

**CHAPTER-11 C-2**

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

**111. INDIRA GANDHI NATIONAL FORESTRY ACADEMY (IGNFA), DEHRADUN**

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.(ul)to OCL99)	Physical Targets	Physical Achievements
IGNFA	1.75	1.09	a) Training of IFS Probationers	55 IFS Probationers of 1997 batch currently undergoing on the job training. 31 IFS probationers of 1998 batch currently undergoing professional phase training.
			b) Conduct of Induction Courses.	Induction Courses for SFS officers promoted to IFS underwent training for two and half months.
			c) Compulsory Courses	2 Compulsory Courses were conducted for 1 week & 2 weeks training.

**112. STATE FOREST SERVICE AND RANGERS COLLEGES**

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt(u p to Oct'99)	Physical Targets	Physical Achievements	Reasons for shortfall, if any.
<b>SFS and Rangers Colleges.</b>	1.30	0.64	Training of SFS Officers in 3 colleges - 6 courses.	3 courses	Due to inadequate demand from State Governments.
			Training of Forest Rangers in EFRC Kurscong - 2 courses	--	do
			Theme based courses in Forestry for in service Forest Officers with 25 participants - 3 courses	2 course	--
			Refresher Courses for in-service SFS Officers with 35 participants each - 12 courses	8 courses	--

			Courses on computer application in Forestry for inservice Forest Officers with 35 participants each - 6 courses	4 courses	--
			Training of Trainers courses - 2 courses	1 course	--

### 113. INDIAN INSTITUTE OF FOREST MANAGEMENT (IIFM), BHOPAL

(Rs. in Crores)

Name of the Activity	BE	Actual Release	Physical Targets	Physical Achievements
<b>IIFM</b>	2.70	2.02		
PGDFM/MRM			1 + 1 batch	1+1 batch
Research Studies/ Consultancies				On going Projects will be completed and some new projects have been started

### 114. INDIAN PLYWOOD INDUSTRIES RESEARCH AND TRAINING INSTITUTE (WIRITI), BANGALORE.

(Rs. in Crores)

Name of the Activity	BE	Actual Release (upto Dec.99)	Physical Target	Physical Achievements
<b>IPIRITI</b>	0.70	0.53	i) Continuation of 14 ongoing research projects.	All the 14 ongoing research projects were taken up out of which 2 have been completed upto Oct. 1999 and the reports are to be released.
			ii) Establishment of Particle Board and Finger Jointed Lumber Unit.	Not yet set up. Awaits SFC approval.

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

(Rs. in Crores)

Name of the Activity	BE	Actual Release	Physical Targets/Achievements
----------------------	----	----------------	-------------------------------

		(upto Dec.99)	
<b>ICFRIE</b>			
Research			
a) General component.	35.00	26.25	
b) Externally Aided Component.	32.00	16.00	
c) Education & Training	2.00	1.50	

**\* ICFRE Headquarter:**

Formulation of Research Plan of ICFRE institutes. State Forestry Research Plan and National Forestry Research Plan, Software and Procedure of Management Information System. Training on statistical methods and design for middle/senior level Scientists of ICFRE. Publication of quarterly timber/Bamboo Trade Bulletin, Forestry Statistics in India 1996 published.

**Forest Research Institute, Dehradun**

Physiological effects of water stress on some forestry species. studies of 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., Bamboo undertaken. Studies on agro-forestry system for development of suitable agroforestry models.

**Tropical Forest Research Institute, Jabalpur**

Development of model research nurseries and studies of important nursery technology of NIPT species. Development of seed technology of Albezia procera & Gmelina arborea, yield and productivity studies in short rotation Leak plantation, Investigation on allelopathic effect of forest tree species on agricultural crops.

**Arid Forest Research Institute, Jodhpur**

Demonstration trials in hard and zones of Rajasthan. Study of ex-situ rain water harvesting and stand density. Integrated pest management of forestry insect pests.

**Institute of Wood Science & Technology, Bangalore**

Planting Stock Improvement Programme for Teak. Casuarina- Eucalyptus, Sandal arid bamboo. Model Nursery. Identified provenance areas for genetic improvement of sandal. Invitro arid invivo propagation techniques for mass production of high quality planting stock of Sal.

**Institute of Forest Genetics & Tree Breeding, Coimbatore**

Genetic improvement of Eucalyptus camaldulensis and Casuarina equisetifolia. Standardization of optimum storage condition of A.indica. Standardisation of germination method in Tectona grandis. Development of Neem for various agro-ecological regions in India.

### **Institute of Rain & Moist Deciduous Forest Research, Jorhat.**

Bio-ecological studies on the forest insect pests. Studies on successional changes under shifting cultivation. Disease management of important tree species of north east. Study of seed biology. Ecological monitoring of biological forestry.

### **Institute of Forest Productivity, Ranchi**

Studies on suitable strains of biofertilizers include VAM fungi, Identification of MPT species, Tree crop interaction studies. Reclamation of coal mine overburdened areas, Lac development and its market studies.

### **Himalayan Forest Research Institute, Shimla**

Techniques for afforestation of cold desert areas. Agroforestry and Silvi-pasture in lower hills, Conservation of indigenous species of western Himalayas provenance trials of poplars.

## **SURVEY AND UTILISATION OF FOREST RESOURCES**

### **116. FOREST SURVEY OF INDIA (FSI)**

(Rs. in Crores)

<b>Name of the Activity</b>	<b>BE</b>	<b>Actual expdt. (upto 31.10.99)</b>	<b>Physical Targets</b>	<b>Physical Achievements</b>
<b>FST</b>	7.41	3.96		
a) Forest Inventory (area in sq. km)			40,000	27,402
b) Thematic Mapping (1:50,000 scale)			50 map sheets.	I
c) Vegetation Mapping (1:2,50,000)			181 map sheets.	58 map sheets
d) Training (number of persons trained)			90	71
e) Data Processing (area in sq.k-m)			40,000	20.399

### **117. FOREST CONSERVATION**

Under the Scheme, Strengthening of Forest Divisions, 7 Regional Offices are implementing the Forest (Conservation) Act and monitoring of Environmental Clearances accorded by the Ministry under Environment (Protection) Act. The physical and financial targets/achievements during 1999-2000 are as under:

(Rs. in Crores)

<b>Name of the Activity</b>	<b>BE</b>	<b>Actual Expenditure (upto Oct 99)</b>	<b>Physical Targets.</b>	<b>Physical Achievements. (upto Sept '99)</b>
---------------------------------	-----------	---	--------------------------	---

<b>Strengthening of Forest Division.</b>	4.50	2.01	a) Monitoring of Forest Conservation Projects approved under FCA, 1980. Target: 950	450
			b) Monitoring of Environmental Projects approved under EPA, 1986. Target: 400.	200

## 118. FOREST PROTECTION AND REGENERATION

(Rs. in Crores)

Name of the Activity	BE	Actual Release (upto Oct'99)	Physical Targets	Physical achievements
Association of Scheduled Tribe and Rural Poor in Regeneration of Degraded Forests.	2.10	1.65	Implementation of Work programme for the year 1999-2000 in 13 States covering 3330 ha. of degraded forest and maintenance of spill over work	Work programme for 1999-2000 for rehabilitation of 3330 ha. Including maintenance of assets created in the VIII Plan approved for 13 States and central assistance released.

## 119. NATIONAL FORESTRY ACTION PLAN (NFAP)

(Rs. in crore)

Name of the Activity	BE	Actual Release (upto Dec, 99)	Physical Targets	Physical Achievements
NFAP	0.15	0.02	Release of NFAP. Finalisation of reports of North East Forest Policy Committee and Bhatt Committee and finalisation of the IFA. 1927 (Amendment) proposals. Holding of workshop for seeking support to NFAP from international agencies.	Released NFAP in 3 Volumes. Held conferences Oil "International Agencies" support to NFAP-India" during September, 1999. NE Forest Policy Committee visited North East and Bhatt Committee met thrice to formulate "Action Plan for Forest Sector for next 20 years".

## 120. MODERN FOREST FIRE CONTROL METHODS IN INDIA

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical targets	Physical Achievements
CSS for Introduction of Modern Forest Fire Control Methods in India.	3.10	1.91	11 States to be assisted.	Target will be fully achieved

## WILDLIFE

### 121. NATIONAL ZOOLOGICAL PARK

Name of the Activity	B.E.	Actual Expdt. (upto 31.10 99)	Physical Targets	Physical Achievements
Development work in NZP	0.25	0.17	Raising of boundary wall of zoo. Raising of boundary wall of car parking and cycle shed. Construction of overhead tank. Drinking water network.	in progress. Some works have been completed.

### 122. WILDLIFE INSTITUTE OF INDIA (VVII)

Name of the Activity	BE	Release	Physical Targets (No. of persons)	Physical Achievements (No of persons)
WII	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 Workshop/ Courses.			245	110

### 123. STRENGTHENING OF WILDLIFE DIVISION AND CONSULTANCIES FOR SPECIAL TASKS

(Rs. in Crores)

Name of the Activity	BE	Actual Expenditure (Upto Oct. 99)	Physical Targets	Physical Achievements
----------------------	----	-----------------------------------	------------------	-----------------------

<b>Strengthening of Wildlife Division</b>	2.00	1.02	To provide funds for establishment, office expenses and travel for Regional Offices. Central Wildlife Division and Consultancies for Special Tasks.	Target will be achieved.
---	------	------	---	--------------------------

#### 124. NATIONAL PARKS AND SANCTUARIES

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt. (till Oct. 99)	Physical Targets	Physical Achievements	Reasons for shortfall, if any
<b>Development of National Parks and Sanctuaries.</b>	12.00	10.13	To provide assistance for 250 National Parks & Sanctuaries.	Assistance was provided to State Govts./UTs for 159 (as on Nov. 99) National Parks and Sanctuaries.	

#### 125. CENTRAL ZOO AUTHORITY (CZA)

(Rs. in Crores)

Name of the Activity	BE	Actual Expenditure (till Oct 99)	Physical Targets/ Achievement
CZA	12.00	5.60	Seven rescue centres in six States are being established to rehabilitate circus animals. Financial assistance continued to be provided to State Governments/Corporations. "Future Search Workshop" planned to be convened in Dec. 99 at Hyderabad with partial assistance from UNDP. Research projects/ training programmes continued to be sponsored.

#### 126. ANIMAL WELFARE BOARD OF INDIA (AWBI)

(Rs. in Crores)

Name of Activity	BE	Actual Expdt.	Physical Targets/Achievements
<b>AWBI</b>	4.23	2.75	*

--	--	--	--

\*Assistance has been released to 78 Animal Welfare Organisations.

9,917 operations on stray dogs as a part of ABC programme have been carried out. 149 Animal Welfare Training Programmes have been conducted. The scheme has since been transferred to Ministry of Social Justice and Empowerment.

### 127. PROJECT TIGER (PT)

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt. (upto Nov.99)	Physical Targets	Physical Achievements
PROJECT TIGER - Conservation and Protection	17.00	10.43 )	Release of Assistance to 25 Tiger Reserves for habitat development, fire Protection Development, Construction of buildings, Roads, Improvement of Infrastructure for Communication and mobility.	Annual work Programme of all the 25 Tiger Reserves have been approved for development works. The progress against physical targets is being monitored.

### 128. ECO-DEVELOPMENT IN AND AROUND PROTECTED AREAS

(Rs in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements
Eco-development in and Around Protected Areas.	9.00	6.50	To provide financial assistance to 25 Project Tiger areas and I 15 National Parks and Sanctuaries.	Development Plans for Eco-development Activities for 17 Project Tiger areas and 97 National Parks and Sanctuaries were Approved and Financial Assistance released to the State Governments.
India: Eco-development Project (World Bank aided Scheme).	55.00	18.87	Release of funds to 7 project States for works relating, to improved Protected Area Management. Village Eco-development Environment Education. Improved Impact Monitoring and Research.	Assistance was given to 7 Project States Ist installment of funds released. Progress is being monitored.

**129. PROJECT ELEPHANT (PE)**

(Rs. in Crores)

Name of the Activity	BE	Actual Exptd. (upto Oct.99)	Physical Targets	Physical Achievements	Reasons for shortfall, if any.
<b>Conservation and Protection of Elephants</b>	5.20	3.03	To assist 12 States for conservation of elephants, habitat development etc.	Assisted 7 States for conservation of elephants.	Process for approval of APO for the remaining states is on,

**130. NATIONAL AFFORESTATION & ECO-DEVELOPMENT BOARD**

(Rs. in Crores)

Name	B.E.	Actual Expenditure (upto 15.2.200)	Physical Targets	Physical achievement
<b>Integrated Afforestation and Eco-development Projects Scheme (IAEP)</b>	38.00	33.73	50591 ha.	39340 ha
<b>Fuelwood/Fodder Projects Scheme (AOFFP)</b>	35.00	22.86	71525 ha.	30332 ha*
<b>Non-timber Forests Produce (including Medicinal Plants) scheme (NTFP)</b>	12.00	10.73	14,000 ha.	8224 ha*
<b>Grants-in-aid scheme (for voluntary agencies)</b>	2.00	1.57	50 Projects	40 agencies assisted
<b>Seed Development Scheme</b>	1.80	0.39		18 States assisted

**131. BENEFICIARY ORIENTED SCHEME FOR TRIBAL VILLAGES OF PROJECT TIGER AREA, NATIONAL PARKS AND WILDLIFE SANCTUARIES**

(Rs.in Crores)

Name of the Activity	BE	Actual Release (upto Nov.99)	Physical Targets	Physical Achievements
----------------------	----	------------------------------	------------------	-----------------------

<b>Relocation of the tribal families from the protected areas</b>	4.50	1.69	Relocation of 450 Tribal families from Kunu Palpur W.L. S. in NTP and Nagarhole National Park in Karnataka.	Assistance has been provided to the Government of MP and Karnataka for Relocation of Tribal families.
---	------	------	---	---

### 132. BOTANICAL SURVEY OF INDIA (BSI)

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt. (up-to Oct. 99)	Physical Targets	Physical Achievements
BSI	4.10	2.00	Exploration surveys 13 7 tours	47 tours
			Collection of specimens Ca 15483.	--
			Preservation of specimens Ca. 9136	--
			Coverage of species under threat in the publication of the Red Data Book - 250	Manuscript is ready
			Publication. -221	5 published. 16 in press

### 133. ZOOLOGICAL SURVEY OF INDIA (ZSI)

The ZSI is responsible for the exploration and survey of faunal resources and research on Taxonomy, biology, ecology, wildlife, animal population and behaviour. Its achievements during the year are as under:

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt. upto Sept. 99)	Physical Targets	Physical Achievements (upto Sept. 99)
ZS1	3.25	1.40	*	**

#### \*Physical Target

- a) Exploration and survey - 56.
- b) Status survey of endangered species - 1.
- c) Taxonomic studies - 7 Studies
- d) Publication.
- e) Computerisation of collected data.
- f) ENVIS ON Animal Ecology.

**\*\*Physical Achievements**

- a) Exploration and Survey - 12  
 b) Status survey of endangered species - Nil  
 c) Taxonomy Studies:  
 Fauna of Sikkim - Mss in press  
 Fauna of Manipur - Data being analysed  
 Fauna of Iqjni Wetland - Mss under review.  
 Fauna of Mizoram - Work in progress  
 Fauna of Nagaland - Work in progress  
 Fauna of Samber Lake (Raj.) - Mss in final stage  
 Fauna of Desert NP - Mss in final stage  
 Faunal bio-diversity of Gulf of Mannar Biosphere Reserves - Mss in final stage
- d) Publication:  
 Fauna of India (Larval Trematodes Part-III and Reptilia:Crocodylia Vol.-H) - Mss under review  
 Fauna of India Diptera: Choloropidae - Mss in camera ready stage  
 Records Zool. Survey India - Vol-97 Part-1 and Part.-2 published  
 Annual Reports of ZS 1 94 and 95 - Publication work in progress  
 Bibliography of India Zoology - Vol. 30 published Vol.29 under print  
 State Fauna of Meghalaya - Vols. 4, 6, 9 in press Vol.51, 7 in CRC stage  
 State Fauna of West Bengal - Vol.8, 10 and 11 under print.
- e) Computerisation of collected data - 150 entries made.
- f) Data collection - 100 entries made.  
 Publication of news letter- in progress

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

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt.	Physical Targets	Physical Achievements	Reasons for shortfall, if any
<b>1. Environment Education &amp; Training</b>	3.60	2.91			
<b>i) NEAC-</b>			Different activities under the campaign to be completed	The campaign is in advanced sage and would be completed in time.	
<b>ii) Estt. Of Eco-clubs*</b>			1200	1730	
<b>2. Seminar/Symposia/ Workshops</b>	0.30	0.17	65	39	Nil

\* No separate allocation has been made for these programmes.

### 135. ENVIRONMENTAL POLICY AND LAW

(Rs. in Crores)

Name of the Scheme	B.E.	Actual Expdt.
<b>1. Environment Policy &amp; Law Activities:</b>	0.25	0.07
<b>a) Environment Policy &amp; Law</b>		
<b>b) Eco-mark scheme</b>		
<b>c) Comprehensive National Environment Policy</b>		
<b>d) Trade &amp; Environment</b>		
<b>2. National Environment Tribunal</b>	1,50	--

Physical Target:

1. Environment Policy & Law Activities:

- a) Preparation of rules. Amendment of Cess Act, Publication of notification.
- b) Publication of Eco-mark. Assistance to Comparative Testing Programme. Development of criteria and publication of notification. Promotion of ISO 1400 Standards.
- c) Preparation of a document on National Environment Policy.
- d) Holding of seminars. Preparation of Position Paper.

2. National Environment Tribunal

- Setting up of Benches of the Tribunal.

Physical Achievement:

1. Environment Policy & Law Activities:

- a) One notification brought out Cess Amendment finalised.
- b) 3 issues of Eco-mark Newsletter published. Draft report on Comparative Testing prepared. A report on Green Rating is being executed.
- c) The State of Environment Report has been released on 5.6.99.

### 136. WORLD BANK AIDED INDUSTRIAL POLLUTION CONTROL PROJECT

(Rs. in Crores)

Name of the activity	B.E.	Actual Expdt.
1. World Bank aided Industrial Prevention Control Project. Industrial Pollution Prevention Project (Phase-II)	15.00	7.00

Physical Target:

Industrial Pollution Control Project (Phase-II)

Procurement of equipments for 4 SPCBs. viz. Andhra Pradesh. Karnataka, MP and Rajasthan.  
 Provision of facilities for the tabs in the SPCBs of the four States mentioned above.  
 Imparting, of training to the personnel of PCBs.  
 Provision of funds to industries for waste water recycling projects.  
 Provision of fund, to Gujarat for software procurement and training under the GIS Project,  
 Upgradation of training package under the waste Minimisation Circle. 1 training programmes for  
 facilitators to be organised. 60 Circles to be established. 4 newsletters to be issued,

### Achievements

Equipments have been procured under IFB IA and B.  
 Facilities have been provided in the SPCBs of Andhra Pradesh. Karnataka. MP and Rajasthan.  
 Training has been imparted to PCB personnel in the various subjects of Environment  
 Management.  
 Funds have been provided to one project for waste water recycling. More such projects are in the  
 pipeline.  
 A Consultant was appointed. Accordingly, a contract has been signed for procurement of  
 software. WMC project for small scale industries has been implemented. 2 training programmes  
 conducted. 39 circles established- 1 newsletter issued.

### **137. NATIONAL MUSEUM OF NATIONAL HISTORY**

(Rs. in Crores)

Name of the scheme	B. E.	Actual Expenditure (upto Oct. 99)	Physical Targets/ Achievements	Reasons for shortfall, if any
National Museum of Natural History	2.50	2.09	*	The achievements were par at Regional Museums due t non-creation of posts and l of staff strength

\*A large number of Osteological Specimens consisting of skulls/skeletons of various animals  
 were received from M/S. Van Ingen & Van Ingen Studio- Mysore as a gift to the Regional  
 Museum of Natural History. Mysore

A large number of educational programmes, outreach activities were conducted for school  
 children, college students, teachers, family groups, handicapped children and rural public.  
 Second phase of construction of building of RMNH, Bhopal is expected to be completed.  
 Renovation works of galleries of NMNH have been undertaken.

The international Ozone day was observed in collaboration of the Ozone Cell, in the FICCI  
 Golden Jubilee Auditorium on 16<sup>th</sup> September. 1999 on behalf of the Ministry of Environment &  
 Forests.

Collection of works of specimens for NMNHs. Bhopal and Bhubaneswar were partially  
 achieved.

The 31st Conference of the international Association of Transport & Communication Museums  
 held in New Delhi from 14th to 19th November. 1999 where delegates from various countries

participated. A short session of the said conference was held in the NMNH on 18th November 1999.

The NMNH made a presentation of paper to the delegates on the topic "Role of Animals in Transportation and Communication - The Indian Scenario". Temporary exhibitions were organised on various occasions.

### 138. ENVIRONMENTAL IMPACT ASSESSMENT

(Rs. in Crores)

Name of the Scheme	BE	Actual Expdt.	Physical Target/Achievements	Reasons for shortfall, if any
<b>Environmental Impact Assessment</b>	1.60	0.77	The objective of Impact Assessment division is to assess the Impact of any development Projects from Environment angle which is referred to this Ministry. Therefore there is no physical target and achievement.	--

### 139. CIVIL CONSTRUCTION UNIT

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt. (upto Oct,99)	Physical Targets (No. of works)	Achievements (No. of works)	Reasons for shortfalls if any	
					Under PE Progress	Sanction awaited
					(No. of works)	
Forests & Wild Life	3.40	1.21	33	5	17	11
Ecology & Wild Life	6.10	4.41	47	17	19	11
Environment Education/Training/Extension	2.50	1.70	6	-	5	1
Civil Works	1.40	1.03		--	--	--
<b>Grand Total</b>	<b>13.40</b>	<b>8.3</b>	<b>86</b>	<b>22</b>	<b>41</b>	<b>23</b>

### 140. ENVIRONMENTAL INFORMATION SYSTEM (ENVIS)

(Rs. in Crores)

Name of the scheme	BE Plan	BE Non Plan	Actual Expenditure Plan	Actual Expenditure Non Plan (upto Oct,99)	Physical Targets/Achievement
ENVIS	1.50	0.30	1.42	0.14	*

\* Physical Target and Achievements:

- Two ENVIS Centres 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.
- A Home-page of the Ministry has been set up and could be browsed at URL:  
<http://envfor.nic.in>
- ENVIS has also started publishing a monthly newspaper namely "Enviro News" reporting various programmes, achievements, laws, rules, clearances etc. This Newsletter would be 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.
- ENVIS has started implementing the Sustainable Development Networking Programme (SDNP) of UNDP and IDRC, Canada.
- A web site has already been developed which can be browsed under URL:  
<http://sdnp.delhi.nic.in> and is regularly updated.
- 8 SDNP nodes have been identified to be set up in Delhi.

**141. CENTRES OF EXCELLENCE**

(Rs. in Crores)

Name of the scheme	BE	Expdt.(upto Dec. 99)	Physical Target and Achievements
<b>CENTRES OF EXCELLENCE</b>	<b>0.50</b>	2.73 )	-All the Seven Ccntres continued their ongoing activities in their respective fields. M.Tech, Programme in Environment Science and Engineering was continued at the Centre of Mining. Environment. Dhanbad. Herbarium-cum- Taxonomy Museum was developed at TBGRI, Thiruvananthapuram. MoU were signed by all the Centres with the Minister. The CENIDE. Delhi has taken up construction of its building and recruitment of Staff.

**142. NATIONAL NATURAL RESOURCES MANAGEMENT SYSTEMS (NNRMS)**

(Rs. in Crores)

Name of the scheme	BE Plan	Actual Expdt. Plan(upto Oct,99)	Physical Targets/Achievements
NNRMS	1.00	0.20	

Physical Target & Achievements:

A few new thrust areas already identified by the Bio-Resource Committee have been covered and 13 new projects areas have been supported. Monitoring of the ongoing projects are being taken up during the year.

### 143. PARYAVARAN VAHINI

(Rs in Crores)

Name of the scheme	BE	Actual Expdt. (upto Oct,99)	Physical Targets/Achievements
Paryavaran Vahini	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.

### 144. GRANTS-IN-AID TO PROFESSIONAL SOCIETIES

(Rs. in Crore)

Name of the scheme	BE	Actual Expdt. (Upto Oct.99)	Physical Targets/Achievements
Grants-in-aid to Professional Societies	0.10	Nil	No numerical target has been Set Up under this scheme. but proposals received from the various organisations have been considered and decision will be taken soon by a Committee constituted under the scheme.

### 145. NATIONAL RIVER CONSERVATION DIRECTORATE

(Rs. in Crores)

Name of the activity	BE	Actual Expend. (Upto Oct.99)	Physical Target (No. of Schemes)	Physical Achievement (No. of Schemes)	Reasons for shortfall, if any
1. GAP-1	2.00	0.00	5	0	It is expected that the targets will be achieved.
2. GAP 11	120.0	51.00	39	29	

	0				
3. NRCP (incl. of estt.)	76.00	35.48	14	12	
4.NLCP			--	-	

- i. For the first time, the financial performance of the National River Conservation Directorate will cross Rs. 150 crores. Capacity to treat 149 mld (million litres per day) of sewage has been created in 1999-2000, thus totalling to all over all capacity to treat 937 mld of sewage under tile River Action Plans.
- ii. The performance under Ganga Action Plan Phase-II gained momentum with 29 schemes having been completed in 1999-2000. The Yamuna Action Plan and the Gomti Action Plan Phase-I are nearing completion. 12 more schemes were completed under National River Conservation Plan.
- iii. With a keen concern for health- it has been decided to synchronise the environmental standards to be fulfilled under the NRCP with those prescribed by the CPCB for disposal into water bodies and for use for irrigation.
- iv. For the first time in India and probably in the world- standards for levels of faecal coliforms and faecal streptococci that call be permitted in waste waster after treatment in the sewage treatment plants under the NRCP have been set.
- v. NRCD decided to adopt the norms of water supply as recommended by the Ministry of Urban Development for the various categories of towns in the country. These norms will be made use of when providing assistance for scheme for sewage diversion and treatment.
- vi. With an intention to recycle water and put it to beneficial use. it was decided to encourage tile use of treated waste water for irrigation,
- vii. A committee of NGOs. Environmentalists and Public Health Engineers was constituted to recommend measures for implementation under GAP Phase-11 to make it more effective, The recommendations- of this committee are given serious consideration in the NRCD when formulating plans- technologies and strategies for the future.
- viii. An important achievement in 1999-2000 has been tile switch over from power intensive capital intensive technologies to eco-friendly technologies \\hich are cheaper and easier to maintain. It has been categorically established that tile waste stabilisation pond technology is the most effective technology for treatment of waste water with a view towards controlling organic loads and microbial loads.
- ix. Tile involvement of local bodies in tile implementation of the NRCP has been made mandatory right from the planning stage before considering the proposal for sanction in the NRCD.
- x. With a view towards adopting a holistic approach towards the task of improving the environmental sanitation conditions in totality, comprehensive plans covering water supply, sewage collection, diversion and treatment- solid waste management and public awareness campaigns are under implementation in Kanpur and in tile final stages of preparation for Varanasi in Uttar Pradesh.
- xi. A plan for the comprehensive protection of waterways in the four metropolitan cities of Delhi, Mumbai. Calcutta and Chennai is being prepared in a phased manner for approval.

#### **146. WETLAND CONSERVATION PROGRAMME**

(Rs. in crores)

Name of the Activity	BE	Expenditure upto 31.10.99)	Physical Targets	Physical Achievements
<b>WETLAND CONSERVATION PROGRAMME</b>	3.00	2.75	*	An expenditure of Rs.3 crore is likely to be incurred against allocation of the same amount. The MAPs received from State Governments in respect of Loktak, Rudrasagar, Harike, Kajjili, Ropar and Sambliar are likely to be finalised soon.

**\* Physical Targets for 1999-2000**

Release of financial assistance for the MAPs of 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. Converting 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 research projects.

**147. ASSISTANCE FOR ABATEMENT OF POLLUTION**

(Rs. in Crores)

Name of the scheme	BE	Expenditure (upto Oct.99)	Reasons for shortfall, if any
<b>Assistance For Abatement of Pollution</b>	0.75	0.40	Nil

**148. REIMBURSEMENT OF WATER CESS**

(Rs. in Crores)

Name of the scheme	BE	Expdt. (upto Oct. 99)	Targets and Achievements
<b>Reimbursement of Water Cess (Non-Plan)</b>	44.80	26.12	No physical target

**149. TAJ PROTECTION MISSION**

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt. (upto Oct'99)	Physical Targets	Physical Achievements	Reasons for short
<b>TAJ PROTECTION MISSION</b>	50.00	Nil	Protection of the environment in and around the Tai Mahal	10 projects are under various stages of implementation	Awaiting for UC a Plan of expenditure from the UP Government

**150. CENTRAL POLLUTION CONTROL BOARD**

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Target/ Achievements
<b>CENTRAL POLLUTION CONTROL BOARD</b>  Procurement of land for building	8.00	2.39	The goals set for IXth Plan are being achieved in phased manner which includes: Continuation of on-going programmes of water and air quality monitoring, Pollution Control in highly polluting industries and industries discharging wastewater into rivers. Implementation of action plans in respect of problem areas. Review of standards and development of standards and guidelines in respect of industries and other sources. Continuation of on-going programmes on hazardous waste inventorisation.

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

(Rs. in Crores)

Name of the activity	BE	Actual Expilt. (upto Oct'99)	Physical Target/ Physical Achievements
Environmental Audit	0.20	0.04	<u>Targets:</u> Promotion, training and awareness programmes and analysis of environment statements. <u>Achievements:</u> Training programmes in the sectors of distillery and fertiliser were sponsored. A publication on Environmental Audit on has been brought out. Proposals for training programmes in pulp and paper sector and analysis of environmental statements are being processed.

Environmental Statistics and Mapping	0.10	0.10	<u>Targets:</u> Preparation of environment atlas for metro cities. Preparation of Coastal Environment Management Plan in the region between Visakhapatnam and Kakinada. A proposal "Geochemical base line mapping for environmental management"* from NGRI at a total cost of Rs. 11.02 lakhs is under consideration. <u>Achievements:</u> Continuing. Continuing.
Adoption of Clean Technologies in Small Scale Industries	10.10	0.02	<u>Targets:</u> Training & awareness programmes, waste minimisation studies. <u>Achievements:</u> Waste Minimisation demonstration studies in dye and dye intermediate industry completed, 5 proposals oil waste minimisation demonstration in different sectors, and a proposal on training and awareness programme is under consideration.

## 152. CLEAN TECHNOLOGY

(Rs. Crores)

Name of the Activity	BE	Actual Expdt. (upto Oct'99)	Physical Target	Physical Achievements	Reasons for shortfall, if any
1. Sustainable Development Strategies  2. Development & promotion of clean technology	5.5	0.30	Undertake new studies.	Actions initiated for new LCA & Carrying Capacity studies	--

## 153. BIODIVERSITY CONSERVATION

(Rs. in crores)

Name of the Activity	BE	Actual Exp	Targets/Activities
Bio-diversity Conservation	0.75	0.1	

### 1. National Action Plan

Bio-diversity 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 realization of actual and potential value of biological diversity. Emphasizing the need for conservation and analysing provisions of the Convention, the draft identifies the basic goals and thrust areas and outlines action points for various subjects. During the year, the document was approved and is now being published.

## 2. Legislation

India's richness in biological resources and indigenous knowledge relating to them is well recognized. 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 Biodiversity 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. This has been done through a consultation process with the stakeholders, local people, industry, practitioners of indigenous systems of health care and medicine, technical and academic institutions, state governments, institutions of self government, trade and business. Further action for introducing the bill in the Parliament is underway.

## 3. Biosafety Protocol

Biosafety means minimizing the potential risks to human health and the environment from the handling and transfer of living modified organisms produced through modern biotechnology,

Recognizing the potential risks of genetically engineered organisms, the Convention on Biological Diversity (CBD), has addressed this issue of biosafety as it is commonly called in the Articles 8(g), 19.3 and 19.4.

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 finalize and adopt the protocol is being prepared.

## 4. UNDP/GEF project on BSAP

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 Biodiversity Strategy and Action Plan (BSAP) project. The BSAP project envisages assessment and stock taking of Biodiversity-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 Biodiversity conservation. These detailed State level action plans will be consolidated and a national level action plan will be developed.

The BSAP 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 BSAP project, a Steering Committee has been constituted.

#### 154. ASSISTANCE TO BOTANIC GARDENS:

This Scheme is aimed at conservation and propagation of plant and genetic resources. Its achievements in the year are given below:

(Rs, in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements
Assistance to Botanic Gardens	1.10 *	0.51	0,51 Providing financial support to 15 Botanical Gardens	10 Botanic gardens were provided financial support.

\*out of this. Rs.0.50 crores is for National Botanical Gardens, Noida.

#### 155. RESEARCH AND ECOLOGICAL REGENERATION

(Rs. in Crores)

Name of the activity	BE	Actual Expdt.	Physical Targets/ achievements
Research & Development	3.50	1.52	

\*Physical targets/achievements

Identification of thrust areas of research. Initiation of new projects: 30. Servicing of ongoing projects: 110. Review & monitoring of ongoing projects: 110.

Identification of thrust areas of research completed. Initiation of new projects: 14. Servicing of ongoing projects: 106, Review & monitoring of ongoing projects: due for 3" and 4 h quarter.

During 1999-2000, it is envisaged to initiate 30 new projects including multi-institutional coordinated projects. Against this 14 new projects have already been sanctioned. Budget Estimate of Rs.3.5 crore has been earmarked for the various activities under the scheme.

The B.P. Pal National Environment Fellowship Award for Bio-diversity 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.

### 156. G.B. PANT INSTITUTE OF HIMALAYAN ENVIRONMENT & DEVELOPMENT

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt. (Upto 31.10.99)	Physical Targets	Physical Achievements	Reasons for shortfall, if any.
<b>GB Pant Institute of Himalayan Environment &amp; Development</b>	9.50	1.60			
<b>(a) R&amp;D and Office Expenditure</b>			Besides strengthening on-going R&D projects in identified six core Programme and activities of another core Programme have been initiated.	Work continued in identified core Programme: alongwith new core Programme.	Work area restricted- new project initiation delayed due to insufficient manpower and funds.
<b>(b) Construction of Buildings</b>			Initiation of school and dispensary at HQs. Completion of work at Kullu and initiation of works at Panthang.	Construction of School and dispensary initiated by CCU through CPWD, Works at Kullu completed Buildings inaugurated in April, 99. Work initiated at Panthang	Progress of construction works also affected due to in-adequate funds.

### 157. INTEGRATED ACTION ORIENTED R&D AND EXTENSION PROJECTS IN HIMALAYAN REGION

Name of the Activity	BE	Actual Expdt. (upto Oct,99)	Physical Targets	Physical Achievements
<b>integrated Action Oriented Eco-development</b>	1.00	0.22	Continuation of ongoing projects and new projects.	Satisfactory

### 158. HAZARDOUS SUBSTANCES MANAGEMENT

Name of the Activity	BE	Actual Expenditure (upto Nov,1999)	Target/Achievements	Reasons for short-fall, if any
<b>Hazardous Substances Management</b>	6.05	1.31	*	It is anticipated that tile total budget will be utilised.

\*Target/Achievements

- i. Amendments to the Manufacture, Storage and Import of Hazardous Chemical Rules. 1989 have been finalised after incorporating comments received on the preliminary notification dated 21.2.99 and vetted by the Law Ministry. Approval of the Competent Authority is being sought for final notification.
- ii. Amendments to the Chemical Accident (Emergency Planning, Preparedness and Response) Rules, 1996 to enable establishment of Emergency, Response Centers (ERCS) has been drafted.
- iii. Amendments to the Hazardous Wastes (Management and Handling) Rules. 1989 have been finalised after incorporating all the comments received on the preliminary notification dated 8.1.99. They will be gazetted after vetting by the Law Ministry and approval of the Competent Authority.
- iv. Imports of the following metallic wastes for recycling after careful scrutiny of the environmental sound management of the wastes by units have been permitted for imports namely; zinc ash, zinc skimming, brass dross and copper cable. A procedure for import of recyclable wastes was also finalised.
- v. An Indian Mini Chemical Profile on Management of Chemicals sponsored by the WHO was prepared with the objective of collating and documenting information on chemical safety and chemical emergency programmes of the Government and non-governmental agencies in the country.
- vi. Four State Pollution Control Boards have been financed during 1999 for identification of 5 sites for selling up of Landfills through EIA.
- vii. Two training courses on Toxic Chemicals and Environment were held at Hyderabad and Baroda which are organised by Environment Protection Training and Research Institute, Hyderabad and funded by the WHO.
- viii. Six feasibility studies on industrial safety and disaster prevention and 4 studies on Hazardous Wastes Management have been undertaken and funded under Japanese grant agreement.
- ix. The meeting of the Co-ordination Committee constituted under Central Crisis Group to monitor the post-accident situation due to chemical accidents was held on 3.6.99 to review, the fire incident in chemical godown at Lai Kuan- Delhi, It has also reviewed the follow-up action of the Off-site Emergency Plan prepared for the Government of NCT-Delhi.
- x. Fifth edition of Red-Book containing duties to be performed during emergency, names, addresses and telephone numbers of the State Governments, State Pollution Control Boards, Chief Inspectorate of Factories., Experts/Institutions have been published and circulated. Information is being collected from updating the next edition of the Red-Book.

- xi. A Sub-Scheme entitled "Industrial Pocket-wise Hazard Analysis" had been in operation since Eighth Five Year Plan. Out of 180 Hazard Prone industrial pockets, 55 Hazard Analysis Studies. 47 studies have been completed and report prepared. In the current reporting 8 Hazard Analysis Studies are being conducted through consultants. Eight more industrial pockets are being identified for consideration of financial assistance to the consultants. Based on the recommendations of the Hazard Analysis Report 3 Off-site Plans namely, Rourkela, Barotmi-Begusarail and Guwahati-Bongaigaon are being prepared.
- xii. Financial assistance for conducting training programmes on Emergency Preparedness and Accident Prevention have been released to Federation of Indian Chambers of Commerce (FICCI), Human Resource Development Foundation (HRD), New Delhi, Disaster Management Institute (DMI), Bhopal. MP Pollution Control Board, Bhopal. Dr. M.N. Tondon Charitable Trust, Jaipur and National Safety Council (NSC).
- xiii. The draft for the revision of Rules for Manufacture, Use, Import, Export and Storage of Hazardous Micro-organisms/Genetically Engineered Organisms or Cells. 1989 has been notified by the Ministry on 11<sup>th</sup> February, 1999 to invite suggestions/comments from the public. The objections/comments from the public. The objections/comments recommended so far are under examination.
- xiv. The Ministry has issued final notification on Recycled Plastics Manufacture and Usage Rules, 1999 on 2<sup>nd</sup> September, 1999. The Implementation Monitoring Committee (IMC) constituted under the chairmanship of Chairman, Central Pollution Control Board for follow-up of the recommendations of the National Plastic Waste Management Task Force has been holding regular meetings.
- xv. The Ministry issued the final notification on 14<sup>th</sup> September, 1999 to conserve top-soil, prevent the dumping and disposal of fly ash discharged from coal or lignite based thermal power plants,
- xvi. A draft of the Municipal Solid Wastes (Management & Handling) Rules has been issued by the Ministry of Environment & Forests on 27<sup>th</sup> September, 1999 issuing objections/suggestions from the public within 60 days.
- xvii. An Interim Report on the use of Fly Ash as underground minefill to reduce environmental impact of fly ash was obtained. The project is continuing.
- xviii. An Interim Report on use of Municipal Waste in Road Construction has been submitted by the Central Road Research Institute, New Delhi. The project is on-going.
- xix. The work has been entrusted to Industrial Toxicology Research Centre, Lucknow and National Institute of Science, Technology and Development Studies, New Delhi to set the following two Status Reports on Toxic Chemicals prepared: a) Study on Persistent Organic Pollutants and Preparation of State-of-the Art Report on POP/PIC Chemicals. b) State-of-the-Art on Chemicals and Products whose productions & Import/Export has been banned by other countries but they continue to be produced and used in India.
- xx. The Ministry of Environment and Forests has provided funds to the Fly Ash Mission, Department of Science & Technology for installation of a dry fly ash bagging plant at Badarpur Thermal Power Station. The Department of Science & Technology and Badarpur Thermal Power Station are also contributing funds for the project. The bagging plant will help in bagging of dry fly ash in re-usable bags which may be taken by users of fly ash.

## 159. CONSERVATION AND MANAGEMENT OF MANGROVES AND CORAL REEFS

The Scheme aims at conservation and management of identified mangroves. Its achievements during the year are as follows:

(Rs. in Crores)

Name of the Activity BE	Actual Expdt. (Upto 31.10.99)	Physical Targets	Physical Achievements	Reasons for shortfall, if any
Conservation and 1.50 Management of Mangroves and Coral Reefs.	0.58	MAPs for 12 Mangroves. 2 Coral Reef areas and 5 on-going & 6 new research projects	MAPs for 4 Mangroves. 2 Coral Reef areas and 5 on- going research projects.	MAPs & UCs from the concerned States/UTs awaited. Meeting of Research Sub-Committee to be held.

## 160. BIOSPHERE RESERVE

The Scheme is intended to conserve representative ecosystems its achievements during the year are as follows:

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt.	Physical Targets	Physical Achievements	Reasons for shortfall, if any.
Biosphere Reserve.	2.75	2.33	Convening of meeting of National MAB Committee for approval of MAP in respect of Biosphere Reserves. Evaluation of MAP and research activities.	Meeting of National MAB Committee and Research Advisory Committee held Evaluation proposed in December, 1999.	Not applicable.

## 161. INTERNATIONAL COOPERATION

(Rs. in Crores)

Name of the scheme	BE	Actual Expdt. (upto 26.12.99)	Physical Targets	Physical Achievements

ICEF	0.05	Nil		The Canadians have not donated any commodity. The projects are implemented with the available fund in ICEF.
UNDP CCF-I on <b>Environment Support Programme</b>	6.00	0.75	Implementation of the sub-programme as approved by PMB	Implementation commenced in respect of 22 sub-programmes
<b>Delhi Urban Project</b>	2.00	Nil		The project will be started.
IC Division activities	1.20			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. Implementation of the World Bank assisted Delhi Urban Environment Project.
- 3) Follow-up, implementation, monitoring and evaluation of the approved projects under the UNDP-CCF Programme.
- 4) Follow-up on the MoUs signed with Germany, Russia, Turkmenistan, Tajikistan, Vietnam, China and Iran.
- 5) Follow-up on the Indo-US and Indo-Brazil Common Agenda on Environment.
- 6) Follow-up on the action points related to SAARC Environment Ministers Meeting.
- 7) Building a strong pipeline of new GEF proposals, follow up and implementation of approved GEF projects, to monitor and evaluate their progress. Participation in the GEF Council Meeting held in Washington in May, 1999.
- 8) Assessment of the funding objectives of various lending and donor agencies (multilateral bilateral and private) to facilitate access of more resources for projects.
- 9) Ms. Malti Sinha, Addl. Secretary led a delegation 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.
- 10) Co-ordination Committee meetings to review various Externally Aided Projects in the field of Environment & Forests.
- 11) Shri K. Roy Paul, Addl. Secretary participated in the Workshop on Strengthening South-South cooperation in Environmental Strategies for Sustainable Development organised by Special Unit for Technical Co-operation among developing countries, UNDP in New York during 18-19 October, 1999.
- 12) MEF and Secretary (E&F) participated in the 4th Meeting of the High Level Committee of Ministers and officials of UNEP held in Bonn, Germany on 1. 11.99.
- 13) MoEF participated in various Conference of Parties/Meetings related to UN Convention on Climate Change, Biodiversity, Desertification, Montreal Protocol, Basel Convention and other Conferences in the field of environment.

- 14) 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.
- 15) Ms. Malti Sinha, Addl. Secretary led a delegation to Bangkok during October, 1999 to attend the meeting of the Committee on Environment & Natural Resources Development under the aegis of ESCAP.
- 16) 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 4th June, 1999.

## 162. TAXONOMY CAPACITY BUILDING

(Rs. in Crores)

Name of the Activity	BE	Actual Expdt. (upto 13-1-2000)	Physical Targets	Physical Achievements
TAXONOMY CAPACITY BUILDING	2.50	0.67	To release funds to Centres for Research and Training	Centres identified. Steering Committee set up. Financial assistance being processed.

## 163. ENVIRONMENTAL MANAGEMENT CAPACITY BUILDING TECHNICAL ASSISTANCE PROJECT

(Rs. in crores)

### Physical Targets

1. Submission of draft final report by Administrative Staff College of India (ASCI) for formulation of revised Environmental Research Programme and hands on training of staff on computers,
2. Development of a model environmental economics curricula and training programmes for non-economists. collection of books and journals at centres of research and learning and carryout applied research in Environmental Economics.
3. Finalisation of Project Implementation Plan (PIP) and submission of reports by local consultants for developing emission standards and Total Dissolved Solids in industrial effluents and appointment of international consultants.
4. Appointment of national Consultants for impact evaluation study of National Environmental Awareness Campaign (NEAQ and introduction of Environmental Education (EE) in schools and subirdssion of revamped plans.
5. Establishment of NGO Environmental Action Fund (NEAF) to support programmes in Gujarat on adverse environmental impacts.

6. Strengthening legal capacity of Ministry's Staff and Staff Central/State Pollution Control Board.
7. Review of existing policies/standards and compliance mechanism, Institutional Strengthening and training in mining sector.
8. To map rapidly industrialising districts across India and proposed sites for neNt industrial estates for preparation of "District Zoning Atlas for siting of industries.
9. Development of Geographical Information Systems (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.
10. Strengthening of Gujarat's Department of Environment and Forests and Gujarat Ecology Commission to enhance their capacity, for policy formulation, implementation and monitoring compliance with environmental laws and regulations.
11. Cleaner production activities under Institutional Strengthening in Gujarat.
12. To assist Central Pollution Control Board in upgrading Air Pollution Monitoring System.

### Physical Achievements

1. Inception report received and Project Implementation Plan for 1999-2000 prepared.
2. Monograph on Ecology and Economics and under-graduate textbook in Environmental Economics completed. Faculty up-gradation for 24 completed. 120 participants attended training programmes. Out of 60 research projects 15 projects were commissioned.
3. First report on standards for pesticides manufacturing industry is ready. Local consultants engaged for specific pollutants and development of standards.
4. Consultants for both the studies have been identified.
5. 17 projects have so far been approved.
6. 19 consultants were engaged for different periods. 6 training and fellowship programmes were organised. Materials and books were purchased for library.
7. Some of the policies/standards/Acts relating to Mines and Minerals Acts have been reviewed. Training modules prepared.
8. Mapping and digitisation work for 36 districts has been completed for preparation of District
9. Zoning Atlas. Environmental Management Plans have been prepared for Kanpur and Haldia in West Bengal.
10. Collection of primary data completed. A draft GIS based information system for Pichavaram mangrove developed. Foreign consultant for conducting WAC studies selected. Draft guidelines for Environmental Impact Assessment for ports and harbours have been completed. Foreign consultant to prepare ICMAML plan for Chennai has been selected.
11. Seven technical groups have completed their draft phase-I reports and another two groups have submitted inception reports.
12. Creation of websites has been planned.
13. Procurement of equipment through the procurement consultant is in progress.

### Reasons for shortfall, if any

The reasons for shortfalls are delays in finalisation of Project Implementation Plans, requirement of equipments, hiring of national and international consultants which are attributable to the

lengthy procedures prescribed by the World Bank to be completed before approval by the World Bank. These are applicable to all the components being implemented under the project.

**164. INDIAN INSTITUTE OF BIO-DIVERSITY (11B)**

(Rs. in Crores)

<b>Name of the Activity BE</b>	<b>BE</b>	<b>Actual Expdt.</b>	<b>Physical Targets</b>	<b>Achievements</b>
<b>INDIAN INSTITUTE OF BIO-DIVERSITY</b>	0.50		Acquisition and development of land for setting up of the Institute. Preparation of SFC and memorandum of association.	The State Government is in process of locating land. Draft SFC and memorandum of association prepared.