

## CHAPTER II-C-3

### TARGETS FOR 2000-2001

#### FORESTRY EDUCATION AND TRAINING

##### 165. INDIRA GANDHI NATIONAL FOREST ACADEMY

Advanced phase of training: IFS probationers of 1998-2001, 1999-2002, 2000-2003 courses in different phases.  
5 compulsory courses.  
2 Induction training courses to officers promoted to IFS.  
The budget provision is Rs.2.50 Crores (plan) and Rs.2.85 Crores (non-plan).

##### 166. STATE FOREST SERVICE COLLEGES AND RANGERS COLLEGES.

Training of SFS officers in 3 SFS colleges one each at Dehradun, Coimbatore and Burnihat. Training of Forest Rangers in EFRC, Kurseong.  
12 Refresher Course for in-service SFS officers with 35 participants each.  
7 courses on "Computer Applications in Forestry" for in-service SFS officers with 35 participants each.  
Two Thematic Courses on Bio-diversity Conservation for in-service SFS Officers  
Three months 'Promotion linked Training' courses for ACFs for 30 participants.  
Two week Trainers Training course for 20 participants.  
Course on social forestry and sustainable Rural Development for in-service SFS officers. The budget provision is Rs. 0.75 Crores (Plan) and Rs. 2.08 Crores(Non-Plan)

##### 167. INDIAN INSTITUTE OF FOREST MANAGEMENT, BHOPAL.

MDP/Courses and Seminars/Post Graduate Diploma Course on "Forestry Management/M.Phil. Ph.D. Research Studies.  
Finalisation of status paper of IIFM for die new millennium  
On-going and new research projects to be continued.  
Construction of hostel pliasse-11, Director's bungalow, etc.  
The budget provision is Rs.2.80 Crores (plan) and Rs. 1.05 Crores (Noli-plan)

##### 168. INDIAN PLYWOOD RESEARCH AND TRAINING INSTITUTE (IPIRIT), BANGALORE

10 New research projects are to be initiated along with the 12 on-going projects. Establishment of Particle Board and Finger and Lumber jointing Unit. The budget provision is Rs.0.90 Crores (Plan) and Rs. 1.20 Crores (Non-Plan).

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

Formulation of National Forestry Research Plan, National Forestry Research Action Plan, Development. Testing and Application of MIS MODULES, Planting Stock Improvement programme in different institutes and implementation and monitoring of ongoing research projects, Continuation of training activities on statistical methods and design for middle/senior level scientists of ICFRE and advanced research management training for Heads of Divisions and Directors of ICFRE Institutes. Grants-in Aid to Universities. Publication of quarterly tinier/Bamboo Trade Bulletins. Publication of Forestry Statistics India - 2001.

##### Forest Research Institute, Dehradun

Productivity studies of teak plantations. impact of pollutants on tree species. studies of agro-forestry system and development of suitable agro-forestry models. Evaluation of role of tree plantations on sodic soils. Resin lapping by bore hole method in Pine. Computerization of Herbarium of FRI. Development of adhesives. Photochemical examination. studies of tree borne oil seeds, Ecological impact assessment on bio-reclamation projects.

##### Tropical Forest Research Institute, Jabalpur.

Development of seed technology of petrocarpus. Bio-chemical changes associated with tree seeds arid study of leaf litter decomposition rater. Evaluation of non-wood forest products. yielding species. Preservative application from plant species- Establishment of advance centre for Non-wood forest product. Integrated management of diseases of tree species. Eco-rehabilitation of degraded forest research in tree farming models..

**Arid Forest Research Institute, Jodhpur.**

Demonstration trials in hot and zone. studies on interactive effect of ex-situ rain water harvesting arid stand density, study of shelter belt arid wind corrosion, study of seed borne micro-flora of selected tree species, disease spectrum of and semi-arid tree species, Study of pest problems.

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

Study of anatomical and mechanical properties of plantation grown timber. Computer assisted wood identification, Plastisization of Palms arid bamboo. Development of alternative wood substitutes. Chemical induction in heartwood, sandal and teak wood. Assessment of environmental effects of wood preservatives. Application of pheromone technology for management of teak borer. Studies to termite problems

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

Genetic improvement of forest trees. Evaluation of genetic variability. Development of tissue culture / micro-propagation for selected tree species. Screening of casuarine for problem soils of Tamil Nadu. Impact assessment of silvicultural practices on seed production in Teak, Eucalyptus and Casuarine. Market survey of pricing and utilisation pattern of timber products. Trials of teak plantations.

**Institute of Forest Productivity, Ranchi.**

Collection of germplasm bank for important medicinal plants. Development of silvicultural systems. Use of biotechnology for Biodiversity conservation. Phonology' of important tree species, Eco-rejuvenation of coal mine areas. Management of lac hosts for lac cultivation- Standardisation of nursery techniques of lac host trees.

**Institute of Rain & Moist Deciduous Forests Research, Jorhat.**

Ecological monitoring of Biodiversity and strategy of conserving Kajiranga National Park, developing methods of restoring vegetation on degraded lands, Disease management of forest tree species.

**Himalayan Forest Research Institute, Shimla.**

Establishment and maintenance of PSIP activities. Provenance testing of poplars. Selection of suitable species for cold desert areas, Regeneration of conifers and broad leaf forests. Agro-forestry in lower Himalayan hills. Conservation of indigenous species of western Himalayas.

The budget provision of ICFRE its Institutions for 2000-2001 is Rs.52.25 crores on Plan side and Rs. 11.00 crores on (Non-Plan) side.

**SURVEY AND UTILISATION OF FOREST RESOURCES**

**170. FOREST SURVEY OF INDIA**

S.No.	Item or Work	Unit/Scale	Target
1.	Forest Inventory	Forest Area (in sq. kms.)	40,000
2.	Data Processing	Forest area (in sq. km)	40,000
3	Thematic Mapping	Sheets of 1:50,000 scale	50 map sheets
4	Vegetation Mapping	Sheets of 1:2.50,000 scale	181 map sheets
5	Persons to be trained		90

The budget provision for 2000-2001 is Rs.3.00 crores (Plan) and Rs.4.81 crores (Non-Plan).

## 171. FOREST CONSERVATION

Physical targets for monitoring of cases under FCA, 1980 and EPA are given below:

Forest (Conservation) Act	Environment (Protection) Act
950	400

The budget provision is Rs.4.50 crores on Plan side under the scheme "Strengthening of Forest Divisions".

## 172. FOREST PROTECTION AND REGENERATION

It is proposed to extend assistance to all States/UTs under the scheme 'Modern Forest Fire Control Methods' for control of forest fire. The budget provision is Rs. 14.00 crores on the Plan side.

## 173. ASSOCIATION OF SCHEDULED TRIBES AND RURAL POOR IN REGENERATION OF DEGRADED FORESTS ON USUFRUCT SHARING BASIS.

Release of central assistance for implementation of work programme for the year 2000-2001 in project implementing State under the Scheme for rehabilitation of 3340 ha. of degraded forest land and maintenance of assets created during the VIII Plan.

The budget provision is Rs.4.00 crores on Plan side.

## 174. NATIONAL FORESTRY ACTION PLAN (NFAP)

Finalisation of reports of NE Forest Policy Committee, Bhatt Committee and the amendment proposals of Indian Forest Act 1927. Holding of negotiation with the International aid agencies for supporting forestry programmes proposed in the NFAP.

The budget provision is Rs.0.20 crores on Plan side.

## 175. WILDLIFE

300 Sanctuaries and National parks will be assisted under the National Parks & Sanctuaries scheme. The management and protection of 25 Tiger Reserves will be continued. Assistance will be provided to 12 Project Elephant Range States for conservation and protection of elephants.

The budget provision is Rs. 15.85 Crores for development of National Parks and Sanctuaries. Rs. 17.00 Crores on Plan side and Rs. 0.06 crores on Non-Plan side for Project Tiger and Rs.5.00 Crores on Plan side for Project Elephant.

## 176. ECO-DEVELOPMENT PROJECT

The India Eco-Development Project will be implemented in the seven identified National Parks/Sanctuary including Tiger Reserves to achieve improved protected area management, village eco-development, environment education and awareness campaign etc.

The on-going Government of India Eco-Development Scheme will be continued 80 National Parks and Sanctuaries and 25 Project Tiger Areas will be assisted. The budget provision is Rs.54.33 Crores (including externally aided India Eco-development Project).

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

The on-going activities to fund establishment, office expenses and travel expenses of Central Wildlife Division and Regional Offices will continue. Funds will also be used to provide Consultancies for special tasks sponsored by the State Governments.

The budget provision for 2000-2001 is Rs. 1.75 crores on Plan side.

## 178. WILDLIFE INSTITUTE OF INDIA

Sl.No.	Course	Target (No. of persons)
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1.	M. Sc. course in Biology	12
2.	PG Diploma in Wildlife Management	20
3.	Certificate Course in Wildlife Management	20
4.	Short Courses/Field Workshop	250

The budget provision is Rs.4.50 crore on the Plan side and Rs. 1.45 crore on the Non-Plan side.

#### 179. NATIONAL ZOOLOGICAL PARK

Construction work of new enclosures/modification in the existing enclosures will be taken up along-with other captive breeding activities. The budget provision is Rs,0.50 Crore on the Plan side and Rs. 2 7 Crores on the Non-Plan side.

#### 180. Central Zoo Authority

All on-going activities including grant to various zoos in the country as per revised EFC Memo. for IXth Plan will continue. The budget provision is Rs.8.00 crores on the Plan side.

#### 181. BENEFICIARY ORIENTED SCHEME FOR TRIBAL DEVELOPMENT.

The relocation of 1000 tribal families outside the protected areas, in Nagarhole National Park (Karnataka) Bandipur T.R. (Kar), Kunu Palpur W.L. Sanctuary (M.P.), Chandak Champa (Orissa), Sariska T.R. and Ranthanibhore (Rqjasthan) will be taken up.

The budget provision is Rs.4.00 crores on Plan side.

#### 182. NATIONAL AFFORESTATION & ECO-DEVELOPMENT BOARD(NAEB)

The scheme wise break up of physical and financial targets of various afforestation schemes being implementing under the NAEB are given below:

Name of the Scheme	(Rs. in Crores)	
	BE	Physical target for 1999-2000
Integrated Afforestation and Eco-Development Projects Scheme	72.50	70,000 ha.
Fuelwood/Fodder Projects Scheme	31.00	76,655 ha.
Non-Timber Forests Produce (including Medicinal Plants) Scheme	16.00	19,000 ha.
Seed Development Scheme	1.45	22 States to be assisted
Grants-in-aid Scheme (for Voluntary - Agencies)	2.50	50 projects

#### 183. BOTANICAL SURVEY OF INDIA

(Rs. in crores)

Name of the Activity	B.E.	Physical Target
<b>Botanical Survey of India</b>	5.50(Plan) 11.00 (Non-Plan)	
Exploration Surveys		14 Surveys
Collection of specimens (Nos.)		20,000 Approx.
Preservation of species(Nos.)		15,000 Approx.
Coverage of specimens under threat in the publication of Red Data Books.		250 Approx.
Publication of Books/Journals		50

#### 184. ZOOLOGICAL SURVEY OF INDIA

The Budget provision for the year 2000-2001 for ZSI is Rs. 5.50 crore on Plan side and Rs.9.93 Crores on Non-Plan side and the Activities proposed to be undertaken and physical targets against each activities are given below: -

Name of Activity	Physical Target
Exploration and Survey of Faunal Resources	63 surveys
Taxonomic Studies: (a) Fauna of Manipur (b) Fauna of Ujni Wetlands (c) Fauna of Mizoram (d) Fauna of Nagaland (e) Fauna of Sikkim (f) Fauna of Sambhar Lake (g) Fauna of Desert N.P. (h) Faunal Diversity of Gulf of Mannar Bio-Reserves	Analysis of the data to be completed Volume to be published Volume to be published. Volume to be published. Volume to be published. Volume to be published. Volume to be published. Final Volume to be reviewed for publication
Publication: (a) Fauna of India  (b) Records of ZSI (c) Annual Report of ZSI (d) Bibliography of Indian Zoology (e) Fauna of Tripura (f) State Fauna of Meghalaya (g) Occasional Papers	Larval Trematodes Part -11, Reptilia: Crocodilia Vol-II and Diptera:Chloropidae are to be published. Volume 97 and 98 to be published. Volume 94 and 95 to be made press ready. Numbers 29 & 30 to be published. Volumes 1-4 to be published. Volume 4-7, 9 to be published. Volume 8, 10 and 11 to be published Nos. 170-185 to be published.
Computerization of Collected data	Existing activities to be continued.
ENVIS on Animal Ecology	Data collection to be continued and News Letters to be published half-yearly basis.
Renovation of Zoological Galleries and Musea	7 Regional Stations to be taken on priority and also Bird Gallery of HQrs.
Training and Extension Programme	I Course in Field Ornithology to be conducted during February, 99.
EIA Surveys for other agencies.	As and when assigned.

#### 185. ENVIRONMENT, EDUCATION AWARENESS & TRAINING

(Rs. in Crores)

Name of the Scheme	BE	Targets
<b>Environment Education &amp; Training</b>	4.22(Plan)	The existing programmes will be continued
<b>Seminars/Symposia/Workshops</b>	0.30 (Plan)	70

#### 186. ENVIRONMENTAL POLICY & LAW

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
1. Environmental Policy & Law Activities. a) Environment Policy & Legislation  b) Eco-mark scheme.  c) National Environment Policy.  d) Trade & Environment.	0.25	- Preparation of rules. - Amendment of Cess Act. - Publication of notification. - Publicity to Eco-mark. - Assistance to Comprehensive Test Programme. - Development of Criteria & Publication of notification. - Promotion of ISO 1400 Standards. - Preparation of a document on National Environment Policy. - Holding of Seminar - Preparation of position paper.

2. National Environment Tribunal	0.50	- Setting up of Benches of Tribunal.
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### 187. WORLD BANK AIDED INDUSTRIAL POLLUTION CONTROL PROJECT

(Rs. in Crores)

Name of the Scheme	BE	Physical Targets
World Bank aided Industrial Pollution Prevention Project (Phase-II)	22.00	Procurement of equipments for 4 SPCBs, viz Andhra Pradesh, Karnataka, NW and Rajasthan.  Provision of facilities for the labs 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 funds to Gujarat for software procurement and training under the GIS Project Upgradation of training package under the Waste minimisation Circle. 100 circles to be established. 4 newsletters to be issued.

### 188. NATIONAL MUSEUM OF NATURAL HISTORY (NMNH)

The budget provision for 2000-2001 is Rs.2.50 crores on Plan side and Rs.0.74 crores on Non-Plan side.

Targets for 2000-2001,

- Collection of specimens for new exhibits in NMNH galleries.
- Initiation of relevant collection works for the RAINH, Bhubaneshwar.
- Collection of specimens. preservation. fabrication and production of exhibits as per requirements for the Regional Museums of Natural History. Mysore. Bhopal and Bhubaneshwar to be continued.
- Completion of second phase of galleries at RMNK Mysore.
- Completion of second phase of galleries at RMNT-I, Bhopal
- Networking with relevant institutions/organisations for effective educational programmes and activities of the National Museum of Natural History.
- Development of a Multimedia. Interactive Exhibit on Earth and Solar System at the Entrance of 1<sup>st</sup> gallery, of NMNH.
- Renovation and updating of Exhibits on origin of the Earth Exhibition unit in the I<sup>st</sup> Floor of NMNH.

### 189. CIVIL CONSTRUCTION UNIT(CCU)

(Rs. in Crores)

Name of the Activity	BE	Physical Targets (No. of works)
Forestry & Wild Life	4.75	13
Ecology & Environment	9.50	71
Environment Education/Training/Extension		4
Civil Engineering Wing	1.70	-

### 190. ENVIRONMENTAL INFORMATION SYSTEM (ENVIS)

(Rs. in Crores)

Name of the Scheme	BE Plan	BE Non Plan	Physical Target
ENVIS	1.25	0.28	- A few ENVIS Centres in the emerging areas are proposed to be set up during the year. - Annual Report and the Enviro News' newsletter will be continued to be published by ENVIS - Query-answer service will be provided by the ENVIS network and efforts will be made to provide substantive information as far

		as possible to the users - The Sustainable Development Networking Programme (SDNP) Website will be regularly updated for dissemination of information to all concerned and to develop SDNP as a user network.
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**191. CENTRES OF EXCELLENCE**

(Rs. in Crores)

Name of the scheme	BE	Physical Target
<b>Centres of Excellence</b>	6.00(Plan) 1.50(NP)	Continuation of Environment Awareness Programmes and production of resource material at CEE. Ahmedabad and CPREEC, Chermal. Continuation of M.Tech. Programme and development of training modules for non-coal Mining Sector Executives by the CME, Dhanbad. Completion of Research Projects and initiation of new Projects in the field of Ornithology by the SACON. Infrastructure Development and creation of special garden for physically handicapped and setting up field conservatory for endemics by the TBGRI, Thiruvananthapuram. Initiation of new research projects on bio-diversity, ecology and conservation biology, conservation genetics, animal behaviour and continuation of on going projects in these fields by the CES, Bangalore. The CEMDE, Delhi, will continue construction of its building, purchase of vehicles and recruitment of staff.

**192. NATIONAL NATURAL RESOURCE OF MANAGEMENT SYSTEM (NNRMS)**

(Rs. in Crores)

Name of the scheme	BE	Physical Target
<b>NNRMS</b>	1.00 (P)	Efforts have been made to invite proposals under the scheme from various concerned organisations in the country. It is hoped that more research proposals will be supported under the scheme for the application of remote sensing technologies in the field of environmental sciences. Monitoring of already sanctioned projects will also be undertaken during the year.

**193. PARYAVARAN VAHINI**

(Rs. in Crores)

Name of the Scheme	BE	Physical Target
<b>PARYAVARAN VAHINI</b>	0.05	As per the decision of the Ministry, the scheme is likely to be Transferred to the various States without 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.

**194. GRANTS-IN-AID TO PROFESSIONAL SOCIETIES**

(Rs. in Crores)

Name of the Scheme	BE	Physical Target
<b>PARYAVARAN VAHINI</b>	0.10	Appropriate institutions and organisations will be supported under

		the Scheme to develop the activities and the project in the field of environment and ecology.
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#### 195. NATIONAL RIVER CONSERVATION DIRECTORATE

(Rs. in Crores)

Name of the activity	BE	Physical Target
Ganga Action Plan-I	-	5 Schemes to be completed
Ganga Action Plan-II	-	5 Schemes to be completed
National River Conservation Plan(NRCP) (incl. Of estt.)	200.05	6 Schemes to be completed
National Lake Conservation Plan (NLCP)	10.00	-

#### 196. WETLAND CONSERVATION PROGRAMME

Name of the Activity	BE	Physical Target
MAP & Research under Wetland Programme	3.00	*

\* Physical Targets (Quantitative physical targets cannot be given because the proposals have not been received from the concerned State Governments and agencies.)

- Preparation of MAPs for 2000-2001 and release of funds to the State Government in respect of 20 identified wetlands.
- Convening of meetings of Research Committee on Wetlands.
- Convening of meetings of National Committee on Wetlands.
- Consideration of research projects in the field of wetlands.
- Organisation of workshop for evaluation of progress of ongoing research projects.
- Monitoring of MAPs of identified wetlands.
- Identification of new wetlands.
- Finalisation of guidelines for monitoring mechanism, updating wetland directory.
- International Co-operation.
- Participation related to Ramsar Convention/Standing Committee meetings as India has been elected as Member of the Standing Committee for this triennium.
- Formulating/seeking projects for external financial assistance for Wetland Conservation Programme.
- Seeking information for inclusion of 20 wetlands under Ramsar list as was announced by India in the 7th CoP meeting held in Costa Rica in May, 1999.
- Organising training programmes/workshops for various wetlands conservation components for Senior managers/Research Organisations/Policy Makers/Stakeholders in different parts of the country.

#### 197. ASSISTANCE FOR ABATEMENT OF POLLUTION

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
Assistance for Abatement of Pollution	0.50 *	There is no physical target.

\*(including 0.25 crore for Environment Policy & Law)

#### 198. REIMBURSEMENT OF WATER CESS

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
Reimbursement of Water Cess (Non-Plan)	4.5.00 (NP)	Physical target is normally fixed in consultation with the State Governments and the CPCB in the end of financial year.

#### 199. TAJ PROTECTION MISSION

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
TAJ PROTECTION MISSION	50.00	10 on going projects are at the various stages of implementation and four more new projects have been proposed by the Government of UP and the details projects are under preparation

#### 200. CENTRAL POLLUTION CONTROL BOARD

(Rs. in Crores)

Name of the Scheme	BE Plan	Non Plan	Physical Target
CENTRAL POLLUTION CONTROLBOARD	9.00	7.50	*

##### \*Physical Targets:

An outlay of Rs.9.00 crores is for Plan expenditure. The activities of CPCB are grouped into nine Project Heads. Salient features of each project is summarised as under:

##### Pollution Assessment - Survey and Monitoring

CPCB in collaboration with State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) has set-up Water Quality and Air Quality Network. The expenditure incurred by the State Boards is reimbursed by CPCB. Besides Water and Air Quality Monitoring, there are number of ongoing programmes which include-, survey of polluted river stretches, review of primary water quality criteria, assessment of non-point pollution sources, bio-monitoring of national aquatic system and assessment of pollution from point sources. State specific surveys are also taken up through the Zonal Offices of CPCB.

##### Laboratory Management - Operation Maintenance and R&D

CPCB has set-up a laboratory facility, at its Head Office and the Zonal Offices have also been provided with minimum laboratory facilities. The strengthening of laboratories is an on-going activity and the laboratories are to be strengthened from time to time for undertaking analysis of critical pollutants. The new parameters have been added-up for analysing the bio-medical waste, hazardous waste and other important toxicants like Polychlorinated biphenyl. CPCB has also proposed R&D schemes relating to various aspects of prevention and control of pollution. The regular analytical quality control tests and training to the staff of Pollution Control Boards is proposed.

##### Development of Standards, Guidelines and Eco-mark

CPCB has already developed Standards for disposal of treated liquid effluents and gaseous emission in respect of major polluting categories of industries. Some of the standards need to be reviewed from time to time taking technological improvement into consideration. It is proposed to undertake review of standards in respect of those categories of industry which have already been covered.

##### Training.

CPCB is proposing to undertake training programmes for the benefit of SPCBs/PCCs, Regional training programmes would be conducted through Expert institutions and ZOs. The important areas which will be covered under the training include; Bio-medical waste, Municipal solid waste, Cleaner technologies, Vehicular noise pollution control and others.

### **Information (Data-base) Management**

This is an on-going programmes under which major expenditure is on the operation and maintenance of existing network. Some of the documents of CPCB are placed at internet facility.

### **Pollution Control Enforcement**

The important activity under the Pollution Control Enforcement is to ensure compliance of 17 categories of polluting industries and industries discharging waste water into rivers and lakes. The Action Point prepared by restoration of environmental quality in the critically polluted area is also under implementation through the concerned SPCBs. As an on-going activity under the Environment Surveillance Programme it is proposed to have regular inspection/visits of polluting industries and also undertake compliance to the various Court's directive. The other on-going programmes include-. Preparation of Zoning atlas, chlorine use and optimisation in India, Environmental Audit, Noise pollution control. monitoring of compliance for bio-medical and municipal solid waste and others.

### **Pollution Control Technology**

Under this Project head, studies on existing treatment technologies and performance of technologies for cleaner production are taken tip. The important on-going programmes include, performance evaluation of sewage treatment plants, risk assessment in chemical industries, control of noise levels from gensets, treatment technology for distillery effluent, root zone treatment and others.

### **Mass Awareness, Publication and NGOs**

This is an on-going project under which programme relating to mass awareness are taken up. The activity also include; Publication of reports on various aspects relating to prevention and control of pollution.

### **Hazardous Waste Management**

The important on-going programmes under this project head include; inventorisation of hazardous waste in various States. development of Standards for leachate from hazardous waste dump site, Assessment of hazardous waste disposal facilities in industries. organising training and workshop. follow -ups of Committees constituted for hazardous wastes/chemicals.

## **201. ASSISTANCE TO BOTANIC GARDENS**

(Rs. in Crores)

<b>Name of Activity</b>	<b>BE</b>	<b>Physical Targets</b>
<b>ASSISTANCE TO BOTONIC GARDENS</b>	1.75	Inviting proposals from Botanical gardens for improvement of infrastructural facilities. Providing financial support to about 15 gardens. Review of achievements.

## **202. CLEAN TECHNOLOGY**

(Rs. in Crores)

<b>Name of the Activity</b>	<b>BE</b>	<b>Physical Targets</b>
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<b>1.Sustainable Development Strategies.</b>	5.00	Sectoral Policy, Analysis – LCA for Coal Sector. New proposals for - demonstration of Clean Technology.
<b>2. Development and Promotion of Cleaner Technologies</b>		

### 203. ENVIRONMENTAL AUDIT, CLEAN TECHNOLOGY, ENVIRONMENTAL STATISTICS AND INTAPPING

(Rs. in Crores)

Name of the Activity	BE	Physical Target
<b>Environmental Audit</b>	0.20	Promotion through training and awareness programmes. Preparation of sector specific manuals. Analysis, evaluation and assessment of environmental statements.
<b>Environmental Statistics and Mapping</b>	0.10	Preparation of Environment Atlas for metro-cities and other major cities depicting pollution data.
<b>Adoption of Clean Technologies in Small Scale Industries</b>	0.10	Training and awareness programmes. waste minimisation demonstration studies preparation of sector specific manuals.

### 204. ENVIRONMENTAL IMPACT ASSESSMENT

(Rs. in Crores)

Name of the Scheme	BE	Physical Target
<b>Environmental Impact Assessment</b>	1.60(P) 0.09(NP)	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 as such there is no physical target.

During the year 2000-2001 the following studies will continue:

#### 1) Sustainable Development Plan for environmental protection of Kutchch district, Gujarat:

National Council for cement and Building Materials Ballabharh, Haryana has been entrusted with this study with the objective to establish baseline environmental and ecological studies of Kutch region, which is one of the most backward but ecologically fragile and has become the focus of development in recent years.

The total cost of the project is Rs.32.16 lakhs. The project likely to be completed by March 2000, So far we have released Rs. 16.00 lakhs. The fourth interim progress report has been received.

#### 2) Studies on the Evaluation and characterisation of Natural and Alternate Sand Resources in selected Zone of Andaman and Nicobar Islands for use in civil work:

CBRI, Roorkee has been entrusted with this study with the objective to Identify Sand resources out side the CRZ in selected Andaman and Nicobar Islands for use in construction and to explore other alternate sources of sand which could be used as part or full replacement of natural sand in construction work. The total cost of the project is Rs. 13.20 lakhs, The project is likely to be completed by end of 1999.

During 2000-2001 all efforts will be made to take decision on 80 to 100 percentage of projects received, by simplifying the procedure and improving its format for environmental clearance certain deficiencies and procedural gaps were identified. In order to rectify the same

the questionnaire has been updated with a view to computerising the same so that entrepreneurs will be able to submit their requisite information in a floppy and the experts assessing the project can examine it on the computer and receive the same.

Recommendation of the workshop sponsored by the Ministry on "Strategy for sustainable development of the coastal area" held from 1-3 November, 1999 will be implemented during the year 2000-2001.

#### 205. RESEARCH AND ECOLOGICAL REGENERATION

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
Research & Development	3.15	Initiation of new projects:30. Servicing of ongoing projects: 120. Review & monitoring of ongoing projects: 120. Publication of executive Summaries of completed research projects: 150.

#### 206. GB PANT INSTITUTE OF HIMALAYAN ENVIRONMENT AND DEVELOPMENT

(Rs. in Crores)

Name of the Activity	BE Physical Targets
<b>GB PANT INSTITUTE OF HIMALAYAN ENVIRONMENT AND DEVELOPMENT</b>	4.50
<b>(a) R&amp;D activities and other expenditure. Construction of Buildings.</b>	Continuation and strengthening of R&D activities and completion of existing works and initiation of some new construction activities.

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

(Rs. in Crores)

Name of the Activity	BE	Physical Targets
<b>INTEGRATED ACTION ORIENTED R&amp;D AND EXTENSION PROJECTS IN HIMALAYAN REGION</b>	0.45	Continuation of on-going projects and new Projects

#### 208. HAZARDOUS SUBSTANCES MANAGEMENT

(Rs. in Crores)

Name of the Scheme	BE	Physical Targets
<b>HAZARDOUS SUBSTANCES MANAGEMENT</b>	14.10	*

During 1999-2000, it is proposed to continue various programmes outlined below and monitor (the implementation of this programme. In addition, intensive interactions with State Departments of Environment, State Pollution Control Boards are envisaged for effective implementation of rules on Management of Hazardous Substances and Chemical Crisis Management. Outline of the activities proposed is given below:

Proposed activities.

- a) Augmentation of Infrastructure for enhanced compliance of regulation on Hazardous Substances.
- b) Capacity and capability building of the 4 Tier Crisis Groups including establishment of Emergency Response Centres and Poison Control Centres.
- c) Programmes and activities in the area of Accident Prevention and Emergency Planning, Preparedness and Response.
- d) Augmentation of training facilities and conduct of training courses for training in accident prevention and emergency preparedness and hazardous waste management.

- e) New regulatory regime. amendments to existing regulations and implementations of Acts/Rules.
- f) Developmental projects/studies and pilot plants.
- g) Implementation of various provisions of Bio-medical Waste (Management and Handling) Rules, 1998 and Municipal Solid Waste (Management and Handling) Rules.
- h) Setting up of two Hazardous Wastes Treatment. Storage and Disposal Facilities (TSDF) in the country for Hazardous Waste in the country.
- i) Identification of contaminated sites and remediation of Hot Spot.
- j) Elaborate policies and programmes for Sound Management of Hazardous Chemicals and Wastes lead acid battery, waste oil, etc..
- k) Formulation of New Schemes under Indo-Canadian bilateral agreement.
- l) Elaborate policies and programmes for sound management of Bio-medical and Urban Solid Waste -Common incineration facilities. land disposal facilities. etc.
- m) Follow-up implementation and policy initiations on Agenda-21, Expert Committee, Basel Convention, PIC, POP APELL and IFCS.
- n) Follow up implementation and policy initiations due to Public Interest Litigations in High Court and Supreme Court.

## 209. BIO-DIVERSITY CONSERVATION

(Rs. In crores)

Name of the Activity	BE	Physical Targets
Bio-diversity Conservation		

- Physical Targets
  - Initiation of the preparation of Biodiversity Strategy and Action Plan.
  - Formulation of legislation on Biodiversity, Organisation of consultations on specific aspects relevant to Biodiversity, e.g, biosafety, IPRs, benefit sharing, ex-situ collections, modus-operandi etc.
  - Implementation of the decisions of the Conference of Parties Commissioning of studies addressing specific aspects relating to Biodiversity
  - Organising consultations on Biodiversity
  - Conservation of medicinal plants
  - Conservation and management of sacred groves
  - Conservation of coastal and marine Biodiversity.

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

(Rs in Crores)

Name of the Activity	BE	Physical Targets
CONSERVATION AND MANAGEMENT OF MANGROVES AND CORAL REEFS	5.00	15 MAPs on Mangroves, 4 MAPs on Coral Reefs and 5 on-going & 6 new research Projects to be undertaken.

## 211. BIOSPHERE RESERVES (BRs)

(Rs. in Crores)

Name of the Activity	BE	BE Physical Targets
BIOSPHERE RESERVES	3.50	Preparation of Management Action Plan for 2000-2001 and 3.50 release of Central assistance to designated Biosphere Reserves. Convening of Meeting of National MAB Committee. Convening Meeting of Scientific Advisory Group. Evaluation of on-going research projects. Monitoring of Management Action Plans,

## 212. INTERNATIONAL COOPERATION

(Rs. in crores)

Name of the scheme	BE	Physical Targets
UNDP-GOI CCF-I	7.00	Implementation will commence for various sub-programmes
Delhi Urban Project	3.50	The project will be implemented.
ICEF 0.03	0.03	The project will be implemented with the available funds in ICEF.
IC Division activities	--	Existing activities will continue.

1. Participation in the Eighth 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 proposals, follow-up and implementation of approved GEF projects, to monitor and evaluate the progress.
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. Co-ordination Committee meetings to review various Externally Aided Projects in the field of Environment &, Forests.
11. Participation in various Conference of Parties/Meetings related to UN Convention on Climate Change, Bio-diversity, Desertification, Montreal Protocol, Basel Convention and other Conferences in the field of Environment & Forests.

### 213. TAXONOMY CAPACITY BUILDING PROJECT

(Rs. in crore)

Name of the Activity	BE	Physical Targets
Taxonomy Capacity Building project	2.50	<ul style="list-style-type: none"> <li>- Release of funds to the Centres for Research and Training</li> <li>- Organising review of workshops</li> <li>- Convening of Steering Committee meetings.</li> </ul>

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

(Rs in crores)

Name of the Activity	BE	Physical Targets
ENVIRONMENTAL MANAGEMENT CAPACITY BUILDING TECHNICAL ASSISTANCE PROJECT	32.00	The original planned activities under the sub-component included for implementation in the World Bank aided project on Environmental Management Capacity Building will be continued to ensure achievement of the objectives within the remaining period of the project.

### 2 15. INDIAN INSTITUTE OF BIO-DIVERSITY (1113)

(Rs. in Crores)

Name of the Activity	BE	Physical Targets
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<b>INDIAN INSTITUTE OF BIO-DIVERSITY (IIB)</b>	--	Construction of buildings and necessary infrastructure. Recruitment of staff Design and implementation of research in priority areas.
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