Research Institute, Jabalpur**
- 4. Himalayan Forest Research Institute, Shimla**

27.02.2007

09.30 - 01.00 Presentation by ICFRE Institute Directors and Discussion on
Prioritized New Research Projects
Ongoing Research Projects (Progress)

- 5. Arid Forest Research Institute, Jodhpur**
- 6. Institute of Forest Productivity, Ranchi**
- 7. Institute of Wood Science and Technology,
Bangalore**

02.00 - 05.15 Presentation and discussion continues-

8. Forest Research Institute, Dehradun

05.15 - 05.30 Wrap-up and concluding session
Concluding remarks by DG / DDG (R)

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Dehra Dun**

VIII RPC meeting was held in the Board Room of ICFRE Headquarters on 26th and 27th February 2007. Shri Jagdish Kishwan, Director General (DG), ICFRE, chaired the meeting . List of participants of the VIII RPC Meeting is enclosed (**Annexure I**).

Dr G.S. Rawat, DDG (R), welcomed all the RPC members and other delegates. While welcoming, DDG (R) gave brief account on how the RAGs of all 8 Research Institutes were conducted well in time as per calendar of schedule. He also apprised the house about the mandate of RPC.

In the inaugural address, Shri Jagdish Kishwan , DG ICFRE requested all the members to make their valuable inputs for improving the research proposals, so that the research outputs of the ICFRE may be more useful for the stakeholders and communities. He further stressed the need for intensive extension of the research results to fields and other user groups. He directed **all the directors of the institutes that all the new research proposals placed before the RPC should** invariably include the extension component. In addition, he stressed that **the expected outcome should have the component of patenting of the technology/process and knowledge. Capacity building can also be a part of the extension activity wherever possible.**

Ongoing projects will also have the above two components, and the progress should be assessed with respect to original timeframes, and if there is any change, it may again be incorporated with definite timeframe. All the members agreed with the remarks of the DG unanimously.

Dr. S.K. Khanduri, Director, Planning Commission enquired about the methodology of giving Average Index Scores for the projects, Shri Vipin Chaudhary, ADG (RP), explained about the weighted criteria and how the total index score is calculated for arranging the projects in order of priority.

Dr. Anil Joshi of HESCO apprised the house that 65% of the research being done in the country has no end uses. He also desired that inventory of invasive species and unutilized plants together with their uses may be prepared. He also gave the example of 'Bhimal' fibre which was comparable in strength and utility with coir. Dr. Joshi also emphasized that local knowledge may also be used while implementing the projects by integrating communities in the research process.

Dr. R.P. Dobhal, Uttarakhand Council of Science and Technology apprised the house that patent may be applied soon after the studies are over, and clinical trials can be conducted afterwards, for saving the time. He further stated that his services were always available for ICFRE to guide its scientists in obtaining the patents. Dr. Dobhal further clarified that it was a wrong notion that after registering the patents, their maintenance was very costly. In response, DG, ICFRE advised that a workshop may be organized on patenting by Dr. S.S. Negi, Director, FRI in consultation with Dr. Dobhal to sensitise the scientists about process of filing of patents.

The DG, ICFRE emphasized that clones to be released for use by farmers/end users should have names which are easy to understand, remember and adopt. He advised the Director, FRI to form a committee for assigning names to such clones which will consist of Dr. SAS Biswas, Dr. H.S. Ginwal, Dr. Subhash Nautiyal and representative of JFM Committee. Pathological vulnerability of the clones may also be kept in mind before releasing the clones.

During the discussions DG, ICFRE desired that one ICFRE Institute has to take the lead role for All India Coordinated Project on identified species and other institutes will cooperate. The species-wise lead role assigned to different institutes is as under:

Species	Lead role
Casuarina	IFGTB, Coimbatore
Eucalyptus	IFGTB, Coimbatore
Poplar	FRI, Dehradun
Invasive species	FRI, Dehradun
Lesser known tree species	FRI, Dehradun
Sissoo	FRI, Dehradun
Sal	FRI, Dehradun
Bamboo	RFRI, Jorhat
Jatropha	AFRI, Jodhpur
Teak	TFRI, Jabalpur

Dr. G.S. Rawat, requested the Directors of the institutes to make brief presentation for the new research proposals as per the enclosed programme. There was fruitful discussion on each project at length. The project wise recommendations of RPC Committee are given in **Annexure-II**.

The meeting ended with vote of thanks by Dr. G.S. Rawat, DDG (R).

**PARTICIPANTS OF VIII RESEARCH POLICY
COMMITTEE (RPC) MEETING HELD AT ICFRE
H.Q. DEHRADUN
26th & 27th February 2007**

RPC MEMBERS		
1.	Shri Jagdish Kishwan	DG, ICFRE, Chairman
2.	Dr. Rajendra Dobhal	Director, Uttarakhand Council of Science & Technology
3.	Dr. G.S. Rawat	DDG (Research), ICFRE, Dehra Dun
4.	Shri M.S. Garbyal	DDG(Administration), ICFRE, Dehra Dun
5.	Shri A.K. Wahal	DDG (Education), ICFRE, Dehra Dun
6.	Dr. Shashi Kumar	Director (Research), ICFRE, Dehra Dun
7.	Dr. Rabindra Kumar	DDG (Extension), ICFRE, Dehra Dun
8.	Dr. J.K. Rawat	APCCF, Haryana
9.	Dr. K. S. Rao	Former Director, IWST, Bangalore
10.	Dr. T.C. Pokhriyal	Retd Scientist, Dehra Dun
11.	Dr. Veena Sekhri	CCF, Garhwal, Dehra Dun
12.	Shri Naresh Verma	Chairman, Joint Forest Management Committee, DDun
13.	Dr. Anil P. Joshi	Founder, HESCO, Dehra Dun
14.	Dr. S.S. Negi	Director, FRI, Dehra Dun
15.	Dr. M. Surya Prakash	Director, IFGTB, Coimbatore
16.	Shri K.S. Shashidhar	Director, IWST, Bangalore
17.	Shri Suresh Gairola	Group Coordinator (R), IWST, Bangalore
18.	Dr. Mohinder Pal	Scientist-G, RFRI, Jorhat
19.	Dr. Animesh Sinha	Scientist, IFP Ranchi
20.	Dr. R.L. Srivastava	Director, AFRI, Jodhpur
21.	Dr. Kulraj Singh Kapoor	Director, HFRI Shimla
22.	Dr. A.K Mandal	Director TFRI Jabalpur
23.	Shri A.K. Pandey	Allahabad Centre
24.	M. Lokeshwara Rao	Hyderabad Centre
25.	Shri Vipin Chaudhary	ADG (Planning & Programme), ICFRE, Dehra Dun
OTHERS		
26.	Dr. S.P. Singh	Secy. ICFRE, Dehra Dun
27.	Sh. Sarvesh Singhal	ADG (Policy Research), ICFRE
28.	Sh. H.S. Sohal	ADG (EIA), ADG (Stat), ADG (M&P), ICFRE
29.	Sh. Sandeep Tripathi	ADG (BCCA), ICFRE

30.	Dr. Atul K. Srivastava	ADG (Admin.), ICFRE
31.	Shri Balbir Singh	ADG (M&E), ICFRE
32.	Dr. A.N. Shukla	Head, Pathology Division, FRI, Dehra dun
33.	Dr. Sas Biswas	Head, Botany Division, FRI, Dehradun
34.	Sh. Shailendra Kaushik	Chief Librarian, NFLIC, FRI
35.	Dr. R. Dayal	Head, Chemistry Division, FRI
36.	Dr. S.B. Singh	Head, FS& LR Division, FRI
37.	Dr. M. Ahmad	Head, Forest Entomology Division, FRI
38.	Dr. Vimal Kothiyal	Head, Forest Products Division, FRI
39.	Dr. H.S. Ginwal	Head, G&TP Division, FRI
40.	Sh. D. Khanna	Head, Extension Division, FRI
41.	Dr. Lokho Puni	Head, NWFP Division, FRI
42.	Dr. Rajeev K. Srivastava	Head, Silviculture Division, FRI
43.	Dr. Sanjay Naithani	Head, C&P Division, FRI
44.	Dr. Sadhna Tripathi	Scientist, ICFRE
45.	Dr. B.M. Dimri	Scientist, ICFRE
46.	Dr. S.S. Jain	Scientist, ICFRE (Rapporteur)
47.	Dr. Om Kumar	Scientist, ICFRE (Rapporteur)
48.	Dr. Sushma Mahajan	Scientist (RP Division), ICFRE

Institute of Forest Genetics and Tree Breeding, Coimbatore

Sl. No.	Project Title/Name of the PI/Duration/Cost	Comments of RPC
1	Trials of Solid/Thick walled bamboos in Andaman PI: Shri Anil Kumar Duration: 5 Years Budget: Rs. 4.42 Lakhs	Approved for submission to DST: NMBA/TIFAC for funding. Include local bamboo species (including structural properties) and collaborate with IWST. Project implementation should be done keeping under consideration the Shekhar Singh Report.
2	Germplasm evaluation of <i>Bambusa balcooa</i> and <i>B. tulda</i> for enhancing productivity PI: Shri V. K. W. Bachpai Duration: 5 Years Budget: Rs. 11.90 Lakhs	Approved with the remarks that the PI to reorient the proposal; highlight utility and applied aspects, such as handicraft value. Also, include extension component and employment generation for the benefit of local people and submit by 15. 03. 2007. Explore the possibility of funding by NMBA. If NMBA does not agree for funding, in that case RPC authorized the Chairman to take a decision for funding with ICFRE funds.
3	Enhancement of bamboo resources for increased productivity PI: M. Maria Dominic Savio Duration: 3Years Budget: Rs. 2.75 Lakhs	Approved for external funding by NMBA.

4	<p>Evaluation and characterization of clones of <i>Casuarina</i> with reference to yield, tree form and pulping characteristics</p> <p>PI: Kannan C S Warriier Duration: 5 Years Budget: Rs. Rs 8.37 Lakhs</p>	<p>Approved with the remarks that cost be revised to Rs. 8.37 Lakhs (due to increase in chemicals' cost)', revised proposal should include end uses for pulp and furniture purposes as well as extension and IPR components in the same cost. Title to be modified by adding 'Biomass' after pulping. Proposals on All India Coordinated Projects for <i>Casuarina</i> and <i>Eucalyptus</i> should be presented in the next RPC by IFGTB as nodal Institute. This project may be integrated with project at Sl. No. 10.</p>
5	<p>Establishment of broad-based breeding populations in teak to improve wood production and quality</p> <p>PI: Shri B. Gurudev Singh Duration: 5 Years Budget: Rs. 9.40 Lakhs</p>	<p>May be included in the All India Coordinated Project on Teak to be prepared by TFRI. Project at Sl. No. 5, 14, 16 and 20 to be clubbed as one project and revised proposal with total cost not exceeding 60 % of the total estimated cost (of all these projects) to be resubmitted by 15.03. 2007. The RPC authorized the Chairman to approve the revised project.</p>
6	<p>Demonstration of Agroforestry Technologies for enhancing the livelihood opportunities in different agroclimatic zones of Tamilnadu</p> <p>PI: Shri S. Sarvanan Duration: 6 Years Budget: 16.57 Lakhs//Rs 10. 35 Lakhs</p>	<p>Approved subject to mid term review. PI is required to improve upon the existing agroforestry models for extension, reduce the budget to Rs. 8.00 Lakhs and submit the revised proposal by 15. 03. 2007. The RPC authorized the Chairman to approve the revised project. Coordinate with Jhansi Institute and TNAU. Reduce trials by half to have budget of Rs. 8.00 lakhs only.</p>

		First study the agroforestry models being adopted by farmers. The duration of project will be 3 years.
7	<p>Evaluation of productivity and wood traits in orchard derived plantations of <i>Eucalyptus camaldulensis</i> and <i>E. tereticornis</i> in diverse regions of South India</p> <p>PI: Dr. R. S. Sekar Duration: 5 Years Budget: Rs. 6.50 Lakhs</p>	<p>Approved. Proposal to be revised by including the end uses such as pulp, furniture, veneer, etc. Include IWST as collaborating partner. Club it with Project No. 18. Total budget will be Rs. 7.5 lakhs and duration will be 3 years.</p>
8	<p>Selection of insect pest resistant clones of teak and <i>Casuarina</i>.</p> <p>PI: John Prasanth Jacob Duration: 5 Years Budget: Rs. 22.95 Lakhs</p>	<p>Approved. Projects at Sl. No. 8, 15 and 22 to be clubbed as an integrated project, with total budget approval of 60 % of the original amount proposed. Revised proposal to be submitted by 15. 03. 2007. The RPC authorized the Chairman to approve the revised project.</p>
9	<p>Selection and conservation of red and sweet Tamarind in South India</p> <p>PI: Shri A. Mayavel Duration: 3 Years Budget: Rs. 5.20 Lakhs/ Rs 6.70 Lakhs</p>	<p>Approved, needs to be linked with local communities through extension component.</p>
10	<p>Screening of germplasm collection of <i>Casuarina equisetifolia</i> for key nursery insect pests</p> <p>PI: Dr. A. Balu Duration: 4 Years Budget: Rs. Rs 6.95 Lakhs</p>	<p>Approved with the comments that this project be integrated with project at Sl. No. 4. May also be considered while formulating the All India Coordinated Project on <i>Casuarina</i>.</p>

11	<p>Screening of <i>Casuarina equisetifolia</i> Forst. clones for identification of resistance to <i>Subramanospora vesiculosa</i> Sharma & Minter</p> <p>PI: Shri A. Karthikeyan Duration: 4 Years Budget: Rs. 5.80 Lakhs</p>	No presentation. Withdrawn
12	<p>Studies on the efficacy of secondary plant derivatives of <i>Aegle marmelos</i> 'bael' on important insect pests of teak</p> <p>PI: Dr. S. Murugesan Duration: 2 Years Budget: Rs. 2. 00 Lakhs</p>	<p>Approved with comments that <i>Achras zapota</i> be added along with 'bael', compare the toxicity with traditional contact insecticides and neem derivatives, also find out how long it would be effective and the residual toxicity. Project should lead to developing the patent.</p>
13	<p>Selection of suitable ectomycorrhizal fungi for increased productivity of commercially important tree species in the nursery</p> <p>PI: Dr. V. Mohan Duration: 3 Years Budget: Rs. 4.20 Lakhs</p>	<p>Approved. PI to prepare an inventory of such fungi and title has to be made more specific. To be resubmitted by 15.03.2007 The RPC authorized the Chairman to approve the revised project.</p>
14	<p>Enhancing flowering, fruiting and seed quality in Seed Production Areas and Clonal Seed Orchards of teak.</p> <p>PI: Dr. A. Nicodemus Duration: 5 Years Budget: Rs. 7.51 Lakhs</p>	<p>Approved. Project at Sl. No. 5, 14, 16 and 20 to be clubbed, and revised proposal with total cost not exceeding 60 % of the estimated cost (of all these projects) to be resubmitted by 15.03. 2007. The RPC authorized the Chairman to approve the revised project.</p>

15	<p>Etiology and histopathological studies of blister bark disease in <i>Casuarina equisetifolia</i> Frost</p> <p>PI: Shri A. Karthikeyan Duration: 5 Years Budget: Rs. 6.90 Lakhs</p>	<p>Approved. Projects at Sl. No. 8, 15 and 22 to be clubbed as an integrated project, with total budget approval of 60 % of the original amount proposed. Revised proposal to be submitted by 15. 03. 2007. The RPC authorized the Chairman to approve the revised project.</p>
16	<p>Establishment of clone bank and clonal trial of teak and evaluation</p> <p>PI: Dr. K. Palainsamy Duration: 5 Years Budget: Rs. 6.90 Lakhs</p>	<p>Approved. Project at Sl. No. 5, 14, 16 and 20, and revised proposal with total cost not exceeding 60 % of the estimated cost (of all these projects) to be resubmitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
17	<p>Evaluation of treatments for managing Seed Orchards of Eucalypts for enhanced seed yield and easy harvesting</p> <p>PI: Shri N. P. Mahadevan Duration: 3 Years Budget: Rs. 5.00 Lakhs</p>	<p>Approved with the remarks that PI will come out with an applied research technology package for patenting.</p>
18	<p>Screening of <i>Eucalyptus</i> breeding populations (Clones, Families, Provenances) for disease tolerance in South India</p> <p>PI: Dr. V. Mohan Duration: 3 Years Budget: Rs. 4.75 Lakhs</p>	<p>Approved. Projects at Sl. No. 7 and 18 have to be merged; the total budget will be Rs 7.50 Lakhs.</p> <p>Issue of resistance of clones also to be studied.</p>
19	<p>Development of SSR markers and assessment of population structure in <i>Casuarina equisetifolia</i>.</p> <p>PI: Dr. Thangamani Duration: 3 Years Budget: Rs. 10.25 Lakhs</p>	<p>Approved. To be clubbed with project No. 23. Total budget to be 60% of the total cost of two projects, to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>

20	<p>Production of interspecific hybrids in teak through control pollination</p> <p>PI: Dr. B. Nagarajan Duration: 5 Years Budget: Rs. 4.50 Lakhs</p>	<p>Approved. This project is to be combined with Sl. No. 5, 14, 16 and 20, and revised proposal with total cost not exceeding 60 % of the estimated cost (of all these projects) to be resubmitted by 15.03. 2007. The RPC authorized the Chairman to approve the revised project.</p>
21	<p>Association analysis of adventitious rooting traits using STS markers in <i>Eucalyptus tereticornis</i></p> <p>PI: Dr. R. Yasodha Duration: 3 Years Budget: Rs. 8.90 Lakhs</p>	<p>Approved. To be clubbed with Fresh Proposal on Sl. No. N-24. Must lead to patents.</p>
22	<p>Effect of Panchgavya and Dashagavya on insect pests incidence in <i>Casuarina</i>, <i>Eucalyptus</i> and Teak.</p> <p>PI: Dr. K. Panneerselvam Duration: 3 Years Budget: Rs. 5.95 Lakhs</p>	<p>Approved. Projects at Sl. No. 8, 15 and 22 to be clubbed as an integrated project, with total budget approval of 60 % of the original amount proposed. Revised proposal to be submitted by 15. 03. 2007. The RPC authorized the Chairman to approve the revised project.</p>
23	<p>Molecular characterization of selected clones and inter- and intraspecific hybrids of <i>Casuarina equisetifolia</i> and <i>C junghuhniana</i></p> <p>PI: Shri John Prashant Jacob Duration: 2 Years Budget: Rs. 2.45 Lakhs</p>	<p>Approved. To be clubbed with Project No. 19. To be resubmitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
24	<p>Molecular characteristics of <i>Eucalyptus</i> clones developed by IFGTB, Coimbatore</p> <p>PI: Dr D Thangamani Duration: 2 Years Budget: 2. 50 Lakhs</p>	<p>Approved. To be clubbed with Proposal at Sl. No. 21. Thirty clones to be released after 2 years and remaining 80 clones later on. Must lead to patents.</p>

25	Evaluation of teak CSO at Walayar using DNA profiling PI: Dr D Thangamani Duration: 2 years Budget: Rs 2.50 Lakhs	Approved
26	Estimation of genetic gain from Clonal Seed Orchard seeds of teak. PI: Shri M Hegde Duration: 5 Years Budget: Rs 6.50 Lakhs	Not approved

Merged into one

Sl. No. 5,14,20

Sl. No. 7,18

Sl. No. 8,15,22

Sl. No. 4,10

Sl. No. 21,24

Sl. No. 19,23

Total 15 projects merged into six projects

Rain Forest Research Institute, Jorhat

Sl. No.	Project Title/Name of the PI/Duration/Cost	Division	Comments of RPC
1	Documentation of Baseline Information on Shifting Cultivation Practices in Assam PI: Dr. Vishavjit Kumar, Scientist-B Period: 2 Years Budget: Rs. 2.65 Lakhs	Shifting Cultivation	Approved with recommendations that 'Assam' in the title be replaced by ' Northeast India ' to cover the whole NE Region and this project should be executed after clubbing with Project No. 15. The budget of the combined project should be Rs. 5.65 Lakhs and duration 3 years.
2	Development of an efficient technique for <i>in vitro</i> clonal propagation of superior clones of <i>Bambusa tulda</i> PI: Satyam Bordoloi, RO Period: 3 Years Budget: Rs. 20.60 Lakhs	Biotechnology & Genetics	Approved for Rs. 4.15 Lakhs only
3	Establishment of GIS laboratory for systematic creation, management and up-gradation of GIS based forestry-database of North-east India P I: Dhruba Jyoti Das, Scientist 'B' Duration: 3 Years Budget: Rs. 53.58 Lakhs	Ecology & Biodiversity	Approved , for Rs. 8.48 Lakhs. Justification to be sent regarding 2 JRFs.
4	Macro- and micro propagation of selected germplasm (clones) of <i>Dipterocarpus retusus</i> Bl. Syn. <i>D. macrocarpus</i> PI: Dr. Papor Sharma, RO Duration: 3 Years Cost: Rs. 4.25 Lakhs	Biotechnology & Genetics	Approved. Extension and IPR components to be included.

5	<p><i>In vitro</i> induction of essential oil components of <i>Aquilaria malaccensis</i> Lamk</p> <p>PI: Satyam Bordoloi, RO Duration: Three Years Budget: Rs. Rs. 4.10 Lakhs</p>	Biotechnology & Genetics	<p>Approved with the remarks that all projects of the Institute on <i>Aquilaria malaccensis</i> viz., Sl. No. 5, 6, 11 and 12 be taken up as sub projects of a composite project to be completed in 3 years with total budget outlay of Rs. 16.00 Lakhs. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
6	<p>Clonal multiplication of <i>Aquilaria agallocha</i> Roxb. through in vitro culture including hardening and out planting</p> <p>PI: Dr. Papori Sharma, RO Duration: 3 Years Budget: Rs. 4.70 Lakhs</p>	Biotechnology & Genetics	Refer to comments against Project No. 5 above.
7	<p>Documentation and Inventorisation of Phytodiversity in Wetland Areas of Jhanjimukh and its Conservation Through Indigenous Knowledge</p> <p>PI: Dr. D. Dutta, RO Duration: 3 Years Budget: Rs. 3.80 Lakhs</p>	Ecology & Biodiversity	<p>Approved to be submitted to MoEF for funding.</p>
8	<p>Assessment of Rattan diversity and Conservation strategy with reference to Assam</p> <p>P I: H. R. Bora, Research Officer Duration: 3 Years Budget: Rs. 4.15 Lakhs</p>	Ecology & Biodiversity	<p>Approved</p>

9	Evaluation of Multilocational Progeny Trials of <i>Tectona grandis</i> L. in Northeast India PI: Anup Kumar Sarkar, R O Duration: 3 Years Budget: Rs. 5.40 Lakhs	Biotechnology & Genetics	Not approved. May be considered while formulating an All India Coordinated Project on Teak.
10	Genetic improvement of <i>Acacia mangium</i> for growth characteristics and timber quality PI: Dr. Ajay Thakur, Scientist C Duration: 3 Years Budget: Rs. 3.45 Lakhs	Biotechnology & Genetics	Approved with the remarks that PI should add ' pulp ' after timber in the title and study chemical composition of wood for pulp quality. Extension and IPR components to be included.
11	Evaluation of insecticidal properties of some plant extracts against <i>Heortia vitessoides</i> Moore (Lep: pyralidae), a major pest of <i>Aquilaria malaccensis</i> Lamk PI: Dr. Nizara D. Borthakur, RO Duration: 3 Years Budget: Rs. 8.65 Lakhs	Forest Protection	Refer to comments against Project No. 5 above.
12	Survey and selection of desirable genotypes of <i>Aquilaria agallocha</i> Roxb. and establishment of their field gene bank PI: Anup Kumar Sarkar Research Officer Duration: 3 Years Budget: Rs. 4.50 Lakhs	Biotechnology & Genetics	Refer to comments against Project No. 5 above.
13	Standardization of harvesting and post-harvesting methods for optimum yield of therapeutic ingredient of <i>Phyllanthus niruri</i> Hook P I: B. K. Pandey, Scientist-C Duration: 3 Years Budget: Rs. 4.80 Lakhs	Bioprospecting & Indigenous Knowledge	Approved. Extension and patenting are to be ensured.

14	Screening of <i>Bambusa tulda</i> clones for their natural resistance to biodegradation PI: Shri Rajesh Kumar Duration: 3 Years Budget: Rs. 3.10 Lakhs	Forest Protection	Not approved
15	Restoration of stress site under Jhum in Assam by intercropping <i>Rhizobium</i> inoculated legume trees with agricultural crops PI: Dr. I. P. Bora, RO. Duration: 3 Years Budget: Rs. 4.35 Lakhs	Shifting Cultivation	Approved but to be merged with Project No. 1 as given earlier against Sl. No. 1
16	Study of Reproductive Biology and Seed Production in Clonal Seed Orchard of <i>Gmelina arborea</i> PI: Anup Kumar Sarkar, Research Officer Duration: 3 Years Budget: Rs. 4.55 Lakhs	Biotechnology & Genetics	Approved

Merged into one

Sl. No. 1,15

Sl. No. 5,6,11,12

Total 06 projects merged into two projects

Tropical Forest Research Institute, Jabalpur

Sl. No.	Project Title/Name of the PI/Duration/Cost	Division	Comments of RPC
1	<p>Integrated management of insect pests and diseases of <i>Buchanania lanzan</i>.</p> <p>PI: Dr. P B Meshram Period: 3 Years Budget: Rs. 3.00 Lakhs</p>	Entomology	<p>Approved with the comments that study is to be confined to the chemical control of nursery diseases and insect pests, and assessment of seed mycoflora. Title to be modified accordingly.</p>
2	<p>Detection of the markers of stunted growth in the roots of tree species in industrially polluted areas</p> <p>PI: Dr. Rupnarayan Sett Duration: 3 Years Budget: Rs. 3.95 Lakhs</p>	Ecology	<p>Approved. First the PI should establish the presumption of impact of pollutants resulting into the stunted growth of tree roots in the areas under study and then identify the markers through pot experiments. Controlled and polluted situations are to be studied and connection of growth and pollutants to be established. Study to be completed in 2 years; approved budget is Rs. 2.50 Lakhs. Revised proposal be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>

3	<p>Screening of forest tree species for their potential as carbon sink in Madhya Pradesh</p> <p>PI: Shri Avinash Jain Duration: 3 Years Budget: Rs. 4.50 Lakhs</p>	Ecology	<p>Approved with the remarks that PI should confine his studies to 2 – 3 species only. Study the tree standards in Agroforestry, study the effect of periodical removal and take village as unit, and submit the revised and reformulated project by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
4	<p>Genetic improvement of <i>Buchanania lanzan</i> Spreng</p> <p>PI: Shri N D Khobragade Duration: 4 Years Budget: Rs. 4.35 Lakhs</p>	CFRHRD, Chhindwara	<p>Approved. The study should produce good results for extension and patenting purposes.</p>
5	<p>Genetic variation for <i>in-vitro</i> morphogenetic potential of <i>Dalbergia sissoo</i> Roxb. Clones and evaluation of their field performance</p> <p>PI: Shri Yogeshwar Mishra Period: 3 Years Budget: Rs. 6.90 Lakhs</p>	Genetics	<p>Approved, best clones have to be patented and made available in the market 5th year onwards. Accordingly, the project period will be 5 years.</p>
6	<p>Application of growth promoting microbes and soil amendments to produce improved seedlings of forest trees</p> <p>PI: Dr. R. K. Verma Duration: 3 Years Budget: Rs. 2.22 lakhs</p>	Pathology	<p>Approved. A strong extension component has to be provided. Involve IWST for carrying out studies on <i>Santalum album</i>. Specify tree species in the title of the Project.</p>

7	<p>Standardization of cultivation protocols for <i>Asparagus racemosus</i> (Satawar)</p> <p>PI: Shri Sunesh Buxy Duration: 5 Years Budget: Rs. 6.90 Lakhs</p>	CFRHRD, Chhindwara	<p>Approved with the comments that PI has to explore the avenues of marketing for the benefit of stakeholders and ensure a strong extension/IPR oriented result. Study is to be completed in 4 years. FRI may be consulted for sharing information / knowledge.</p>
8	<p>Screening of <i>Jatropha curcas</i> germplasm for tolerance to salt stress under <i>in-vitro</i> conditions.</p> <p>PI: Dr. Fatima Shirin Duration: 3 Years Budget: Rs. 2.25 Lakhs</p>	Genetics	<p>Not Approved. May be taken up while formulating an All India Coordinated Project on <i>Jatropha curcas</i>.</p>

Merged - Nil

Himalayan Forest Research Institute, Shimla

Sl. No.	Project Title/Name of the PI/Duration/Cost	Division	Comments of RPC
1	Productivity enhancement using superior clones of <i>Dalbergia sissoo</i> PI: Dr. Rajesh Sharma Period: 3 Years Budget: Rs. 4.55 Lakhs	Silviculture and Tree Improvement	Approved for 5 years with budget cost of Rs. 10.57 Lakhs Extension and IPR components to be included.
2	Determination of Morphological and Physiological Quality Parameters of Nursery Stock of Deodar (<i>Cedrus deodara</i>) and Ban Oak (<i>Quercus leucotrichophora</i>) PI: Dr. Sandeep Sharma Duration: 5 Years Budget: Rs. 23.55 Lakhs	Silviculture and Tree Improvement	Approved with remarks to define parameters at nursery level. End-use properties to be determined. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.
3	Introduction of Performance Trial of <i>Gmelina arborea</i> for Agroforestry in Lower Hills of Himachal Pradesh PI: Dr. V. P. Panwar Duration: 5 Years Budget: Rs. 8.45 Lakhs	Agroforestry and Extension	Approved with the remarks that PI has to include J & K for demonstration plantations and 2 sites in each state to be selected. Under First Objective replace 'Systematic Introduction' by "Demonstration Plantation".

Merged - Nil

Arid Forest Research Institute, Jodhpur

Sl. No.	Project Title/Name of the PI/Duration/Cost	Division	Comments of RPC
1	<p>Field efficacy of recommended control measures for the management of Khejri mortality in N-W Districts of Rajasthan</p> <p>PI: Dr S I Ahmed Duration: 3 Years Budget: Rs 6.10 Lakhs</p>	Forest Protection	<p>Approved with suggestions that PI should also include viruses and PPLOs in this context. Subject experts from universities may be consulted.</p>
2	<p>Survey, selection, performance trial and estimation of yield potential of <i>Jatropha curcas</i> in Rajasthan and Gujarat</p> <p>PI: Dr V P Tewari Duration: 5 Years Budget: Rs 4.80 Lakhs</p>	Silviculture	<p>Approved with the remarks that survey and selection will be a part of the All India Coordinated Project. The scope of the study may be expanded, Uttarakhand Model also to be studied. Wastelands may be used for plantation with control, trials may also be conducted on JFM land, involve local people, industries, universities, research organizations, etc. and develop suitable agroforestry models for application within (JFM) and outside forests. Revised proposal to be submitted by 15. 03. 2007. The RPC authorized the Chairman to approve the revised project.</p>

3	<p>Studies on seed traits of seeds collected from seed stands/SPAs/SSOs/CSOs of important species of Gujarat state</p> <p>PI: Dr D K Mishra Duration: 5 Years Budget: Rs 1.95 lakhs</p>	Silviculture	Approved.
4	<p>Evaluation of quality germplasm, reproductive biology, genomic diversity and establishment of CSO/SSO of <i>Jatropha curcas</i></p> <p>PI: Dr D M Mishra Duration: 5 Years Budget: Rs 55.46 Lakhs</p>	Silviculture	Approved for external funding by DBT.
5	<p>Development of web portal for forestry research extension</p> <p>PI: Shri A K Sinha Duration: 4 Years Budget: Rs 4.06 Lakhs</p>	IT Cell	This is an administrative activity. Approved with the comments that it should also include extension services on medicinal plants regarding their cultivation, management, marketing, etc. Needs regular updating.
6	<p><i>In-vitro</i> mass propagation of <i>Jatropha curcas</i> L. and organization of low cost options for economizing the technology</p> <p>PI: Dr Tarun Kant Duration: 3 Years Budget: Rs 2.00 Lakhs</p>	Forest Genetics and Tree Breeding	Approved

7	<p>Mycorrhizal dependency and productivity of economically important medicinal plants of arid zone</p> <p>PI: Dr K K Srivastava Duration: 3 Years Budget: Rs 2.00 Lakhs</p>	Forest Protection	<p>Approved with the recommendations that PI has to identify, both ecto- and endomycorrhizal fungi, explore adequate extension and marketing linkages with stakeholders. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
8	<p>Characterization and classification of forest soils of Rajasthan</p> <p>PI: N Bala Duration: 5 Years Budget: Rs 6.98 Lakhs</p>	Forest Ecology	<p>Approved with recommendations that vegetation of respective soil types be included; follow the accepted methodology so that the results are acceptable to wide range of stakeholders, proceed district-wise, include an ecologist as Co PI and FSI may also be included as collaborator. A national level coordinated project on the same may be taken up in which FRI will take the lead role. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>

Merged - Nil

Institute of Forest Productivity, Ranchi

Sl. No.	Project Title/Name of the PI/Duration/Cost	Division	Comments of RPC
1	<p>Introduction of flowering in common bamboos of Eastern India</p> <p>PI: Dr S Nath Duration: 4 Years Budget: Rs 15.25 Lakhs</p>	Soil and Land Reclamation	<p>Approved with the remarks that the title has to be changed to, “Improvement of propagation techniques for enhancement of survival in field conditions for selected bamboo species”.</p> <p>In the objectives, studies on field mortality and hardening regime to be included.</p> <p>Revised project to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
2	<p>Study on floral biology, fruiting phenology and germination behaviour in <i>Schleichera oleosa</i></p> <p>PI: Dr Animesh Sinha Duration: 2.5 Years Budget: 4.98 Lakhs</p>	Biotechnology, Genetics and Tree Improvement	<p>Approved. Results should be extension and IPR oriented.</p>
3	<p>Studies on the insect pests of seeds, nurseries, plantations and/or natural forests and their management in Bihar and Jharkhand states</p> <p>PI: Dr S Sambath Duration: 5 Years Budget: Rs 10.40 Lakhs</p>	Silviculture and Forest Management	<p>Approved with modifications.</p> <p>Focus on the 1st Objective only, confine study to the key pests of forest tree seeds only, modify the title accordingly and develop a collection of insects (Insectary). Approved with duration of 4 years.</p>

4	<p>Assessment of genetic diversity and development of species-specific molecular markers in bamboos from Eastern India</p> <p>PI: Shri B K Singh Duration: 3 Years Budget: Rs 13.50 Lakhs</p>	Biotechnology, Genetics and Tree Improvement	<p>Approved with the recommendations that study to be confined to <i>Bambusa nutans</i>, <i>B. tulda</i>, <i>B. balcooa</i>, <i>B. bambos</i> and <i>Dendrocalamus strictus</i> only and co-dominant markers be used. Duration of the Project will be two years.</p>
5	<p>Genetic evaluation of <i>Jatropha curcas</i> L. and afforestation of wastelands in Jharkhand</p> <p>PI: Dr N B Diwakara Duration: 3 Years Budget: Rs 16.99 Lakhs</p>	Biotechnology, Genetics and Tree Improvement	<p>Approved with the remarks that agroforestry models should be developed for adopting on agricultural lands, wastelands, JFM lands and forest lands. Extension and marketability should be given top priority. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
6	<p>Rooting and acclimatization of <i>in-vitro</i> shoots of <i>schleichera oleosa</i></p> <p>PI: Dr Animesh Sinha Duration: 2.5 Years Budget: Rs 7.75 Lakhs</p>	Biotechnology, Genetics and Tree Improvement	<p>Approved</p>

Merged - Nil

Institute of Wood Science and Technology, Bangalore

Sl. No.	Project Title/Name of the PI/Duration/Cost	Division	Comments of RPC
1	<p>Studies on genetic fidelity of micropropagated plants of bamboo-<i>Bambusa bambos</i> and <i>Dendrocalamus stocksii</i></p> <p>PI: Dr T S Rathore Duration: 3 Years Budget: Rs 3.48 Lakhs</p>	Tree Improvement and Propagation	Approved
2	<p>Isolation and estimation of L-DOPA from <i>Mucuna pruriens</i> Linn. collected from South India</p> <p>PI: Shri Chandrasekhar B S Duration: 3 Years Budget: Rs 1.81 Lakhs</p>	Chemistry of Forest Products	Approved. Extension and IPR components have to be added.
3	<p>Genetic improvement of <i>Melia azedarach</i> and <i>M. dubia</i> through plus tree selection, assessment of genetic variation and progeny trial evaluation</p> <p>PI: Shri R nainamalai Duration: 3 Years Budget: Rs 1.93 Lakhs</p>	Tree Improvement and Propagation	Approved with the comments that 'Evaluation' under the title may be taken up as follow-up phase-II. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project. This project be taken as Phase-I and evaluation in the title be replaced by "establishment" . State of Andhra Pradesh to be included. The project period will be four years.

4	Seed predation by insects among the emergent rainforest canopies at Makutta, Western Ghats PI: Shri Y B Srinivasa Duration: 3 Years Budget: Rs. 2.95 Lakhs	Wood Biodegradation	Approved. Replace 'predation' in the title by "infestation".
5	Studies on influence of microwave treatment on drying characteristics and treatability of wood PI: Dr S S Chauhan Duration: 3 Years Budget: Rs 3.60 Lakhs	Wood Seasoning and Preservation	Approved with the recommendations that PI has to identify suitable microwave frequencies, time, temperature etc. and add extension and IPR components under the objectives.
6	Ethnobotanical studies of Northern Eastern Ghats in Andhra Pradesh PI: Dr N Rama Rao Duration: 4 Years Budget: Rs 1.17 Lakhs	Wood Degradation (Marine)	Approved with the comments that PI has to record the names and location of the communities providing indigenous knowledge. 'Northern Eastern' in the title be corrected as " Northeastern ". Phase-II of this project to be taken up as studies on phytochemistry of medicinal plants.
7	Development of methods for detection of adulterants and evaluation of quality parameters for assessing purity of jigat PI: Shri S H Jain Duration: 3 Years Budget: Rs 1.99 Lakhs	Chemistry of Forest Products	Approved. The study to come out with strong extension and IPR results. Duration of project will be 1 year. Phase-II of the project should develop user-friendly test kit to be used by stakeholders.

8	Development of methods for detection of adulterants and determining the purity of sandal-wood oil PI: Shri V G Angadi Duration: 3 Years Budget: Rs 1.78	Chemistry of Forest Products	Approved. Duration will be 1 year.
9	Evaluation of wood quality of <i>Eucalyptus</i> clones and plantation grown <i>Grevillea robusta</i> A. Cunn. based on spiral grains PI: Shri Anil Kumar Sethy Duration: 3 Years Budget: Rs 0.55 Lakhs	Wood Properties and Uses	Approved. PI to include studies on longitudinal shrinkage and nailing properties of wood. Study to be concluded in 2 years.
10	Studies on natural resistance of imported woods in Indian environment PI: Dr R Sunararaj Duration: 4 Years Budget: Rs 1.84 Lakhs	Wood Biodegradation	Approved. PI to modify the title by adding “ against insects and decay fungi ” after woods. Expand the scope of the study, e.g., include climatic factors, soil, marine environment, etc., Yard Tests should be done for all sets of climatic conditions of country. Samples of termites/insects and fungi have to be identified. Include Dr Harsh, FRI as Co PI. The budget required may also be revised. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.
11	Fuel properties of important forest weeds PI: Shri Ritesh Ram Duration: 2 Years Budget: Rs 1.25 Lakhs	Wood Energy	Approved. Confine to <i>Lantana camara</i> and <i>Eupatorium</i> spp.

12	Utilization of soda spent black liquor lignin for value-added products. PI: Dr S P Singh Duration: 3 Years Budget: Rs 1.98 Lakhs	Wood Seasoning and Preservation	Approved
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Merged - Nil

Forest Research Institute, Dehra Dun

Sl. No.	Project Title/Name of the PI/Duration/Cost	Division	Comments of RPC
1	Extent and evaluation of die back of shisham (<i>Dalbergia sissoo</i>) and identification of disease resistant sources PI: Dr A N Shukla Duration: 3 Years Budget: Rs 52.50 Lakhs	Pathology	Approved. PI to emphasize on i. Finding the causal factors. ii. Extent/status of mortality and iii. Curative measures.
2	Impact of ban on green felling of deodar, fir and spruce forests in Uttarakhand. PI: Dr Ajay Kumar Lal Duration: 3 Years Budget: Rs 8.00 Lakhs	RS&M	Approved with the remarks that PI should follow the internationally recognized methodology, and convert the results into financial terms. Collaborate with HFRI as they have done some work on Deodar, productivity loss and soil fertility effects also to be studied.
3	Chemical markers of Eucalypt hybrids for wood durability and foliar defense: Characterization, heritability and genetic correlation PI: Dr V K Varshney Duration: 3 Years Budget: Rs 32.95 Lakhs	Chemistry	Approved
4	Molecular analysis of high yielding genotypes of <i>Pinus roxburghii</i> PI: Dr Santan Barthwal Duration: 3 Years Budget: Rs 10.85 Lakhs	G&TP	Approved

5	Impact of major forest invasive plants on the biodiversity of Chakrata Forest Division PI: Shri S R Joshi Duration: 2 Years Budget: Rs 1.70 Lakhs	Silviculture	Approved. FRI to prepare an All India Coordinated Project on Forest Invasive Species and include all institutes as collaborating partners.
6	Development of Air Pollution Biomonitoring Station for air quality assessment in Dehra Dun PI: Dr A K Tripathi Duration: 3 Years Budget: Rs 6.76 Lakhs	Ecology	Approved. PI will prepare a follow up project on the upscaling of work done during the 3 years of this study.
7	Molecular variability in <i>Cylindrocladium quinqueseptatum</i> causing leaf- and seedling blight in <i>Eucalyptus</i> PI: Shri Amit Pandey Duration: 3 Years Budget: Rs 10.32 Lakhs	Pathology	Approved. PI will develop control measures simultaneously.
8	Bioecology and control of oak stem borer, <i>Aphrodisium hardwickianum</i> (White) PI: Dr A P Singh Duration: 3 Years Budget: Rs 1.80 Lakhs	Entomology	Approved
9	Bioconversion of forest waste lignocellulosic biomass into ethanol PI: Dr Sanjai Naithani Duration: 3 Years Budget: Rs. 33.25 lakhs	C&P	Approved. Dr A N Shukla to be included in the project team. Share cost on 50-50 basis with UCOST. Testing issue to be taken up separately.

10	<p>Ecological impact of urbanization on floristic diversity in the natural and man made forests of Doon Valley</p> <p>PI: Shri Nirmal Ram Duration: 3 Years Budget: Rs 3.35 Lakhs</p>	Ecology	<p>Approved. PI should involve HESCO and Uttarakhand, FD as collaborators and publish the preliminary findings of this study after the completion of first year. Duration will be two years.</p>
11	<p>To study and develop ecofriendly control measures against insect pests in nurseries associated with medicinal plants and MPTs</p> <p>PI: Dr Shamila Kalia Duration: 4 Years Budget: Rs 4.80 Lakhs</p>	Entomology	<p>Approved. PI is advised to revise this proposal including budget in consultation with Dr Ahmad to avoid duplication and resubmit the proposal by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
12	<p>Soil organic carbon inventory of Uttarakhand</p> <p>PI: Dr M K Gupta Duration: 5 Years Budget: Rs 4.40 Lakhs</p>	FS&LR	<p>Approved with the remarks that PI to maintain forward and backward linkages, with Forest Soil Mapping Project of UCOST and complete it in 3 years.</p>
13	<p>Development of prediction models for resin production of <i>Pinus roxburghii</i></p> <p>PI: Dr S S Negi Duration: 2Years Budget: Rs 2. 00 Lakhs</p>	Statistics	<p>Approved</p>

14	<p>Screening and hybridizing Indian isolates of <i>Cordyceps sinensis</i> for chanced production of bioactive principles</p> <p>PI: Dr A N Shukla Duration: 3 Years Budget: Rs 5.10 Lakhs</p>	Pathology	<p>Approved with the remarks that PI should link this project with entomological study on <i>Cordyceps sinensis</i> and include Shri R S Bhandari as CoPI. Result should cover extension and IPR components. Studies to develop a user-friendly technological package for the culture of <i>Cordyceps sinensis</i> for stakeholders as will be taken up in Phase-II.</p>
15	<p>Mortality of Kikar (<i>Acacia nilotica</i>) in India and its management</p> <p>PI: Dr A N Shukla Duration: 3 Years Budget: Rs 8.70 Lakhs</p>	Pathology	<p>Approved. Confine the studies to North India only and modify the title accordingly.</p>
16	<p>Studies on the utilization of seed polysaccharide from <i>Strychnos potatorum</i></p> <p>PI: Dr Rameshwar Dayal Duration: 3 Years Budget: Rs 8.50 Lakhs</p>	Chemistry	<p>Approved. PI may contact Shri Dobhal, Uttarakhand Council of Science and Technology for filing patent.</p>
17	<p>Studies on <i>Sapindus mukorossi</i> fruits for their utilization</p> <p>PI: Dr Vineet Kumar Duration: 3 Years Budget: Rs 6.00 Lakhs</p>	Chemistry	<p>Approved</p>

18	<p>Development of agroforestry models for Eastern Uttar Pradesh</p> <p>PI: Shri A K Pandey Duration: 3 Years Budget: Rs 3.20 Lakhs</p>	CSFER	<p>Approved. PI should include bamboos also in this project, develop strong extension mechanism and link with users/stakeholders as well as market. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
19	<p>Assessment of suitable age of tall seedlings of forestry species for plantations in Uttar Pradesh</p> <p>PI: Shri A K Pandey Duration: 3 Years Budget: Rs 3.13 Lakhs</p>	CSFER	<p>Approved. Resubmit the proposal with revised budget by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
20	<p>Demand supply gap analysis of important tree species of Allahabad District for extension and afforestation purposes</p> <p>PI: Shri A K Pandey Duration: 3 Years Budget: Rs 1.60 Lakhs</p>	CSFER	<p>Approved. PI to take Gorakhpur as central hub and include surrounding districts, viz., Deoria, Basti and Maharaj Ganj for investigations, accordingly title has to be modified, revise the cost and submit the revised proposal by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>

21	<p>Assessing biodiversity through maintenance of preservation plots of Uttarakhand</p> <p>PI: Shri S R Joshi Duration: 2 Years Budget: Rs 1.75 Lakhs</p>	Silviculture	<p>Approved with the comments that FRI should also prepare an All India Coordinated Project on PPs with all ICFRE Institutes as collaborators. The three preservation plots proposed to be studied can form a pilot / model project. Sacred groves can also be included. Resubmit the revised project by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>
22	<p>Ecological Impact Assessment of invasion of <i>Lantana</i>, its removal and subsequent restoration of habitats in Rajaji National Park of tropical moist deciduous forest</p> <p>PI: Dr H B Vasistha Duration: 3 Years Budget: Rs 4.15 Lakhs</p>	Ecology	Approved
23	<p>Investigating the nature and level of dormancy in the seeds of Bhotia Badam (<i>Corylus colurna</i>)-an economically important species</p> <p>PI: Ms. Manisha Thapliyal Duration: 3 Years Budget: Rs 4.60 Lakhs</p>	Silviculture	Not approved
24	<p>Role of allelopathy on regeneration in Silver Fir (<i>Abies pindrow</i>) and Spruce (<i>Picea smithiana</i>) forests – Effect of natural leachates on seed germination</p> <p>Dr Omveer Singh Duration: 3 Years Budget: Rs 2.70 Lakhs</p>	Silviculture	Approved

25	Biology and control of bamboo borer, <i>Phloeobius crassicollis</i> damaging green standing bamboo PI: Shri R S Bhandari Duration: 3 Years Budget: Rs 2.70 Lakhs	Entomology	Approved
26	Isolation and characterization of phytoecdysteroides from <i>Achranthes aspera</i> and <i>Achranthes bidentata</i> and their effect on the economic traits of <i>Bombyx mori</i> L PI: Dr Rameshwar Dayal Duration: 3 Years Budget: Rs 9.77 Lakhs	Chemistry	Approved. Collaborate with Central Silk Board.
27	Impact of biotic factors on forest biodiversity with particular reference to specific threatened sites and species of Uttar Pradesh (UP), Uttarakhand and Delhi PI: Dr Sas Biswas Duration: 3 Years Budget: Rs 19.02 Lakhs.	Botany	Approved. Budget is Rs 15.00 Lakhs.
28	Drying studies on timber useful for handicraft PI: Shri A S Kamboo Duration: 2 Years Budget: Rs 1.10 Lakhs	Forest Products	Approved
29	Relative effect of geology, vegetation and climate on soil formation of Uttarakhand PI: Dr A K Raina Duration: 5 Years Budget: Rs 4.65 Lakhs	FSL&R	Approved
30	Studies on biodiversity of parasitic Chalcidoidea (Hymenoptera) of Uttarakhand PI: Dr Sudhir Singh Duration: 4 Years Budget: 4.05 Lakhs	Entomology	Approved

31	<p>Comparison of hydrological regime of a microwatershed having dense Oak Forest with a degraded microwatershed</p> <p>PI: Shri Rajeev Tiwari Duration: 5 Years Budget: Rs 23.70 Lakhs</p>	Registrar	<p>Approved.</p> <p>PI may also approach Uttarakhand Council of Science and Technology for part funding.</p>
32	<p>Studies on wooden pallets using jointed sections for industrial purposes from plantation timbers</p> <p>PI: Shri G R Reddy Duration: 2 Years Budget: 0.82 Lakhs</p>	Forest Products	<p>Approved, but the project has to be completed in one year.</p>
33	<p>Role of temple forests in rejuvenating microclimate of some villages of Uttarakhand</p> <p>PI: Dr Laxmi Rawat Duration: 3 Years Budget: Rs 7.71 Lakhs</p>	Ecology	<p>Approved, the study to be confined to Nagdev temple forest only. Approved budget is Rs 6.00 Lakhs.</p>
34	<p>Taxonomic studies on Lepidopteran parasitoids belonging to subfamily Microgastrinae (Hymenoptera: Braconidae) of Uttarakhand and Haryana</p> <p>PI: Dr Neena Chauhan Duration: 4 Years Budget: Rs 1.95 Lakhs</p>	Entomology	<p>Approved</p>
35	<p>Preparation of weight and volume tables for agroforestry tree species</p> <p>PI: Shri N R Benwal Duration: 2 Years Budget: Rs 2.85 Lakhs</p>	RS&M	<p>Approved. Poplar and <i>Ailanthus excelsa</i> to be included in the proposal along with <i>Melia azadirach</i>. Revised proposal to be submitted by 15.03.2007. The RPC authorized the Chairman to approve the revised project.</p>

36	Field evaluation of different clones of <i>Dalbergia sissoo</i> growing in the Clonal Seed Orchard at Lachhiwala, Dehra Dun for their growth and physiological parameters PI: Dr Meena Bakshi Duration: 3 Years Budget: Rs 1.97 Lakhs	Botany	Approved.
37	Studies on shrinkage and swelling behaviour of edge bonded solid wood boards PI: Shri K L Arora Duration: 2 Years Budget: Rs 1.09 Lakhs	Forest Products	Approved. PI to come out with remedial measures against shrinkage and swelling
38	Studies on seasonal distribution of weeds in forest nursery, and eco-friendly methods of their control PI: Shri Dinesh Kumar Duration: 2 Years Budget: Rs 1.90 Lakhs	Silviculture	Approved
39	Planting Stock Improvement: Inter- and intracolonial variations in relation to shoot production, rooting and subsequent growth in Vegetative Multiplication Garden of <i>Dalbergia sissoo</i> PI: Dr Meena Bakshi Duration: 3 Years Budget: Rs 1.98 Lakhs	Botany	Approved. FRI to prepare an All India Coordinated Project on Shisham.
40	Recommendation of sustainable land use model for degraded forest of Nainital, Uttarakhand PI: Dr S B Singh Duration: 3 Years Budget: Rs 3.50 Lakhs	FSL&R	Approved
41	Revision of 'Indian Woods-their identification, properties and uses. Volume II' PI: Dr Sangeeta Gupta Duration: 4 Years Budget: Rs 23.28 Lakhs	Botany	Approved

42	<p>Studies on the effect of design parameters and different adhesives on the performance of finger joints in commercial timbers</p> <p>PI: Dr Kishan Kumar Duration: 4 Years Budget: Rs 7.64 Lakhs</p>	Forest Products	Approved for 2 years with a budget of Rs 2.00 Lakhs.
43	<p>Quality assessment of timbers by using ultrasound and microwave techniques</p> <p>PI: Dr Y M Dubey Period: 4 Years Budget: Rs 6.15 Lakhs</p>	Forest Products	Approved. PI has to develop the prototype of portable probe. The duration of the project will be 3 years

Merged – Nil

Annexure - III

NUMBER OF PROJECTS: FINAL POSITION AT A GLANCE

Sl. No.	Name of the Institute	Placed before RPC	Not approved	Approved		
				For External Funding	With modification to be resubmitted	Approved without modification
1	Institute of Forest Genetics & Tree Breeding, Coimbatore	26	2	3	17	4
2	Rain Forest Research Institute, Jorhat	16	2	1	9	4
3	Tropical Forest Research Institute, Jabalpur	8	1	Nil	6	1
4	Himayalan Forest Research Institute, Shimla	3	Nil	Nil	3	Nil
5	Arid Forest Research Institute, Jodhpur	8	Nil	1	5	2
6	Institute of Forest Productivity, Ranchi	6	Nil	Nil	4	2
7	Institute of Wood Science & Technology, Bangalore	12	Nil	Nil	9	3
8	Forest Research Institute, Dehradun	43	1	2	19	21
	Total	122	6	7	72	37