



Chapter – 8

*Education
and
Awareness*

Education and Awareness

Environmental Education, Awareness and Training

Introduction and objective

The environmental damage already inflicted due to alarming on-going population explosion, rapid movement towards urbanisation and industrialisation, increasing needs of energy and fast scientific and technological advancement cannot be reversed unless there is collective thinking, will and effort. These call for public awareness and participation for bringing about an attitudinal change and finally restricting further damage to the environment. Effective implementation of environmental management and conservation programmes depends on education, awareness raising and training in the relevant areas. Without an understanding of how to conserve natural resources and the compelling need to do so, few people would be motivated to participate actively in programmes on environmental conservation. Environment education and awareness thus assume critical importance. The 'Environmental Education, Awareness and Training' is therefore an important scheme of the Ministry for enhancing the understanding of people at all levels about the relationship between human beings and the environment and to develop capabilities/skills to improve and protect the environment. This scheme was launched in 1983-84 with the following basic objectives

- To develop educational/teaching materials and aids in the formal education sector;
- To encourage non-governmental organizations, mass media and other concerned organizations for promoting environmental awareness among the people at all level;
- To promote environment education through existing educational/scientific /research institutions;

- To ensure training and man-power development in environment education; and
- To mobilize people's awareness for preservation and conservation of environment.

Progress of Activities Undertaken under major programmes

National Green Corps (NGC) Programme

- It is a well-established and recognized fact that the children can be catalyst in promoting a mass movement about the ensemble of the environmental issues. Being future citizens, inculcation of attitude and environmental oriented behaviour amongst them can bring about tremendous change in the society. It is in this backdrop that the Ministry has embarked upon a major initiative for creating environmental awareness among children by formation of a National Green Corps (NGC). Children are triggers for a chain reaction, making a difference at the local and community level which in due course lead to awareness at city, State, country and global level. In less than six years, that the programme has been in operation, it has been catapulted into a mass movement of children for maintaining and preserving the environment. During the year (up-to 31.12.07) 83372 eco-clubs were supported across the country. No. of eco-clubs set up from 2002-03 to 2007-08 (upto 31.12.07) is given in Table-16. NGC Programme is implemented throughout the country through State Nodal Agencies. A list of such Agencies is given in Annexure-VIII.
- A training programme for Master Trainer/Teacher-in-charges of Eco-clubs has been formulated for whole country with cost estimate of Rs. 10.90 Crores as per details given below



Fig.60 Eco-club guide delivering lecture to its members during a seminar on environmental protection and conservation

- No. of Master Trainers to be trained
2476
- No. of teacher-in-charges of Eco-clubs
125333

Training of the Master Trainers has already been launched in current financial year. Among the conventional modes of mass communication, radio is the most potent medium to reach out to largest number of target groups with information and messages concerning their lives and environment. Considering the coverage of the radio, which is more than 80% of the geographical area and population of the country, the Ministry has decided to produce and broadcast through Directorate of Advertising and Visual Publicity, two sponsored weekly radio programmes of half an hour and 15 minute duration over CBS stations and FM stations respectively of All India Radio.

- In the furtherance of the objectives of the

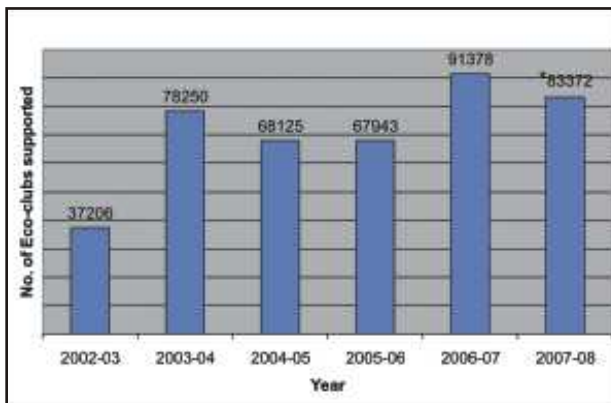


Fig.61 No. of eco-clubs supported

National Green Corps Programme, the Ministry has brought out a wall calendar highlighting the message of the programme and focusing on environment significant events. Each leaf of the calendar is expected to inspire the young minds of the Eco-club members to contribute in creating nature and environment awareness in the country. Copies of calendars were distributed to all the Eco-clubs across the country.

National Environment Awareness Campaign (NEAC)

- Environment protection and improvement is a task of such a magnitude that no Government, or group however resourceful or knowledgeable, can accomplish it successfully without involvement of masses at large. Thus, efforts are required to effectively spread awareness on environmental issues across the country. In order to arouse people's concern and awareness towards the environment National Environment Awareness Campaign is also launched each year since 1986.
- This programme was continued during this year with the main theme as 'Biodiversity Conservation'. The following sub- themes for action components were considered for financial assistance:
 - Wetland conservation
 - Medicinal plants
 - Biodiversity as an indicator of environmental quality
 - Role of community in biodiversity conservation
 - Biodiversity and pollution abatement
- In this campaign, NGOs, schools, colleges, universities, research institutions, women and youth organisations, army units, government departments etc. from all over the country get associated in organising and conducting awareness

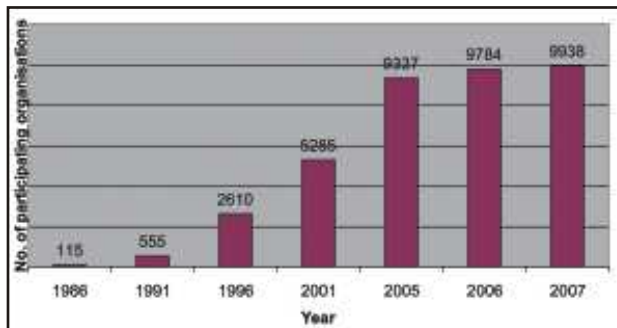


Fig.62 Number of participating organizations in NEAC programme raising activities followed by action activities. Nominal financial assistance is provided for the purpose by the Ministry.

- During the year, 9938 organisations were associated with campaign and were provided financial assistance under the scheme through concerned Regional Resource Agencies (Annexure-IX).

Library

- Library is the documented repository of the Ministry for dissemination of information in the field of environment and its associated areas. It has a collection of over 25,000 books and Technical reports etc. Besides, the library also receives more than 50 national/international journals covering diverse areas of environment. Being the scientific Ministry, Library is one of the richest documentary bases for scientific journals in the field of environment and its associated areas.
- The library performs an important role in the planning, promotion, implementation and coordination of the Ministry's objectives by providing timely access to relevant and comprehensive documentary information to its users viz. officials of the Ministry, external organizations (both governmental and non governmental) research students, decision makers etc.
- Apart from the technical books, journals, proceedings etc. the library also procured a wide range of journals, books both in Hindi & English during the year. Research scholars from various organisations,

institutions and other professional bodies visited the library for various information required by them from time to time. In order to provide online access to the users, the library records were computerised.

Seminars/Symposia/Workshops

Universities/Professional bodies/Technical Institutions and other R&D organisations are very responsive to the programme as is evidenced by the increase in the number of proposals being received by the Ministry. Thrust areas as identified under the programme are under review and being expanded to include more new areas. Proposal to enhance the monetary ceilings for events at District, State, National and International levels is under consideration to expand the outreach of the programme both geographically and demographically. During the year, about 53 (as on 31.12.07) organisations were provided financial assistance by the Ministry for conducting seminars/symposia/workshops etc.

Mass Awareness

With the objective of spreading environmental awareness and facilitating better compliance with environmental regulations, the Ministry has formulated a Media Action Plan (MAP), under which the following major activities were supported/sponsored during the year

- Telecast of 22 episodes of 'Bhoomi' including 'Best of Bhoomi' a half an hour weekly environmental television magazine on Doordarshan National Channel and distribution of 1000 sets of 12 CDs each containing 'Best of Bhoomi' episodes to nodal agencies and district coordinators of the National Green Corps (NGC) Programme for onward distribution and screening in various schools covered by NGC Programme.
- Telecast of 42 episodes of "Sarokar", a 15 minutes weekly environmental television

Table-16. No. of Eco-clubs established since launching of the NGC Programme

States/UTs	No of Eco-clubs					
	2007-08	2006-07	2005-06	2004-05	2003-04	2002-03
Andaman & Nicobar Islands						100
Andhra Pradesh	5750	5750	3900	3900	3900	2800
Arunanchal Pradesh		525				
Assam					3450	2300
Bihar	7200		5266	5700	5700	
Chandhigarh	113	112	110		150	100
Chhattisgarh	3932	4000	2373	2400	2400	1600
Dadra & Nagar Haveli						
Daman & Diu						44
Delhi		1600	1500	1500	1500	1150
Goa		500	441	300	300	200
Gujarat	6500	6250	3750	3750	3750	2500
Haryana		5000	2850	2750	2750	1900
Himachal Pradesh		1693	1800	1800	1800	1200
J & K					2100	
Jharkhand				3300	3150	
Karnataka	8000			4800	4050	2700
Kerala		3500		2100		1400
Lakshadweep				12		12
Maharashtra	8844	8844	5400	5400	4950	3300
Manipur	1350	1350		900		
Meghalaya						
Mizoram	1235	1200	1200	1200	1200	
MP	12000	7200	7200	7200	6750	4500
Nagaland	2048	2107	800	800		800
Orissa		5900	4500	4500	4500	3000
Pondicherry	550		513	513	600	
Punjab	5000	4250	2550	2550	1800	1700
Rajasthan	8000	8000	4800	4800	3200	
Sikkim			540			
Tamil Nadu	7500	7500	4500	4500	4350	2800
Tripura	600	600	600	600	600	
UP		10747	10500		10500	
Uttarakhand					1950	1300
West Bengal	4750	4750	2850	2850	2850	1800
Total	83372	91378	67943	68125	78250	37206

magazine called 'Sarokar' covering various environmental issues such as Community effort in environmental protection Water Conservation, Water Pollution, Afforestation, Wind Power, Herbal Pesticides, Bio-medical Waste, Bio-diesel, Air Pollution etc. relating to Rajasthan.

- Staging of 105 shows of street play title "Khuli Hawa Ki Talaash Mein" by Centre for Education and Voluntary Action (CEVA) for spreading awareness environmental degradation in the States of Punjab, Himachal Pradesh, Haryana, J&K, Rajasthan, Delhi, Kolkata and Chandigarh.
- Vatavaran-2007 – 4th Competitive Environment & Wildlife Film Festival held at India Habitat Centre, New Delhi from 12-16 September, 2007 with a total of 275 entries including 54 entries from 18 foreign countries. Thirty one awards were given in 18 different categories (12 for Indian Section and 6 for International Section). The 'Young Environment Journalist in Print and Broadcast' award as well as awards for Technical excellence for camera, story telling and editing were also introduced for the first time.

Environment Appreciation Courses

The target groups for environment education are diverse ranging from school children to community leaders. So in order to provide interested persons an opportunity to learn in detail about specific environmental issues, a course module has been got developed from Indira Gandhi National Open University (IGNOU) for Environmental Appreciation Courses. Delivery of these courses has already started through distance education mode through IGNOU regional centres.

Publication

- The objective of this programme is to utilise expertise available with professional societies, voluntary organisations, institutions etc. for developing and publication of High quality resource material for promoting environment education and awareness by providing financial assistance for development and publication of such material. The publication material must popularise the understanding about the environment, emerging issues and out of the box solutions including innovative approaches for protection and should be relevant and of high standard and should supplement the efforts of the Ministry to promote environment education and awareness.
- Under the programme, grant is not provided for publication of newsletters, magazines, journals, periodicals etc. or to any publisher/business house including individual.

Grants-in-aid to Professional Societies

- The Objective of the programme is to facilitate optimum utilization of expertise available with Professional Societies and Institutions for Promotion of Environment Education and Awareness. The programme aims at utilising the existing capacities while simultaneously providing for enhancing the capacities of such institutions. The projects to be financially supported would inter-alia include development/extension of execution galleries, interpretation centres and education material relating top ecology, wildlife and environment. The financial assistance is not provided for procurement of capital goods/ equipment. However, some office equipment like computer/

projector etc. can be purchased if they incidental to or inertial part of exhibition galleries, interpretation centres and educational focused activities. This one time grant is also not available for research, collection and completion of data and information or to any individual/business houses.

- The societies/institutions to be supported under this programme should have credential and in-house expertise/experience of working in the environmental education field. Such institutes/societies may also include National History Museums, Science centres, NGOs, etc.

Global Learning & Observation to Benefit the Environment (GLOBE)

- The Global Learning and Observations to Benefit the Environment (GLOBE) Programme – an international Science and Education programme – provides a unique opportunity to its students to carry out various measurements so that they can learn about scientific protocols and perform environmental learning activities, which have already been introduced as theory in the textbooks. The GLOBE programme not only helps the students to appreciate the contents of the textbooks through better understanding but also assists them in gaining complete knowledge of environment.
- So far about 1800 GLOBE trained teachers in the country, had included this programme under the “Environment Education in School system” (EESS) programme for Hands-on activities. The programme was launched as a component of the EESS project in the 16 States namely Andhra Pradesh, Assam Goa, Jammu & Kashmir, Maharashtra,

Orissa, Punjab, Uttarakhand, Chhattisgarh, Himachal Pradesh, Karnataka, Kerala, Sikkim, Tamil Nadu, Tripura and West Bengal. Teachers of 100 schools in each State have been trained in the protocols for conducting the experiments in four broad environmental parameters – Hydrology, Soil, Land Cover and Atmospheric Temperature/ Rainfall under this project.

- A process to consolidate further the activities under the GLOBE programme in all the 1800 schools was started in the financial year 2006-07. The process inter-alia subsumes training of teachers in GLOBE protocol and provision of requisite equipment.

Other Awareness Programmes

Observance of Earth Day

Earth Day is an annual observance held on April 22 every year to increase public awareness on the environment. During financial year 2007-08, a host of activities were supported on and before Earth Day to use the occasion to involve people in making a difference towards a healthy, prosperous and sustainable future. The activities ranged from competitions (essay, painting, poster making, etc.) to Rallies, Runs and formation of human chain. Streets plays were also organised to spread the message of environment conservation.

Perfect Health Mela-2007

Collaboration of Students in “Inter Eco-club school competition at Perfect Health Mela-2007” Grounds from October 27-November 4, 2007.

Children Science Congress

Collaboration of Students in NGC Students Environmental Congress at Vishakapatnam.

National Museum of Natural History

Introduction

The National Museum of Natural History (NMNH), a subordinate organization of the Ministry, was opened to public in 1978 to create public awareness in preservation and conservation of environment and nature. Over the years, the Museum has extended its activities in different regions of the country and set up three Regional Museums one each at Mysore (Karnataka), Bhopal (Madhya Pradesh) and Bhubaneswar (Orissa). These museums have been established to depict flora, fauna, forests, wildlife and other environmental aspects of the respective regions. Since its inception, the Museum has been temporarily housed in the FICCI premises at Barakhamba Road, New Delhi.

Progress of Activities Undertaken

Mould Your Future - Exhibition of Models

A month long exhibition of the Models held in the temporary exhibition hall of NMNH, New Delhi. The Models were prepared by the school students for "Model Making Competition" held on 29.10.07 on the occasion of "International Day for the Preservation of Ozone Layer".

Exhibition on Wheels on the theme "Forest Wealth"

The travelling exhibition on the theme "Forest

Wealth" was taken to eight Schools at different districts of Orissa. The exhibition was accompanied by screening of films on nature & wildlife. About 7,800 students participated in the exhibition and the film show.

Exhibition on "Extinct and Threatened Animals of India"

An exhibition on theme "Extinct and Threatened Animals of India" was organised during 17-18, November, 2007 at Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal on the occasion of "National Ban Rang". More than 10,000 students and teachers visited this exhibition.

Orientation Workshop for Trainee Teachers

Two Workshops were organised for the trainee teachers of District Institute of Education and Training (DIET), Moti Bagh, N. Delhi. The first batch from 21-23 August, 2007 and the second batch from 29-31 August, 2007. A total number of 100 trainee teachers are invited to participate in the workshops with not more than 50 trainee teachers in each batch.

Teacher Orientation Programme

The Programme was launched on International Museum Day – from 18- 20 May, 2007 at Pachmarhi Biosphere Reserve on the theme "Birds of M.P." Twenty four teachers from various schools and colleges of Madhya Pradesh participated.

Teachers' Workshop

A two-days Workshop for High School students in Mysore on "Conservation of Karnataka Heritage" was organised during 29-30 June, 2007 by the Museum in collaboration with the State Departments of Archaeology, Museums and Heritage and the Dept. of Archives, in which 25 teachers participated. As a part of the programme the various heritage structures in Mysore city were shown and explained to teachers.



Fig.63 An exhibition on wheels displayed in school campus



Fig.64 Painting competition organized on National Science Day by NMNH

Workshop for Teachers of Eco-clubs

The Workshop was organised by RMNH from 5-10 August, 2007 in association with Centre for Environmental Studies, Govt. of Orissa.

Twenty seven Teachers from 27 districts participated. The programme included lectures on different topics related to eco-club activities. Field visit to RPRC, and Nandankanan Zoo was undertaken to show medicinal plants, vermiculture, vermi-composting & rain water harvesting.



Fig.65 A display of Hornet Wasp nest at RMNH, Mysore

World Environment Day and NMNH Foundation Day celebration

- The World Environment Day and NMNH Foundation Day celebrations were organised by NMNH in India Habitat Centre, Lodi Road, New Delhi on 5th June, 2007. Hon'ble Minister for External Affairs inaugurated the function as Chief Guest. A small skit on environmental problems based on this years UNEP theme "Melting Ice – A Hot Topic" was presented by the participants of Summer Programme 2007.
- Shri Pranab Mukherjee, Minister for External Affairs, Government of India, Chief Guest at the occasion decorated Master Akshay Gupta, participant in the

Summer Programme-2007, Group-I (Green Teens) with “Young Environmentalist” award for the year 2007. He was selected on the basis of his best performance in various activities done during the Summer Programme-2007.

- Shri Namo Narayan Meena, Minister of State for Environment & Forests gave away prizes to the First, Second and Third prize winners in three categories of “Essay Writing Competition” (held on the occasion of Earth Day) and the First, Second and Third prize winners in “Quiz Contest” and “Declamation Contest” (held during Summer Programme-2007, Group-I (Green Teens).

Biodiversity Programme for Students

RMNH, Bhopal organised this programme for 10th and 11th standard students on 21-22 August, 2007. Lectures cum demonstration were delivered by Director, Care for the Wild India on “Importance of Conservation of Wildlife” and Range Officer, Van Vihar

National Park, Bhopal on “Flora of Madhya Pradesh”.

Publications

NMNH and its Regional Centres published a number of publications in English, Hindi, Kannada and Oriya on the topics related to animals, plants, bio-diversity such as Paryavaran Ke Nare in Hindi, Posters, Guide Book in Hindi, Summer Programme Magazine and Nature Study Kit for students.

Regional Museum of Natural History at Sawai-Madhopur

- Rajiv Gandhi Regional Museum of Natural History, Sawai Madhopur is conceived to be a non-formal centre for environmental education and creation of public awareness on conservation of nature and natural resources.
- The main aim of the museum will be to focus attention on arid, semi-arid and desert ecosystems, conservation and preservation of biodiversity and geology



Fig.66 World Environment Day celebrations by NMNH

of the western regions, in addition to paying adequate attention to the endemic flora and fauna and wildlife.

- Possession of a piece of land measuring 7.42 Acres has been taken over from the State Government for Rajiv Gandhi Regional Museum of Natural History (RG-RMNH), Sawai Madhopur, Rajasthan. The foundation stone laying ceremony was held on 23rd December 2007 at 4.00 PM by the Hon'ble Vice President of India Shri M. Hameed Ansari.

Setting up of Regional Museum at Gangtok (Sikkim)

- The Ministry has approved the proposal for setting up the fifth Regional Museum of Natural History at Gangtok, Sikkim and it is included in the 11th Five Year Plan. This museum will cover the North Eastern region which is a hot spot of biodiversity.
- A suitable piece of land has been identified and the Government of Sikkim has agreed in principle to provide the land for setting up of the Regional Museum.

Forestry Education, Training and Extension

Introduction

The present system of forestry education and training is tailored to produce skilled forest managers so as to manage, protect and conserve the forests in consonance with National Forest Policy, 1988, National Forestry Action Programme, 1999 etc. The activities related to forestry education, training and extension are performed by the different institutes of the Ministry like Indira Gandhi National Forest Academy (IGNFA), Dehradun; Directorate of Forest Education (DFE), Dehradun; Indian Council of Forestry Research and Education (ICFRE), Dehradun; Forest Survey of India (FSI), Dehradun; Indian Institute of Forest Management (IIFM), Bhopal and Indian Plywood Industries Research and Training Institute (IPIRTI), Bangalore etc.

Progress of Activities Undertaken by various Institutes

Indira Gandhi National Forest Academy (IGNFA), Dehradun

Introduction

The mandate of the academy is to impart professional training to regular recruits of Indian Forest Service. The academy also conducts Professional Skill Up-gradation Course for SFS officers inducted into IFS and mid career in-service training courses for IFS officers at various levels of seniority. In addition, workshops and seminars are also organized on emerging issues in forestry sector.

Progress of Activities Undertaken

- At present two batches of IFS probationers and Foreign Trainees are undergoing training at the Academy. These training courses include a series of lectures, practicals, case studies, panel discussions, field visits, tours, excursions, symposia, seminars, guest talks.
- Twenty one IFS Probationers and two Foreign Trainees from Bhutan of 2004-2007 Course and twenty nine IFS probationers and two Foreign Trainees from Bhutan of 2005 - 2007 course have passed from the Academy after completing their training. So far twenty two batches of IFS officers have undergone training in this academy since 1987.
- Thirty six IFS Probationers and two Foreign Trainees of 2006-2008 Course are undergoing Professional Phase of Training of in the Academy.
- Twenty four IFS Probationers and two Foreign Trainees of 2007-2009 Course joined the Academy on December 1, 2007 for Professional Training after completing the Foundational Course at the Lal Bahadur Shastri National Administration Academy, Mussoorie.

- XX Skill Up-gradation Course during August – October, 2007 was conducted, in which 62 officers of various cadres participated.
- Eight Advanced Forest Management (AFM) courses for the IFS officers of the 1997, 1990 and 1986 batches have been organized.
- One Special Advanced Forest Management (AFM) courses for 1985 batch was conducted for those officers who could not participate in these courses earlier.
- A Management module of two days duration by Indian Institute of Management has been introduced in Advanced Forest Management Courses.
- Academy also organized two Senior Foresters Workshop of three days each the IFS officers who have completed 30 and 25 years of service.
- One-week refresher training programme on 'Policy and Legal Issues' was organized during October, 2007 in which 24 IFS officers from various states participated.
- Kirti Chakra P.Srinivas Memorial Lecture was organized on 20.11.2007. Sh. K. Vijay Kumar, IPS Additional, DGP, Tamilnadu who headed special task force constituted for nabbing dreaded Veerapan, delivered a lecture on "Role of police in forest protection".
- During July, 2007 mentors meet was organized. In this meet Senior officers responsible for the field training of IFS probationers in their cadres, attended. Revised training pattern and general feed back about training were discussed.
- A three days orientation module on Natural Resource Management for Indian Police Service probationers is being organized from 13-15 December, 2007. Eighty eight IPS probationers attended the same module.

Capacity Building of IFS Officers

- During the year, the Ministry sponsored 45 one-week courses in the premier training/ management institutions in the country on a wide range of disciplines including management and administration of forests, wildlife, environment and general administration in the government. The topics include public-partnership in forestry, financial management & audit sensitization, joint forest management, holistic approach to watershed management through people's participation, environmental impact indicators and valuation techniques, intellectual property rights and WTO accountability-scope of patenting, development of project design document for forestry clean development mechanisms projects, the art of interacting with print and electronic media, various provisions under right to information act – 2005, application of remote sensing and GIS in forestry, effective leadership and conflict resolution, impact of global warming and climate change on forest and biodiversity etc.
- Five IFS officers have been sponsored to pursue long-term courses offered by The Energy and Resources Institute (TERI)-New Delhi, Indian Institute of Management (IIM) – Bangalore and National Defence College, New Delhi.
- During the year, the Ministry sponsored nine two-day training workshops on emerging topics in the field of forests, wildlife and environment conservation having regional, national and international importance. The training workshops/seminars were also sponsored in the premier institutions/ organizations depending upon their expertise and strengths in a particular field/ discipline. The broad themes for training workshops include concurrent monitoring and evaluation of schemes – responsibilities of

the implementing officers, collection, compilation, validation and dissemination of forestry statistics, ecological and environment awareness etc.

- A booklet on "Capacity Building in Forestry Sector Programmes for The Forest Officers during 2007-08" was also brought out.

Directorate of Forest Education

Introduction

- The Directorate of Forest Education was part of the Forest Research Institute & Colleges, Dehradun and remained responsible for professional and technical level training/ education in the country. After the reorganization of Forest Research Institute & Colleges and creation of an autonomous Indian Council of Forestry Research & Education (ICFRE), this Directorate was de-linked from FRI & Colleges in 1991 and now functions directly under the Ministry of Environment & Forests. The post of DFE was created in 1953 under the FRI & Colleges to assist the President, Forest Research Institute in running and to ensure standard and quality forestry training in the country.
- Status and capacity of the Forest Training Colleges are as follows

Colleges Under Government Of India	
State Forest Service College, Dehradun	50
State Forest Service College, Coimbatore	50
State Forest Service College, Burnihat	50
EFRC, Kurseong (West Bengal).	40
Total	190

Colleges Under State Governments	
FTI, Haldwani (UP).	50
GFRC, Rajpipla (Gujarat).	40
OFRC, Angul (Orissa).	40
FRC, Balaghat (MP).	50
Total	180

Objectives of the Directorate are

- To cater to the Training Needs of SFS Officers and Forest Rangers of States / Union territories in the country.
- To ensure 'standard and quality' training imparted to the forestry personnel.
- To assist develop appropriate and relevant training contents and evaluation standards for forestry training at various level.
- To assist the Centre and the States to develop training policy for efficient human resource management and development.
- To help States assess 'Training Needs' of forestry personnel for quality and standard training.

Progress of Activities Undertaken

- Induction training in the form of 'Two years diploma and certificate courses' for the newly recruited SFS and " Eighteen months certificate course" for Range Forest Officers have been undertaken.
- In-service Training of SFS and Range Officers as short term refresher courses has been initiated.
- Capacity building courses (computer application, theme based etc.) for field officers is being undertaken.
- Courses on basic training skills (TOT) and workshops on different themes of Forestry for SFS Officers, Training of Trainers, and Training of FRO's of 5 days duration have also been undertaken.
- One Training of SFS officers at SFS College, Dehradun was carried out.
- One course of Training of Forest Rangers in SFS College, Burnihat/ Coimbatore & EFRC, Kurseong was completed.
- Three Refresher Courses for in-service SFS officers with 30-35 participants in each course was completed.
- Three Basic Courses on Computer Application in Forestry for in-service SFS

officers with 25-30 participants in each course were completed.

- Two Advance Courses on Computer Application in Forestry for in-service SFS officers with 30-35 participants in each course have been completed.
- Theme based two courses in forestry for In-service SFS Officers with 25-30 participants in each course was completed during the year.
- Six Training cum workshop (5 days duration) on Policy, legal issues and International Conventions, Biodiversity Conservation/Climate change, Training of Trainers have been undertaken.
- Two courses of two weeks on "General Refresher Course" for Range Officers with 30 participants in each course were completed.
- Theme based course in forestry for In-service Range Officers with 25-30 participants was carried out.
- Sixty three two weeks "Refresher Course" for in-service Deputy Rangers, Foresters and Forest Guards with 30-35 participants in each course in the forestry schools/institutions of the States under the supervision of the Directorate were conducted.
- Two days training on "Sensitization" about forestry and related issues was conducted on 13-14 August, 2007 at State Forest Service College, Dehradun for the personal from M/s Crain India Ltd., Gurgaon.

Indian Plywood Industries Research and Training Institute (IPIRTI), Bangalore

- IPIRTI conducted various diploma courses and vocational courses to meet the human resources development needs of the mechanic wood industries.
- During the year, 13 trainees had successfully completed the Post Graduate

Diploma Course (PGDC) (18th batch) and all were placed through campus recruitment. PGDC of 19th batch commenced in November 2007 with 21 candidates.

- IPIRTI organized training programmes for different target groups ranging from the level of technicians to managers on sponsorship basis and also for national and international students. A total of 18 Short Term Courses were conducted during the year, including one International Training Course for Candidates from Timor on "preliminary Processing of Bamboo, Preservation, operation and Maintenance of Bamboo Processing Machines"

Indian Institute of Forest Management (IIFM), Bhopal

Introduction and objectives

The IIFM, Bhopal as a sectoral management institute and an autonomous institution of the Ministry imparts education and training in forest management. Broad objectives of the institute are as follows

- To meet the demand for the trained human resource with managerial and analytical skills in the areas of forest environmental and development management through regular educational courses.
- To update the knowledge and managerial skills of the serving professionals in the above areas through short-term Management Development Programs.
- To generate information on field realities and derive meaningful interpretation through systematic research.
- To offer consultancy services to the needy client organizations based on the available expertise.
- To disseminate the research-based information/knowledge to meet the information needs of the forestry,

environment and allied sectors through trainings, seminars and publications.

- To generate and maintain relevant databases that are essential for policy formulation, project planning and strategy development in forestry, environment and allied sectors
- To develop an Information Management System, which is compatible with and easily accessible to all levels of users, i.e. from local (community) to global levels.
- To be in constant pursuit of academic and professional excellence so as to effectively serve the national interests, while incorporating international perspectives in its academic functions.

Progress of Activities Undertaken

- The Institute offers two academic programmes viz., Post Graduate Programme in Forestry Management (Equivalent to Master Degree) and Postmaster's Programme in Natural Resource Management (Equivalent to M. Phil). The Institute is also recognised as Centre for Research by Forest Research Institute (FRI), Dehradun for Doctoral programmes.
- All the students of PGDFM passed in 2007 got placed through campus recruitment held in January 2007.
- Out of 2457 applications received for the PGDFM 2006-08 programme, 40 students were finally selected with varied educational background like science, arts, engineering, IT and commerce through a rigorous selection process. The scenario of the Organizational Training (OT) was also quite encouraging during the year as the

Institute had received 73 projects for OT-I and 85 projects for OT-II, which was almost double the strength of the students.

- All the participants of 12th batch of Post Master Course in Natural Resource Management (MRM) got well placed, mostly in development sector through campus placements. For the one-year Post Master level Course on Natural Resource Management (2006-07) 166 applications were received and finally 19 participants were admitted for the programme.

Wildlife Education and Training

Introduction

Wildlife education and training is primarily looked after by the Wildlife Institute of India, an autonomous institute of the Ministry for imparting training to government and non-government personnel to carry out research and training activities and advice on matters of conservation and management of wildlife resources.

Progress of Activities Undertaken

- Institute runs three regular courses viz., 2-year M.Sc. degree programme in Wildlife Sciences, 9-month Post Graduate Diploma in Wildlife Management, and 3-month Certificate Course in Wildlife Management.
- The Institute has trained 457 Indian and 77 foreign nationals in 28 Diploma Courses while 351 and 52 foreign nationals in 27 Certificate Courses.
- The Institute conducts Master's Degree Programme in Wildlife Sciences every alternate year and 84 students have enrolled in 10 courses conducted so far.