

Research & Coordination Section

1. Maintenance of all records duly catalogued and indexed in a manner and the form which facilitates the right to information under this Act.	
<u>List of files with subject:</u>	Annexure-I
2. Function and duties of each employees working in your division	<p>1. Dr. P.S. Rawat, Scientist-F:</p> <ul style="list-style-type: none"> - Execution of projects and conduction of monthly research seminar of the Institute. - Scrutinizing research projects/ consultancy project of the Institute for submission to ICFRE and other external funding agency. - To conduct RAG meeting of the Institute. - To conduct Quarterly and Annual review of research projects of Institute and preparation of reports. - To conduct Interviews for engagement of manpower in research projects - To prepare status report of externally funded projects. - To scrutinize project completion report. - To provide information under RTI act 2005. - To provide information on Parliamentary questions. - To organize research related meeting of the Institute. - Direct to consumers and mobilization of revenue targets of the Institute. - Other duties pertaining to the research and administration. <p>2. Dr. Tara Chand, Scientist-D:</p> <ul style="list-style-type: none"> - Preparation and Execution of research projects, - To conduct RAG meeting of the Institute. - To conduct Quarterly/Annual review meetings and submission of Progress Report of the Institute. - Scrutinizing of ICFRE plan research projects, conduction of working group meetings/project evaluation committee meetings, PCR submission to ICFRE. - To assist in conduction Interviews for engagement of manpower in research projects - To scrutinize project completion report. - To prepare RPC meeting information document of the institute - To assist in National and International seminar/workshop/training of the Institute. - Other duties pertaining to the research and administration. <p>3. Sh. Ajay Aggarwal, Section Officer- Supervision and associate with research related meetings/ enquiries, National & International seminar/ Workshop/ Training, Selection of Research Fellows, RTI and also compilation and execution of parliamentary questions etc.</p> <p>3. Sh. Vishnu Prasad Acharya, Technical Officer- To assist in research related meetings, verification of documents for engagement of JRF/SRF/RA and</p>

	<p>Liaisoning of Heads of Division and PIs for submission of projects and Project Completion Reports of ICFRE as well as externally funded project. Also involved in execution of PIMS module for the officials of RCS, upkeep and maintenance of store related works and execution and finalization of Forest Advance and cash account related works of RCS.</p> <p>4. Sh. Sushma, LDC- Diary dispatch and other official works</p> <p>5. Sh. Bhupender Jayasi, Technician To assist in research related meetings, verification of documents for engagement of JRF/SRF/RA and assisting in technical works.</p> <p>6. Sh. Dalip Singh, MTS Dak distribution and cleaning office</p> <p>7. Sh. Hem Bahadur, Chowkidar Dak distribution and cleaning office</p>
3. Financial/Administrative power of an employee in your division	NA
4. Procedure to be followed, decision making including supervision and accountability.	Group Coordination (Research) → Scientist-P → Section Officer → UDC → LDC
5. Statement of categories of documents that are held by it or under its control	Research & Extension
6. Consultancy work carried out in your division.	NA However, the consultation proposal submitted by various Heads of division are technical examined
7. Directory of employees with name, designation and telephone number.	Dr. P. S. Rawat, Scientist-F-0135-2224353 Dr. Tara Chand, Scientist-D 0135-2224293 Sh. Ajay Aggarwal, S.O. 0135-2224271 Sh. Vishnu Prasad Acharya, T.O 0135-2224291 Smt. Sushma, LDC 0135-2224271 Sh. Bhupendra Jayasi, Technician 0135-2224271
8. Budget allocated during the current year for different projects and expenditure incurred.	Annexure-II
9. Particulars of facilities to citizens and for public use.	

S.N.	File No.	Subject
1.	1-6/2019/RCS(Pt.III)	Account related files
2.	1-7/2019/RCS/(RTI)	RTI related files
3.	3-1/2018/RCS	ACR related
4.	3-2/ 2018/RCS	Establishment matter RCS Section related files
5.	3-9/ 2011/RCS (Consultants)	Consultants
6.	4-19/2015/RCS	Officer/staff personal files
7.	5-1/RCS/2017(Advert.)	Advertisement of Research Fellows
8.	5-1/RCS/2017(Appointment.)	Appointment of Research Fellows
9.	5-1/RCS/2017(Approval)	Approval of Research Fellows
10.	5-1/RCS/2017(Extension)	Extension of Research Fellows
11.	5-1/RCS/2017(Order)	Order of Research Fellows
12.	5-1/RCS/2017(Resignation)	Resignation of Research Fellows
13.	5-2/RCS/2017(Order)	Order of Research Fellows (PA, FA)
14.	8-10/2015-RCS (F)	comments on project proposal
15.	9-0/2005-RCS (EU) Part file	ECCP-NETFOP
16.	9-21/2015- RCS (Academic Audit)	Academic Audit of the Institute 2012-15
17.	9-21/2016- RCS (ACAC)	Project Proposal on Agro Clean and Agro Charger for Green and Healthy Forests
18.	9-21/RCS/2017 (AICRPs-2017)	All India Coordinated Research Project
19.	9-21/2015- RCS (Amity Univ.)	Nomination of human resource for IDRC proposal in collaboration with Amity University
20.	9-21/2011- RCS (BP&BP)	To open Bio- prospecting and Bio-piracy branch within relevant Division of Regional Institutes of ICFRE
21.	9-21/2018/RCS (BPB)	Ban on use of polythene bags in nurseries
22.	9-21/2009- RCS (Brainstorming)	Brainstorming
23.	9-21/2010/RCS (CAMP A)	Project Proposals for consideration under CAMP A fund
24.	9-21/2010/RCS (CFC)/600	Commonwealth Forestry Conference 2017
25.	9-21 /2004-RCS (Consultancy B)	Consultancy projects
26.	9-21/2010/RCS (EFC)	Constitution of core committee to undertake consultation with various stakeholders regarding Forest Certification
27.	9-21/2018/RCS (FIS)	Research Report regarding Forest Invasive Species (FIS) Cell, FRI
28.	9-21/2011/RCS (HRD)	HRD plan of ICFRE for the year (2018-23)
29.	9-21/2010- RCS (HW& RM)	Review meeting of the progress of disposal of Hazardous Waste including Radioactive Material
30.	9-21/2014/RCS (ICIMOD)	Regarding hosting of International Mountain Forestry Symposium between 18-22 January, 2015 at FRI, Dehradun.
31.	9-21/2016/RCS (IPMP)	Intellectual Property Management Policy
32.	9-21/2012- RCS (IPWGE)	India Pakistan Joint Commission Meeting- Technical level Working Group on Environment
33.	9-21/2011/RCS (JICA)	Discussion on JICA Project in Directors Conferences at AFRI Jodhpur on 24 th November, 2017
34.	9-21/2014- RCS (M&E-UP)	Monitoring and Evaluation of plantations works under CAMP A for UP Forest Department
35.	9-21/2017/RCS (Monthly Seminar)	Monthly research seminar
36.	9-21/2018/RCS (MoUs) (Last 5 year)	MoUs signed by Institute

Budget allotment under Ongoing Plan Projects for 2019-20 (04.11.2019)

S N.	Project/PI Duration	Division	Budget outlay 2019	M & S	FRE	T.E. Res	Fellowship	Scientific Equipment	Total (In Lakh)
1	Utilization of forest biomass through value added application as source of natural dyes. Dr. Rakesh Kumar, 3 Years, 2017-20	Chemistry & Bio-prospecting Division	3.12	0.32	0.35	0.14	1.31		2.12
2	Bioprospecting of <i>Pinus roxburghii</i> needles wax and other extractives. Dr. Vineet Kumar, 3 Years, 2017-20	Chemistry & Bio-prospecting Division	4.82	0.76	0.48	0.35	1.31		2.90
3	Enzymatic intervention for quality improvement of essential oil from <i>Cyperus scariosus</i> and <i>Zanthoxylum armatum</i> L. Dr P.K. Gupta (Dr Rashmi), 3Year, 2017-20	Forest Products Division	3.87	0.00	0.38	0.01	1.31		1.70
4	Nutritional and quality evaluation of selected wild edible plants as a source of functional food. Dr Y.C. Tripathi, 3 Years, 2017-20	Chemistry & Bio-prospecting Division	5.52	0.79	0.41	0.18	1.31		2.69
5	Studies on phytochemical composition of <i>Osyris quadripartita</i> salzm, Ex decane. Dr AK Pandey, 3Year, 2017-20	Chemistry & Bio-prospecting Division	4.13	0.47	0.83	0.35	1.14	2.50	5.29
6	Post fires impact on soil properties and microorganisms in Chirpine and Oak forests of Uttarakhand. Dr. B. M. Dimri, 3Years, 2017-20	Forest Ecology & Climate Change Division	4.27	0.32	0.69	0.60	1.31		2.92

7	Insect pests of western Himalayan oaks and their control. Dr. Arun Pratap Singh, 4 Years, 2017-21	Forest Protection	3.62	0.13	0.55	0.62	3.48	4.78
8	Development of <i>Gmelina arborea</i> and <i>Embllica officinalis</i> based agroforestry models on degraded lands in Uttrakhand and Uttar Pradesh. Rambir Singh, 3yr 2017-20	Extension Division	6.24	0.25	0.83	0.28	1.39	2.75
9	Development of Kachnar (<i>Bauhinia variegata</i>), Bhimal (<i>Grewia optiva</i>) and Kadam (<i>Anthocephalus cadamba</i>) based agroforestry models on farmers land under rainfed conditions in Uttarakhand. Dr Charan Singh, 3Years, 2017-20.	Extension Division	4.57	0.22	1.38	0.21	1.31	3.12
10	Livelihood improvement through sustainable utilization of <i>Grewia optiva</i> (bhimal) in Uttarakhand. Devendra Kumar, 4Year, 2018-22	Extension Division	5.80	0.41	0.26	0.35	1.31	2.33
11	Application of bio-based polymeric blends as strength additives for papermaking. Dr. Vikas Rana, 3Years, 2018- 21	Forest products Division (C & P)	12.04	1.26	0.41	0.28	2.41	4.36
12	Exploratory studies of friction induced welding on Indian wood species for making Joints. Shailendra Kumar, 4yr, 2017-21	Forest products Division	2.00	0.63	0.35	0.35	0.00	1.33

13	Development of a solar heated vacuum dryer with a thermal energy storage system. Shailendra Kumar, 3 Years, 2017-20	Forest products Division	9.92	0.00	2.36	0.00	1.31		3.67
14	Performance evaluation of imported timbers after treatment with conventional (CCA, CCB and environmental-safe (ZiBOC) preservative in prototype cooling tower. Ajmal Samani, 3 Years, 2017-20	Forest products Division	3.91	0.13	1.17	0.11	1.26		2.67
15	Conservation of <i>Litsea glutinosa</i> : an endangered and threatened medicinal tree species of North- West Himalayas. Dr. Navbahar, 4 Years, 2017-21	Silviculture & Forest Management	4.90	0.19	1.73	0.13	3.66		5.71
16	Molecular characterization of selected medicinal plants of Uttarakhand. Ranjana Negi, 3Years, 2017-20	Forest Botany Division	8.28	1.89	0.69	0.35	2.57		5.50
17	Identification and Characterization of important bacterial groups from salt affected soils of Haryana and Punjab. Dr. Parul Bhatt Kotiyal, 3Year, 2018-21	Forest Ecology & Climate Change Division	6.74	0.63	1.04	0.49	2.41	1.00	5.57
18	Butterflies associated with different forest types/sub-types in Uttarakhand. Dr. Arun Pratap Singh , 3 Years 2017-20	Forest Protection Division	6.00	0.00	0.69	1.32	3.25	0.24	5.50

19	Studies of diversity and host range of hymenoptern egg parasitoides from northern india (Haryana, Uttar Pradesh and Utrrakhand). Dr. Mohd.Yousuf, 3Years, 2018-21	Forest Protection Division	7.14	0.38	0.59	1.50	3.54	6.01
20	Digitization and enrichment of National Forest Insect Collection (NFIC) of Forest Research Institute-Phase-II (minute insects). Sudhir Singh, 3Years, 2017-20	Forest Protection Division	11.75	0.63	6.09	0.00	1.31	8.03
21	Mortality of <i>Pinus wallichiana</i> in Nandadevi Biosphere Reserve. Shailesh Pandey, 3Years, 2018-21	Forest Protection Division	8.46	0.95	1.04	1.05	2.69	5.73
22	Studies on taxonomy and host range of larval parasitoids, Apanteles spp. (Hymenoptera: Braconidae) from Uttarakhand and Haryana. Dr.Mohd.Yousuf, 3 Years, 2017- 20	Forest Protection Division	3.83	0.25	0.36	0.82	3.63	5.06
23	Diversity study of pteromalid parasitoids (Hymenoptera: Pteromalidae) of Northern India with special emphasis on bio-efficacy of some selected parasitoids. Arvind Kumar. 3 Years, 2018-21	Forest Protection Division	23.64	0.25	2.07	0.56	2.57	5.45
24	Carbon Sequestration and Carbon dioxide Emission from the Soils under different Forest Covers in Uttarakhand. Dr. Vijender Pal Panwar, 4Years, 2017-21	Forest Ecology & Climate Change Division	3.50	0.57	0.71	1.10	0.00	2.38

25	Screening of poplar clones for tolerance against poplar leaf defoliator, <i>Clostera cupreata</i> . Dr Arvind kumar, 3Years, 2017-20	Forest Protection	3.38	0.19	0.90	0.07	1.47	2.63
26	Selection and Genetic Evaluation of <i>Ailanthus excelsa</i> germplasm in Northern India. Dr Rama Kant, 3 years, 2016-20	Genetics & Tree Improvement Division	18.06	4.91	4.49	1.12	1.47	11.99
27	Study of Structural Dynamics and Genetic Improvement of <i>Grevillea robusta</i> A. Cunn (Silver Oak). PI Maneesh Bhandari, 4 yrs 2017-21	Genetics & Tree Improvement Division	11.14	1.70	3.80	1.05	3.66	10.21
28	Field evaluation of recombinants emanating from F ₁ and F ₂ generations of <i>Corymbia</i> (Syn. <i>Eucalyptus</i>) hybrid <i>C. citriodora</i> Hook. × <i>C. torelliana</i> F.v. Muell for high productivity. Ajay Thakur, 6 years, 2016-2022	Genetics & Tree Improvement Division	5.19	0.09	2.28	0.21	0.98	3.56
29	High-density plantation management for wood production and assessment of wood properties of coppiced material. Dinesh Kumar, 4 yrs, 2018-23	Silviculture & Forest Management	8.60	0.33	4.06	0.41	2.74	7.54
30	Chemical examination and value addition of edible mushroom <i>Astraeus hygrometricus</i> . Dr. VK Varshney (2016-19)	Chemistry & Bio-prospecting Division	0.81	0.00	0.00	0.00	0.55	0.55
31	Value addition and utilization of <i>Cassia tora</i> seeds. Pradeep Sharma, 3 Years (2016-19)	Chemistry & Bio-prospecting Division	5.27	0.79	1.04	0.42	3.22	5.47

32	Expression profiling of mevalonate (MVA) pathway and methyl erythritol 4-phosphate (MEP) pathway transcripts in <i>Cymbopogon winterianus</i> under pathogen stress. Shailesh Pandey, 2Years 2017-19	Forest Protection Division	5.26	1.89	0.00	0.28	1.26	3.41	
33	Assessment of hydrological services imparted by forest of Kempty Watershed (Mussoorei). Parmanand Kumar, 7 Years, 2012-19	Forest Ecology & Climate Change Division	16.06	0.63	1.73	0.28	1.47	8.03	12.14
34	All India Coordinated Project for genetic improvement of <i>Melia composita</i> Willd. PI Dr Ashok Kumar (2017-22)	Genetics & Tree Improvement Division	35.25	5.78	10.35	1.40	2.25	19.78	
35	Epidemiology and management of <i>Chlorophorus annularis</i> Fab. (Coleoptera: Cerambycidae) A major borer of cut and dry bamboo. Dr KP Singh, 3 Years 2017-20	Forest Protection Division	6.10	0.88	3.11	0.14	0.00	4.13	
36	Seasoning studies on important species of bamboos for dandicrafts using Dehumidifier kiln and Vacuum kiln. NK Upreti, 3 years, 2017-20	Forest Products Division	5.30	0.17	1.34	0.75	0.00	2.26	
37	Studies on role of nano-fillers in wood composites and finger-jointed solid wood. Mrs Ismita Nautiyal, 3Years, 2017-20	Forest Products Division	4.00	0.95	1.38	0.35	0.00	2.68	
38	Studies on the Radio Frequency Curing of adhesives in manufacturing of Plywood. D. P. Khali, 3 Years, 2017-20	Forest Products Division	7.90	2.21	2.90	0.14	0.00	5.25	

39	Modification of difficult to treat timbers by microwave technique for improving impregnation of preservatives. Sh. Ajmal Samani, 5 Years, 2017-22	Forest Products Division	2.86	0.19	0.35	0.14	1.26		1.94
40	Deployment of eucalyptus genotypes in the field and hybridity testing through molecular markers.' Title Changed from earlier title 'Clonal propagation of newly developed superior hybrids/ genotypes of Eucalypts and their deployment in the field (Phase-III).' Maneesh Bhandari (2017-20)	Genetics & Tree Improvement Division	8.00	0.00	3.07	0.70	2.69		6.46
41	Evaluation of Germplasm and Transcriptome studies in Eucalypts for Water logging and Salinity. Dr. Santhan Barthwal, 3 Years, 2017-20	Genetics & Tree Improvement Division	23.27	1.92	2.07	0.21	1.31		5.51
42	Characterization of the Hill Bamboo Species (Ringal) of the North-Western Himalayas for their Conservation and Genetic Improvement. Rajendra Kumar Meena, 2Years, 2017-20	Genetics & Tree Improvement Division	16.24	2.21	2.42	0.70	2.61	0.50	8.44
43	Molecular Mechanism of Rhizome Growth and Development in <i>Dendrocalamus strictus</i> . Dr. Santhan Barthwal, 3 Years, 2017-20	Genetics & Tree Improvement Division	6.97	1.58	1.48	0.28	1.31		4.65

44	Evaluation of phytochemicals from forest species- <i>Acacia concinna</i> , <i>sapindus laurifolius</i> , <i>A. auriculiformis</i> , <i>T. bellirica</i> and <i>Ziziphus mauritiana</i> for removal of chemical residues from edible produce. Smt Neelu Singh, 3 Years, 2017-20	Silviculture & Forest Management Division		0.40	0.53	0.20	1.34	2.47
45	Assesement of quality of some medicinal plants from different markets of Madhya Pradesh vis-à-vis market value. Smt Neelu Singh, 3 Years, 2017-20	Silviculture & Forest Management Division		1.00	0.95	1.00	1.61	4.56
Total ongoing projects			347.73	39.25	73.71	21.00	76.99	223.22

Budget allotment under New Plan Projects for 2019-20

S.N	Project/PI Duration	Division	Total Budget outlay	Budget outlay 2019	M&S	FRE	T.E. Res	Fellowship	Scientific Equipment	Total (In Lakh)
1	Study on the effect of fire retardant chemicals on internal bond strength of particle board. D.P Khali, 3 years, 2019-22	Forest Products Division	13.50	5.00	0.63	1.24	0.00	1.50		3.37
2	Study the Tree Biomechanics behavior with respect to the hollowness (decay) of urban trees in wind affected area. R. Ezhumalai, 4Years, 2019-23	Forest Products Division	25.64	10.50	0.26	0.30	0.80	0.00	0.67	2.03
3	Thermo-Hydro-Mechanical (THM) modification of plantation grown timber of <i>Melia dubia</i> for its value addition. Dr. Shailendra Kumar, 4 Years, 2019-23	Forest Products Division	26.93	10.42	0.95	2.07	0.00	1.31	2.00	6.33
4	Revision of Kanjilal's Forest Flora of the Chakrata, Dehradun and Saharanpur Forest Division, Uttar Pradesh for conservation and sustainable utilization. Dr. Anup Chandra, 5 Years, 2019-24	Botany Division	33.07	5.41	0.47	0.69	0.70	1.81		3.67
5	Revision of osmaston's forest flora for Kuma on for conservation and sustainable utilization. Dr. Anup Chandra, 5 Years, 2019-24	Botany Division	32.78	6.41	0.47	1.04	1.05	1.81		4.37

6	Evaluation of carbon regulating services and soil health of restored limestone mine overburden areas. Dr. N Bala, 4 Years, 2019-23	E CC& FI Division	32.66	11.62	0.63	1.52	0.35	1.31	6.00	9.81
7	Genetic evaluation and characterization of <i>Toona ciliata</i> for productivity enhancement Rama Kant, 4Years, 2019-23	G & TP Division	54.96	12.57	3.15	3.04	0.88	1.31		8.38
8	Characterization of grassland types of Uttarakhand and Eco-Distribution studies (PI- Dr Ranjana Negi) 5 years	Botany Division			0.50	0.60	1.00	0.96		3.06
9	Isolation and characterization of Rhizobium strains from leguminous trees and their evaluation in biological nitrogen fixation (PI-Dr Vipin Prakash) 3 years	Forest Protection Division			0.50	1.20	0.30	0.96		2.96
10	Effect of elevated CO2 with varying nutrient regime on carbon sequestration and resource use efficiency of <i>Lagerstroemia speciosa</i> L. (PI- Dr Hukum Singh)	FE & CC Division			1.50	2.50	0.50	0.96	3.00	8.46
Total budget					9.06	14.20	5.58	11.93	11.67	52.44