

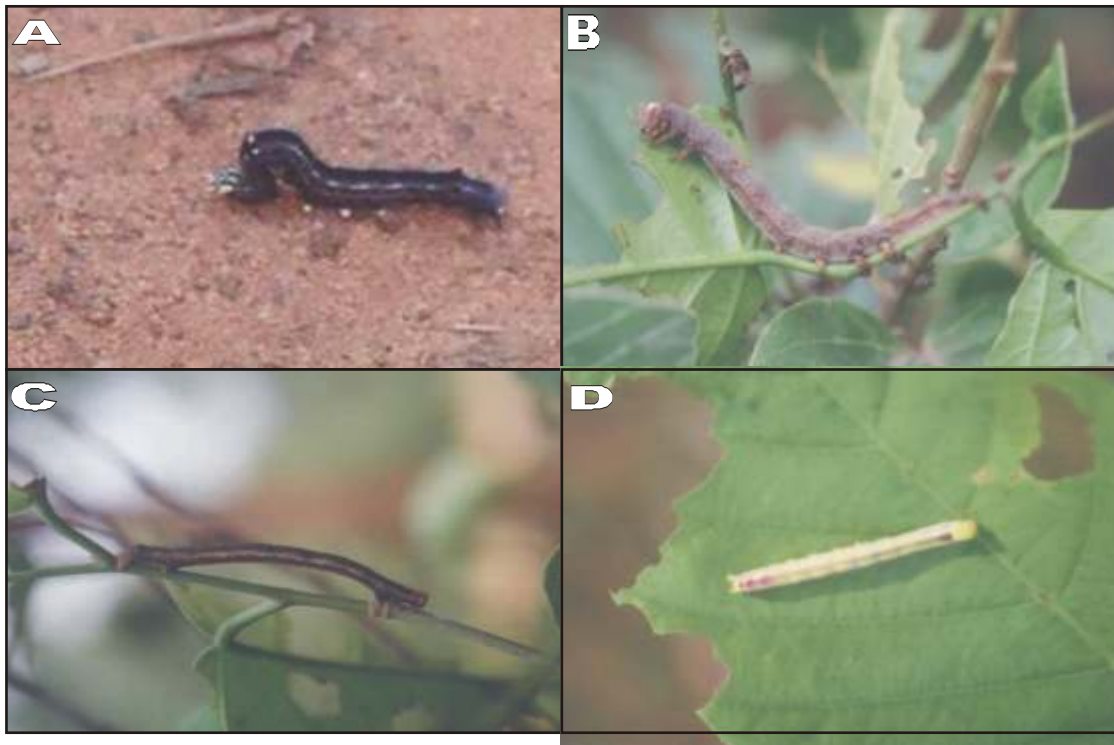


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INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION



Insects responsible for large scale defoliation of sal in Madhya Pradesh - **A. Larva of *Ophiusa tirhaca*** **B. Larva of *Ophiusa janata*** **C. Larva of *Paectis subapicalis*** **D. Larva of *Ascotis seleneria***

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Outbreak of sal defoliators in Umaria Forest Division of Madhya Pradesh

Sal, *Shorea robusta*, is both ecologically and economically an important species. Nearly 85 species of insects feed on sal leaves, some of them cause epidemic defoliations.

Scientists of **Tropical Forest Research Institute (TFRI), Jabalpur** noticed a localized sudden outbreak of defoliators spread in 8 compartments of Dhamokhar range of Umaria Forest Division and several neighbouring a compartments of Bandhavgarh National Park during March to July 2008. Most of these compartments remained leafless for 3 to 4 months. The attack was severe in all compartments up to May and gradually slowed down from



Completely defoliated sal trees

partially attacked in most of the compartments to its severity restricted up to 3 compartments in June. The major defoliators identified were *Ascotis selenaria*, *Ophiusa janata*, *Ophiusa tirhaca* and *Paectes subapicalis* and minor defoliators included *Althia nivea*, *Arhopala (Amblypodea) amantes*, *A. hewitsoni* and *Cryptothelea (Clania) crameri*.

Disease induced by a bacterium *Bacillus* sp. and an unidentified virus killed these defoliators by the end of July. Thus in mid of August, the outbreak of defoliators disappeared naturally in all affected compartments.

The earliest known epidemic outbreak in sal was reported from Goalpara sal forest of lower Assam in 1879, due to lymantrid hairy caterpillar *Dasychira grotei* accompanied with *Dasychira thwaitesi*, *Lymantria* spp. and others. Localized population outbreak of same lymantrid defoliators was again reported in Assam during the years 1907, 1914, 1922 and 1936. Later, similar severe outbreak was reported during 1884, 1897, and 1899 in Bengal and in Madhya Pradesh during 1909. Localized population outbreak of defoliator *Ascotis selenaria imparata* Walk. was recorded in sal forests of Dehradun Division during the year 1964, 1967, 1971, 1974 and 1975.

Conservation strategy for *Arnebia euchroma* (Royle ex Benth.) I.M. Johnston

Himalayan Forest Research Institute (HFRI), Shimla recorded an endangered plant *Arnebia euchroma* belonging to the family Boraginaceae, in open, drier slopes of Namgia and Hango valley at the elevation of 3700 m to 4200 m above msl in cold desert in Himachal Pradesh. The plant have rounded cluster of pale pink purple flowers which turn blackish purple with slender corolla tube usually longer than the subtending bracts and calyx. The plant is already reported Critically Endangered in Himachal Pradesh as per Conservation Assessment and Management Prioritization (CAMP) workshop held at HFRI, Shimla during 2003. An urgent need for devising suitable conservation strategies for this species is required in view of the medicinal uses and endangered status of the species.



Arnebia euchroma

Participation of ICFRE in Accra Climate Change Talks

Shri Jagdish Kishwan, Director General, ICFRE participated in the Accra Climate Change Talks from 21st to 27th August 2008 at Accra, Ghana and made a presentation on Reducing Emission from Deforestation and Degradation in Developing Countries (REDD).

Workshops/Seminars/Trainings

Forest Research Institute (FRI), Dehradun organized a patent sensitization workshop in collaboration with Patent Facilitating Centre (PFC), Technology Information, Forecasting and Assessment Council (TIFAC), Department of Science and Technology (DST), New Delhi on 14th July 2008.

Chief guest of the workshop, Shri Jagdish Kishwan, Director General, Indian Council of Forestry Research and Education, Dehradun highlighted the importance of natural



resource management and issues related to IPRs to protect and to utilize the rights to strengthen the intellectual property system and also to boost the economic growth.

The workshop aimed to sensitize and to instil the awareness amongst about 200 participants comprising of scientists, officers, academicians, technologists, research scholars and students from different R&D institutions, universities and colleges of Uttarakhand including ICFRE, UCOST, IGNSA, FSI, BSI and WII on the issues related to Intellectual Property Rights (IPRs).

ICFRE, Dehradun organised a two-day workshop on “Select International Environment Law Issues and Multilateral Environmental Agreements” from 9th and 10th July 2008 at ICFRE, Dehradun.



Workshop on "Select International Environment Law Issues and Multilateral Environmental Agreements" at ICFRE, Dehradun

The Institute of Forest Productivity (IFP), Ranchi has been identified as a coordinating institute by the Ministry of Environment & Forests, Govt. of India for the States of Arunachal Pradesh, Jharkhand and Orissa for implementation of UNDP driven project on “Biodiversity Conservation through Community based Natural Resource Management.” A workshop on GOI-UNDP CCF-II project titled “Biodiversity conservation through Natural Resource Management in the State of Jharkhand” was organized on 2nd August 2008 by the Institute.

FRI, Shimla organized one day brainstorming interactive workshop on 6th August 2008 for “Identification and Prioritization of Forestry Research Needs in Himachal Pradesh” at the Institute.

Trainings

ICFRE, Dehradun organized a specialized training programme on “Mainstreaming Biodiversity in Environment Impact Assessment” at Wildlife Institute of India, Dehradun from 18th to 22nd August 2008.

Rain Forest Research Institute (RFRI), Jorhat imparted training on 'Propagation and Commercial Cultivation of Bamboo' to the farmers of Forest Development Agency of Sivasagar, Assam at RFRI, Jorhat on 19th September 2008 and to forest guards of Assam Forest Training School at Makum on 9th July 2008. Training was also imparted on “Disease Management on Bamboo Plantation” to the farmers and NGO's on 23rd July 2008 in the district workshop organized by Forest Department of Assam. The institute imparted training on different aspects of bamboo technology at Sikkim Science Centre, Marchak, Ranipool, East Sikkim District on invitation of Department of Science and Technology, Government of Sikkim from 22nd to 26th September 2008.



Training on Bamboo Cultivation



RFRI, Jorhat imparted training on “Application of GPS Technology” on 19th to 21st August 2008.



Training on GPS Technology

IFP, Ranchi organized a five day training programme for the farmers and field functionaries of the State of Chhattisgarh under Bamboo Technology Support Group (BTSG), ICFRE, Dehradun of National Bamboo Mission during 8th to 12th September 2008.



A Glimpse of VAN VIGYAN KENDRAS

ICFRE initiative to establish Van Vigyan Kendras in each state/UT under XI Five Year Plan is with the objective of dissemination of the technologies developed by the ICFRE and its institutes to the user groups including Forest Departments and farmer. This magnanimous task is being undertaken by the Council and its institutes with the active collaboration of various State Forest Departments. A glimpse of the activities is being presented here to provide an insight in the progress of the scheme.



Tropical Forest Research Institute (TFRI), Jabalpur has established four VVKs one each in SFRI campus, Polipathar, Narmada Road, Jabalpur (MP), Research & Extension Division Chhattisgarh State Forest Department, Pandri Raipur (CG), Koraput (Orissa) and Nara Depot, Nagpur (MS). The institute has conducted a number of training programmes and published VVK literature in Hindi and English.

Forest Research Institute, Dehradun has initiated the work of establishment of Van Vigyan Kendras at Hoshiarpur (Punjab), Pinjore (Haryana) and Haldwani (Uttarakhand). Training programmes have been conducted on the Awareness of Forestry Research and its utilisation from 4th to 8th August 2008 at Hoshiarpur from 25th to 29th August 2008 at Pinjore, and from 22nd to 26th September 2008 at Haldwani to the farmers and foresters.

Arid Forest Research Institute, Jodhpur has initiated process for establishment of VVKs in Bikaner (Rajasthan), Rajkot (Gujarat) and Khanwel (Dadra & Nagar Haveli). Area of 25 ha on National Highway-89 has been selected in Bikaner. A progeny trial of Rohida (*Tecomela undulata*) over the area 3 ha (spacing 4 x 4, total plants 1440) has been laid out.



Proposed model nursery site of VVK at Bikaner, Rajasthan

Institute of Wood Science and Technology, Bangalore has established Van Vigyan Kendras in Kadugodi - Forest Technical and Administrative Training Institute, Bangalore, Karnataka, in Dulapally Forest Research Centre, Andhra Pradesh Forest Department, Hyderabad, Andhra Pradesh and in Satpal, Goa. Van Vigyan Kendra, Karnataka was inaugurated on 18th March 2008 at Forest Technical and Administrative Training Institute (FTATI), Kadugodi, Bangalore by Shri A.K. Verma, PCCF, Karnataka Forest Department. A demonstration programme on technologies including Ammonia fumigation, Planting technique of sandal, casuarina, eucalypts and bamboo, Sap displacement method to treat freshly felled bamboo and poles, Use of alternative timber for different end uses like handicrafts, furniture, etc. was organized on the occasion.

The institute published Brochure/Pamphlet on Sandal, on Nursery practices, on Simple techniques for treating poles, fence posts, tree guards and bamboo by wood preservatives, on portable distillation unit for oil distillation in both Kannada & English, and SAP displacement techniques for treating small girth timber on bamboo in English.



A Glimpse ...

Rain Forest Research Institute, Jorhat has established 6 VVKs namely Assam Forest School, Jalukbari, Assam; VVK, Chessa Arunachal Pradesh; Hatipara Research Station, Agartala, Tripura; Sawombung (Range Nursery), Manipur; Forest Colony, Kohima, Nagaland and Forest School, Aizawl, Mizoram. The institute has published a number of VVK literature in local languages and in English.

Himalayan Forest Research Institute (HFRI), Shimla has established a VVK on 19th February 2007 at Forest Training School, Sundernagar, District Mandi, Himachal Pradesh. The institute has conducted trainings and demonstration programmes and also published a number of literature in Hindi and English.

Institute of Forest Genetics and Tree Breeding (IFGTB), Coimbatore has initiated the establishment of VVK in Andaman and Nicobar Islands which will function from Port Blair, Extension Centre, Mangarai, Coimbatore in Tamil Nadu and at the District Forest information and extension centre at Kuthiran, Thrissur in Kerala for display of materials, conducting conferences, workshops and trainings.



Forest Information Centre,
Kuthiran, Thrissur, Kerala

VVK/DV News

IFGTB, Bangalore

- ❖ Organized training programme for the Foresters and Forest Guards of Karnataka State Forest Department at Van Vigyan Kendra, Kadugodi, Bangalore on modern nursery practices on 25th July 2008. Also conducted an extension programme on 19th September 2008.
- ❖ Two training cum demonstration programs have been taken up at VVK, Andhra Pradesh on 28th June 2008 and 10th July 2008 on consultation with APSFD, Hyderabad.
- ❖ An interactive meeting with the farmers of Byranahalli village (adopted for transfer of technologies) was organized on 3rd July 2008.

TFRI, Jabalpur

- ❖ Training was organized on candidate plus trees, plus tree selection, clonal seed orchards, etc. for forest department officials and field executives of Chhattisgarh at VVK, Raipur on 18th and 19th August 2008.



VVK Publications
HFRI, Shimla

VVK Publications
RFRI, Jorhat

HFRI, Shimla

- ❖ A camp workshop cum village meeting was organized on 3rd August 2008 at Lanabanka Model Village as selected in District Sirmour (H.P.) for show-casing the research activities of the institute. Farmers including ladies folk of the villages falling in Lanabanka panchayat participated in the workshop.
- ❖ To develop the human resource amongst the field functionaries of the State Forest Department, training on "Forestry Interventions for Eco-restoration of Degraded Land" was organized at Forest Training School, Sundernagar (H.P.) on 17th July 2008. In all, 70 participants comprising of villagers, farmers and front line staff of HPSFD, were present during this one day training.
- ❖ A training on "Intercropping of Medicinal Plants: Some innovations and options for diversification" was organized by the institute at Janna (Kullu), Himachal Pradesh on 14th August 2008.



Training on "Forestry Interventions for Eco-restoration
of Degraded Land" at Sundernagar (HP)



IFP, Ranchi organized a five-day training programme for the farmers and field functionaries of the State of Chhattisgarh under Bamboo Technology Support Group (BTSG), ICFRE, Dehradun of National Bamboo Mission during 8th to 12th September 2008.

Institute of Wood Science (IWST), Bangalore organized training for M.Sc. Biotechnology students of Bangalore University, Bangalore and North Eastern Hill University, Shillong from 21st to 25th July 2008. The institute also organized training programme for the Foresters and Forest Guards of Karnataka State Forest Department at Van Vigyan Kendra, Kadugodi, Bangalore on modern nursery practices on 25th July 2008.

IWST, Bangalore conducted short term training course on "Wood Seasoning and Preservation" from 15th to 19th September 2008.

IWST, Bangalore organized a short term training course on "Sandal seed nursery technologies" to various farmers and SFD officials from Karnataka, Gujarat and UP from 24th to 26th September 2008.

TFRI, Jabalpur organized training on candidate plus trees, plus tree selection, clonal seed orchards, etc. for forest department officials and field executives of Chhattisgarh at VVK, Raipur on 18th and 19th August 2008. The institute also organized a short term training course on "Cultivation and utilization of medicinal and aromatic plants" from 20th to 22nd September 2008.

IFGTB, Coimbatore organized two days training programme for farmers, foresters, NGOs and others on "Tree Borne Oilseeds (TBOs) with special focus on *Jatropha curcas*" under DBT funded project on 'Development of Post harvest techniques for seed production in *Jatropha curcas*' from 12th and 13th August 2008.



Training Programme on TBOs

IFGTB, Coimbatore organized a two-day training programme on 'Bamboo Cultivation' for the Farmer from Attapadi

sponsored by the Institute of Societal Advancement, Thiruvananthapuram from 14th and 15th July 2008.

HFRI, Shimla organized a one day Training-cum-field Demonstration programme to train the field functionaries of the State Forest Department and progressive farmers of Hamipur Forest Division of Himachal Pradesh on "Integrated Pest Management in Chir Pine" at Samtana Forest, Aghar Forest Range on 18th September 2008.

HFRI, Shimla conducted a one-day training-cum-demonstration programme on



Training on IPM in Hamirpur Forest Division

"Commercial cultivation of Patish and Chora" to the farmers and field functionaries of SFD of Himachal Pradesh on 29th August 2008 at Mashobra near Shimla under National Medicinal Plant Board Project.

Meetings

ICFRE, Dehradun convened the second meeting of Policy Research Committee constituted by MoEF on 11th September 2008 at Van Vigyan Bhavan, New Delhi under the chairmanship of Additional Director General of Forests (FC), MoEF, Government of India. The status of policy research studies presently underway in ICFRE was presented before the committee. The committee also deliberated upon prioritizing the future policy research studies to be undertaken by the Council.

ICFRE, Dehradun organized a one-day expert consultation meeting on finalization of "Guidelines for testing and releasing of tree varieties and clones" prepared by the FRI, Dehradun was on 19th September 2008. The meeting was chaired by the Director General ICFRE and attended by Dr. S. Nagarajan, Chairperson, Protection of Plant Varieties and Farmers Right Authority, Govt. of India, New Delhi and eminent scientists, representatives of industry and progressive farmers.



Quinquennial Review

ICFRE initiated the process of Quinquennial Review (QR) in four ICFRE Institutes viz. FRI, Dehradun, AFRI, Jodhpur, RFRI, Jorhat and IFGTB, Coimbatore and in one centre i.e. FRC, Hyderabad on pilot basis on 25th and 26th August and 3rd to 10th October 2008, respectively.

Van Mahotsava

FRI, Dehradun celebrated 59th Van Mahotsava at Kendriya Vidhyalaya, on 18th July 2008. Shri Jagdish Kishwan, Director General, ICFRE planted a sapling of *Delonix regia* (Gulmohar), and Dr. S.S. Negi, Director, Forest Research Institute, Dehradun planted a sapling of *C. fistula*.

AFRI, Jodhpur celebrated 59th Van Mahotsav on 5th July 2008. Plantation of ornamental tree species was undertaken in a Bhanwari Devi school near Shastri Nagar Jodhpur. Honorable DG, ICFRE, Dehradun was the chief guest on the occasion. TFRI, Jabalpur also celebrated "Van Mahotsav" on 21st July 2008. Officers and staff of the institute planted saplings within institute campus.



DG, ICFRE addressing at 59th Van Mahotsav at Bhanwari Devi School, Jodhpur

Consultancy

IFP, Ranchi transported plants to Chanderpura Thermal Power Station (CTPS), Chanderpura for creation of green belt as per MOU signed between IFP and DVC. The institute under NATCOM II project, conducted a tour for "Assessment of soil carbon stocks and dynamics in forest soils of India for the period 1995-2007 NATCOM II Project".

Visit of dignitaries

Honourable Minister for Rural Development & Rural Works Department, Arunachal Pradesh Shri Chowna Mein visited IWST, Bangalore on 1st September 2008.

Dr. Carol Ellison, Pathologist, Commonwealth Agriculture Bureaux International (CABI), UK visited RFRI, Jorhat on 18th September 2008. She also delivered a talk on "Invasive species and Management at CABI".

Shri Jagdish Kishwan, Director General, ICFRE, Dehradun, visited AFRI from 2nd to 5th July 2008. He visited the experimental areas of AFRI at 1357 RD in IGNP area, Mohangarh (Jaisalmer), Kumathia Enclosure at Kailana and Tibna, Jodhpur district.



Shri J. Kishwan, DG, ICFRE, Dehradun visited Silva Ayurveda model experimental site at Tibna, Jodhpur

The National Workshop on "Extension Strategies in Forestry Research"

A National Workshop on "Extension Strategies in Forestry Research" is scheduled on 15th and 16th January 2009 at Indian Council of Forestry Research and Education, Dehradun - 248006.

Staff News

Promotions :

Shri B.D.Kanswal, Scientist-B, FRI, Dehradun	31.08.08
Shri K.P. Singh, Scientist-B, FRI, Dehradun	11.09.08
Shri Mahendra Singh, R.A.I (SG), FRI, Dehradun	11.09.08
Shri Anup Singh Chauhan, R.A.I (SG), ICFRE, Dehradun	15.09.08
Shri P.C.Verma, R.A.I (SG), FRI, Dehradun	12.09.08
Shri P.S. Bajwa, R.A.I (SG), FRI, Dehradun	15.09.08
Shri V.K. Ahuja, Head Clerk, FRI, Dehradun	11.09.08
Shri G.C.Bhandari, Head Clerk, FRI, Dehradun	11.09.08
Shri Pooran Prasad, Head Clerk, FRI, Dehradun	11.09.08
Shri Shree Ram, Head Clerk, FRI, Dehradun	11.09.08
Shri Dalip Singh, Head Clerk, FRI, Dehradun	11.09.08
Shri D.N. Sharma, Head Clerk, FRI, Dehradun	11.09.08



Staff News (contd..)

Smt.Rajni Bali, Head Clerk, ICFRE, Dehradun	12.09.08	Shri Jagat Singh, Driver (Ordinary), Jalandhar	01.09.08
Smt K.D. Tiwari, Head Clerk, FRI, Dehradun	11.09.08	Shri Surender S. Rawat, Driver, DRDO, New Delhi	30.09.08
Smt R.K. Verma, Head Clerk, ICFRE, Dehradun	11.09.08	Joining :	
Shri Kanti Ram Sharma, R.A.I (F. Mech.), FRI, Dehradun	11.09.08	Dr. Ramesh K. Aima, IFS (NL : 87), CF, FRI, Dehradun	07.07.08
Shri Rajesh Kumar Barer, LDC, FRI, Dehradun	11.09.08	Dr. Ajay Thakur, Scientist-C, CSFER, Allahabad	16.07.08
Shri Itrat Hassan, UDC, FRI, Dehradun	11.09.08	Shri Vijay Kumar, FRO, CSFER, Allahabad	05.08.08
Shri R.S. Bist, Driver (Gr.-II), FRI, Dehradun	11.09.08	Shri Vipin Chaudhary. IFS, Head, Engineering Cell	08.09.08
Shri D.K. Sharma, R.A.-II (F.Mech.), FRI, Dehradun	11.09.08	Retirement :	
Shri Jag Mohan, UDC, FRI, Dehradun	12.09.08	Shri R.C. Mall, R.A. II, FRI, Dehradun	31.07.08
Shri Akhlesh Garg, Head S.K., FRI, Dehradun	11.09.08	Shri R.C. Ankaya, Safaiwala, FRI, Dehradun	31.07.08
Shri Chandaeman Singh, Head Mali, FRI, Dehradun	16.09.08	Dr. R.P. Singh, Scientist-F, ICFRE, Dehradun	31.07.08
Shri Lok Nath, Jamadar Peon, FRI, Dehradun	12.09.08	Dr. Mukhtar Ahmad, Scientist-F, FRI, Dehradun	31.07.08
Shri Dil Bahadur, Head Chowkidar, FRI, Dehradun	12.09.08	Shri Y.S. Negi, Scientist-B, FRI, Dehradun	31.07.08
Reparation :		Shri Azad Singh Bhandari, Head Clerk, ICFRE	31.08.08
Shri S.P. Rayal, IFS, Head Engineering Cell	18.09.08	Shri P.K. Rana, R.A.I., FRI, Dehradun	30.09.08
Shri Har Prasad, SFS (A&N), DCF, TFRI, Jabalpur	02.09.08	Appointment :	
Recruitment :		Dr. Ashwani Tapwal, RFRI, Jorhat, Scientist-C	25.08.08
Km. Pushpa Devi, Staff Nurse	03.09.08	Dr. Sangeeta Singh, RFRI, Jorhat, Scientist-C	25.08.09
Redeployment :		Dr. Vikash Rana, RFRI, Jorhat, Scientist-C	01.09.08
Shri Mahima Nand, Driver, Jalandar Cantt	11.08.08	Dr. Vipin Prakash, RFRI, Jorhat, Scientist-C	04.09.08
Shri Pooran Singh, Forester, Passport Office, CHD.	29.08.08	Repatriation :	
Shri Ramesh Chandra, Forester, Passport Office, CHD.	29.08.08	Dr. M.S. Negi, Director, RFRI, Jorhat repatriated to ICFRE, Dehradun	04.09.08
Shri Bhagwati Prasad, Forester, Passport Office, CHD.	29.08.08	Deputation :	
Shri Mahendra Singh, Forester, Passport Office, CHD.	29.08.08	Dr. Sanjay Srivastava (J&K : 89), ADG (Admin), ICFRE, Dehradun	04.09.08
Shri Jaibeer Singh, T.A. (Gr.C), Passport Office, CHD.	29.08.08	Shri S.Senthil Kumar, IFS, (J&K : 97), DCF (Admin.), ICFRE, Dehradun	14.07.08
Shri Girish Negi, T.A. (Gr.C), Passport Office, CHD.	29.08.08	Shri Aditya Kumar, IFS, (UP : 87), CF, TFRI, Jabalpur	12.07.08
Shri P.K. Bhandari, T.A.(Gr.C), Passport Office, CHD.	29.08.08	Shri M.Graham Dorai, SFS (A&N), DCF, TFRI	20.08.08
Shri G.B. Saxena, T.A. (Gr.C), Passport Office, CHD.	29.08.08	Shri N.K. Vasu, IFS (AM : 85), Director, RFRI, Jorhat	04.08.08
Shri V.D. Joshi, T.A. (Gr.C), Passport Office, CHD.	29.08.08	Dr. V. Ramakantha, IFS (MT : 84), CF, IWST, Bangalore	04.09.08
Shri S.R. Uniyal, T.A. (Gr.C), Passport Office, CHD.	29.08.08	Shri S.C. Joshi, IFS (KL : 80), Director, IWST, Bangalore	01.08.08
Shri Satish Chand, T.A. (Gr.C), Passport Office, ASR	29.08.08	Shri Prasanta Hazarika, AFS, Controller, RFRI, Jorhat	16.07.08
Shri S.S. Chauhan, T.A. (Gr.C), Passport Office, ASR	29.08.08	Transfer :	
Shri K.C. Bhatt, T.A. (Gr.C), Passport Office, ASR	29.08.08	Shri B.K. Pandey Scientist-C from RFRI, Jorhat	29.08.08
Smt. K. Bhatnagar, T.A. (Gr.C), Passport Office, CHD	29.08.08	CHD. : Chandigarh	
Shri J.K. Bhatia, LDC, C.R.C., Kasauli	29.08.08	ASR. : Amritsar	
Shri Vinod Kumar, T.A. (Pr. Red.), C.R.C, Kasauli	29.08.08		
Shri D.N. Sharma, Store Keeper, C.R.C., Kasauli	29.08.08		
Shri Ajay Kumar, LDC, C.R.C., Kasauli	09.08.08		
Shri Anand Singh Rawat, T.A. (Compositor), Passport Office, ASR	01.09.08		

Patron :

Shri Jagdish Kishwan, DG

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