

## CHAPTER II-C-3

### TARGETS FOR 2002-2003

#### FORESTRY EDUCATION AND TRAINING

#### 163. INDIRA GANDHI NATIONAL FOREST ACADEMY

1. Training of IFS probationers of 2000-2003, 2001 -2004 and 2002-2005 course in different phases.
2. Two Professional Skills Upgradation courses for IFS officer promoted from SFS.
3. Five compulsory courses.
4. AFM Courses for IFS Officers of 10 ,17 and 21 Years of Service.

BE for the year 2002-03 under Plan is Rs.7.50 Crores (including Rs.4.00 Crores in Externally Aided Project).

#### 164. STATEFOREST SERVICE COLLEGES AND RANGERS COLLEGES

<b>Physical Targets</b>	
a) Two years Diploma Course in Forestry for SFS officers at State Forest Service College, Dehradun.	2 courses.
b)Two Year Certificate Course for Forest Rangers in three colleges viz. State Forest Service College, Burnihat/Coimbatore & Eastern Forest Rangers College, Kurseong.	6 courses
C) Two week Refresher Course for In-service SFS officers with 35 participants each course.	12 courses
d) Three week course on Computer Application in Forestry for In-service Forest Officers with 25 participants in each course.	8 courses
e) Two-week Advance Course on Computer Application in Forestry for In-service Forest Officers with 25 participants in each course.	2 courses
f) Two week Theme Based Courses in Forestry for In-service SFS Officers.	8 courses
g) Two week "Refresher Course" for Rangers with 30 participants in each course.	2 courses
h) Two weeks "Trainers Training" course s with 20 participants in each course.	2 courses
i) Courses for sister organizations on request	2 courses
j) Six weeks "Promotion Linked Training" for A.C.Fs with 30 participants in each course( <i>subject to approval of ministry</i> ).	2 courses
K) Six months "Promotion Linked Training" for Rangers promoted from lower grade with 30 participants in each course( <i>subject to approval of ministry</i> ).	2 courses
l) Special course proposed under Umbrella Project(HRD) for which outlay has been proposed in the Tenth Plan(Vision Paper) of the Directorate.	27 courses

BE for the year 2002-03 under Plan is Rs.1.50 Crores & and under Non-Plan is Rs.7.06 crore.

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

Sl. No.	Physical Targets
1.	Construction of Executive Hostel & Staff quarters
2.	Furniture for PFM Class room/PFM/Office
3.	Proc urement of books & journals
4.	Replacement of vehicle
5.	Development and maintenance of garden, nursery, filling of soil, tree plantation at vanika
6.	More MDPs, Workshops consultancy and research projects have been planned
7.	to carry out sanctioned research project and to under take new projects
8.	Establishment of centre for education in natural resource management, National forest data centre, policy cell etc.
9.	Academic exchange programme with national and international institutions etc.
10,	Publication of research paper, discussion papers etc.

BE for the year 2002-03 under Plan is Rs.3.00 crore.

**166. INDIAN PLYWOOD RESEARCH AND TRAINING INSTITUTE (IPIRTI),  
BANGALORE**

Sl. No	Research Projects to be completed
1.	Development of panels from bamboo using bamboo curtain for transport flooring
2.	Development of Room Temperature/curing PF resin suitable for laminated wood products
3.	Development of 'E' tester for large size wood based panel materials.
4.	Improvement of fire retardant properties of plywood by treating veneers with fire retardant chemicals as well as glue line treatment.
5.	Development of jute overlays for panel products.
6.	Enhancement of performance of Chloropyriphos insecticide by resisting its fungal degradation by the use of fungicides like Zinc Napthanate and Chlorothallonol
7.	Field Demonstration and Development of Bamboo Based Composites Panels for Housing in North Eastern Region, in collaboration with BMTPC - sponsored by MoEF -CT
8.	Development of Panel Materials from Chir Pine Needles, Sponsored by the Himachal Pradesh Forest Development Corpn)
9.	Studies on Suitability of plantation grown timbers from Tamil Nadu for plywood manufacture
10.	Study on pollution in plywood industry (subject to approval)
11.	Development of Industrial Model veneer Tenderizing Equipment
12.	Development of efficient veneer finger joint technique
13.	To collect information on timber import with special reference to specimen, size, country of origin, quantitative aspects and the use pattern of imported timber
14.	Strengthening of non-destructive test facilities and development of test methods for panel products
15.	Production management in plywood industries – Preparation of Manual

BE for 2002-03 under Plan is Rs.2.00 crores.

**167. INDIAN COUNCIL OF FORESTRY RESEARCH AND RCUCATION (ICFRE),  
DEHRADUN**

Physical Targets For The Year 2002-2003

**Directorate of Research:** - Implementation of National Forestry Research Plan, priotisation of research projects, review of on-going research projects and formulation of new research projects for seeking financial support from donor agencies will be the main thrust of Directorate of Research. Compilation of achievements of RGF projects and publication of findings and scrutinizing the new projects will be the major activities. Maintenance and monitoring of PSIP assets, its impact assignment will be carried out.

**Directorate of Education:-** Implementation of HRD Plan, Training activities as per HRD plan, Grants-in-aid to Universities. Continuation of M.Sc. courses in Forestry, Wood science & Technology, PG Diploma Courses in Plantation Technology, Pulps & paper.

**Directorate of Extension:-** Implementation of extension strategy of ICFRE, demonstration of technologies through established satellite centers under Extension Support Fund, printing of publicity material and its dissemination, impact assessment of ongoing projects under ESF, Preparation of films, Setting up of well equipped Media Center at ICFRE, Procurement of books and journals. Publication of Annual Report 2001 -2002 for dissemination of activities of the ICFRE. Printing of ICFRE News Letter.

**Directorate of Administration :-** Implementation of Financial Accounting System, payroll etc. in Directorate of Administration. Control of Budget and finalization of Balance Sheet.

**Directorate of Statistics:-** Publication of quarterly Timber/Bamboo Trade Bulletins, publication of Forestry Statistics India – 2001, maintenance and upgrading of NFDBMS to continue, bio-metrical support to research projects of ICFRE will continue.

**FRI, Dehra Dun:-** Genetic improvement of different plant species, maintenance of SPA, CSO, SSO and VMG, *in-vitro* multiplication of various forestry species, marketing of farm forestry species, development of adhesives and Physiochemical examination for utilization of parts of plants. Studies of tree bearing oil seeds, sustainability of soil fertility in natural forest eco-system, ecological impact assessment on bio-reclamation projects, affluent treatment of pulp and paper industries, Joint Forest Management, environmental friendly bleaching of *Poplar* and *Eucalyptus* pulps, development of re-constituted wood, studies of important medicinal plants, biological control of disease, preparation of volume tables, development of agro-forestry models.

**IWST, Bangalore:** Role of bio-fertilizer in eco-restoration, species provenance and clonal tests, trial on *Casuarina*, investigations on potential of medicinal and aromatic plants as a source of potential insecticides, studies on *Entomofauna* of *Mangroves*, application of *Pheromone* technology for management of insects, impact of disturbances of Canopy, insects bio-diversity, pests problems of wood in packing cases, control of bio-deterioration of wood, pests control of Sandal bio-remediation of soil and water contamination with the heavy water, study of *Fauna* of Western Ghat, coastal eco-system.

**TFRI, Jabalpur:-** Identification of NTFPs and its impact in tribal belt, developing agro-forestry system, its model and training, ethno botanical study, environmental implication of teak plantation, impact assessment of mining, pollutant absorbing efficiency of local tree species, management of insect pests of forest nursery, commercial chemical and biological insecticides, maintenance of germ plasm and VAM and *Rhizobium* and other free living bacteria. Genetic improvement of *Gmelina* and other tree species, standardization of roat trainer seedling production protocol, establishment and management of CSO, SSO and VMG of *teak*, silviculture system for poor sites in JFM, seed technology package for *Pterocarpus marsupium* and *teak*.

**AFRI, Jodhpur:-** Demonstration trails in hot arid zone, studies on interactive effect of ex-situ rain water harvesting and stand density, study of shelter belt and wind erosion, study of seed Borne micro-flora of selected tree species, disease spectrum of arid and semi-arid tree species, study of pest problems, study biocidal activities and proteins. All projects approved by the Research Advisory Group shall also be taken up during the year under report. The targets of 200 ha SPA, 26 ha CSO, 55 ha SSPA and 5 ha VMG shall also be fully achieved under Planting Stock Improvement Programme.

**IFGTB, Coimbatore:-** Evaluation of breeding efficiency of Orchards, control crossing within selected provenance of *Casuarina* and *Eucalyptus*, study of inter-population variation in *teak* using DNA markers, assumption of genetics variation using *isozyme/molecular markers*, establishing the multi locational clonal trails and identification of plus tree of *teak*. Micro propagation protocol for *Acasia* and *Eucalyptus*, finger prints of superior *Eucalyptus* clones, purification of anti-fungal protein, selection of salt tolerance clones of *Casuarina*.

**HFRI, Shimla:-** Maintenance of 50 ha Seed Production Areas, 8 ha CSO, 10 ha SSO and 2 ha of VMG, 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 and increasing productivity to man-made forests etc. The projects cleared by RAG will also be taken up during the period under report.

**IRMDFR, Jorhat** Ecological monitoring of Bio-diversity and strategy of conserving Kajiranga National Park, evaluation of tropical moist forest especially Dipterocarps, developing methods of restoring vegetation on degraded lands, disease management of forest tree species in nurseries and plantations, fertilisers response studies for tree species of north east, mycorrhiza screening, methodology to develop alternatives for shifting cultivation. Maintenance of 50 ha SPA, 6 ha CSO, 5 ha SSO and 3 ha VMG.

**IFP, Ranchi:-** Collection of germplasm bank for important medicinal Plants, use of bio-technology for bio-diversity conservation, phenology of important tree species, introduction of exotic species like *Paulownia*, eco-rejuvenation of coal mine areas, studies of mangrove ecosystem in West Bengal, management of lac hosts for lac cultivation, standardisation of nursery techniques of lac host trees. Maintenance of 100 ha SPA, 15 ha CSO, 60 ha SSO and 10 ha VMG and one Model Nursery.

The budget provision of ICFRE and its institutions for 2002-03 is Rs. 35.00crores (Plan) (including Rs.1.00 Crore for N-E Region) and Rs.11.34 crores (Non-Plan).

## 168. IN-SERVICE TRAINING FOR IFS OFFICERS

In 2002-2003 separate allocation of Rs.1.00 Crore has been provided for in-service training of IFS

Officers.

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

### **169. FOREST SURVEY OF INDIA**

(Rs. in Crores)

<b>Name of the activity</b>	<b>BE</b>	<b>Physical Targets</b>
1. Forest Inventory (Forest Area in sq. kms.)	7.00(Plan)	300,000
2. Data Processing (Non- Forest Area in sq. kms.)		300,000
3. Thematic Mapping (No. of Sheets - 1:50,000 scale)	5.49(NP)	50
4. Vegetation Mapping (No. of Sheets - 1:250,000 scale)		181
5. Training (No. of Persons to be trained)		90

### **170. FOREST CONSERVATION**

Physical Targets for monitoring of cases under the Forest Conservation Act, 1980 and the Environment (Protection) Act, 1986 are 950 and 400 respectively.

The budgetary provision is Rs.7.00 Crores under the Plan Scheme “ Strengthening of Forest Divisions”.

### **171. FOREST PROTECTION AND REGENERATION**

The Forest Fire Control and Management (FFCM) Scheme, National Forestry Action Plan (NFAP), and Infrastructure Development Scheme, separate Schemes in the IX Plan, are being merged in the Xth Five Year Plan into a modified Integrated Forest Protection Scheme.

The Budget Estimate for 2002-2003 will be Rs65.00 crores (includes Rs.33 Crores for N-E Region). Assistance will be provided to all States of the country under this Scheme.

The Scheme “Association of Scheduled Tribes and Rural Poor in the Regeneration of Degraded Forests” is being merged with the National Afforestation Programme.

### **172. CENTRAL ZOO AUTHORITY**

The Physical Targets under the CZA Scheme in 2002 -2003 are:

- i. To recognise or de-recognise zoos under the provisions of the Wildlife (Protection ) Act.
- ii. To evaluate zoos with reference to the Recognition of Zoo Rules, 1992 and enforce minimum standards.
- iii. To provide technical and financial support.to zoos with potential to achieve the desired standards.
- iv. To upgrade diagnostic facilities for wildlife diseases in selected veterinary institutes.
- v. To undertake Research Projects in various aspects of zoo management and veterinary care.
- vi. To coordinate proposals for exchange of animals between zoos.
- vii. Proper housing and upkeep of animals in rescue centres received from circuses and Zoos refused recognition.

The IX Plan National Zoological Park (NZP) Scheme is being merged with the Central Zoo Authority Scheme. The targets for the NZP, New Delhi in 2002 -2003 are as below:

<b>Physical Target</b>
------------------------

1. Reptile house renovation.
2. Extension of moat and enclosure of white tiger.
3. Construction of moat, footpath around Thamin deer enclosure.
4. Installation of filtered water pump for lion and other animals.
5. Dismantling of public toilets and Chimpanzee enclosure.

The Budget provision for 2002-2003 is Rs.11.00 Crores on Plan side (including Rs.3.00 Cores for N-E Region). There is a separate Non-Plan allocation of Rs.3.15 Crores for 2002-2003 for Zoological Park.

### 173. WILDLIFE

Under the umbrella Scheme “Development of National Parks and Sanctuaries”, National Parks and Sanctuaries will be assisted, with a budgetary outlay of Rs 76.00 crores (including Rs.7.00 Cores for N-E Region). This Scheme incorporates the IX Plan Schemes “Eco-development in and around Protected Areas” and “Beneficiary Oriented Tribal Development” also.

The management and protection of Tiger Reserves will continue, with a budgetary support of Rs.26.00 Crores on Plan side for 2002-2003 (including Rs.4.00 Cores for N-E Region).

Assistance will be provided to Project Elephant Range States for conservation and protection of elephants, with a budgetary outlay of Rs.9.00 crores on Plan side (including Rs.2.00 Cores for N-E Region)

A new Scheme “Protection of Wildlife Outside Protected Areas” is being introduced in 2002-2003 with an outlay of Rs.5.00 Cores.

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

The on-going activities relating to the Central Wildlife Division and the Regional Wildlife offices will continue. Funds will be provided for undertaking Consultancies for special tasks.

The budgetary provision for 2002-2003 is Rs.2.00 crores on Plan side.

### 175. WILDLIFE INSTITUTE OF INDIA

The physical targets for 2002 -2002 for the Institute are as below:

(Rs. in Crores)

Name of Activity	Physical Target
a) M.Sc. Courses in Wildlife Sciences	12
b) P.G. diploma Course in Wildlife Management	30
c) Certificate Course in Wildlife Management	30
d) Field Workshop/ Short Courses	400

The budgetary provision for 2002-2003 is Rs.7.00 crores under Plan and Rs.1.65 Crores on Non-Plan side.

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

For the year 2002-03 an allocation of Rs.201.00 crores has been proposed for the NAEB at current prices. The scheme wise break up and the physical targets are given below:

(Rs.in Crores)

Scheme	B.E.	Physical target (Area in ha.)
National Afforestation Scheme	163.25	82000

Greening India Scheme	3.00	1500
National Action Plan to Combat Desertification	3.00	600
Maintenance of 9 <sup>th</sup> FYP Plantations	12.00	80000
Grants-in-Aid Scheme for Voluntary Agencies	4.50	70 Projects to be sanctioned for NGOs

#### 177. BOTANICAL SURVEY OF INDIA

(Rs. in crores)

Name of the Activity	B.E.	Physical Target
<b>Botanical Survey of India</b>	10.00(Plan)* 12.39(Non -Plan)	
i) Exploration survey, travel expenses under research and investigation		195 tours
ii) Collection of specimens (nos.)		Ca. 16,000
iii) Preservation of specimens (nos.)		--
iv) Coverage of species under threat under publication of Red Data Books		--
v) Publication Books/Journals		13
vi) National Botanic Garden, NOIDA		--

\*Including provision for Capital works.

#### 178. ZOOLOGICAL SURVEY OF INDIA

(Rs. in crores)

Name of the Activity	B E	Physical Targets
<b>Exploration &amp; Survey of Faunal Resources</b>	8.00 (Plan)* 9.74 (Non-Plan)	<b>65 Surveys</b>
<b>Status Survey of Endangered Species</b>		Status survey of 3 species (3 Surveys)
<b>Taxonomic Studies of State Fauna</b>		34 Surveys covering Arunachal Pradesh, Bihar, Andhra Pradesh, Tamilnadu, Madhya Pradesh, Karnataka, Uttar Pradesh, West Bengal, Gujarat, Maharashtra & Rajasthan ( Total of 34 districts )
<b>Renovation of H Q's &amp; Regional Musea</b>		WRS, CRS, APFS, SRS, MBS, DRS, ANRS.
<b>Computerization of Data</b>		National Zoological collections of Head Quarters & Regional Centres.
<b>Training &amp; Extension Services</b>		Two

<b>Publication</b>	Rec. ZSI Vol- 101, Occ. Papers –10, Fauna of India –2 books State Fauna –2 books( 4 parts ) Memoirs Vol. 19 ( part – 1-4 ) Bibliography – 1 book, Wetland series – 2 books Conservation area – 2 books
--------------------	--

\*Including provision for Capital Works.

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

(Rs. in Crores)

Name of the Scheme	BE*	Targets
<b>Environment Education &amp; Training</b>	19.00(P) 0.75(NP)	The existing programmes will be continued
<b>Seminars/Symposia/Workshops</b>		70 Seminars/Workshops will be financially supported

\*Including Grants-in-aid to Professional Societies.(S.NO.187)

#### 180. ENVIRONMENTAL POLICY & LAW

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
<b>1. Environmental Policy &amp; Law * Activities.</b>		
<b>a) Environment Policy &amp; Legislation</b>		- Amendment of the Environment (Protection) Act, 1986 - Amendment of Cess Act
<b>b) Eco-mark scheme.</b>		- Publicity to Eco-mark - Assistance to Comp. Test. Programme
<b>c) Trade &amp; Environment.</b>		- Holding of seminars - Preparation of a Position Paper
<b>2. Environment Commission &amp; Tribunal</b>	2.50	- Setting up of Benches of Tribunals

\*Budget provision included in Assistance for Abatement of Pollution (Sl.No.190)

**181. WORLD BANK AIDED INDUSTRIAL POLLUTION CONTROL PROJECT**

(Rs. in Crores)

Name of the Scheme	BE	Physical Targets
<b>World Bank aided Industrial Pollution Prevention Project</b>	10.00	<ul style="list-style-type: none"> <li>- Procurement of remaining equipment for 4 SPCBs, viz., Andhra Pradesh , Karnataka, Madhya Pradesh and Rajasthan</li> <li>- Completion of facilities for the labs in the SPCBs of the four States mentioned above</li> <li>- Imparting of training to the personnel of PCBs</li> <li>- Provision of funds to Gujarat for software procurement and training under the GIS project and for the comprehensive GIS</li> </ul> <p>Upgradation of training package under the Waste Minimisation Circle. 3 training programmes for facilitators to be organised. More Waste Minimisation Circles to be established. Newsletters on WMC to be issued.</p>

182 NATIONAL MUSEUM OF NATURAL HISTORY (NMNH)

(Rs. in Crores)

Name of the activity	BE	Physical target
<b>National Museum of Natural History, New Delhi Including Regional offices.</b>	6.00 (including Capital Works)	
1) Acquisition of land and construction of building for NMNH		Efforts will be made to get suitable piece of land allotted for the Museum building through the Ministry of Urban Development
2) Creation of infrastructure And updating the exhibits.		All out efforts will be made to create necessary infrastructure and updating the existing exhibits
3) Educational & extension Services		As done in previous years, educational programmes and extension services will be undertaken throughout the year.
<b>Regional Museum of Natural History, Mysore</b>		
1) Gallery Development		Continuation of the work of development of 2 <sup>nd</sup> Phase and 3 <sup>rd</sup> Phase of Gallery
2) Collection/acquisition of Specimens		Conducting of field trips to collect specimens for 2 <sup>nd</sup> Phase of gallery and also acquisition/purchase of more exhibits.
3) Educational programmes		Conducting/observation of Teacher's Orientation programme, National Environment Awareness Programme, Summer nature Study programme, observation of Wild Life Week, special programmes for physically handicapped persons. Lectures Seminars on different topics.
4) Temporary exhibitions		Plastics and Environment, Pelicans, Fishes etc.
5) Acquisition of Machinery/equipment		Procurement of projectors and computers
6) Establishment of Elephant Resource Centre		Finalisation of details of Elephant Resource Centre and its development

Name of the activity	BE	Physical target
<p><b>Regional Museum of Natural History, Bhubaneswar</b></p> <p>1) Establishment of Office, Technical block, Reserve Collection Room and Library</p>		<p>A) Office:</p> <p>1) Procurement of office furniture</p> <p>2) Office automation, procurement of computer and Peripherals, Intercom system etc.</p> <p>3) Procurement of furniture, Instruments, Carpentry material, Modeling items, Art materials, Easel, drawing boards, tracing tables canvas, Paint etc. for technical block.</p> <p>4) Establishing Audio visual Unit for Multimedia Display, Photographic Display, storing of films, C.D., V.C.D., etc.</p> <p>5) Procurement of Glass door Almirahs, Racks, Cabinets, Insect boxes cabinet, Table with Multiple drawers chemicals, preservatives, mounting materials, specimen containers, Herbarium cabinets, slotted angle racks etc for the Reserve Collection Room.</p> <p>6) Procurement of Books, Reading tables, chairs, Book self, almirah, Journal display Boards with Cabinet , computers etc. for Library.</p>
<p>2. Preparation of theme based exhibits for Ist Phase Gallery, Discovery Center &amp; Multimedia Center. Simultaneously planning for North-East, Evolution and conservation Galleries in 2<sup>nd</sup> Phase</p>		<p>a) Temporary exhibition including corridor display along with four small live corners.</p> <p>b) Development of 1<sup>st</sup> gallery comprising four dioramas and 17 showcases</p> <p>c) Discovery-cum-multimedia center married with information technology.</p> <p>d) Planning for 2<sup>nd</sup> Phase Galleries.</p>
<p>3. Taking up of popular publications for Environment Educational activities</p>		<p>Preparation of manuscripts. Graphic designing and making press ready copy for publication of popular topics related with environment.</p>
<p>4. Collection, acquisition and documentation of display materials along with initial planning of digital Photo-Lab.</p>		<p>A) Field work, collection, Acquisition and documentation of display material.</p> <p>B) Planning for digital Photo lab: Microscope with digital camera system including IM 50 software along with computer system compatible with projection system.</p>
<p>5. Furnishing of conference hall with public address system.</p>		
		<p>Wall paneling, light &amp; sound with Public address system, Individual Microphones, Audio Visual System, Display facility, Interior designing, Air-conditioning carpeting, Tables &amp; chairs etc.</p>

Name of the activity	BE	Physical target
<b>Regional Museum of Natural History, Bhopal</b>		
1) Renovation of Introductory exhibit & Rivers of Central India exhibit in the gallery		To be completed within a year subject to availability of funds and approval
2) Development of Central courtyard exhibit into a open diorama on cretaceous period		Development of theme and conceptual model
3) Mounting exhibition on wetlands for museum mobile van		Award of turnkey project to identified agencies
4) Organising educational activities and programmes		To continue as previous year and project to project basis during the year
5) Development of collections through field trips, donations, loans, purchases etc.		Efforts will be made to procure as much as possible
6) To develop five new Discovery boxes on selected topics		Finalisation of topics and award of work
7) To improve, renovate & Extend the Panoramic chart depicting evolutions of life murals into proper exhibits		Preparation of conceptualized model drawing and award of work
8) To redo introductory panel showing the Central Indian Region with their state birds and animals in to a proper multimedia exhibit		To entrust the work on competitive basis
9) Establishment of Technical Units		Initiation of action to set up various technical units likes carpentry, photographic etc.
10) For furnishing interiors & equipments required for setting up of state of Art Conference Room.		Completion of work on turns key project basis.
11) Repair & upgrading of the computers installed in the Bio-Science computer room & providing facilities for projection of computer images through required AV equipment		Identification of expert agency and award of work
12) Extension/improvement of discovery centre with new	Conceptualization of themes and award of work	

| facilities

| |

|

**183. CIVIL CONSTRUCTION UNIT (CCU)**

(Rs. in Crores)

Name of the Activity	B.E.	Physical targets
Civil Works	2.00	The provision is for minor works and therefore no physical targets.

**184. ENVIRONMENTAL INFORMATION SYSTEM(ENVIS)**

(Rs. in Crores)

Name of the Scheme	BE		Physical Target
	Plan	Non Plan	
ENVIS	2.00	1.74	<ul style="list-style-type: none"> <li>- A few ENVIS Centres in the emerging areas of environment are proposed to be set up during the year.</li> <li>- All ENVIS Centres are targeted to develop its web-site in its assigned subject-area during the year.</li> <li>- Annual Report and the 'Enviro News' newsletter will be continued to be published by the ENVIS.</li> <li>- The quarterly journal, namely, 'Paryavaran Abstracts', reporting environmental research in Indian context, will be continued to be published.</li> <li>- Question-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.</li> <li>- The Sustainable Development Networking Programme (SDNP) web-site will be regularly updated for dissemination of information to all concerned and to develop SDNP as a user network. The regional nodes of SDNP set up earlier will be continued to function.</li> </ul> <p>Under World Bank assisted Environment Management Capacity Building (EMCB) programme for strengthening ENVIS, a large number of ENVIS nodes are proposed to be set up in various State Government departments, pollution control boards, academic institutions, corporate bodies, NGOs, etc., for wide dissemination of environmental information to all concerned.</p>

**185. CENTRES OF EXCELLENCE**

(Rs. in Crores)

Name of the scheme	BE	Physical Target
Centres of Excellence	8.00 (Plan) 1.74 (Non-Plan)	<p>CEs, Bangalore, would complete 25 projects and would continue to bring out research papers. CME, Dhanbad would undertake 4 long term and 9 short term R&amp;D projects, would train 60 personnel and would award 9 M.Tech. Degrees.</p> <p>SACON would undertake construction of essential quarters/buildings, would complete some ongoing projects, would initiate new projects in priority areas and complete GEF funded projects on Indian Wetlands. The remaining Centers would undertake/complete activities in their respective fields, as approved by the respective Governing Councils/Board of Governors.</p>

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

(Rs. in Crores)

Name of the scheme	BE	Physical Target
NNRMS	1.00	Efforts have been made to invite proposals under the scheme from various concerned organisations in the country. It is envisaged 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.

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

(Rs. in Crores)

Name of the scheme	BE	Physical targets and achievements
Grants-in-aid To Professional Societies	*	Guidelines and proforma of the scheme have been finalized and circulated to all concerned. It is envisaged that appropriate institutions and organisations will be supported under the scheme to develop the activities and the projects in the field of environment and ecology.

\*Budget provision included in Environment Education &amp; Training Scheme (S.No.179)

**188. NATIONAL RIVER CONSERVATION DIRECTORATE**

(Rs. in crores)

Name of activity	BE ( Proposed )	Physical Target
1.NRCD (Estt.)	6.00	Balance schemes (if any) to be completed.
2. NRCP	254.00	
3. NLCP	30.00	

**189. WETLAND CONSERVATION PROGRAMME**

(Rs. in crores)

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

\*Budget Provision included in Conservation and Management of Mangroves (S. No 202).

\*\*Physical Targets

- Sanctioning of MAPs for 2001-02 and release of funds to the State Govt. in respect of 20 old identified wetlands and also new wetlands recommended by the National Wetland Committee.
- Convening of meetings of National Committee.
- Organisation of workshop for evaluation of progress of ongoing research projects.
- Sanctioning of new research projects as per guidelines of thrust areas of research.
- Monitoring of MAPs of identified wetlands.
- Identification of new wetlands.
- Circulation of guidelines for monitoring mechanism, updating wetland directory
- International cooperation
- Participation related to Ramar Convention/Standing meeting and follow-up action for preparation of CoP8.
- Formulation/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 7<sup>th</sup> 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.

**190. ASSISTANCE FOR ABATEMENT OF POLLUTION**

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
Assistance for Abatement of Pollution	3.00*	The physical target.

\*Including Environment Policy &amp; Law (S.No.180)

**191. COMMON EFFLUENT TREATMENT PLANTS (CETPs)**

(Rs. in Crores)

Name of the activity	BE	Physical target
CETP	2.47	Construction of CETPs in the Small Scale Industrial clusters

**192. REIMBURSEMENT OF WATER CESS**

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
Reimbursement of Water Cess	50.11 (NP)	There is no physical targets

**193. TAJ PROTECTION MISSION**

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
TAJ PROTECTION MISSION	25.00	The ten on-going schemes have to be completed and the proposal received/ to be received from the UP Govt. would need to be implemented, after the approval of the MoEF.

**194. CENTRAL POLLUTION CONTROL BOARD**

(Rs. in Crores)

Name of the Scheme	BE	Physical Target
CENTRAL POLLUTION CONTROL BOARD	22.00	*

**\*Physical Targets:****Pollution Assessment -Survey and Monitoring**

CPCB in collaboration with State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) has set-up Water Quality and Ambient Air Quality Network. The expenditure incurred by the State Boards is reimbursed by CPCB. Besides Water and Air Quality Monitoring, there are number of on-going programmes which include; survey of polluted river stretches, rise 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 analyzing 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 Zoos. 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 optimization in India, Environmental Audit, Noise pollution control, monitoring of compliance for bio-medical and municipal solid waste and others.

#### **Pollution Control Technology**

Under the project head, studies on existing treatment technologies and performance of technologies for cleaner production are taken up. 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.

### **195. ASSISTANCE TO BOTANIC GARDENS**

(Rs. in Crores)

<b>Name of the Activity</b>	<b>BE</b>	<b>Physical Targets</b>
<b>ASSISTANCE TO BOTANIC GARDENS</b>	2.00	15 Botanical Gardens to be supported.

|

|

|

|

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

(Rs. in Crores)

Name of the Activity	BE	Physical Target
<b>‘Industrial Pollution Abatement through Preventive Strategies’*</b>	0.60	<p>Sectoral evaluation of Environmental Statements, Waste Minimisation Demonstration studies, bringing-out Environmental Audit Update, Sector-wise Training and Awareness programme.</p> <p>Preparation of environmental maps depicting the pollution data related to air , water, soil and noise along with the trends in different polluted areas, river basins , metro and other major cities.</p> <p>Establishing &amp; running Waste Minimisation Circles (WMC) in clusters of Small Scale Industries.</p> <p>Promotion of Environmental Management Systems in identified industries.</p>

\* This is an amalgamation of the on-going three schemes viz.. Environmental Audit, Environmental Statistics & Mapping and Adoption of Clean Technologies in SSIs. During the tenth Plan the existing schemes have been merged into one scheme as ‘Industrial Pollution Abatement through Preventive Strategies’ with a proposed outlay of Rs. 3.0 Crores and @ Rs. 60 lakhs per annum.

**197. ENVIRONMENTAL IMPACT ASSESSMENT (INCLUDING CLEAN TECHNOLOGIES)**

During the year 2002-2003, following studies under Coastal Regulation Zone are proposed to be initiated in the Impact Assessment Division for evolving a strategy for Integrated Coastal Zone Management.

- Digitization of Coastal Zone Management Plans for Coastal Stretches
- Mapping and digitization of Ecological Stretches along the coasts of Andaman, Nicobar and Lakshadweep Islands.
- To study the effects of mining of sand and rocks from coastal stretches of Andaman and Nicobar.
- To quantify the availability of alternative sources of building materials in main land of Andaman and Nicobar.
- To identify, map, digitise and prepare integrated coastal zone management plans for coastal stretches demarcated as Special Tourism Areas.
- To identify, map, digitize and prepare integrated coastal zone management plans for coastal stretches demarcated as Special Economic Zone.
- Preparation of Integrated Coastal Zone Management Plans for the coastal states.

Under the development of clean technologies, an on-going study on carrying capacity of Greater Kochi region would be completed. A study on life cycle analysis for steel sector involving three major steel plants would be completed and a new study on LCA for lignite/coal is also scheduled to be completed by the end of current financial year. Various other studies on Natural Resource Accounting and Strategic Environmental Assessment (SEA) are also proposed.

(Rs in Crores)

Name of the Activity	BE	Physical Target
Environment Impact Assessment	2.00	The objective of Impact Assessment division is to assess the environmental impacts of development projects, which are referred to this Ministry. As such no physical target is fixed.

Sustainable Development Strategies	4.00	LCA studies in selected sectors.
Development and Promotion of Clean Technologies		Strategic Environmental Impact Assessment of Sectoral Development Policies  Projects for promotion of clean technologies, bench marking and establishment of demonstration projects etc.

#### 198. RESEARCH AND ECOLOGICAL REGENERATION

(Rs. in Crores)

Name of the Scheme	BE	Physical Targets
Research & Development	4.00	Initiation of new projects: 35 Servicing of ongoing projects: 115 Review & Monitoring of ongoing projects: 115 Preparation of Executive Summaries of completed research projects: 100

#### 199. G.B. PANT INSTITUTE OF HIMALAYAN ENVIRONMENT AND DEVELOPMENT

(Rs. in Crores)

Name of the Activity	BE	Physical Targets
GB PANT INSTITUTE OF HIMALAYAN ENVIRONMENT AND DEVELOPMENT	6.00	Continuation and strengthening of ongoing R&D activities and completion of construction activity as given in II B

#### 200. HAZARDOUS SUBSTANCES MANAGEMENT

(Rs. in Crores)

Name of the Activity	BE	Physical Targets
HAZARDOUS SUBSTANCES MANAGEMENT	9.00	*

\*Physical Targets

##### I Chemical Safety Programme/Accident Prevention and Crisis Management

- i. Implementation of various provisions of Acts and Rules gazetted, establishment of ERCs, hazard analysis study, preparation of off-site plans, preparation of guidelines, manuals on the hazardous substance

management, Notification of new rules and regulations, PIC, POPs Convention and activities relating to Agenda 21.

- ii Developmental projects/studies on hazardous substance management, including selected toxic chemicals, pesticides for possible phase out, isolated storage, safety in transportation, GIS based risk assessment
- iii Identification and upgradation of training institutions for first responders in emergency preparedness, and awareness raising programmes.

## II HW Management

- i) Implementation of the HW Rules and other rules, Notification of new rules, re-inventorisation of hazardous wastes, court cases, visit for field monitoring of the hazardous wastes generating units;
- ii) Establishment of common TSDF in States
- iii) Capacity and capability building in ports/customs/State Board laboratories, training in hazardous waste management, publication of guidelines on hazardous wastes management and awareness raising programmes.

## III SW Management

- i) Strengthening of SPCBs/PCCs with respect to SWM Rules, establishment of Solid Waste Management Cell

## 201. BIO-DIVERSITY CONSERVATION

(Rs in crores)

Name of the activity	BE	Physical Targets
Bio-diversity Conservation	2.00	*

\* Physical Targets

- Finalisation of detailed microlevel bio-diversity strategy and action plan
- Enactment of legislation on bio-diversity
- Ratification of Cartagena protocol on biosafety
- Matters relating to Genetic Engineering Approval Committee (GEAC)
- Organisation of consultations on specific aspects relevant to bio-diversity, e.g. biosafety, IPRs, benefit sharing, ex-situ collections, modus operandi etc.
- Commissioning of studies addressing specific aspects related to bio-diversity
- Organising consultations on bio-diversity
- Conservation of medicinal plants
- Conservation and management of sacred groves
- Conservation of coastal and marine bio-diversity.

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

(Rs in Crores)

Name of the activity	BE	Physical Target
MAPs on Mangroves and Coral Reefs	9.00*	30 MAPs on Mangroves and 4 MAPs on Coral Reefs
Research on Mangroves and Coral Reefs		30 ongoing and 10 new projects

Meetings of the National Committee on Mangroves and Coral Reefs	2
Meetings of the Research Sub Committee on Mangroves and Coral Reefs	2
Publication of Mangroves and Coral Reefs Atlas	1
Publication of Status Paper on Mangroves and Coral Reefs	1

\*Includes provision for Wetland Conservation Programme(S.No.189) and Rs.1.00 Crores for N-E Region.

### 203. BIOSPHERE RESERVES (BRs)

(Rs. in Crores)

Name of the Activity	BE	Physical Targets
MAPs and Research on BRs	5.00	15 MAPs on BRs and 10 new research projects.

### 204. INTERNATIONAL COOPERATION

(Rs. in Crores)

Name of the Activity	BE	Physical Targets
UNDP-GoI-CCF	3.00	Sub-programmes will be implemented as per project objectives
India Canada Environment Facility	0.01	The project will be implemented with the available funds in ICEF.
IC Division activities	1.50(p) 1.23 (NP)	The details are given below.
State of Environment Report	1.25	To assist State Governments for preparation of State of Environment Report for each State
Indo-German Technical Cooperation Project – Advisory Services in Environment management.	0.50	To achieve sustainable development.
Global Environment Facility Projects	0.01	Projects in the field of environment will be funded.
Canada Assisted Centre of Excellence in Environment, Science, Policy and Technology.	0.10	To achieve sustainable development.

Targets:

1. Participation in the World Summit on Sustainable Development-2002 to be held in Johannesburg, South Africa and also in various preparatory meetings for the Summit.
2. Nomination of officials for training abroad in the field of environment & forests.
3. Follow-up on the MoUs signed with Germany, Russia, Turkmenistan, Tajikistan, Vietnam, China and Iran.
4. Follow-up on the action points related to ESCAP, SAARC, EU and SACEP matters.
5. Building a strong pipeline of new GEF proposals, follow up and implementation of approved GEF projects, to monitor and evaluate their progress.
6. To participate in GEF Council Meeting.
7. Assessment of the funding objectives of various lending and donor agencies (multilateral, bilateral and private) to facilitate access of more resources for projects.
8. Coordination Committee meetings to review various Externally Aided Projects in the field of Environment & Forests.
9. Participation in various Conferences of Parties/Meetings related to UN Convention on Climate Change, Biodiversity, Desertification, Montreal Protocol, Basel Convention and other Conferences in the Field of environment & Forests.

10. Implementation of GoI/UNDP-CCF programme.
11. Participation in Governing Council of UNEP.
12. Implementation of CIDA assisted Environment Institutional Strengthening Project, Centre of Excellence in Environment Science, Policy and Technology.
13. Implementation of German assisted Advisory Services on Environment.
14. To assist State Governments in preparation of State of Environment Report.
15. Participation of National Environment Action Plan.

**205. TAXONOMY CAPACITY BUILDING PROJECT**

(Rs. in crore)

Name of the Activity	BE	Physical Targets
<b>Taxonomy Capacity Building Project</b>	1.00	<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> <li>- Identification of Centres.</li> </ul>

**206. ENVIRONMENTAL MANAGEMENT CAPACITY BUILDING TECHNICAL ASSISTANCE PROJECT (WORLD BANK AIDED)**

(Rs in crores)

Name of the Activity	BE	Physical Targets
<b>ENVIRONMENTAL MANAGEMENT CAPACITY BUILDING TECHNICAL ASSISTANCE PROJECT</b>	38.00	The original planned activities under the various sub-components included for implementation in the project on Environmental Management Capacity Building have been restructured and streamlined to ensure that at the end of the project the targeted objectives are achieved.

**207. INDIAN INSTITUTE OF BIO-DIVERSITY (IIB)**

(Rs. in Crores)

Name of the Activity	BE	Physical Targets
<b>INDIAN INSTITUTE OF BIO-DIVERSITY (IIB)</b>	1.00*	Initiation of construction work of building, appointment of Director and staff and initiation of work by the Institute.

\*For N-E Region.

**208. ENVIRONMENTAL HEALTH**

(Rs. in Crores)

Name of the scheme	BE	Physical Targets
<b>ENVIRONMENTAL HEALTH</b>	2.00	Studies/investigations on the environmental health profiles of other cities, Critically polluted/heavily polluted areas, Specific pollutants (e.g. Lead, Arsenic, Benzene, particulate matters), Water Pollution, Air Pollution, (including vehicular pollution), Environmental toxins, Indoor Pollution.