

TRAINING PROGRAMMES
FOR
THE FOREST OFFICERS
DURING
2005-06



सत्यमेव जयते

Research and Training Division
Ministry of Environment & Forests,
Government of India,
Paryavaran Bhavan, CGO Complex, New Delhi-110 003

APRIL 2005

PHONE 011-24361774, 24360686
Website:- www.ifs.nic.in/rt

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DIRECTOR GENERAL OF FORESTS & SPL. SECY.
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

FOREWORD

The Ministry of Environment & Forests, Government of India formulate training policy guidelines for the forestry personnel working in forest departments of various states/UTs and organize initial in-service training courses for the officers of Indian Forest Service, State Forest Service and Forest Range officers. The Government of India also boost the efforts of the state/UT governments in upgrading the skills and knowledge of the forestry personnel through sponsoring of short-term refresher courses for the officers of IFS, SFS and the ROs in premier training organizations/institutions of the country and in forest training institutions of the Ministry of Environment & Forests (MoEF). Apart from this, the GOI have been organizing promotion-linked short-term *Advance Forest Management* courses for the IFS officers on completion of 10, 17 and 21 years of service. From 2003-04 onwards, the MoEF have also started a few refresher courses for the field staff (forest guards, foresters, deputy rangers) in the forest training institutions under the administrative control of the GOI. During 2004-05, the state governments/State Forest Departments (SFDs) were offered to organize short-term training courses in their forests training schools/institutes for which whole expenses would be borne by the GOI. There has been good response from the SFDs and 10 courses were organized in six states. The sponsoring of a few IFS officers for long-term courses on *administration and management* will be continued. During the last one-and-a-half years, a lot of improvements have been made in sponsoring/organizing of short-term refresher courses for the forest officers. Maximum information about the courses has been put on the webpage of the Research and Training Division of the MoEF and the IFS officers can exercise their choice of participating in a particular training through internet/e-mail.

This booklet is intended for use of all the SFDs/forest officers for availing opportunities offered by the GOI. The MoEF would welcome any suggestion for making improvements in the capacity building programmes sponsored by the MoEF so that the forestry personnel avail maximum benefit for equipping themselves for better management for our forests and wildlife resources.

Place : New Delhi
Dated : March 30, 2005


N. K. Joshi
Director General of Forests and Special Secretary

ABBREVIATIONS

ACF	Assistant Conservator of Forests
AFM	Advanced Forest Management
CFM	Community Forest Management
CITES	Convention on International Trade in Endangered Species of Flora and Fauna
DFE	Directorate of Forest Education
Dy RO	Deputy Range Officer
EAP	Externally Aided Project
EFRC	Eastern Forest Rangers College
FROs	Forest Range Officers
GIS	Geographical Information System
GOI	Government of India
GPS	Geographical Positioning System
HRD	Human Resource Development
IFS	Indian Forest Service
IGNFA	Indira Gandhi National Forest Academy
IIPA	Indian Institute of Public Administration
IPR	Intellectual Property Rights
JFM	Joint Forest Management
MDI	Management Development Institute
MoEF	Ministry of Environment and Forests
NGO	Non-Governmental Organization
NTFPs	Non-Timber Forest Products
NWFPs	Non-Wood Forest Products
PCCF	Principal Chief Conservator of Forests
SFDs	State Forest Departments
SFS	State Forest Service
UNFCCC	United Nations Framework Convention on Climate Change
UTs	Union Territories
WTO	World Trade Organization

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MANDATE OF THE MINISTRY OF ENVIRONMENT & FORESTS

The subject of *forestry & wildlife* being in the **Concurrent List** of the Constitution of India, the Ministry of Environment & Forests, Government of India, have mandate to formulate overall forest policy, enactment of laws and rules and issue guidelines to the states/UT governments governing conservation and management of forests and wildlife. Among other broad activities of the MoEF concerning capacity building of the forestry personnel include providing career opportunities to the officers of the Indian Forest Service, formulation of the “*Entrance and Training Rules*” for the SFS and Range Officers and arranging induction professional training courses for these officers. The MoEF also help the state/UT governments in upgrading the knowledge and skills of the forestry personnel through sponsoring of short-term as well as long-term in-service training programmes for the IFS officers, SFS officers and the Range Officers. From the financial year 2003-04 onwards, to boost the efforts of the state/UT governments, the MoEF have also been organising a few training programmes for the subordinate field staff (deputy range officers, foresters and forest guards) in the institutions under the administrative control of the Directorate of Forest Education and the forest training schools of the state/UT forest departments. The list of the training institutions under the MoEF is given at *Annexure-I*.

The information on training programmes has been put on the website of the ministry which can also be accessed at <http://envfor.nic.in> or directly at <http://ifs.nic.in/rt>

For further information about forestry training programmes sponsored by MoEF, please contact:

A.K. GOYAL
Deputy Inspector General of Forests
Ministry of Environment & Forests
Room No. 506, Paryavaran Bhavan, CGO Complex,
Lodhi Road, New Delhi-110 003.
Telefax: 2436 1774 (O), 26263440(R)
E-mail: kr036@ifs.nic.in; akg@nic.in
Website: <http://ifs.nic.in/rt>

DR. PRABHAKER DUBEY
Assistant Inspector General of Forests
Ministry of Environment & Forests
Room No.515, Paryavaran Bhavan, CGO Complex,
Lodhi Road, New Delhi-110 003.
Telefax: 2436 0686 (O)
E-mail: p_dubey18@rediffmail.com, dubey@nic.in

NATIONAL TRAINING POLICY

PREAMBLE

Governments have a very significant role to play in the development process and promotion of appropriate conditions which would lend dynamism to the national efforts of social and economic development of its people. In a developing country like India, the Central Government and the State/UTs Governments would need to ensure that the administrative machinery is sensitive to the dynamics of policy for the development of the available human resource. The human resource should be able to effectively meet the challenges of development – social, economic and political. Training is one of the most effective and tested tools for performance enhancement, as well as upgradation of knowledge and skills of the personnel. Organizational motivation and morale, as reflected in the attitudes and administrative culture, are rendered relevant and sharply focused through effective training programmes. Sensitivity to emerging political and social concerns, lateral thinking and re-orientation of administrative systems would require specifically focused training programmes to enable their diffusion throughout the administrative structure.

TRAINING OBJECTIVES

2. Training in government shall strive to achieve the following objectives:
 - (a) Keeping the personnel up-to-date on the activities they are concerned with, enhancing professional knowledge and skills needed for better performance of individuals and organizations;
 - (b) Promoting better understanding of professional requirements as well as sensitization to social, economic and political environment in which the activities are to be undertaken, and
 - (c) Bringing about right attitudinal orientation

TRAINING CONCERNS

3. Social and political ambience is subject to constant change. The government machinery would have to be continuously attuned to the changing needs. Training programmes for the civil services would, therefore, focus on -
 - (a) Responsiveness: to the challenging democratic needs and expectations of the citizens and organizational and technological developments.

- (b) Commitment: to democratic values and concept of partnership and participative decision making.

- (c) Awareness: of technological, economic and social developments
- (d) Infusion of scientific temper.
- (e) Accountability: to ensure high performance in every professional field and cost effective methods of delivery.

IN-SERVICE PROGRAMMES FOR THE IFS OFFICERS

The scheme provides sponsoring of short term refresher courses of one/two week duration for the Indian Forest Service officers in the premier training institutions in the country for updating the knowledge, skills and change of attitude for managing the natural resources of the country through organizing specialized tailor-made courses on human resource development, financial management, environmental impact assessment, joint forest management, wildlife management, prevention, detection and investigation of wildlife crimes, intellectual property rights issues in forestry, innovative industrial products from bamboo for poverty alleviation, policy and legal issues, good governance, non-timber forest product management, forest certification, coastal zone management, effective leadership and conflict resolution, emerging technologies in water resources conservation, project identification, formulation, monitoring and appraisal, forest tribal interface, impact of global warming and climate change on forests and biodiversity, natural resource management, bio-diversity conservation, GIS - a decision tool for forestry planning and management, eco-tourism assessment and development, economics of conservation areas, information technology etc. Based of the feed back received from the participants, the courses are evaluated, the institutions are requested to make improvements in conducting the courses in future; and the sponsoring institutions and themes of the courses are changed accordingly. During this financial year, the MoEF are sponsoring about 45 one-week courses in 30 institutions on 35 topics/themes. The list of premier training institutions organizing refresher courses for the IFS officers is given at

Annexure-II. The nominations are made by the MoEF based on the choice of the courses indicated by the officers through internet/e.mail/letters. Efforts are made to nominate the officers, who are not able to communicate their choices, based on their present job requirements. The nominations are forwarded to the Secretaries (Forests) and PCCFs of states/UTs (*the list of PCCFs given at Annexure III*) and also to the HRD nodal officers nominated by the states (*the list given at Annexure-IV*) requesting them to relieve the officers in time.

2. During January 12th 2004, the MoEF issued guidelines and communicated to the state governments for nomination of IFS officers for one week/two weeks short-term refresher courses being sponsored by the MoEF. These guidelines have been made applicable from 2004-05 onwards. The expenses towards course fee, boarding and lodging of the officers are borne by the MoEF. The training institutions are reimbursed the expenses as per orders issued by the DoPT applicable from time to time for such courses.

3. During the year 2005-06, it has also been decided to sponsor 2-3 days workshops/seminars for the IFS officers on emerging topics of regional, national and international importance so that through brain storming sessions and discussions a number of good suggestions/points emerge out. These suggestions would be useful in policy formulation by the government as well as in making improvements in the capacity building programmes for the forest officers. The workshops/seminars will be sponsored in the premier institutions in the country depending upon their strengths and expertise in a particular field/discipline. The list of proposed topics/themes for the workshops/seminar is given at *Annexure VI*. The schedule for the workshops is being finalised.

Guidelines for nominations of IFS officers for one week/two week short-term refresher training courses being sponsored by the Ministry

1. The officers undergoing Advanced Forest Management Course at the IGNFA (with 10, 17 and 21 years of seniority) shall not be nominated for one-week course during the year
2. The lists are normally prepared and communicated two to two and a half months in advance to the state governments and the institutes. No requests for additions/ change will be entertained once the lists have been finalised and communicated.
3. During the last few years, it has been observed that in most of the courses, the participation of the officers has been quite poor due to various reasons. Keeping in view the above, it has been decided that if the officer nominated fails to participate in the course, he/ she will not be nominated for the courses for the next two years unless the reasons for not participating were beyond the control of the officer.
4. Since the old database in the ministry on the courses was not computerized and efforts are being made to computerize the same, there could be chances of some mistakes being crept in while making nominations. The state governments/ PCCFs/ officers are requested to intimate the ministry immediately in case an officer has been nominated again for the same course/same institute.
5. The officers who have attained 58 years of age will not be nominated for the courses.
6. The institutions have been given instructions to forward in original the attendance sheet of the participants. The officers, who have not been serious in participating in the course, will not be nominated for training course(s) for the next two years.

Guidelines for the institutions organising refresher courses

1. Immediately on receipt of list of nominations from the Ministry of Environment and Forests, the institute may request the PCCFs of the states concerned to forward the latest addresses of the nominated officers.
2. The officers nominated may kindly be intimated well in advance directly or through the PCCF concerned about the venue of the course, how to reach the place, transport facilities, if any, to be provided by the institute, arrangements for their accommodation and the schedule of training for the full period of the course.
3. Forward a copy of the outline of course contents well in advance to the participants.
4. Make necessary improvements in overall conduct of the course including residential accommodation and recreational facilities based on the feedback received from the participants.
5. The boarding and lodging facilities to be provided to the officers nominated should be adequate to the tune of the expenses to be reimbursed by Govt. of India as already indicated in our offer letter.
6. Make necessary improvements in computer and library facilities. The choice of tele-film and video film for the participants as part of the course to be carefully done.
7. The field visits have to be quite relevant to the topic of the training.
8. The external faculty has to be better and well experienced.
9. There has to be right mix of internal and external faculties.
10. More thrust to be given on analysis of the case studies relevant to the training course.

11. The training materials for circulation among the participants should be standardized and of high quality.
12. There should be good environment for allowing active participation by the officers.
13. The institute may also consult concerned officers in the forest department of the state where the institute is situated while designing the programme.
14. The training should have judicious blend of lectures and exercises.
15. The institute shall maintain an attendance sheet of the participants to be signed in the forenoons and afternoons. The attendance sheet will be forwarded to the ministry along with other documents.
16. The evaluation formats will be distributed to the participants on the second day of the course.
17. The feedback received from the participants should be forwarded to the ministry in original. The feedback from the participants and the institute has to be in the new formats designed during 2004-05. The same can be download from the web-site of RT Division (<http://www.ifs.nic.in/rt>). The feed back documents should be forwarded in the form of a booklet and not loose sheet.
18. Collection of feedback forms is must. The name of the officer, who does not give his feedback form, may be reported to the ministry.
19. The institute would make it clear to the participants that the institute will not provide any accommodation or boarding for the accompany persons.
20. The institute will accept only those officers who have been nominated by the government of India and figure in the list sent by the ministry.
21. The Government of India will reimburse the boarding and lodging expenses of the *nominated participants only* for

- the duration of the course plus one (only) more day, if the participants happen to arrive at the venue of the course on the previous day and depart on the day after the completion of the course.
22. While forwarding the lists of the participants, please *also mention officer's code* along with cadre and year of allotment.
 23. Institute would forward the
 - (a) Lists through e-mail/fax on the first day & last day of the course.
 - (b) Course Director's report and training material (a hard copy and soft copy) along with bills within 15 days of the completion of the course
 24. The pre-receipted bills (in quadruplicate) of boarding and lodging for reimbursement detailing the number of residential and non-residential participants should also be forwarded along with the list of the officers who participated in the course. Government of India will not reimburse any boarding charges for the non-residential participants.
 25. Panel discussions on the topics "*Improvement in the working of Forest Departments- need for career development through training and improvement of skills*" may also be organized on the last day of the course. The idea for such panel discussions is to have suggestions for upgradation of skills of foresters, adoption of modern techniques and their applications in forestry activities and advancement of individual careers.
 26. Besides covering the relevant topics, it is requested that presentations/discussions on experience sharing by the officers and the evaluation of the training programme, its strengths and weaknesses, should also be held.
 27. Kindly try to correspond, as far as possible, through e-mail (except for financial matters)

**LIST OF ONE WEEK REFERESHER COURSES FOR INDIAN FOREST SERVICE OFFICERS TO BE SPONSORED
DURING THE FINANCIAL YEAR 2005-06
(As on April 15th , 2005)**

APRIL-2005			
S. NO.	NAME OF THE INSTITUTE	TOPICS	CONFIRMED DATES
1	NIIT GIS Limited, New Delhi	GIS: A Decision Tool for forestry planning and management	April 25-29, 05
MAY-2005			
2	Forest Survey of India-Dehradun	Application of remote sensing and geographical information systems in forest management	May 09-13, 05
3	AMITY School of Natural Resources and Sustainable Development, New Delhi	Intellectual Property Rights - Issues in Forestry	May 16-20, 05
4	Indian Council of Forestry Research & Education, Dehradun	Forestry Issues in Climate Change	May 30 -June 03, 05
5	Indian Institute of Management-Bangalore	Enhancing the effectiveness for implementation of the government policies and programmes	May 30 -June 03, 05
JUNE-2005			
6	Indian Institute of Management-Lucknow	Management of Change	June 06-10, 05
7	Wildlife Institute of India-Dehradun	Wildlife Management - Issues, Concerns and Practices	June 20-24, 05
8	Indian Institute of Remote Sensing-Dehradun	Applications of Remote Sensing and GIS in Forest Management	June 20-24, 05

JULY-2005			
9	CMC-Limited, New Delhi	Internet Applications and Website Development	July 04-08, 05
10	National Academy of Audit and Accounts-Shimla	Financial Management & Audit Sensitization	July 11-15, 05
11	Kerala Forest Research Institute, Peechi, Kerala	Forest Management in Kerala-Sharing of some Experiences	July 18-22, 05
12	Xavier Institute of Management-Bhubmeshwar	Effective Leadership and Conflict Resolution	July 18-22, 05
13	Jungle Lodges & Resorts Limited, Bangalore	Eco-tourism-Assessment and Development	July 25-29, 05
AUGUST-2005			
14	Himachal Pradesh Institute of Public Administration, Shimla	Good Governance	August 01-05, 05
15	Forest Research Institute, Dehradun	Management of Non-Wood Forest Products for Sustainable Development	August 08-12, 05
16	The Energy and Resources Institute -New Delhi	Climate Change, Forests and Biodiversity	August 22-26, 05
17	Administrative Staff College of India-Hyderabad	Human Resource Development	August 22-26, 05
SEPTEMBER –2005			
18	Indian Institute of Forest Management, Bhopal	Environmental Impact Assessment and Auditing	September 05-09, 05
19	Palmyra, Centre for Ecological Land Use and Rural Development, Auroville-Tamil Nadu.	People's Participation in Watershed Management	September 12-16, 05

20	NIIT GIS limited, New Delhi	GIS: A Decision Tool for Working Plan and Wildlife Management	September 19-23, 05
21	Forest Survey of India, Dehradun	Application of remote sensing and geographical information systems in forest management	September 19-23, 05
22	Jungle Lodges & Resorts Limited, Bangalore	Eco-tourism – Wildlife and Habitat Management	September 26-30, 05
OCTOBER-2005			
23	H.M.N. Gaunekar, Institute of Management Training & Research, Goa	Leadership-Strategies for Success	October 03-07, 05
24	Indira Gandhi National Forest Academy, Dehradun	Policy and Legal issues in Forestry	October 03-07, 05
25	RCVP-Noronha Academy of Administration and Management, Bhopal	Economics of Conservation Areas	October 17-21, 05
26	Forest Training Institute -Jaipur	Learning Lessons from Externally Aided Projects	October 24-28, 05
27	Tamilnadu Forest Academy , Coimbatore (Tamilnadu Forest Department)	Forestry and Climate Change	October 24-28, 05
NOVEMBER-2005			
28	Indian Institute of Bio-Social Research & Development, Kolkata	Sustainability of Joint Forest Management	November 07-11, 05
29	World Wide Fund for Nature-India New Delhi	Impact of Global Warming and Climate Change on Forests and Biodiversity	November 21-25, 05
30	Centre for Training & Management of Soil, Water & Forests (under FTI), Kanpur	Captive Management of Wild Animals	November 21-25, 05

31	State Medicinal Plants Boards, Panchkula, Haryana	Conservation and Development of Medicinal Plants	November 21-25, 05
32	Kerala Forest Research Institute, Peechi, Kerala	Management Tropical Forest-Issues and Challenges	November 21-25, 05
33	Wildlife Institute of India, Dehradun	Managing Wildlife: Emerging Global Scenario and the Indian Experience	November 21-25, 05
DECEMBER-2005			
34	Regional Centre, National Afforestation and Eco-Development Board, Jadavpur University, Kolkata	Natural Resources Accounting	December 12-16, 05
35	State Institute of Public Administration and Rural Development, Agartala	Bamboo Resource Development for Livelihood Generation for Tribal and Rural Communities	December 12-16, 05
36	Andhra Pradesh Forest Academy – Dulapally, Hyderabad	Livelihood Enhancement Strategies in Forest Fringe Villages	December 12-16, 05
37	Gujarat Ecological Education and Research (GEER) Foundation, Gandhinagar	Biodiversity Conservation and Community	December 12-16, 05
JANUARY -2006			
38	Institute of Wood Science & Technology, Banagalore	Intellectual Property Rights Issues in Forestry	January 02-06, 06
39	The Energy and Resources Institute, New Delhi	Role of forestry in conservation, development and management of water resources	January 02-06, 06
40	Assam Forest Department, Guwahati	Sharing of experiences on wildlife management in Assam	January 02-06, 06
FEBRUARY-2006			
41	Hararyana Forest Development Corporation, Panchkula	Role in Agroforestry in increasing tree cover	February 06-10, 06

Sponsoring of long-term courses for IFS officers

The MoEF as the cadre controlling authority for the Indian Forest Service, have been sponsoring one/two week courses in the premier training institutions in the country. A number of other long-term courses on management and administration in government are also being organised by the premier institutions which help in upgrading the skills and knowledge of the officers equipping them for shouldering higher responsibilities in the government. However, many times because of the financial constraints, the state governments are not able to sponsor the willing officers for these courses. Keeping in view the above, the MoEF have decided to sponsor six IFS officers each for undergoing courses on “*Advanced Professional Programme in Public Administration*” (nine months course) at IIPA, New Delhi, “ *Executive Post-graduate Diploma in Business Programme*” (one year Course) at MDI, Gurgaon, Haryana and ” *National Security and Strategies Studies*” at National Defence College, New Delhi who get selected by the institutions concerned as per their normal selection procedures.

2 The interested officers may get in touch with the institutions and apply for admission. The course fee would be paid by the MoEF. The expenditure towards salary etc. of the officer has to borne by the state government/ organisation where the officer is working at the time of deputation for training. In case the number of applicants is more, the criteria for sponsoring of the officers by the MoEF selected by the institutes for the above mentioned courses would be as below:

- i. The officer should have not undertaken any long term foreign training course (three months and above)

- ii. The officer should not have participated in any long term course in India (more than six month)
 - iii. The officer should not have availed study leave (with normal pay as per All India Services Rules)
 - iv. In case number of applicants is more, the sponsoring of officers would be based on their assessment of the ACRs for the last 5 years
 - v. In a year, preference will be given to officers who are older in age, if more applications are received
 - vi. Salary shall be paid by state government/organizations concerned where the officer is serving at the time of deputation for the course
 - vii. Three slots each for each course, shall be reserved for the officers on deputation to the GOI/autonomous organisations of the GOI/officers on deputation outside their cadre states
- 3 The officers must follow all the prescribed procedures for applying for undergoing these courses (approval of the state government, cadre clearance etc.)

**PROMOTION-LINKED ADVANCED FOREST MANAGEMENT (AFM)
COURSES FOR
THE IFS OFFICERS**

Under the externally aided project funded by the DFID, UK and implemented by the IGNFA till March 2004, the MoEF have decided to organize promotion-linked advanced forest management courses for the IFS officers in their 10th, 17th and 21st years of service at IGNFA, Dehradun so as to equip them with the administrative and managerial skills to handle higher responsibilities in the forest departments and other government departments. These courses were started during the year 2000-2001. After completion of the DFID project, the AFM courses are being continued. Till March 2005, 17 courses have been organised in which 1268 IFS officers of various batches participated. However, the MoEF observed that participation in these courses has not been to the desired levels due to various reasons. In order to ensure full participation in these courses, the MoEF have issued guidelines to the state/UT governments and the IFS officers on these courses

No. 2-8/2003-RT dated 08th March 2004

Guidelines for participation in the AFM courses

- 1 The participation in promotion – linked ‘Advanced Forest Management’ training courses for the officers of Indian Forest Service in 10th, 17th and 21st years of service is compulsory.
- 2 The officers who did not participate in the courses on their own –
 - (a) would not be considered for central deputation for a period of five years.

(b) would not be given cadre clearance/considered for long as well as short term courses/workshops/seminars abroad for a period of five years.

3 In cases where the officers could not participate because of reasons beyond their control, the state government would certify the same and would recommend their nomination for participation in the special courses to be conducted every three years for the categories under 10th, 17th and 21st years of service. Detailed plan for such courses is chalked out by the IGNFA. The schedule for AFM courses being organised by IGNFA, Dehradun during 2005-06 is given below:

**Schedule of AFM Courses being organized by IGNFA,
Dehradun during 2005-06**

Course	1984 Batch	1988 Batch	1995 Batch
First	20.06.05 to 01.07.05	30.05.05 to 10.06.05	25.04.05 to 13.05.05
Second	22.08.05 to 02.09.05	11.07.05 to 22.07.05	25.07.05 to 12.08.05
Third	17.10.05 to 28.10.05	19.09.05 to 30.09.05	—
Fourth	21.11.05 to 02.12.05	07.11.05 to 18.11.05	—

Special courses (for the officers who could not participate in the courses when they were nominated)

Course I	1986 Batch	1992, 1993 & 1994 Batches	1990 & 1991 Batches
	12-12-05 to 23-12-05	09-01-06 to 24-01-06	06-02-06 to 24-02-06

In-service courses for the SFS Officers, FROs, DyROs, Foresters and Forest Guards

(Organised by the Directorate of Forest Education, Dehradun)

The Directorate of Forest Education, Dehradun organizes induction courses for the SFS Officers and Forest Range Officers in accordance with the “**Entrance and Training Rules**” revised and notified by the Government of India almost every ten years. The revised Rules have been notified vide GSR No. 465(E) dated 22st July 2004 (file No. 3-17/99 -RT). These Rules have been made applicable w.e.f. April 01, 2005.

2 Apart from this, the Directorate organises various refresher and theme-based courses in its constituent colleges for the SFS Officers, FROs, DyROs, foresters and forest guards. During the financial year 2004-05 a total number of nine such courses have been organised by the DFE in the colleges under its control constituent colleges. The details of induction, refresher and theme- based courses proposed to be organised during 2005-06 is given below. Complete details on the courses can be obtained from the DFE or principals of the respective colleges.

3. Vide letter No. 17-20/2003 RT dated 20.09.2004, the state/UT governments were requested to include whether they could organise courses for the frontline staff in their forestry training schools/institutes as per the guidelines formulated by the MoEF. All expenses for organising these courses will be reimbursed by the MoEF. There has been very good response from the SFDs. During 2004-2005, six states organised ten courses for the frontline staff in which 389 personnel participated.

Sl.No.	Course details	Type of the course	Financial Year 2005-2006
1.	Refresher courses for in-service ACF/SFS officers	Two week general refresher courses for in-service ACF/SFS officers	04
2.	Refresher courses for in-service Range Forest Officers	Two week general refresher courses for in-service Range Forest Officers at SFS College, Dehradun/Coimbatore /EFRC, Kurseong.	05
3.	Theme-based courses for ACF/SFS officers	Two week computer application courses (basic & advance), joint forest management & sustainable rural development, policy, legal issues and biodiversity conservation and climate change, project formulation and environmental impact assessment for in-service ACF/SFS officers at SFS College, Dehradun/ Coimbatore/ Burnihat and EFRC, Kurseong.	15
4.	Refresher courses for Forest Range Officers	Two week refresher courses for Forest Range Officers and training of trainers at SFS College, Coimbatore.	02
	Total		26

BASIC COURSE ON THE “ART OF LIVING”

VYAKTI VIKAS KENDRA –a non-profitable charitable organization organizes such courses on the “*Art of Living*”. To develop the full potential of life based on the ancient knowledge of the art of living and healing power of breath, daily practice of pranayam, meditation and other processes help the persons to bring about the elimination of stress from the system and integration of inner faculties. This also helps in increasing their will-power, stamina and motivation. These courses have been organized by the various Ministries in the Government of India like Ministry of Personnel, Public Grievances and Pensions, Ministry of Rural Development, Ministry of Consumer Affairs, Food and Public Distribution, Ministry of External Affairs, Ministry of Labour, ITDC, NIC etc. The MoEF has also sponsored a basic course for the IFS officers based in Delhi, organized during March, 2004. The officers found the course quite useful.

2 During 2004-05, the Ministry have decided to sponsor these basic course for all the IFS officers. The PCCFs of the states/ Heads of the forestry institutions have been requested to contact the Centres of *the ‘Art of Living’* in the respective states for organizing these basic courses for the willing IFS officers (*There are centres of the ‘Art of Living’ in most of the states*). The details of addresses and locations of the centres of the ‘Art of Living’ are available in the **website: www.artofliving.org**, and can also be obtained from **Vyakti**

Vikas Kendra, C-9, Green Park Extension, New Delhi (Phone No. 2656 2606/26611301). The course fee per participant is Rs. 1500/- out of which the Ministry would reimburse @ Rs.1350/- per participant, directly to the Vyakti Vikas Kendra in Delhi. An amount of Rs.150/- will be paid by the participant himself/herself. 138 IFS officers from five states (including MoEF and ICFRE) could avail benefit of these courses so far. The remaining officers can undergo these courses during 2005-06 also.

Annexure I

List of forestry training institutions under the Ministry of Environment and Forests

- 1 Director,
Indira Gandhi National Forest Academy
P O New Forest, Dehradun-248006
Uttaranchal
Phone: 0135-2754647, Fax: 2757314
E-mail:vinodrish@rediffmail.com
director@ignfa.org

- 2 Director,
Directorate of Forest Education,
P O New Forest,
Dehradun 248 006 Uttaraanchal
Tel: 0135-2757326, Fax: 2759125
Email:- thedfedun@yahoo.com

- i) Principal
State Forest Service College,
R.S. Puram, Post Box No. 1130,
Coimbatore – 641002 Tamil Nadu
Phone No. 0422 –245 0313/1605 Fax:- 2450439
Email: sfsc.cbe@vsnl.com

- ii) Principal
State Forest Service College,
G.S. Road, Burnihat 793101. (Assam)
Telefax: 0361 –2896246, 2896265 (O)

- iii) Principal
State Forest Service College,
P O New Forest
Dehradun 248 006. Uttaranchal
Phone No. 0135 -2754648
Telefax. 2754575 (O) 2754576 (R)
Web site: sfscollege.com
Email: sfsddn6@vsnl.net.in
- iv) Principal
Eastern Forest Rangers College,
P.O. St. Marys' Hills,
 Kurseong – 734 220, District Darjeeling
(West Bengal)
Telefax: 0354 -2331302
Email: udayan@md4.vsnl.net.in

Annexure-II

List of premier organisations/institutions/organizing refresher courses for the IFS officers

1. Director,
Indira Gandhi National Forest Academy
P O New Forest, Dehradun-248006
Uttaranchal
Phone: 0135-2754647, Fax: 2757314
E-mail: vinodrishi@rediffmail.com
director@ignfa.org
2. The Director,
Forest Survey of India, PO – KDMIPE,
Kaulagarh Road, DEHRADUN – 248 195.
(Tel: 0135-2754507, Fax: 2759104)
E-mail: fsidir@vsnl.com &
saibaldasgupta@hotmail.com
3. Mrs. Neeta Hooda, IFS
Indian Council of Forestry Research & Education,
P.O. New , Dehradun-248 006.
(Tel: 0135-2758614, Fax: 2750298)
E-mail: hoodan@icfre.org
4. The Director,
Forest Research Institute,
P.O. New Forest, Derhadun-248 006.
(Tel: 0135-2755277, Fax: 2757326).

5. The Director,
Institute of Wood Science and Technology,
18th Cross, Malleswaram, Bangalore-560 003.
(Tel: 080-23341731, Fax: 23340529)
E-mail: director@iwst.res.in

6. The Director,
Indian Institute of Forest Management,
P.B. 357, Nehru Nagar, Bhopal-462003.
(Tel No:- 0755-2775716/2773799, Fax No:-2772878).
E-mail: iifmmail@iifmb.res.nic.in

7. **The Director,**
Wildlife Institute of India, P.B.No.18,
Chandrabani, Dehradun-248001
(Tel: 0135-2640111 to 115 Fax: 2640117).
E-mail: wii@wii.gov.in

8. Dr. DR Ramesh Singh, IFS
Chief Conservator of Forests (Production) &
Member Secretary, State Medicinal Plants Board,
Haryana Forest Department
Govt. of Haryana, Van Bhavan, Sector 6,
Panchkula-134 109.
Ph.0172-2560706, Fax 256 3988

9. The Principal Chief Conservator of Forests,
No.1, Jeenis Ssalai,
Panagal Maligai,
Saidapet, CHENNAI-600 015.
Phone: 044-24344791, Fax: 24337307
E-mail: tnforest@md3.vsnl.net.in

10. The Principal Chief Conservator of Forests,
Assam Forest Department
Forest Headquarters
Rehabari, Guwahati-8.
Phone: 0361-2541319, Fax: 0361-2547336
11. Dr. Prashant Kumar Verma
Conservator of Forests (Training)/Secretary
Centre for Training & Management of
Soil, Water & Forests
Forestry Training Institute
Kidwai Nagar, Kanpur-208011.
Ph: 0512-2641342, Fax: 2604259
12. The Director,
Andhra Pradesh Forest Academy,
Dulapally, Hyderabad.
(Tel: 040-23097163, 23096734, Fax: 23237889)
13. The Director,
Forestry Training Institute,
J.L.N Marg, Bajaj Nagar Turn,
Jaipur-302 015 (Rajasthan State)
(Tel: 0141-2710034
Fax: 0141-2227836/2227832/2705116/2710034).
Email: ftijpr@hotmail.com
14. The Director,
H.P. Institute of Public Administration,
Fairlawns, Shimla-71012. Himachal Pradesh.
Phone : 0177-2647855, Fax: 2647855
E-mail: director@hipa.hp.nic.in

15. Joint Director,
National Academy of Audit and Accounts,
Railway Board Building, Shimla- 171 004.
Phone: 0177-2803178/2652458 Fax: 0177-2657994

16. Research Associate
The Energy and Resources Institute (TERI),
Darbari Seth Block, Habitat Place,
Lodhi Road, New Delhi:-110 003.
Phone: 011-24682100/11 Fax: 24682144/45.
E-mail: makhalid@teri.res.in

17. The Director,
Indian Institute of Bio-Social Research and Development,
3 A, Hindustan Road, Gariahat, Kolkata- 700029.
(Tel: 91-33-2464-3105/7370, Fax: 91-33-2466-6554).
E-mail: ibrad@glascl01.vsnl.net.in

18. Shri Vinod Arora,
Sr. Admn. Officer
Indian Institute of Management,
Prabandh Nagar, Off. Sitapur Road,
Lucknow-226013 (U.P.).
Phone: 0522-2734101 to 23, Fax: 2734025/26.
E-mail: mdp@iiml.ac.in

19. Dean of Studies,
Administrative Staff College of India,
Bellavista, Raj Bhavan Road,
Hyderabad-500082.
Phone : 91-40-23310460/0952, Fax: 23312954.
E-mail: padam@asci.org.in

20. The Director,
Palmyra, Centre for Ecological Land use
and Rural Development,
Auroville-Aurobrindavan-605101,
Villupuram District, Tamil Nadu.
(Tel:- 0413- 2677044/2678146, Fax:- 2677033).
E-mail: palmyra@auroville.org.in
21. The Director,
Vidya Vikas Mandal's,
Institute of Management Training & Research,
Shree Damodar College Complex,
Govind Ramnath Kare Road, P.O. Box 413,
Margao, Goa-403 601. Tansor, Comba,
(Tel: 0832-2732663, 09326128298 (M)
Fax: 0832-2732084).
E-mail: imtr_goa@yahoo.com
22. The Director,
Indian Institute of Management,
Bannerghatta Road,
Bangalore-560 076.
Tel: - 080-26993090/26582450, Fax No: - 26584050).
E-mail: malathis@iimb.ernet.in
23. Shri S.P.S. Kushwaha,
Prof. & Head
Indian Institute of Remote Sensing (IIRS),
Dept. of Space, Govt. of India,
4, Kalidas Road, P.B. No. 135, Dehradun- 248 001
0135-27445183, Fax No:- 2741987/2748041. Phone:-
E-mail:- spskushwaha@yahoo.com

24. The Director,
Xavier Institute of Management,
Xavier Square, Bhubneshwar-751 013.
(Tel: 0674-2300097/98, 3000688, Fax: 2300995)
E-mail:- neeraj@ximb.ac.in
25. Dy. General Manager (E&T),
CMC Limited, 9th Floor, Shahpuri Tower, C-58,
Community Centre (Behind Janak Cinema),
Janakpuri, New Delhi:- 110 058.0.
(Tel:- 011-25534692/3, Fax No:- 25624211).
E-mail: e&t@jv.cmc.net.in
26. Ms. Seema Joshi,
Consultant-Education Services
NIIT GIS Limited, 8, Balaji Estate,
Sudarshan Munjal Marg, Kalkaji,
New Delhi-110 019.
(Tel: 011-26203840, 26482054,
Fax: 26203838, 26203333)
E-mail: seemajo@niit.com
27. Director
State Institute of Public Administration
and Rural Development
A.D.Nagar, Agartala, Tripura (W), Pin-799 003
Tel. (0381) 237 4048 /237 4326 /223 0613 (O)
/ 230 8830 (R)
Fax:- (0381) 223 0613
Email: sipard@rediffmail.com

28. **Ms. Madhu Sharma**
Executive Director,
Jungle Lodges and Resorts Ltd.
2nd Floor, Shrungar Shopping Center,
M G Road, Bangalore – 560001
Phone Nos. 080 – 25597021/24/25, Fax – 080 25586163
Email – info@junglelodges.com
29. **Dr. J K Sharma,**
Director,
Kerala Forest Research Institute
Peechi- 680653, Thrissur, Kerala, India
Ph: +91-487-2699037
Fax: +91-487-2699049
E-mail: jksharma@kfri.org
30. **Sh. R. Sreenivasa Murthy, IFS**
RCVP Noronha Academy of Administration
and Management, Madhya Pradesh,
1100 qtrs. Near Shahpura Lake,
Post Bag No. 506, Bhopal- 462 016.
(Ph: 0755-25279098 Fax 22464244)
E-mail: cfmpacademy@rediffmail.com
31. **Shri P.K. Sen,**
Director,
World Wide Fund for Nature-India
172-B, Lodi Road,
New Delhi-110 003
(Tel: 011-51504815 to 18, Fax: 51504779/51504795)
E-mail: wwfindia@vsnl.net

32. Dr. Asis Mazumdar,
Joint Coordinator,
Regional Centre, National Afforestation
& Eco-Development Board,
Jadavpur University, Kolkata-700 032
(Tel: 033-2414-6979, Fax: 2414-6886)
E-mail: rc_naebj@vsnl.net
33. Shri B.K.P. Sinha,
Director,
Amity School of Natural Resources & Sustainable
Development
AKC House, E-27, Defence Colony
New Delhi – 110 024
Tel: 011-24339700/1960 Fax: 24339100/9400
E-mail: balkrishanps@amity.edu
34. Mr. C.N. Pandey
Director,
Gujarat Ecological Education &
Research (GEER) Foundation
Indroda Nature Park,
P.O. Sector-7, Gandhinagar-382007, Gujarat
Ph: 91-79-23221385/23226829, Fax: 23241128
E.mail : geer@guj.nic.in
35. Shri B. D. Monga
Managing Director & Chief Conservator of Forests
Haryana Forest Development Corporation,
Govt. of Haryana, Van Bhawan, Sector-6
Panchkula - 134109
Ph.: 0172-2564463

S No.	Name of the State	Name of the PCCF/Head of SFD. S/Shri	Office Address	Phone (Office)	Phone(Res.)	Fax E-mail
1.	Andaman & Nicobar Islands	S.R. Mehta	Principal Chief Conservator Of Forests, Department of Forests, Govt. of Andaman & Nicobar Islands, Van Sadan, Haddo Port Blair – 744101	03192- 233233	01392- 33260	03192- 230113
2.	Andhra Pradesh	S. K. Das	Principal Chief Conservator Of Forests, Aranya Bhawan, Tuljaguda, APHP Bldg. MJ. Market, Hyderabad - 500001	040 – 24745588	040 – 23390258, 9440810001 (M)	
3.	Arunachal Pradesh		Principal Chief Conservator Of Forests, Department of Environment and Forests Zero point, Itanagar –791111	0360 – 212310	0360 – 2212501	0360 - 212361 / 214020
4.	Assam	S. Doley	Principal Chief Conservator Of Forests, Department Of Forests, Rehabari, Guwahati – 781008	0361 - 2541 319	0361 – 2266976	0361 - 2547 336
5.	Bihar	Dr. M. K. Sharma	Principal Chief Conservator Of Forests, Sachivalaya Patna 80001	0612 - 228672 / 202365 / 4	0612 - 202366, 9835192535	0612 - 210920
6.	Chandigarh	Ishwar Singh	Deputy Conservator Of Forests, UT Administration of Chandigarh, Architect Building, Sec. 19B, Mahliya Marg, Chandigarh - 160019	0172 - 782645 / 775951	0172 - 545225, 9814010161	0172 - 782645
7.	Chhatisgarh		Principal Chief Conservator of Forests, Government of Chhatisgarh, Raipur- 402001	0771 - 331121	0771 - 331322	0771 - 331110
8.	Dadar And Nagar Haveli	Richard D Souza	Conservator of Forests, Department of Forests Silvassa - 396230 UT of Dadar & Nagar Haveli	0260 - 254974 / 75	0260 - 42815	0260 - 40283
9	Daman & Diu	Richard D Souza	Conservator of Forests, Secretariat, Fort Area, Moti Daman,Daman 396210 UT of Daman and Diu	0260- 54700	0260- 54777	0260- 54775

S No.	Name of the State	Name of the PCCF/Head of SFD. S/Shri	Office Address	Phone (Office)	Phone(Res.)	Fax E-mail
10.	Delhi	A.K. Sinha	Conservator of Forests, Department of Forests, Government of NCT of Delhi, Vikas Sadan , Delhi – 110007	011 - 3378513	011 - 4649066	011 - 3981263
11.	Goa	Dr. Devendra Pandey	Chief Conservator of Forests, Government Of Goa , Panaji - 403001	0832 - 225926 / 4747		0832 - 224747 - Tf
12	Gujarat	M. L. Sharma	Principal Chief Conservator of Forests, Government of Gujarat, 14, Jiwaji Bhai Mehta Bhawan, Sachivalaya, Gandhi Nagar- 382010	079-23229917	079-23254123, 9825049044 (M)	02712 - 20166 / 21097 (WI)
13	Haryana	J. P.L. Srivastava	Principal Chief Conservator of Forests, Sector- 6, Panchkula- 134109	0172 – 563988 - Tf	0172 – 2624595	0712 - 563988
14	Himachal Pradesh	R. A. Singh	Principal Chief Conservator of Forests, Talland, Shimla - 171001	0177 - 2623155/223155	0177 - 2624595	0177 - 224192 - Tf
15	Jammu & Kashmir	S. D. Swantantra	Principal Chief Conservator of Forests, Van Bhawan Forest Complex, Below Gumat, Jammu - 180001	0191 - 2547276, 0194 - 455753	0194 - 452511, 0191 – 554283 9419011648 (M)	
16	Jharakhand	J. L. Srivastava	Principal Chief Conservator of Forests, Hinoo, Ranchi- 834003	0651 - 2480455	0651- 2481850 2480880	0651 - 2480413
17	Karnataka	S. N. Rai	Principal Chief Conservator of Forests, Aranya Bhawan, 19th Cross, Malleswaran Bangalore – 560003	080 - 23341484	080 - 3617648	080- 3346389
18	Kerala	R.P. Sharma	Principal Chief Conservator of Forests, Vanalakshmi Vazhuthacand, Thiruvananthapuram – 695014	0471 - 2321610	0471 - 2721374	0471 - 2320554 / 2322217

S No.	Name of the State	Name of the PCCF/Head of SFD. S/Shri	Office Address	Phone (Office)	Phone(Res.)	Fax E-mail
19	Lakshadweep Administration	George Jacob	Deputy Conservator of Forests, Lakshadweep Administration , Kavaratti- 682555	04896- 62278	04866- 62504	
20	Madhya Pradesh		Principal Chief Conservator of Forests, Satpura Bhawan, Ground Floor, Bhopal - 462004	0755 - 550809	0755 - 551328	0755 - 551561
21	Maharashtra	V.K. Singh	Principal Chief Conservator of Forests, Department of Forests, Govt. of Maharashtra, Ramgiri Road, Civil Lines, Near Government Press, Nagpur 440001	0712 – 5665925	0712-2550770	
22	Manipur	Seiboi Singsit	Principal Chief Conservator of Forests, Sanjinthong, Imphal – 795001	0382 - 220165	0382 - 229440	0382 - 224307/2 22504
23	Meghalaya	P.K. Nautiyal	Principal Chief Conservator of Forests, Shillong- 793001	0364-2220414	0364-2224339	
24	Mizoram	S.N. Kalita	Principal Chief Conservator of Forests, Aizawl - 796001	0389 – 2325727	0389 – 2233344	0389 - 322733/3 25371
25	Nagaland	N. Lolenmeren Ao	Principal Chief Conservator of Forests, Kohima - 797001	0370 – 2271144	0370 - 2240787	0370 - 221472
26	Orrisa	P. R. Mohanti	Principal Chief Conservator of Forests, Aranya Bhawan, Plot No. G.D. 2/12 Bhubaneswar	0674 - 2300853	0674 - 408213	0674 - 300049
27	Pondicherry	Dr. P Devraj	Deputy Conservator Of Forests, Pondicherry Administration, Pondicherry- 605004	0413- 251493	0413- 254277/ 336088	0413- 251494/ 254099
28	Punjab	A.S.Dogra	Principal Chief Conservator Of Forests, 17, Bag Building, Sector – 17, Chandigarh- 160017	2701325		2702919
29	Rajasthan	R.P. Kapoor	Principal Chief Conservator Of Forests, Rajasthan Van Bhawan ,Jaipur - 302009	0141 - 2380391- Tf	0141- 2227391	

S No.	Name of the State	Name of the PCCF/Head of SFD. S/Shri	Office Address	Phone (Office)	Phone(Res.)	Fax E-mail
30	Sikkim	T.R.Sharma	Principal Chief Conservator Of Forests, Deorali, Gangtok- 737102	03592- 281385	03592- 26381	03592- 281778
31	Tamil Nadu	J.C. Kala	Principal Chief Conservator Of Forests, No. 1, Jeenis Road, Panagal Maligai, Saida Pet Chennai- 600015	044- 24348059	044- 22151161 9841045161 (M)	044- 24337307
32	Tripura	M. A. Khan	Principal Chief Conservator Of Forest, P.O. Kunjvan, Agartala- 799001	0381- 2323779	0381- 229476	0381- 225253
33	Uttar Pradesh		Principal Chief Conservator Of Forests, Ranapratap Marg, Lucknow :- 226001	0522- 2206168	0522- 2205209	0522- 2206181
34	Uttaranchal	Dr. B.S Burfal	Principal Chief Conservator Of Forests, Dehradun- 248006	0135- 2746934 94120553606	2743678	0135- 746934
35	West Bengal	G.B. Thapliyal	Principal Chief Conservator Of Forests, Aranya Bhawan, Block- La- 10a, Sector -3 Salt Lake City, Kolkatta – 700098 e.mail – pccfwb@vsnl.net	033-23358580	033- 4747875 9830282563 (M)	033- 23358756

List of HRD nodal officers nominated by the states

S. No	State	Name of Nodal Officer	Postal Address, Phones, Fax and E-mail	Name of Alternate Officer (YOA)	Postal Address, Phones, Fax and E-mail
1	A & N	SS Choudhury CCF(Adm., Vigilance) & SS(Environment & Forests)	Special Secretary (Environment& Forests) Andaman & Nicobar Administration Van sadan, PO- Haddo Port Blair, A & N Islands Pin-744102 Ph: 03192-230048(O), 03192-233682(R) Fax No: 03192-230113	RSC Jayaraj DCF(HQ) and Dy Secretary(Environme nt & Forests) A&N administration	Nicobar Administration Van sadan, PO- Haddo Port Blair, A & N Islands Pin-744102 Ph: 03192-233233(O) 03192-229803(R) Fax No: 03192-230113
2	Arunachal Pradesh	CCF(A&V) (HRD/Trg.) (AGMUT:76)	O/o PCCF & Prl. Secy (E&F), AP Itanagar-791111 2212243(O) 2203576 (R) 0360-2212243 (F)	Hibu Dole DCF (HQs)	o/o PCCF & Prl. Secy. (E&F), AP Itanagar-791 111 Tel 2212547 (o), 2212688 (R), 0360-2214020 (F)
3	Assam	Y. Suryanarayan CF, Wildlife (HQ)	O/o CCF, Wildlife Assam, Rehabari, Guwahati-8		

S. No	State	Name of Nodal Officer	Postal Address, Phones, Fax and E-mail	Name of Alternate Officer (YOA)	Postal Address, Phones, Fax and E-mail
4	Daman Diu & Dadra & Nagar Haveli	Richard D'Souza CF, Daman Diu & Dadra & Nagar Haveli (AGMUT:80)	o/o CF Secretariat, Moti Daman, Daman. 0260-2230963 (O) O/o CF Secretariat Silvassa UT of Dadra & Nagar Havelie Silvassa, Silvassa Ph.0260-2645450 (O), (F) 2642815	A D Nikam DCF (T)	Forest Deptt. Silvassa UT of Dadra & Nagar Haveli, Silvassa Ph0260-2642734, 2643594
5	Delhi	Shri Subhash Chandra, DCF (HQ) (AGMUT:88)	Deptt. of Forests & Wildlife, 2 nd floor, 'A' Bhawan, New Delhi-110002. Ph.- 23370506(O), 23378513 (Fax)	Shri R.K. Gupta Dy. Conservator of Forests	Deptt. of Forests & Wildlife, Central Division, Kamla Nehru Ridge, New Delh110007. Ph. 23853561(O). 26888997 (R)
6	Goa	DNF Carvalho DCF	Government of Goa Department of Personnel Secretariat, Porvorim. Panaji		
7	Kerala	P Premachandran Nair CCF (IHRD) (KL:77)	Social Forestry Complex (Rajiv Gandhi Nagar, Vattiyoorkavu. PO Thiruvananthapuram-13. (O) 0471-2362291, R:2362291 ccfihrd@yahoo.com	S Sankaran Thampi Technical Assistant to CCF (IHRD)	Social Forestry Complex (Rajiv Gandhi Nagar, Vattiyoorkavu. PO Thiruvananthapuram- 13. Tel. Office 0471-2362291, R: 2362291 EM: ccfihrd@yahoo.com

S. No	State	Name of Nodal Officer	Postal Address, Phones, Fax and E-mail	Name of Alternate Officer (YOA)	Postal Address, Phones, Fax and E-mail
8	Madhya Pradesh	AK Jain CCF (HRD & PAU) (MP:79)	O/o PCCF Satpuda Bhavan Bhopal-462004 0755-2552403 (O). 2430935 (R) 2552403 (F) email:arvindjainbhopal@yahoo.com	LR Burdak CF (HRD)	0755-2552403 (O), 2462517 ® 2552403 (F) E-mail: lrburdak@indiatimes.com O/o PCCF Satpuda Bhavan, Bhopal- 462004.
9	Maharashtra	CCF (Personnel), Nagpur For IFS officers	CCF (Personnel) O/o PCCF MS, Van Vigyan Bhavan Ramgiri Road CIVIL Lane Nagpur Maharashtra Pin 440001 Ph.0712-2556909		
10	Maharashtra	S.N. Khurana (MS:79) (For officers other than IFS) CCF (R,T & Edu.)	CCF (R,E & T) New PMT Building Swargate Pune Maharashtra. Pin411 042 Ph.020-24473255	R.R. Sahay (MS:81)	CF.(Edu) o/o CCF (R,E & T) New PMT Building Swargate Pune Maharashtra. Pin411 042 Ph.020-24473255
11	Mizoram	C Ramhluna, CCF	Shivaji Tillah, Khatla, Aizawl, Mizoram, Pin- 796 001. Tel. 2315538 (O) 2333443/2311366 (R) 9436141052 (M)	H C Dhawan, CF (R&D)	New Capital Complex, Khatla, Aizawl, Mizoram- 796001. Tel. 2312071 (O)
12	Nagaland	Dr. CL Goel CCF (NG:77)	o/o PCCF Nagaland, Kohima-797-001		
13	Orissa	Smt. Rebecca Nayar, CF(adm.)	O/o the PCCF, Orissa, BBSR-23 Tel: 0674-2300187(O) 0674-2555138(R) email: rebeccanayar@hotmail.com	Antrayami Mohanty Establishment Officer-II	O/o the PCCF, Orissa, BBSR-23 Tel: 0674-2300992 Extn-206

S. No	State	Name of Nodal Officer	Postal Address, Phones, Fax and E-mail	Name of Alternate Officer (YOA)	Postal Address, Phones, Fax and E-mail
14	Sikkim	JD (Planning & Administration) (for IFS & SFS officers) Addl. Secretary, (Forests) (for Range officers & other frontline staff)		DFO (HQ/Planning), Gangtok JS (Forests)	
15	Tamil Nadu	Sh. P A Mani CF (HRD)	O/o PCCF Panagal Maligai No.1, Jeenis Road Saidapet, Chennai-600015. Ph.044-24364958. Res.26461280 e-mail: tnforest@vsnl.com		
16	Tripura	P L Agarwal DCF (HQs)	Aranya Bhavan Gurkhabasti, PO Kunjaban Agartala-799006. 0381-2301366 (o), 2351434 (R) 2325252 (F) sonal.@rediffmail.com as_humama@sancharnet.com.in	S Talukdar CCF, Tripura (Admn)	Aranya Bhavan Gurkhabasti, PO Kunjaban, Agartala- 799006 0381-2322271 (O) 2351196 (R) 2323779 (F) 2325253 (F) EM: sanatantalukdar@hotmail.com
17	U.P	Dr. Prashant Verma (1984)	Forestry Training Institute, UP. Kidwai Nagar, Tarbangalia ,Kanpur-Pin:	Shri Viswjeet Banerjee, DFO	Forestry Training Institute, UP. Kidwai Nagar Tarbangalia, Kanpur
18	Punjab	Kuldip Singh, CCF(Hq.)	CCF (Hq.) 17 Bays Building, Sector 17, Chandigarh 2701207 (O)/2749256 (R) 0172-2702919 (F) E-mail: kuldip1953@excite.com		

COURSE CONTENTS
for the short-term refresher courses for the IFS officers sponsored during the
year
2005-06

1 Topic: Application of RS & GIS in Forestry

[Forest Survey of India-Dehradun]

Course Contents

- i. Use of modern tools in GIS
- ii. Application of Remote Sensing and GIS in forestry
- iii. Practical exposure on interpretation of satellite imageries
- iv. Case studies on use of GIS in forestry especially in working plan preparation, fir risk zonation etc.
- v. Latest advancements on applications of these technologies
- vi. Demonstration on the use of handheld GPS

2 Topic : Management of NWFP for Sustainable Development

[Forest Research Institute-Dehradun]

Course Contents

- i. NWFP based forest management-problems & prospects
- ii. Natural Resource Inventory and survey on non-wood plants
- iii. Cultivation and marketing of medicinal plants
- iv. NWFP based JFM in Good Forests
- v. Legislation for biodiversity conservation
- vi. Cultural and economic importance of NWFP
- vii. Green Technologies in value addition of NWFP

- viii. Marketing information system
- ix. Sustainable management of NWFP of animals origin
- x. Green certification of NWFP
- xi. Internal conventions and NWFP trade

3 Topic : Applications of remote sensing and geographical information system in forest management

[Indian Institute of Remote Sensing-Dehradun]

Course Contents

- i. Remote sensing: fundamentals and technology
- ii. Geographic Information System (GIS): fundamentals and technology
- iii. Special properties of vegetation
- iv. Visual image interpretation for forest mapping and change detection
- v. Applications of remote sensing and GIS in forest change detection and monitoring
- vi. Digital image interpretation for forest cover mapping
- vii. Remote sensing in forest disease detection and monitoring
- viii. Remote sensing and GIS in growing stock assessment
- ix. Introduction to revision and updating of forest working plans using remote sensing and GIS
- x. Forest fire risk assessment modeling
- xi. Wildlife habitat evaluation using geospatial modeling
- xii. Biodiversity characterization at landscape level using remote sensing and GIS
- xiii. Forest cover mapping in India
- xiv. Mapping of tree cover outside forest areas
- xv. Forest inventory planning using remote sensing

xvi. GIS for forest management and biodiversity in India

xvii Environmental impact assessment

xviii Eco-developmental planning in India

[Focus may be given on topics i to viii with more hands on practice on GIS. For other topics some introduction may be given]

4 Topic : Wildlife management- issues, concerns and practices

[Wildlife Institute of India, Dehradun]

Course Contents

i. Wildlife biodiversity & conservation

ii. Protected area management

iii. Management planning

iv. Wildlife health

v. Ecotourism

vi. Important provisions of the Wildlife (Protection) Act, 1972

vii. Trade and national & international legislations related to wildlife/Wildlife research

viii. Visit to adjoining Protected Area to apprise the participants of the burning issues concerning the wildlife conservation.

5 Climate Change on Forests and Biodiversity

[The Energy and Resources Institute (TERI)-New Delhi]

Course Contents

i. Climate change & Sustainable development

ii. Carbon sequestration through management of forests

iii. Impact of climate change on forest ecosystem

iv. Implementation of India's commitment to UNFCCC

v. Adaptation and mitigation options

- vi. Science of climate change
- vii. Inventory preparation for carbon sequestration & emission
- viii. Impact of climate change on water resources
- ix. Role of forestry in climate change
- x. Response of international community- UNFCCC
- v Kyoto Protocol
- v Latest negotiations COP-9
- xi. Land use, land use change and forestry issues Impact of climate on agriculture

6 Topic: Policy & Legal Issues in Forestry

[Indira Gandhi National Forest Academy-Dehradun]

Course Contents

- i. IFA 1927 and its amendments
- ii. Immunity to public servants under 197 CrPC
- iii. Contempt of Court
- iv. Flaws in the court procedures and loop holes in pursuing wildlife offences
- v. Wildlife (Protection) Act, 1972 – need for amendment
- vi. Forest (Conservation) Act, 1980
- vii. International conventions-India's role
- viii. EP Act 1986
- ix. Patent regime in India
- x. JFM-policy issues
- xi. Biodiversity Act 2002
- xii. Judicial Activism

7 Topic: Eco-Tourism Assessment & Development

(Jungle Lodgers and Resorts Ltd- Bangalore)

Course Contents

- i. Understand the basic elements of ecotourism, the market and market trends.
- ii. Use ecotourism to expand economic development for a destination
- iii. Ecotourism and local community participation
- iv. Assessing ecotourism potential and guidelines for operating a successful ecotourism business
- v. Develop and maintain a unified environmentally sustainable theme for your destination
- vi. Implement environmental project analysis
- vii. Establish strategic alliances and partnerships
- viii. Establish an ecotourism planning process at the local and regional levels
- ix. Ecotourism policy at national and state level
- x. Understand the vital role of interpretation and education in adding value
- xi. Providing facilities for tourists at ecotourism sites

8 Topic : People's participation in watershed management

*[Palmyra, Centre for Ecological Land use &
Rural Development, Auroville]*

Course Contents

- i. Introduction to Auroville – A video show and an introductory talk about Auroville
- ii. Field visit to Palmyra project site
- iii. Vegetation mapping, presentation of high end GIS application

- iv. Participatory irrigation management-presentation by community mobilization and tank rehabilitation teams, Palmyra ICEF Project
- v. Activities of the women self help groups- presentation by women team, Palmyra ICEF Project
- vi. Presentation on the integrated wasteland development programme by IWDP Team, Palmyra
- vii. Visit to Pitchandikulam- a model for traditional medicinal plants and healing practices
- viii. Aurobindo ashram lake estate- a model for wasteland reclamation.
- ix. Presentation and discussion and agroforestry
- x. Visit to fossil park, Thiruvakkarai
- xi. Panel discussion on improvement in the working of forest departments – need for and career development through training and improvement of skills
- xii. Visit to tropical dry evergreen reserve forests and other identified areas in Kalivelli watershed

9 Topic : Forestry issues in climate change

(Indian Council of Forestry Research & Education-Dehradun)

Course Contents

- i. Policy and international negotiations
 - a. Formulation of United Nations framework convention on climate change and the IPCC
 - b. Kyoto protocol: What it entails, significance
 - c. Kyoto protocol: Implications for developed and developing nations
- ii. Science of climate change and forests

- a. World forests and climate change
- b. Predicting impacts of climate change on forests new directions in science
- c. Impacts and vulnerability of Indian forests to climate change
- d. Combating climate change future plans and COP 9
 - iii. Landuse, landuse change and forestry
 - a. Forests as source of GHG's, CO₂ and CH₄
 - b. Forest as carbon sinks
- c. Managing forests for enhanced carbon storage: Indian context
 - iv. National efforts in climate change
 - a. Central government efforts: overview of national efforts
 - b. COP 8 in Delhi: achievements
 - c. COP 9 in Milan: An analysis from forestry perspective
- d. Predicting GHG emissions and carbon stock in various sectors; NATCOM etc.
 - v. Clean Development Mechanism
 - a. CDM: beneficiaries, criteria, sectors engaged in India
 - b. CDM and landuse change and forestry: negotiations in Bonn (SBSTA 18)
 - c. Protocol for developing "Afforestation" and "Reforestation" projects under CDM
 - d. Case study for demonstrating C feasibility projects using PROCOMAP model
 - vi. Carbon Trading
 - a. The concept, beneficiaries, the market, financial and economic analysis
 - b. Trading carbon in tree biomass: scope in India
 - c. agro and farm forestry for carbon sequestration; Is fast wood good wood?

- d. Carbon sequestration and sustainable forestry: match or mismatch?

10 Topic : Economics of conservation areas

[RCVP Noronha Academy of Administration & Management, Bhopal]

Course Contents

- i. Importance and scope of environmental economics
- ii. Basic introduction to economics
- iii. Principle of economics
- iv. Rate of marginal return
- v. Cost benefit analysis
- vi. Net present value
- vii. Internal rate of return
- viii. Examples of calculations
- ix. Environmental costs
- x. Environmental benefits
- xi. A theory of natural heritage
- xii. Methods of valuing environmental costs and benefits
- xiii. Case studies of conservation areas
- xiv. Management of conservation areas
- xv. Increasing financial returns of conservation areas
- xvi. Global perspective

11 Topic : Learning lessons from implementation of Externally Aided Project (EAP)

[Forest Training Institute-Jaipur]

Course contents

- i. External assistance in forestry-An overview; project formulation; special considerations in projects envisaging external assistance

- ii. Implementation plan and strategies for EAPs- some considerations
- iii. Reversing deforestation-a case study of Baran Forest Division
- iv. HRD planning in EAPs
- v. JFM & women's participation in forestry projects
- vi. Rural development issues in forestry projects
- vii. Information technology inputs: MIS/GIS
- viii. Monitoring process change through EAP in other areas of forestry

12 Topic: Human Resource Development
(Administrative Staff College of India-Hyderabad)

Course Contents

- i. Current trends in human resource management
- ii. Leadership
- iii. Changes and challenges in forestry sector
- iv. Communication and conferencing skills
- v. Conflict management and negotiation skills
- vi. Stress management
- vii. Motivation and empowerment
- viii. Managing change
- ix. Information technology of human resource development

13 Topic: Good Governance
*[Himachal Pradesh Institute of Public
Administration-Shimla]*

Course Contents

- i. Concept of good governance
- ii. Essential attributes of good governance
- iii. Transparency

- iv. Predictability
- v. Accountability
- vi. Participation

- vii. Citizen's Charter and good governance
- viii. Social Justice
- ix. Limited resources-unlimited desires-how to minimize corruption
- x. Managing politicians, people and press
- xi. Experience sharing
- xii. Best practice field visit

14 Topic: Sustainability of Joint Forest Management

*(Indian Institute of Bio-social Research and
Development-Kolkata)*

Course Contents

- i. Historical background of JFM
- ii. Fundamental knowledge of forests as ecosystems
- iii. Concept and approaches to sustainable forest management
- iv. Challenges in developing appropriate social system for sustainability
- v. Indicators and assessment of biodiversity conservation and forest status
- vi. Understand the role of humans can play in sustaining forests, value addition and marketing
- vii. Comprehend the role of forest in meeting society's needs on sustainable basis
- viii. How to involve community willingly and effectively to take action regarding forest resource management
- ix. How to educate the community for clear understanding of what forests are, why they are important, what is their involvement in forest management

- x. Participatory biodiversity monitoring and assessment
- xi. Gender sensitization for sustainability

15 Topic : Intellectual Property Rights in Forestry Issues

(Institute of Wood Science & Technology- Bangalore)

Course Contents

- i. General introduction of IPR and its protection
- ii. Legal perspective of IPR in changing global order.
- iii. Analysis of conflicts on implementation of World Trade Organization Agreements, especially TRIPS and convention on biological diversity
- iv. Plant variety protection in the Indian context
- v. Bio-diversity and IPR
- vi. Planning and execution of patents
- vii. Pharmaceutical and IPR regime in India
- viii. Environmental law and IPR
- ix. Herbal patents
- x. WTO and forest and IPR
- xi. Tree biotechnology and IPR
- xii. IPR in forestry-A public sector perspective.

16 Topic : Forest Management in Kerala-Sharing of some experiences

(Kerala Forest Research Institute, Peechi-Kerala)

Course Contents

Forest Administration

- i. Experience from World Bank Aided Kerala Forestry Project Forest Technology
- ii. Establishment and Management of Forest Seed Centre - A joint venture of KFD

- iii. and KFRI
- iv. Visit to Kerala Forest Seed Centre
- v. Improving productivity of plantations: special reference to nursery and plantation practices in Kerala.
- vi. KFD Experience
- vii. b) Nursery management
- viii. Clonal propagation
- ix. Plantation management
- x. Thinning Schedule - Modelling Forest Administration
- xi. Applications of Biotechnology in forestry
- xii. Natural forest ecosystem: functions and dynamics Forest Stations: success story from Kerala, Participatory Forest Management
- xiii. Participatory fire protection
Ecotourism and Van Samrakshana Samithies
Wood and Non-wood Product management
- xiv. Timber Certification
Wood and Non-wood Product management
- xv. Non wood Forest products and their management in Kerala Bamboo and Rattan resources: enhancement and utilization – KFRI experience

Study Tour

- **Oushadhi**
- **KFRI Field Research Centre**
- **Sacred grove (*Iringole Kavu*)**
- **Bamboo board factory Chettikulam**
- **Central Nursery**
- **PCK Plantations (oil palm)**
- **Vazhachal -Ecotourism Wildlife management**
- xvi. Management of elephants in captivity at *Anathavalam*, Guruvayoor
- xvii. Visit to KFRI laboratories

17 Topic : Leadership -strategies for success
*(H.M.N. Gaunekar Institute of Management Training
& Research, Goa)*

Course Contents:

- i. Need for Leader Managers
- ii. Cultivate Leadership Competencies
- iii. Team Leadership
- iv. Change Happens⁸⁰
- v. Anticipate Change
- vi. Monitor Change
- vii. Adapt to Change Quickly
- viii. Change
- ix. Enjoy Change
- x. Be Ready to Change Quickly and Enjoy It Again
- xi. Emotional Intelligence/Emotional Quotient and
Difference between emotional Intelligence and Natural Intelligence
- xii. Process of Emotional Intelligence Building
- xiii. Being Successful
- xiv. Four Corner Stone Model
- xv. Four Branches of Emotional Intelligence
- xvi. Three Driving Forces of Emotional Intelligence Vital to Business
- xvii. Emotional Competence and How to Develop It
- xviii. How Emotional Intelligence Affects the Managerial Activities
- xix. Emotional Quotient Measurement

18 Topic : Bamboo Resource Development for Livelihood Generation for Tribal & Rural Communities

*(State Institute of Public Administration & Rural
Development-Agartala)*

Course Contents

- i. Overview of bamboo resources in India
- ii. Most common species of bamboos and their usage
- iii. Potential of bamboo resources for livelihood generation in rural areas
- iv. Bamboo resources utilization for livelihood – scenario in the State of Tripura
- v. Bamboo and environmental conservation
- vi. Bamboo in fishery and sericulture development
- vii. Bamboo and energy – an eco-friendly alternative
- viii. Forest Development Agencies and Bamboo – scope for cultivation and economic benefits to Joint Forest Management Committees
- ix. Various schemes in operation for financing cultivation, propagation and marketing of bamboo
- x. Field visit to see different bamboo plantations of different species, utilization of bamboo, livelihood generation for tribal and non-tribal communities
- xi. Field visit to see different aspects of bamboo flowering management.

19 Topic : Internet Applications & Wildlife Development

(CMC Ltd. -New Delhi)

Course Contents

- i. Networking essentials
- ii. Internet technology
- iii. Internet services
- iv. HTML & designing web pages using front page
- v. VB script
- vi. Configuring MS-IIS (Internet Information Server)
- vii. Developing websites using active server pages technology

20 Topic : Impact of Global Warming and Climate Change on Forests & Biodiversity

(World Wide Fund For Nature - India)

Course Contents

- i. Greenhouse gas emission & global warming
- ii. International treaties & negotiation on atmospheric science & climate change
- iii. Kyoto protocol and market based mechanism for carbon trading
- iv. Integrating biodiversity concerns in climate change – possible conflicts and synergies between climate change mitigation activities and biodiversity
- v. United Nations Framework Convention on Climate Change (UNFCCC) and international conventions – CBD, the Ramsar convention world heritage sites.
- vi. Inter Governmental Panel on Climate Change (IPCC) and its findings
- vii. Climate change & energy security
- viii. Climate change and the forest ecosystems.

- ix. Climate change and the freshwater ecosystems
- x. Climate change and agricultural productivity
- xi. Climate change and ocean and marine ecosystems
- xii. Climate change & human health
- xiii. Vulnerable ecosystems in India
- xiv. Climate change and joint forest management in India
- xv. Modelling climate change
- xvi. International response strategy (climate change mitigation & adaptation)
- xvii. Climate change – WWF’s initiatives at global scale
- xviii. “Power switch” public campaign
- xix. Mainstreaming climate change concerns in country’s developmental planning
- xx. Climate change: future challenges for India

21 **Topic : Financial management & audit Sensitization**

(National Academy of Audit & Accounts-Shimla)

Course Contents

- i. Budget Management & Fiscal Responsibility
- ii. Accounts as an aid to management-Opportunities and limitations
- iii. Externally aided Projects: Funding and Implementation, Role of financial advice system
- iv. Vetting of Financial Proposal, Issues in purchase, contracting & Inventory management
- v. Effective financial management of forest projects/schemes
- vi. Project appraisal, Risk analysis, Fraud awareness.
- vii. Executive responsibility in respect of Audit of CAG, Audit of Environment – Emerging Issues
- viii. Audit of Forest – Receipts/Typical cases of financial & operational mismanagement

- ix. Lessons from audit Issues in Forest management with special reference to Wild Life
- x. A panel discussion on a selected topic relating to Financial Management or audit.

22 Topic : GIS: A Decision Tool for Forestry Planning and Management
(NIIT, New Delhi)

Course Contents

Introduction to GIS

- i. What is GIS ?
- ii. How does a GIS work ?
- iii. Data Representation & Models
- iv. Capturing GIS Data, GIS Data Sources, Data Integration
- v. What's Special about GIS – Visualization, Information retrieval, Network, Terrain, Criterion and Change Analysis
- vi. GIS in Forestry – Some Applications
- vii. GIS in Joint Forests Management, GIS in Forests Change Detection, GIS in Forest Resources Management and Utilization, GIS in Site suitability for Plantations & re-forestation, GIS in Wild Life Conservation and Migration, GIS in Watershed Treatment on Forests, GIS in Forest Disaster Management, GIS in Eco-Tourism Development
- viii. Map Surfing

GIS in my Work – I

- i. Querying geographic locations
- ii. Thematic Mapping & Classifications
- iii. Symbolizing Vector / Raster Data, Creating new Symbols
- iv. Preparing Data for Analysis
- v. GIS in Forest Land and Record Management, Management of Conservation Areas
- vi. Hands-On Exercises

GIS in my Work – II

- i. Map Projections & Geo-referencing, Mosaicing
- ii. Creating and Editing new layers
- iii. Adding and Updating Attribute Information, Annotations and Labels
- iv. Integrating MIS to GIS
- v. Looking at data with Graphs and Reports
- vi. Map Production, Designing, Factors controlling Design, The final Print
- vii. Global Positioning Systems (GPS) Concepts & Demonstration & Applications in Forestry Sector
- viii. Hands-On Exercises

GIS Analysis

- i. Proximity Analysis
- ii. Multi Layer Analysis
- iii. Districting
- iv. Change Analysis
- v. Hands-On Exercises
- vi. GIS in Eco-tourism development, Joint Forest Management and Sustainable Use of Natural Forest

Case Studies & GIS Implementations

- i. Case Study - Forest Fire Analysis (Hands-On Experience)
- ii. Implementation Approaches, Issues & Success Factors
- iii. Experience Sharing - Case Studies from ESRI India and other organizations
- iv. Discussion & Feedback

23 Topic : GIS: A Decision Tool for Working Plan and Wildlife Management
(NIIT, New Delhi)

Course Overview

This extended 5-day course aims to provide advance experience on GIS and its applications in Working Plan preparation and Wildlife Management based on National Working Plan Code. Modular hands-on sessions provide an extended feel of power of GIS technology in preparation of efficient Working Plans and successful Wildlife Management. The course is recommended for Senior Executives associated with Working Plans & Wildlife Management.

Course Contents

Introduction to Working Plans

- i. Overview of Working Plans
- ii. Role / Scope of Working Plans in Forest Management
- iii. Types of Working Plans
- iv. Working Plans : Approaches, Issues & Best Practices
- v. GIS in Working Plans: A new Paradigm
- vi. Role of GIS in preparation of Working Plans
- vii. Case Studies

GIS in Working Plans – I

- i. Objectives of the Working Plans
- ii. Identification & Preparation of Management, Stock and Working Plan Maps
- iii. Tract details
 - Administrative Boundaries
 - Forest Boundaries & Profile
 - Utilization of Produce

- Staff and Labour Supply
- Past Systems of Management
- Statistics of Forest Stockings, Growth and yield
- Soil & Watersheds
- Contours
- Road Network
- Drainage Pattern
- Biodiversity profile
- Social Forestry & JFPM

GIS in Working Plans – II

- i. GIS in Consolidation of Records & Prioritization
- ii. Administrative Boundaries
- iii. Classification
 - Forest Lands
 - National Parks and Wildlife Sanctuaries
 - Biodiversity outside Protected Areas
 - Eco-tourism and Public Education
 - Timber and Fuelwood extraction
 - JFPM in natural forest and Plantations
 - Fire & Disaster Management
- iv. Geo-referencing
- v. Mosaicing and Edge Matching of layers
- vi. Associating data

GIS & Wild Life Management

Role of GIS in

- Management of Wildlife
- Conservation of Biodiversity
- Prevention of Wildlife Crimes

Working Plan Preparation - Project & Presentation

24 Topic : Intellectual Property Rights issues in Forestry

(Amity, New Delhi)

Course Contents

- I. I.P.R.
 - Patenting process & products related to Forestry
 - Patenting plants
 - Trademarks in products related & Forestry
 - Registering plant varieties
 - Innovation of forest dwellers based on forest produce
- II IPR & Industry
 - Industry based on forest products
 - Incentives for industry using IPR
 - Sharing of royalties by forest stake holder/IPR owner facilitator
 - Benefit sharing by Commitments
 - CMs
 - WTO & Forest related business
 - Establishing enterprise
- III Bio-diversity Norms
 - CBD
 - TRIPS
 - Bio-diversity Act 2002
 - Farmers Rights and Plant Varieties Act, 2001
 - Biodiversity Accessioning
 - National Register
 - Registration of varieties
 - Relevance and biodiversity State Boards
 - Legal aspects
 - Informed prior consent of stake holder
- IV Developing Protocols

- MoU with stake holders
- MoU with institutions
- Seed sharing, transport, quarantine
- Microbe sharing, transfer protocol
- Plants material transport and sharing protocols
- GMS handling norms

25 Topic : Captive Management of Wild Animals
(CMF under Forestry Training Institute, Kanpur)

Course Contents

- History of Management of Zoos Introduction
- Modern Zoo designing
- Legal aspects (Provisions of Wildlife (Protection) Act 1972 and case laws)
- Record keeping in Zoos (stud books, ISIS)
- Zoos for conservation (success stories in reintroduction)
- Health care in zoos (Diseases monitoring, trapping of animals, chemical capture)
- Visitor management
- Management of captive Elephants
- Field visit to Lucknow and Kanpur Zoo.

26 Topic : Livelihood enhancement strategies in forest fringe villages
*[Andhra Pradesh Forest Academy- Dullapally,
 Hyderabad]*

Course Contents

- Livelihood promotion through NTFP resources

- Medicinal plants-conservation and cultivation
- Agroforestry for rural development
- Bio-fuels for rural development
- Forest based crafts
- Economic activities in community forest management
- Micro-enterprise development strategies
- Thrift and micro-credit
- Community investment funds
- Rehabilitation strategies
- Marketing of rural products

27 Topic : Environmental Impact Assessment and Auditing

[Indian Institute of Forest Management-Bhopal]

Course Contents

- Guidelines for planning and designing impact assessment studies and selection of parameters for establishing biological baselines.
- Introduction to rapid field techniques and computer aided tools for habitat and biodiversity evaluation for impact assessment.
- Identification of impact indicators for determining key environmental issues.
- Recognition of ecological issues and their attendant human aspects.
- Guidelines for preparing and reviewing the EIA reports.
- EIA Case Studies

28 Topic : Management of Change

[Indian Institute of Management, Lucknow]

Course Contents

- Perspective of change
- Managing change in public sector
- Managing change in forestry sector
- Organizational structures and organizational change
- Leveraging HRD for enabling managers to manage change
- Leadership styles for effective change management
- Innovation and change in government
- Global climate change and management of multifunctional forests
- Coping up with technological changes in today's world
- Individual change
- Changing attitudes and overcoming employee resistance
- Life goal planning and personal growth
- Cadre management and career planning in Indian Forest Service: Panel discussion

29 Topic : Natural Resources Accounting

*[Regional Centre, National Afforestation & Eco-Development
Board, Kolkata]*

Course Contents

- New environmental issues within the paradigm of global environmental change and sustainable development

- New challenges in international and national level environmental policies
- Indicators of sustainable development, history of development of environmental statistics and framework
- Resource and environmental accounting, integration with national accounting (IEEA, SEEA), framework, demonstration worksheet, case studies
- Valuation of non marketed resources: methods
- Case studies and integration with the macro accounting
- Measurement of pollution-air-methodology and onsite demonstration of measuring air pollution: Field visit of Jadavpur University Facility for air pollution measurement
- GIS and remote sensing in study of land use change and forestry resource change measurement
- Measurement of water pollution, laboratory visit for water pollution measurement and demonstration
- Use of demonstration worksheet and work out of hypothetical SEEA based on case studies.

30

Topic : Role in Agroforestry in increasing tree cover

[Haryana Forest Development Corporation, Panchkula]

Course Contents

- Different agro-forestry in the country
- Choice of species in different region
- Scale of needed agro-forestry plantation to achieve the goal of NFP, 1988

- Diversification of land use and management practices
- Sustainable tree crop cycle and increasing productivity by tree improvement programmes
- Income from farmlands and economics of agro forestry
- Development of demonstration centers of agro-forestry for farmers
- Demand based identification of agro forestry species and technology of propagation
- Policy and law in contravention of agro forestry practices particularly the regularly measures and import policy
- Role of industries in promotion of agro-forestry as envisaged in the national forest policy, 1988
- Study of farmers industries nexus for agro-forestry practices to meet the requirement of raw material
- Study of existing market demand of agro-forestry produce species-wise
- Development of marketing infrastructure and role of government institutions in marketing
- Role of industries in pricing of wood produce in relation of price of finished products
- Possibility of legal framework for marketing agro-forestry produce

31 Topic : Conservation and Development of Medicinal Plants

[State Medicinal Plants Board, Haryana]

Course Contents

- National Perspective for the conservation of medicinal plants
- National resource of medicinal plants in Shiwaliks
- Medicinal plants-diversity and utility
- Medicinal plants in JFM and benefit sharing with community
- Propagation of medicinal plants in agroforestry and their use
- Role of biotechnology in sustainable development of bioresources
- Vist of Sukhomajri- a case study of people's participation in biodiversity conservation
- Scope of Indian system of medicine to capture global market
- Stress management
- Propagation of medicinal plants in farmlands and wastelands, value addition and economics
- Biodiversity conservation in Haryana- a case study
- Inventory of natural resources including medicinal plants
- Penal discussion on role of foresters in biodiversity conservation with special reference to propagation of medicinal plants in non-forest lands.

32. Topic : Forestry and Climate Change

[Tamil Nadu Forest Academy, Coimbatore]

Course Contents

- Air, water and soil pollution /vegetarian in its mitigation.
- United Nations Framework Convention on Climate Change (UNFCCC) and Kyoto Protocol.
- Clean development mechanism-role of community participation in clean development mechanism forestry and projects.
- Threats to bio-diversity due to global warming-strategy and action plan by the foresters to undo the damages.
- Global warning its cascading effects on both aquatic and terrestrial eco-systems globally.
- Legal issues in climatic change protocol.
- Role of P.A.'s in mitigation climatic change effects.
- Economics of carbon sequestration with reference to forest biomass and agribiomass.
- Carbon sequestration-the role of forests and agro forestry.
- Carbon credit-transaction costs in forest carbon sequestration and trade.

33. Topic : Biodiversity Conservation and Community

*[Gujarat Ecological Education and Research
(GEER) Foundation, Gandhinagar]*

Course Contents

- Introduction to biodiversity concept.
- Marine biodiversity and community.
- Desert/semi-arid biodiversity.

- Forest biodiversity and community involvement.
- Community participation in biodiversity conservation.
- Urban area biodiversity and community involvement.
- Environment education for biodiversity conservation.
- Techniques / methods of nature / biodiversity conservation.
- Biodiversity research-basis for biodiversity education.
- Utilization of media for biodiversity conservation.
- Bird watching and as a tool for sensitizing peoples for conservation.
- Local community and biodiversity.

List of tentative topics/themes for the workshops to be sponsored for the IFS officers.

- Role of forests in conservation and regulation of water
- Water conservation and harvesting
- Effects of water on climate
- Conservation versus development
- Role of forest departments in the sustainable development of people.
- Management of forests outside government forests – role of the state forest departments.
- Effect of lantana on productivity of plantation and most cost effective methods for its eradication.
- Effect of weeds on productivity of plantations and different cost-effective methods of control.
- Strategies for dealing with forest invasive species
- Extent to which the SFDs can meet the fuel needs of the society.
- Information and knowledge management in forestry
- Scope of forestry projects in clean development management under climate change.
- Issues involved in man animal conflict – strategies for mitigation.
- Scope of eco-tourism and ways to sustain it without affecting ecology of the area.
- Public private partnership-scope in forestry
- Forest certification-implications on forestry sector in India.

- Documentation, access & benefit sharing of traditional knowledge – role of the state forest departments.
- JFM – Access & benefit sharing.
- Training needs assessment at various levels of forestry services.
- Optimum forest Cover-strategies for achieving the goal
- Relevance of silvicultural systems and practices in the present day context.
- Documentation and market survey of unrecorded removals from forest areas.
- IPRs and WO accountability – scope of patenting.
- Medicinal plants-role of state forest departments in conservation, cultivation, harvesting, marketing and benefit sharing by the communities.
- Concurrent monitoring and evaluation of schemes – responsibilities of the implementing officers.
- Need for increasing efficiency in working – role of information technology and e-governance.
- Interventions required in sustainable management of NTFPs and benefit sharing by the communities.
- Strategies for anti-poaching.
- Environment impact assessment in forestry projects.
- Sustainable forest management and forest certification: criteria and indicators.
- Bio-prospecting –role of departments
- Need for survey, demarcation and consolidation of forestlands and strategies for achieving the objectives
- Encroachments in forests – how to manage forests.

- How to make forestry and wildlife research field oriented?
- Mass communication and media management
- Scope of landscape planning in forest management.
- How to be effective in cadre management of forestry services.
- Need for appropriate placement policy for the forestry services in the states.
- Contribution of forestry sector to national GDP
- Economics of conservation areas
- Methods for evaluation of services being provided by the forests.
- Economic analysis and funding of forestry projects.
- Financial crunch sustaining forestry activities in the SFDs
- Extension of forestry activities – ways to be effective
- How to manage media for effective publicity on importance of conserving and wildlife.
- Encouraging people to plant trees – need to relax restrictions on felling and transport.
