

**CHAPTER II-C-1**

**REVIEW OF OVERALL PERFORMANCE DURING 1999-2000.**

**FORESTRY AND WILDLIFE**

**61. INDIRA GANDHI NATIONAL FOREST ACADEMY (IGNFA)**

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical achievements
<b>Indira Gandhi National Forest Academy</b>	1.80	1.77	<p>Training of IFS Probationers.</p> <p>Conduct of Induction Courses.</p> <p>On the job training of IFS Probationers</p>	<p>During this period 31 IFS probationers of 1998-2001 course underwent professional phase of training.</p> <p>25 IFS probationers of 1999-2002 course underwent induction phase of training.</p> <p>The on-the-job training of 55 IFS Probationers of 1997-2000 course posted in different States and UTs was continued.</p> <p>The library facilities were improved to meet the needs of training.</p> <p>The infra-structural facilities at the Academy like communication network, computers etc. were upgraded.</p> <p>Amenities in the Probationer's Hostels improved.</p> <p>Class Rooms facilities upgraded by adding modern training aids.</p>

**62. STATE FOREST SERVICE AND RANGERS TRAINING COLLEGES**

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achieve - ment.	Reasons for Shortfall, if any.
<b>State Forest Service and Rangers Training Colleges.</b>	130.00	117.68			
a) Training of SFS officers in 3 SFS Colleges, one each at Dehradun, Coimbatore and Burnihat.			6 courses	2 courses	Due to inadequate demand from States.
b) Training of Forest Rangers in EFRC, Kurseong.			2 courses	--	-do-
c) Refresher Courses for in-service SFS officers with 35 participants each.			7 courses	7 courses	--
d) Courses on Computer application in Forestry for in-service forest officers with 35 participants each.			6 courses	6 courses	--

e) Other Forestry related courses.			3 courses	3 courses	--
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### 63. INDIAN INSTITUTE OF FOREST MANAGEMENT

(Rs. in Crores)

Name of Activity	BE	Actual Expenditure	Physical Targets	Physical Achievements
<b>Indian Institute of Forest Management</b>	2.70	3.13		
a) Management Development/Course and Seminars.			18 courses	12 courses
b) Post Graduate Diploma in Forest Management/MRM			1+1 batch	99-01 batch: 33 students 00-02 batch: 33 students
c) Ph.D/Research Studies/Consultancies				Ongoing Research Projects/case studies completed New Research Projects/Case Studies: initiated.

### 64. INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE (IPIRTI), BANGALORE

(Rs. in Crores)

Name of the Activity	BE	Actual Expenditure	Physical Targets	Physical Achievements
<b>IPIRTI</b>	1.28 (Plan)	0.74	*	*

\*13 research projects were in progress.

### FORESTRY RESEARCH

### 65. INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION (ICFRE), DEHRADUN

(Rs. in Crores)

Name of the Activity	BE	Actual Expenditure	Physical Targets	Physical Achievements
<b>Indian Council of Forestry Research &amp; Education.</b>				**
1) <u>Research (Plan)</u>				
a) General Component.	35.00	34.43	Undertaking Forestry Research and Education by the ICFRE through 8 institutes and 3 Satellite Centres spread all over the Country.	
b) Externally Aided Component	32.00	35.52		
2) Education and Training	2.00	2.00		
Total	69.00	69.95		

\*\* ICFRE(HQ)

**Directorate of Research :** Formulation of Research Plan of ICFRE institutes, State Forestry Research Plan and National Research Plan, Development of Indian Forestry Research Information System (IFRIS), Planting Stock Improvement Programme including development of SPA, CSO, SSO, VMG, Model Nurseries, Research Grant and on-going research in organisations other than ICFRE institutes.

**Directorate of Education :** Formulation of HRD Plan, Training on statistical methods and design for middle/senior level Scientists of ICFRE and its institutes, Advance training on research management for Heads of Division and director of ICFRE Institutes, Curriculum development for M.Sc Forestry Course, Grant-in-aid to universities.

**Directorate of Extension :** Publication of Annual Report of ICFRE 1998-99 & IFLIN News Letter, Preparation of films on Non-wood Forest Products Treated catamarans, Economic utilization of Casuarina of Rain water harvesting, Afforestation of stress sites, Clonal multiplication, Printing of brochures on Rosewood, Paulownia seed technology etc., Manuscript for books of red sander, Marine wood borers, Translation into Malyalam for Neem and Jatropha completed. Demonstration of technology on different sites, workshop on statistical tool and method in forestry research conducted.

**Directorate of Administration :** Procurement of scientific equipment, Furniture items for buildings constructed under World Bank Project, Installation of LAN and completion of civil works taken up under FREEP and normal budget.

**Directorate of Statistics :** Publication of quarterly Timber/Bamboo Trade Bulletin, Forestry Statistics India 1996 published, Work on forestry statistics in India – 2000 in progress.

#### **ICFRE Institutes and its Centers :**

**FRI, Dehra Dun :** Physiological effects of water stress on some forestry species, studies rare and endangered plants, clonal propagation of *Dalbergia sissoo*, *Tectona grandis*, *Eucalyptus* hybrid and Bamboo undertaken, morphological studies of fruits/seeds of *Dalbergia sissoo*, *Albezia* sp., Bamboos undertaken, Invert modification in *Eucalyptus tereticorins*, *Dendrocalamus strictus* taken, studies taken, studies on *Shorrea robusta*, *Cedrus deodara*, *Pinus roxburghii* and *Populus deltoids* taken. Studies on agroforestry system for development of suitable agroforestry, models, Development of appropriate technology for utilization of Bamboo, *Eucalyptus* and Poplar plants for cost effective use and other structural components, Reclamation of ecological monitoring of iron ore mines, Plasticization of wood for making furniture joints, Cultivation collection and processing of *Unacaria gambier*, Marketing impacts for farm forestry, Resin tapping by bore hole method in *Pinus roxburghii*.

**TFRI, Jabalpur :** Establishment and maintenance of SSPAs, CSOs and NG of teak, Development of model research nurseries and studies of important nursery technology of MPT species, Development of seed technology of *Albezia procra* & *Gmelina arborea*, Yield and productivity studies in short rotation teak plantation, Investigation on allopathic effect of forest tree species on agricultural crops; Developing multiplication techniques and Establishing demonstration plant & seed orchards for fruit yielding trees, Socio economic analysis of agroforestry models. Integrated management of disease of seeds, nurseries and plants, Biological control on important disease of forestry species, Studies on mycorrhiza and biofertilizers, Development of forestry methodology for different types of mine ore areas, Population dynamics of Sal, heartwood borer and development of control measures, Optimum land use utilization through mix cropping, Physiological studies of trees and other MPTs collection, Ethnobotanical data from Central India, Biodiversity study in Joint Forest Management areas.

**AFRI, Jodhpur :** Demonstration trials in hard arid zones of Rajasthan, Study of ex-situ rain water harvesting and stand density, Integrated pest management of forestry insect pests, Bio cycle activities arid zone plants.

**IWST, Bangalore :** Planting Stock Improvement Programme for Teak, *Casurina*, *Eucalyptus*, sp. Sandal and Bamboo, Model Nursery, Identified provenance areas for genetic improvement of sandal. *Invitro* and *invivo* propagation techniques for mass production of high quality planting stock of Sandal, Establishing research extension linkages and Developing programme for generating public awareness and providing technical support to user agencies.

**IFGTB, Coimbatore :** Genetic improvement of *Eucalyptus camaldulensis* and *Casurina equisetifolia*, Standardization of optimum storage condition of *A. indica*, Standardization of germination method in *Tectona grandis*, Development of Neem for various agro-ecological regions in India, seed handling procedures for medicinal plants, Reclamation of Magnetite mine spoils, Standardization of containerized nursery practices, Development of agroforestry models, market dynamics of timber products, Conservation of some endangered species.

**IFP, Ranchi :** Studies on suitable strains of biofertilizers include VAM fungi, Identification of MPT species, Trees crop interaction studies, Vegetative propagation of bamboo and other MPT species, Reclamation of coal mine overburdened areas, Lac development and its market studies.

**IRMDFR, Jorhat :** Bio-ecological studies on the forest insect pests, Studies on succession changes under shifting cultivation, Disease management of important tree species of north east, Study of seed biology, Study of VAM association, Ecological monitoring of biological forestry, Standardization of nursery technique for bamboo species, Clonal propagation of forest species, development of alternative models to shifting cultivation.

**HFRI, Shimla :** Establishment and maintenance of SPA, SSO and VMG, Techniques for afforestation of cold desert areas, Agroforestry and Silviculture in lower hills, Conservation of indigenous species of western Himalayas, provenance trials of poplars.

#### 66. FOREST SURVEY OF INDIA (FSI), DEHRADUN

(Rs. in Crores)

Name of the Scheme	BE	Actual Expdt.	Physical Targets	Physical Achievements
<b>Forest Survey of India</b>	7.44	7.14		
a) Forest Inventory (area in sq. km.)			40,000	92,447
b) Data processing (in sq. km.)			40,000	55,729
c) Thematic Mapping (No. of sheets)			50 map sheets	51 map sheets
d) Vegetation mapping (No. of sheets)			182 map sheets	182 map sheets
e) Training (number of persons)			90	100
f) Special Study				2

#### 67. FOREST CONSERVATION

(Rs. in Crores)

Name of the Activity	BE	Actual expenditure	Physical Targets (cases)	Achievements (cases)
<b>Strengthening of Forest Divisions.</b>	4.00	4.26		
a) Monitoring of Forest Conservation Project/cases.			950	930
b) Monitoring of Environmental Projects/cases			400	771

#### 68. FOREST PROTECTION AND REGENERATION

(Rs. in Crores)

Name of the Activity	BE	Actual Expenditure	Physical Targets	Physical Achievements.
<b>1. Association of Scheduled Tribes and Rural Poor in Regeneration of Degraded Forests.</b>	3.05	2.77	Rehabilitation of 3330 ha. of degraded forest land	Preparatory work for rehabilitation of degraded Forests has been done with total release of central assistance of Rs.2.77 crores.
<b>2. National Forestry Action Plan (NFAP)</b>	0.09	0.05	Finalisation of National Forestry Action Plan, review	NFAP- India prepared and released in Sept. 1999.

			of Indian Forest Act., 1927, formulation of separate Forest Policy for the North Eastern States.	Amendment proposals to Indian Forest Act 1927 finalised.
<b>3. Introduction of Modern Forest Fire Control Methods in India</b>	3.40	2.77	To assist 11 States to develop necessary infrastructure to control forest fire.	11 States have been assisted

## WILDLIFE

### 69. CENTRAL ZOO AUTHORITY (CZA)

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements
<b>CZA</b>	12.00	12.00	<p>To evaluate Zoos with reference to norms and standards specified under the Recognition of Zoo Rules, 1992 and provide technical and financial support to zoos having potential to achieve the desired standards.</p> <p>To recognize or de-recognize zoos under the provisions of Wildlife (Protection) Act.</p>	<p>30 zoos were evaluated with reference to standards and norms and 18 were granted recognition.</p> <p>Financial assistance provided for improvement of housing and veterinary care, for creation of laboratory, for conservation of endangered species, to CCMB, Hyderabad for education and awareness programmes and research proposals.</p> <p>Organised training courses and workshops for upgrading skills of the zoo personnel and official were sent to UK for specialized training in Zoo Management.</p>

### 70. NATIONAL ZOOLOGICAL PARK (NZP)

(Rs. in Crores)

Name of the Activity	B.E.	Actual Expdt.	Physical Targets	Physical Achievements
<b>National Zoological Park</b>	1.00	0.96	Improvement of Chimpanzee, Chinkara Zebra, Red Lechwe, Cape Buffalo, Mithun, Black Swan enclosures including creation of stand off barrier and footpaths, cleaning and disilting of moats, celebration of Van Mahotsav, providing C.C. Pavements in stone and at the gate renovation of kiosk and toilets. Improvement of Hippo enclosures, walk-in-aviary.	Work have been completed in part.

### 71. WILDLIFE INSTITUTE OF INDIA (WII)

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets (No. of persons)	Physical Achievement (No. of persons)
<b>WII</b>	4.00	3.85		
a) M.Sc. course in Wildlife Science.			12	12
b) PG Dip. Course in Wildlife Management			20	14
c) Certificate Course in Wildlife Management			20	17
d) Field Workshops/ Short Courses.			245	110

**72. STRENGTHENING OF WILDLIFE DIVISION AND CONSULTANCIES FOR SPECIAL TASKS:**

(Rs. in Crores)

Name of the Activity	BE	Actual expdt.	Physical Targets	Physical Achievements
<b>Strengthening of Wildlife Division.</b>	2.00	1.60	Physical targets are not given as the scheme aims at strengthening the functions of the Central Wildlife Organisation and Regional and Sub-regional Offices. It also aims at enforcement of Wildlife (Protection) Act 1972 and the provisions of CITES. The Central as well as Regional Offices have been able to achieve the objectives to a great extent. Large number of seizures of wildlife and its derivatives have been made which would otherwise have found their route in the international market. The offices also implement the provisions of CITES with respect to trade in wildlife and its derivatives.  Dr. Salim Ali and Dr. Kailash Sankhla National Fellowship Awards were commissioned during the year 1995. These awards are given in alternate year.	

**73. ANIMAL WELFARE BOARD OF INDIA (AWBI)**

(Rs. in Crores)

Name of the Activity	BE	Actual Expenditure	Physical Targets/ Achievements.
<b>AWBI</b>	1.60	2.25	The scheme has since been transferred to Ministry of Social Justice and Empowerment.

**74. NATIONAL PARKS AND SANCTUARIES**

(Rs. in crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements
<b>Development of National Parks &amp; Sanctuaries.</b>	12.00	12.98	To provide assistance for 250 National Parks and Sanctuaries.	Assistance was provided to State Governments/UTs for 220 National Parks & Sanctuaries.

75. PROJECT TIGER (PT)

(Rs. in Crores)

Name of the Activity	BE	Actual expdt.	Physical Targets	Physical Achievements.
<b>Project Tiger Conservation and Protection</b>	17.00	17.50	To assist the notified Tiger Reserves for habitat improvement, Water development work, construction of staff quarters/buildings, construction of roads, wireless network, etc	Financial assistance was given to 25 Tiger Reserves during the year for various activities as per targets. The physical achievements during the year were as follows:- a) Habitat Movement – 6000 Ha. b) New Fire lines – 90 Kms. a) Water Devl. Works – 50 wells, hand pumps, Anicuts and ponds, etc. b) Construction of Buildings – 90 Nos in all categories. c) Construction of roads – 50 Kms. d) Replacement of vehicles – 10 numbers. e) Protection: 10 Guns, anti poaching camps 30 Nos.

76. ECO-DEVELOPMENT IN AND AROUND PROTECTED AREAS

(Rs. in Crores)

Name of the Activity	BE	Actual Release	Physical Targets	Physical Achievement
<b>Eco-development around Protected Areas</b>	9.00	7.99	115 National Parks and Sanctuaries and 25 Project Tiger areas to be assisted.	Biomass generation – 5000 ha. <u>Non Conventional Energy Sources:</u> Fuel Efficient Chulhas – 4000 Nos. Bio gas plants – 100 Nos. Solar lights – 30 Nos. <u>Health Care:</u> Cattle camps – 100 camps Health camps – 150 camps <u>Water facility</u> Minor irrigation – 50 Ponds, Check Dams, Hand pumps-200.
<b>India: Eco-development Project (World Bank Externally Aided).</b>	55.00	33.81	Release of funds to seven project States for improved protected area management. Village Eco-development, environmental education and impact monitoring and research.	Assistance was provided to seven project States for expenditure on activities viz., Eco-system Management, Habitat Protection and Management, microplanning for villages, Environmental Education & Awareness activities, Impact Monitoring and Research.

77. BENEFICIARY ORIENTED SCHEME FOR TRIBAL DEVELOPMENT

(Rs. in Crores)

Name of the Activity	B.E.	Actual Release	Physical Targets	Physical Achievements
<b>Beneficiary Oriented</b>	4.50	2.70	Relocation of 450 tribal	450 tribal families relocated from

<b>Scheme for Tribal Development</b>			families in Kuno Palpur Wildlife Sanctuary in Madhya Pradesh and Nagarhole National Park in Karnataka.	Kuno Palpur Wildlife Sanctuary and 100 tribal families from Nagarhole National Park.
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**78. PROJECT ELEPHANT**

(Rs. in Crores)

Name of Activity	BE	Actual Release	Physical Targets	Physical Achievement
<b>Conservation and Protection of elephant</b>	5.20	5.97	To assist 12 States for conservation of elephants.	Assisted 12 elephant states as targeted.

**79. NATIONAL AFFORESTATION & ECO-DEVELOPMENT**

(Rs. in crores)

Sl.No.	Name of Scheme	BE	Actual Expenditure	Physical targets (in ha.)	Physical Achievement (in ha.)
1.	Integrated Afforestation and Eco-Development Projects Scheme	38.00	37.51	50591	54216
2.	Area Oriented Fuelwood and Fodder Projects Scheme	35.00	30.38	71493	51895
3.	Conservation and Development of Non-Timber Forests Produce (including Medicinal Plants) Scheme	12.00	12.00	13507	11749
4.	Tree Pasture & Seed Development Scheme	1.80	0.99	Not applicable	Financial assistance released to 9 States.
5.	Grants-in-Aid Scheme for Voluntary Agencies	2.00	2.00	2000	51 new projects sanctioned; 2 <sup>nd</sup> /final instalments released to 25 projects sanctioned previously.

**ECOLOGY AND ENVIRONMENT**

**80. BOTANICAL SURVEY OF INDIA (BSI), CALCUTTA**

(Rs. in Crores)

Name of the Activity	BE	Actual Expenditure	Physical Targets/ Achievements
<b>BOTANICAL SURVEY OF INDIA</b>	4.10	3.36	*

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- Physical Targets/Achievements during the year were as under:

	<u>Targets</u>	<u>Achievements</u>
a) Collection of Specimens	20000 Nos.	16031 Nos
b) Publications.	22	17
c) Preservation of specimens	15000 Nos.	11986 Nos.

#### 81. ZOOLOGICAL SURVEY OF INDIA (ZSI), CALCUTTA

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements
ZSI	3.42	3.34	Exploration and survey – 58	52 surveys
			Status survey of Endangered Species	1 survey
			Taxonomic studies	Fauna of Sikkim – Manuscript in Press Fauna of Manipur – Analysis of data completed. Fauna of Ujni – In Press. Fauna of Mizoram – Work in progress. Fauna of Nagaland – Work in progress. Fauna of Kabar Lake – Ms in press. Fauna of Desert – Ms is under review. Fauna of Gulf of Mannar – Ms is under review.
			Publications	Larval Trematodes Part-II - Ms. In proof stage Reptilia: Crocodilia – As above Diptera: Chloropidae – Ms. In CRC stage Diptera: Sarcophagidae – As above Rec.. ZSI: Vol.97 Part-I, II, III & IV published Annual Reports:94-95 work in progress Bibliography:Vol.29 in Govt. Press Fauna of Meghalaya: Vols, 4,5,6,7 & 9 in Govt Press Fauna of Tripura: Vols. In CRC stage. Occasional Papers 170-177 published 178-186 in CRC stage.
				Work in progress

			Renovation of Regional Museum.	
			ENVIS on Ecology	News letter (Half yearly) published & 200 entries made.

**Reasons for shortfall, if any**

Exploration & Survey

Surveys of Ladakh could not be completed due to Kargil war.  
 2 Surveys of Orissa due to Super Cyclone.  
 2 Surveys due to Non receipt of permission from State Forest Department of Kerala.  
 2 Surveys due to constraint of finance.

**82. ENVIRONMENTAL EDUCATION, AWARENESS & TRAINING**

(Rs. in Crores)

Name of the Scheme	BE	Actual Expdt.	Physical Targets	Physical Achievements, shortfall, if any
1. Environment Education & Training	3.60	3.80		
i) National Environment * Awareness Campaign (NEAC)			Different activities under the campaign to be completed	The campaign was completed in time.
ii) Establishment of Eco-clubs *			1200 Nos.	1879 Nos.
2. Seminar/Symposia/ Workshops	0.30	0.44	65 Nos	70 Nos.

\* No separate allocation was made for these programmes.

**83. ENVIRONMENTAL POLICY & LAW**

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt.	Physical Target	Physical Achievements
<b>1. Environment Policy &amp; Law Activities.</b>	0.15	0.19		
a) Environment Policy & Legislation			- Publication of notification. - Holding of Seminar. - Amendment to Water Cess Act.	- Notification published.
b) Eco-mark scheme			- Development of criteria. - Publicity to Eco-mark. - Assistance to Comparative	- Project sanctioned to Indian Institute of Materials

c) <b>Comprehensive National Environment Policy</b>			Testing programme. - Publication of National Environment Policy document	Management. - The State of Environment Report released on 5.6.1999.
d) <b>Trade &amp; Environment</b>			- Organisation of Seminars. - Prepare a position paper.	
2. <b>National Environment Tribunal</b>	0.50	-	- Setting up of Benches of the Tribunal	Act could not be put into operation

#### 84. WORLD BANK AIDED INDUSTRIAL POLLUTION CONTROL PROJECTS

(Rs. in Crores)

Name of the activity	B.E.	Actual Expdt.	Physical Targets	Physical Achievements
<b>World Bank Aided Industrial Pollution Control Projects</b>  <b>Industrial Pollution Prevention Project.</b>	15.00	15.19	<ul style="list-style-type: none"> <li>- Procurement of equipment for 4 SPCBs viz., Andhra Pradesh, Karnataka, MP and Rajasthan.</li> <li>- Upgradation of facilities in the regional labs of the four project SPCBs.</li> <li>- Imparting of training to the personnel of SPCBs.</li> <li>- Provision of funds to industries for waste water recycling plans.</li> <li>- Provision of funds to Gujarat for software procurement and training under the GIS Project.</li> <li>- Upgradation of training package under the Waste Minimisation Circle. 100 Circles to be established. 4</li> </ul>	<ul style="list-style-type: none"> <li>- Equipment has been procured under the project for the SPCBs of AP, MP, Rajasthan and Karnataka.</li> <li>- 23 Central and Regional Laboratories of the four Project SPCBs are being strengthened by way of provision of equipment, minor civil works etc.</li> <li>- Specific training programmes have been identified for different levels of management and staff of the four beneficiary SPCBs.</li> <li>- 2 CETPs and 1 Industrial Waste Water Recycling Plant have been funded under the Project.</li> <li>- A GIS programme on Hazardous Wastes data for Gujarat State has been put in place.</li> <li>- 25 Waste Minimisation Circles have been formed and over 200 Waste Minimisation options were identified by these circles, of which over 100 have</li> </ul>

			Newsletters to be issued.	been implemented.
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**85. CLEAN TECHNOLOGY**

(Rs. in Crores)

Name of the activity	BE	Actual Expdt	Physical Target	Physical Achievements
<b>1. Sustainable Development Strategies.</b>	5.0	1.17	Two carrying capacity studies to be completed.	Two studies under completion
<b>2. Development and Promotion of Cleaner Technologies</b>			Setting up ICPC.	Setting up of ICPC deferred.

**86. ENVIRONMENTAL AUDIT, CLEAN TECHNOLOGY, ENVIRONMENTAL STATISTICS AND MAPPING**

(Rs. in Crores)

Name of the activity	BE	Actual Expdt.	Physical Target /Physical achievements

<b>Environmental Audit</b>	0.20	0.20	<p><u>Targets:</u> Preparation of environment audit update, Sectorwise training and awareness programs, sector-wise analysis of Environmental Statement</p> <p><u>Achievements:</u> Environmental Audit Training Programmes in small agro-residue and waste paper based paper mills (3 Nos.) were organised. A publication has been brought out. Sectoral analysis of information given in ES has been taken up.</p>
<b>Environmental Statistics and Mapping</b>	0.10	0.10	<p><u>Targets:</u></p> <ul style="list-style-type: none"> <li>- Preparation of environment atlas for metro cities.</li> <li>- Project integrated coastal Environment Management plan in the region between Visakhapatnam &amp; Kakinada</li> <li>- Project “Geochemical baseline mapping for Environment Management in Cauvery basin” sponsored to NGRI Hyderabad.</li> <li>- Environmental Statistics &amp; mapping in Delhi sponsored to NISTADS New Delhi.</li> </ul> <p><u>Achievements with reference to targets above:</u></p> <ul style="list-style-type: none"> <li>- Prepared.</li> <li>- Completed.</li> <li>- Continuing.</li> <li>- Continuing.</li> </ul>
<b>Adoption of Clean Technologies in Small Scale Industries</b>	0.10	0.10	<p><u>Targets:</u> Training and awareness programme, WM demonstration studies, sector specific manuals.</p> <p><u>Achievements:</u> 25 training programmes conducted, waste minimization demonstration studies in bulk drug and chemical industry Continuing Waste Minimisation studies in SMEs, sponsored, sector specific manual in textile processing units, edible oil industry prepared.</p>

## 87. ENVIRONMENTAL IMPACT ASSESSMENT

(Rs. in Crores)

Name of the Scheme	BE	Actual Expdt.	Physical Target	Physical Achievements	Reasons for shortfall, if any

<b>Environment Impact Assessment (including Clean Technologies)</b>	1.60	1.79	The objective of Imp act Assessment division is to assess the Impact of any development Projects from Environment angle which is referred to this Ministry. Therefore, no physical targets have been laid down.	--
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**88. NATIONAL MUSEUM OF NATURAL HISTORY (NMNH), NEW DELHI.**

(Rs. in Crores)

<b>Name of the Activity</b>	<b>BE</b>	<b>Actual Expdt.</b>	<b>Physical Targets</b>	<b>Physical Achievements</b>	<b>Reasons for shortfall, if any.</b>
<b>NMNH, New Delhi.</b>	1.38	1.23	Updating and Renovation of premises and exhibit galleries; conduct educational activities and extension services; Museological & Museographical research work.	Partially achieved	Due to the limitation of the hired premises
<b>REGIONAL MUSEUMS</b>	1.12	0.71			
<b>Regional Museum of Natural History, Mysore</b>			Development of plans & initiation of Exhibit fabrication etc.	Partially achieved	Time taken in development of themes and diversion of human resources to other regional museums.
			Continuation of field collection of flora & fauna of the Southern Region.	Partially achieved	
			One in each quarter	Achieved	
			To organise number of educational activities and Museum extension services.	Achieved as planned	
<b>Regional Museum of Natural History, Bhopal</b>			1) 2 <sup>nd</sup> Phase Gallery & Exhibit Development;	Partially achieved	

			Discovery Centre. 2) Temporary Exhibitions 3) To conduct education and extension activities 4) Seminars/Workshops.	Achieved, as planned  --  Achieved as planned	
<b>Regional Museum of Natural History, Bhubanswar.</b>			To establish a nuclear site office with infrastructure  To develop 1 <sup>st</sup> Phase of Exhibit galleries.	Partially achieved  Partially achieved	

#### 89. CIVIL CONSTRUCTION UNIT

(Rs. in Crores)

Name of the Activity	BE/RE	Actual Expdt.	Physical Targets (No. of works)	Achievements (No. of works)	Reasons for shortfalls if any Under PE Progress Sanction awaited (No. of works)	
Forestry & Wild Life	3.40	2.80	33	12	14	7
Ecology & Wild Life	6.10	8.28	47	23	12	12
Environment Education/Training/Extenuation	2.50	2.20	6	1	1	4
Civil Works	1.55	1.60	-	-	-	-
<b>Grand Total</b>	<b>13.55</b>	<b>14.88</b>	<b>86</b>	<b>36</b>	<b>27</b>	<b>23</b>

#### 90. ENVIRONMENTAL INFORMATION SYSTEM(ENVIS)

(Rs. in Crores)

Name of the scheme	BE		Actual Expdt.		Target/Achievements
	Plan	Non Plan	Plan	Non Plan	
ENVIS	1.50	0.28	1.83	0.15	*

#### \*Physical targets and achievements

- Two ENVIS Centers on new emerging area are proposed to be set up during the year.
- Annual Report of the Ministry (1999-2000) will be published by ENVIS. The report has been published and distributed.
- A home-page of the Ministry has been set up and could be browsed at URL: <http://envfor.delhi.nic.in>
- ENVIS has also started publishing a monthly newsletter namely 'Enviro News' reporting various programmes, achievements, laws, rules, clearances etc. This Newsletter is continued to be published during 1999-2000.

- Queries-answer service will be provided to all ENVIS Network and efforts will be made to provide substantive information as far as possible to users.
- A total number of 14,190 queries were responded to by the ENVIS network during the year to the users concerned.
- ENVIS has started implementing the Sustainable Development Networking Programme (SDNP) supported by UNDP and IDRC, Canada. A web site has already been developed which can be browsed at [URL:http://sdnp.delhi.nic.in](http://sdnp.delhi.nic.in) and is regularly updated.
- 8 SDNP nodes have been identified to be set up in Delhi. The nodes have been set up and are operational.

Reasons for shortfall, if any

Only one area has been identified by the Committee and the ENVIS Centre is being processed to be set up.

**91. CENTRES OF EXCELLENCE**

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt.	Physical Target and Achievements
<b>CENTRES OF EXCELLENCE</b>	5.15	5.24	20 R&D projects in the field of bio-diversity, ecology and conservation biology, animal behavior, conservation genetics, climate variability, etc. have been taken up by CES, Bangalore. M. Tech programmes in Environmental Science and Engineering was continued by CME, Dhanbad . Herbarium-cum-Taxonomy Museum was developed at TBGRI, Thiruvananthapuram. MoU were signed by all the Centres with the Ministry. The remaining Centres continued their ongoing activities in respective fields.

**92. NATIONAL NATURAL RESOURCES OF MANAGEMENT SYSTEMS (NNRMS)**

(Rs. Crores)

Name of the scheme	BE	Actual Expdt.	Physical Target and Achievements
<b>NNRMS</b>	1.00	0.85	A few new thrust areas already identified by the Bio-Resources Committee have been covered and 13 new projects under these priority areas have been supported.  Monitoring of the on-going projects are being taken up during the year.

**93. PARYAVARAN VAHINI:**

(Rs. in Crores)

Name of the Scheme	BE	Actual Expdt.	Target and achievements
<b>Paryavaran Vahini</b>	0.05	0.02	No specific targets have been set because as per the decision of the Ministry, the scheme is likely to be transferred to the various States without any financial commitment of the Ministry. The Planning Commission has already been communicated in this regard. Decision of the Planning

			Commission is yet to be received by the Ministry.
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#### 94. GRANTS-IN-AID TO PROFESSIONAL SOCIETIES:

(Rs. in Crores)

Name of the Scheme	BE	Actual Expdt.	Target and achievements
<b>Grants-in-aid to Professional Societies</b>	0.10	0.02	Though no numerical target was set up under this scheme, proposals received from the various organisations were considered and worth-supporting proposals were provided financial assistance.

#### Reasons for short-fall:

The budgeted expenditure could not be utilised due to non-availability of worth supporting proposals.

#### 95. NATIONAL RIVER CONSERVATION DIRECTORATE

(Rs. in Crores)

Name of the Activity	BE (Rs. in crore)	Actual Expdt. (Rs. in crore)	Physical Target (no. of schemes)	Physical Achievements (no. of schemes)	Reasons for shortfall, if any
<b>GAP-I</b>	2.00	0.00	5	2	The shortfall in expenditure in 1999-2000 was mainly on account of slow progress made in the implementation of the River Action Plans owing to reluctance of the State Governments to provide their matching share of funds. The issue has been resolved after the decision of the CCEA to permit 100% funding by the Govt. of India.
<b>GAP-II</b>	120.00	90.38	158	43	
<b>NRCP (incl. of estt.)</b>	76.00	65.72	130	19	
<b>NLCP</b>	2.00	1.20			

- 2 more schemes under Ganga Action Plan Phase-I were completed during this period. A total capacity of 835 mld of sewage was created for treatment..
- A further sum of Rs.71.96 crores was released under Yamuna Action Plan during this year. 13 more schemes valued at Rs.1.59 crores were sanctioned during this period and 36 more schemes were completed.
- A further sum of Rs.90.38 crores was released during this period under Ganga Action Plan Phase-II and 27 more schemes were sanctioned.

#### National River Conservation Plan

A further sum of Rs.62.05 crores were sanctioned during this period.10 more schemes valued at Rs.5.27 crores were sanctioned during this period and 21 schemes were completed.

#### 96. WETLAND CONSERVATION PROGRAMME

(Rs. in crores)

Name of Activity	BE	Actual Expdt.	Physical Targets	Achievements	Reasons for shortfall, if any
<b>WETLAND CONSERVATION PROGRAMME</b>	3.00	2.65	*	Target achieved except small shortfall in financial release.	There is shortfall of approx. 34 lakhs. This was due to a policy decision taken to finance research only in identified wetland areas. Because of this decision, assistance kept for

					three research projects which did not fall in the preview could not be released.
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- Physical Targets:
  - Release of financial assistance for the MAPs of 20 identified wetlands for carrying out the activities like data collection, wetland mapping, control of encroachment, hydrology, eutrophication abatement, aquatic weed control, fisheries development, wildlife conservation and environmental awareness.
  - Convening the meetings of Research Sub-committee and National Committee.
  - Sanctioning of new research projects.
  - Identification of new wetlands of national importance.
  - Evaluation of progress of ongoing projects.
  - Monitoring of progress of MAPs.

**97. ASSISTANCE FOR ABATEMENT OF POLLUTION**

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt.	Physical Target
Assistance For Abatement Of Pollution	0.75	0.75	No physical targets could be given.

**98. REIMBURSEMENT OF WATER CESS**

(Rs. in crores)

Name of the scheme	BE	Actual Expdt.	Physical targets and Reasons for shortfall, if any
Reimbursement Of Water Cess (Non-Plan)	44.80	44.80	As this is a Non-Plan Scheme, no physical targets are set.

**99. TAJ PROTECTION MISSION**

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt.	Physical Target	Physical Achievements	Reasons for shortfall, if any
Taj Protection Mission	50.00	12.5	Protection of the environment in and around the Taj Mahal.	10 projects are under various stages of implementation.	As per the UC and Plan of expenditure from the UP Government, it was possible to release only Rs.12.5 crores.

**100. CENTRAL POLLUTION CONTROL BOARD**

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Target	Physical Achievements
CENTRAL POLLUTION CONTROL BOARD	8.00	8.00	Environmental surveillance, preparation of action plan for problem area/polluted river stretches, ambient air and water quality monitoring etc.	Under ESS activity about 1000 inspections carried out in different industries for verifying status of pollution control compliance

**101. ASSISTANCE TO BOTANIC GARDENS**

(Rs. in Crores)

Name of the Activity	BE	Actual Expenditure	Physical Targets	Physical Achievements
Assistance to Botanical Gardens.	1.10	1.01	Inviting proposals from existing Botanical Gardens	19 Botanic Gardens were provided financial support.

**102. RESEARCH AND ECOLOGICAL REGENERATION(R&D)**

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt.
RESEARCH & DEVELOPMENT	3.50	3.02

Physical Targets:

Initiation of new projects: 30. Servicing of ongoing projects:106. Review & monitoring of ongoing projects:106.

Physical Achievements:

Initiation of new projects:21. Servicing of ongoing projects:106. Review & monitoring of ongoing projects:106.

During the year, against a target of 30 new projects, 21 new projects were initiated under the various schemes. The meetings of the Advisory Committees and the Review and Monitoring Committees were held as per the targets. An expenditure of Rs. 3.02 crores was incurred. The B.P. Pal National Environment Fellowship Award for Biodiversity for the year 1999 was awarded to Dr. K.P.S.. Chandel, National Bureau of Plant Genetic Resources, Pusa, New Delhi. The Pitamber Pant National Environment Fellowship Award for 1999 was given to Dr. R.R. Rao, National Botanical Research Institute, Lucknow.

**103. G.B. PANT INSTITUTE OF HIMALAYAN ENVIRONMENT AND DEVELOPMENT**

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical achievements.
<b>G.B. Pant Institute of Himalayan Environment &amp; Development</b>				
<b>R&amp;D and other Expenditure</b>	3.30	3.29	1. Strengthening of six on-going R&D programmes and initiation of a new major core programme.	1. Six identified R&D programmes continued and marginally strengthened, at HQs and through four units; a new core programme initiated.
<b>Construction</b>	1.70	1.70	2. Completion of construction works (Phase-I), at Katarmal (HQs), Kullu (HP) and Panthang (Sikkim)	2. Library & Information Centre completed at HQs.; School & dispensary buildings are under construction. New campus at Katarmal Almora & Kullu

				Katarmal, Almora & Kullu became functional and works at Panthang initiated.
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Reasons for shortfall

Lack of adequate manpower for (1) and sufficient funding for (1&2)

**104. INTEGRATED ACTION ORIENTED RESEARCH AND DEVELOPMENT IN HIMALAYAN REGION**

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements
<b>Integrated Eco-development Research Programme</b>	0.40	0.40	Continuation of ongoing projects and new projects under the activity.	Some ongoing projects completed; a few new programmes initiated.

**105. BIODIVERSITY CONSERVATION**

(Rs. in Crores)

Name of the activity	B.E.	Actual Expdt.	Physical Targets/ Physical Achievements
<b>Bio-diversity Conservation</b>	0.75	0.75	*

1. National Action Plan

Biodiversity is a multi-disciplinary subject involving diverse Sectoral activities and actions. Adopting a consultative process with the stakeholders, a draft of a National Policy and Action Strategy on Biological Diversity has been drawn up as a macro-level statement of strategies, gaps and further actions needed for conservation, sustainable use and strategies and realisation of actual and potential value of biological diversity. Emphasising the need for conservation and analysing provisions of the Convention, the draft identifies the basis goals and thrust areas and outlines action points for various subject. During the year, the document was approved and published.

2. Legislation

India's richness in biological resources and indigenous knowledge relating to them is well recognised. One of the major challenges is in adopting an instrument which helps realize the objectives of equitable benefit sharing enshrined in the Convention. Towards this, an outline of bio-diversity legislation has been prepared which aims at regulating access to biological resources and making such access subject to terms and conditions which secure equitable sharing of benefits for the resources accessed. A note for the Cabinet was prepared. Cabinet approved the proposal. Further action to introduce the Bill in the Parliament was initiated.

3. Bio-safety Protocol

An ad-hoc Working Group under the aegis of Convention on Biological Diversity has negotiated a draft protocol of biosafety. The interministerial Task Force on Biosafety set up for developing India's stand in the international negotiations for a protocol on biosafety, continued its work during the year. Meetings of the Task Force were held for working out India's position for this purpose. India participated actively in the international negotiations for biosafety protocol. India's position for the resumed Ex-CoP to finalise and adopt the protocol was prepared. The protocol was adopted.

#### 4. UNDP/GEF project on NBSAP

In order to prepare detailed microlevel action plans at state and regional levels based on the framework document on National Policy and macrolevel Action Strategy on Biodiversity, the Ministry has accessed funds from the Global Environment Facility for the National Biodiversity Strategy and Action Plan (NBSAP) project. The NBSAP project envisages assessment and stocktaking of bio-diversity-related information at state level including distribution of endemic and endangered species and site specific threats and pressures. Key features of this project include an emphasis on decentralized state level planning, and the use of interdisciplinary working groups to involve all sectors concerned with bio-diversity conservation. These detailed State level action plans will be consolidated and a notional level action plan will be developed.

The NBSAP project is for a duration of two years. MoEF is the executing agency for the project. The total cost of the project is US \$ 9,68,200 which would be provided by UNDP/GEF. To oversee the implementation of the NBSAP project, a Steering Committee has been constituted. First meeting of the Steering Committee was held wherein the process outline and budget of the project was approved.

#### 106. CONSERVATION & MANAGEMENT OF MANGROVES AND CORAL REEFS

(Rs. in crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements	Reasons for shortfall, if any
<b>CONSERVATION &amp; MANAGEMENT OF MANGROVES AND CORAL REEFS</b>	1.20	1.45	12 MAPs on Mangrove & 2 MAPs Coral Reef areas	7 MAPs on Mangroves and 2 MAPs on Coral Reefs	Physical Targets could not be achieved due to non-receipt of Utilisation Certificates from the States
<b>Research</b>	0.30	0.25	5 on-going and 6 new projects	5 on-going and 4 new projects	Revised projects from the proponents not received.

#### 107. HAZARDOUS SUBSTANCE MANAGEMENT

( Rupees in crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets/ Achievements	Reasons for shortfall, if any
<b>Hazardous Substance Management</b>	6.05	2.60	*	The shortfall is due to reformulation of the EFC and delay in receiving assurance from State Government regarding their share in the project on TSDF for Hazardous Wastes.

\*Physical Targets/Achievements

- Amendments to MSIC Rules, 1989 and HW Rules, 1989
- Registration for units recycling zinc ash, zinc skimming, brass dross and copper cables for which procedure has been finalized
- Draft Mini Chemicals Profile on Management of Chemicals prepared
- Financial assistance released for identification of five sites in four States for land-filling
- Training courses held at Hyderabad and Baroda
- Six Feasibility Studies on ISDP and four Studies on Hazardous Wastes Management undertaken and funded

- Fifth edition of Red Book published
- Coordination committee meeting under CCG held
- Eight studies on Industrial Pocket-wise Hazard Analysis undertaken
- Training on Emergency Preparedness and Accident Prevention conducted
- Draft for the revision of Rules for manufacture, Use, Import, Export and Storage of Hazardous Micro-organisms/Genetically Engineered Organisms or Cells, 1989 notified
- Final notification on Recycled Plastics Manufacture and Usage Rules, 1999 and Final Notification to conserve top-soil, Prevent the dumping and disposal of fly ash issued
- Municipal Solid Wastes (Mgt. & Handling) Rules, 2000 issued
- Interim Report on use of Municipal Waste in Road Construction submitted by CRRI
- Preparation of report on POP/PIC chemicals undertaken
- Funds released for project on bagging of dry fly ash.

#### 108. BIOSPHERE RESERVES

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements	Reasons for shortfall, if any.
<b>Biosphere Reserves (MAP)</b>	1.75	2.61	12 MAPs on B.Rs	11 Maps on BRs	Delay in designation of 12 <sup>th</sup> BR.
<b>Research</b>	1.00	1.01	47 on-going and 10 new projects	47 on-going and 12 new projects were supported	No shortfall

#### 109 INTERNATIONAL COOPERATION

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt.	Physical Target	Physical Achievements
<b>ICEF</b>	0.05	--	Projects are at various stages of implementation	The Canadians have not donated any commodity. The projects are implemented with available funds in ICEF.
<b>UNDP-CCF-I on Environment Support Programme</b>	6.00	4.66	Implementation of the Sub-Programme as approved by PMB	Implementation commenced in respect of 22 sub-programmes
<b>Delhi Urban Environment Project</b>	2.00	0.77	Consultant appointed for the Project	The project started in Feb. 2000.
<b>IC Division activities</b>	1.20	1.10	Existing activities to be continued	Existing activities will continue.

Achievements:-

- 1) Participation in the Seventh Session of the Commission on Sustainable Development held in New York in April 1999.
- 2) Nomination of officials for training abroad in the field of environment & Forests.
- 3) Implementation of the World Bank Assisted Delhi Urban Environment Project.
- 4) Follow-up, implementation, monitoring and evaluation of the approved projects under the UNDP-CCF Programme.
- 5) Follow-up on the MoUs signed with Germany, Russia, Turkmenistan, Tajikistan, Vietnam, China and Iran.
- 6) Follow-up on the Indo-US and Indo-Brazil Common Agenda on Environment.
- 7) Follow-up on the action points related to SAARC Environment Ministers Meeting.

- 8) Building a strong pipeline of new GEF proposal, follow up and implementation of approved GEF projects, to monitor and evaluate their progress. Participation in GEF Council Meeting held in Washington in May 1999.
- 9) Assessment of the funding objectives of various lending and donor agencies (multilateral, bilateral and private) to facilitate access of more resources for projects.
- 10) A delegation went on Study Tour to Italy and Turkey to visit and see pollution control technology for tannery industry. This tour was part of the UNDP assisted sub-programme on CETP for Calcutta leather complex.
- 11) Coordination Committee meetings to review various Externally Aided Projects in the field of Environment & Forests.
- 12) MoEF participated in the Workshop on Strengthening South-South cooperation in Environmental Strategies for Sustainable Development organized by Special Unit for Technical Cooperation among developing Countries UNDP in New York during 18-19 October 1999.
- 13) MEF and Secretary (E&F) participated in the 4<sup>th</sup> Meeting of the High Level Committee of Ministers and officials of UNEP held in Bonn, Germany on 01.11.99.
- 14) MoEF participated in various Conferences of Parties/Meetings related to UN Convention on Climate Change, Biodiversity, Desertification, Montreal Protocol, Basel Convention and other Conferences in the field of environment.
- 15) Secretary (E&F) participated in the Brainstorming Workshop in Bangkok in June 1999, ensuing the Ministerial Workshop on Environment & Development scheduled to be held in Japan in 2000.
- 16) A delegation visited Bangkok during October, 1999 to attend the meeting of the Committee on Environment & Development scheduled to be held in Japan in 2000.
- 17) The Global Environment Cell (GEC) has been set up in the Ministry under the GoI-UNDP-CCF-I (1997-2001) Environment Support Programme. The GEC was inaugurated by MEF on 4<sup>th</sup> June 1999.

#### 110. TAXONOMY CAPACITY BUILDING PROJECT

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements
<b>TAXONOMY CAPACITY BUILDING PROJECT</b>	2.50	1.82	To release funds to centres for research and training.	Centres identified. Steering Committee set up. Financial assistance provided to 5-6 units of each of the 11 Centres.

#### 111. ENVIRONMENTAL MANAGEMENT CAPACITY BUILDING TECHNICAL ASSISTANCE PROJECT (WORLD BANK AIDED)

(Rs. in crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements	Reasons for shortfalls
<b>ENVIRONMENTAL MANAGEMENT CAPACITY BUILDING TECHNICAL ASSISTANCE PROJECT</b>	30.00	15.89	*	**	***

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- Submission of final report by Administrative Staff College of India (ASCI) for formulation of revised Environmental Research Programme and hands on training of staff of computers and procurement of equipment.

- Development of a model environmental economics curricula, conducting of training programmes, publication of books and journals and carryout applied research in Environmental Economics, award of overseas fellowships.
- Establishment of NGO Environmental Action Fund (NEAF) to support programmes in Gujarat on adverse environmental impacts.
- Review of existing policies/standards and compliance mechanism, institutional strengthening and training in mining sector.
- To map rapidly industrializing districts across India and proposed sites for new industrial estates for preparation of District Zoning Atlas for siting of industries, procurement of equipments.
- Development of Geographical Information System (GIS) for selected Coastal Marine Areas; Development of Integrated Coastal Marine Area Management Plans, conducting of Waste Assimilation Capacity and Waste Load Allocation Studies for selected estuaries and development of impact assessment guidelines for marine and coastal area activities.
- Strengthening of Gujarat's Department of Environment & Forests and Gujarat Ecology Commission to enhance their capacity for policy formulation, implementation and monitoring compliance with environmental laws and regulations.
- Cleaner production activities under Institutional Strengthening in Gujarat.
- To assist Central Pollution Control Board in upgrading Air Pollution Monitoring system.
- Strengthening infusion of environmental concepts in school curricula and pilot implementation in one state.
- Strengthening legal capacity of staff of MoEF, CPCB and SPCB.

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- Final report received and Project Implementation Plan for remaining project period approved by World Bank.
- Books on monograph on Ecology and Economics released. Proofs for undergraduate textbook on economics corrected. Materials on other topics are under preparation. 127 Faculty upgradation programmes completed. 34 workshops held. 20 programmes for non-economist and practicing economist held. 41 projects have been commissioned and 9 overseas fellowships awarded.
- 25 projects have so far been approved at a value of Rs.1.79 crores. Others are being processed.
- An international consultant was appointed in Feb, 2000 to perform the task of review of mining/environmental policies/legislation's/standards and mechanism for monitoring compliance. The final report of the consultant will be ready by Feb., 2001.
- Mapping and digitization work for 86 districts has been completed ;for preparation of District Zoning Atlas. Environmental Management Plans have been prepared for Kanpur and Haldia in West Bengal. For others action is in progress.
- Collection of primary data completed. A draft GIS based information system for Pichavaram mangrove developed. Foreign consultant for conducting WAC studies appointed. Draft guidelines for Environmental Impact Assessment for ports and harbors have been finalised and the same for other sectors such as marine transportation, tourism and waste disposal are being developed. Foreign consultant to prepare ICMAM plan for Chennai has been selected and the plan is being developed for which key issues have been identified.
- All the nine technical groups have completed their draft phase-I reports. Development of Relation database management system is in progress.
- Creation of Website is in advance stage of completion.
- Procurement of equipment through the procurement consultant has been finalised and supply is awaited.
- The consultant has submitted first Draft Report.
- 28 training programmes organised and 9 publications brought out.

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- The reasons for shortfalls are delays in finalisation of Project Implementation Plans, owing to delayed appointment of the consultant.
- Under this component there have not been major shortfalls but some shortfalls were due to delays in finalisation of the revised Project Implementation Plan.
- Delay in appointment of consultants and revision of Project Implementation Plan (PIP).
- Delay in approval of TORs for engagement of consultants.
- Delay in appointment of foreign consultants.

- Delay in approval of TORs.
- Delay in finalisation of specifications.
- Delay in appointment of consultant.
- Delay in finalisation of partner institutions.

**112. INDIAN INSTITUTE OF BIO-DIVERSITY**

(Rs. in Crores)

<b>Name of the Activity</b>	<b>BE</b>	<b>Actual Expdt.</b>	<b>Physical Targets</b>	<b>Physical Achievements</b>
<b>Indian Institute of Bio-diversity</b>	0.50	Nil	Fencing of land and its development for construction of building	Due to delay in approval of the Scheme, no action could be initiated