

CHAPTER 11-C-3

1.0. TARGETS FOR 1998-99

1.1. FORESTRY AND WILDLIFE

1.1.1. FORESTRY EDUCATION AND TRAINING

1.1.2. INDIRA GANDHI NATIONAL FOREST ACADEMY

Advanced phase of training : IFS probationers of 1997-2000, 1996-1999, 1995-98 courses in different phases. 3 compulsory courses. 2 Induction training courses to officers promoted to IFS.

1.1.3. 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.

11 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.

1.1.4. INDIAN INSTITUTE OF FOREST MANAGEMENT, BHOPAL.

MDP/Courses and Seminars/Post Graduate Diploma Course on "Forestry Management/M.Phil., Ph.D. Research Studies. National and International linkages to be strengthened. On-going and new research projects to be continued. Construction of hostel phase 11, Director's bungalow, etc.

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

New projects are to be initiated along with the on-going projects of 1997-98. Establishment of Particle Board and Finger and Lumber Jointed Unit.

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

Completion of production of 7 films on important themes in forestry. Installation of magnetic security system in NFLIC. Forestry statistics India, 1996, will be published. Work on National Forestry Data base will be completed. HRD plan will be finalised. 27 state-level workshops will be organised for setting up of national research priorities; National forestry research Plan will be written. Completion of establishment of 300 ha of seed production areas. 150 ha of Seed Orchards and 18 ha of Vegetative Multiplication Gardens will be completed. All civil works under FREEP Project will be completed and remaining equipment will be procured.

1.1.6(1). Forest Research Institute, Dehradun

Paulownia trials will be extended to more areas; studies and collection of medicinal plants, Seed studies, water stress studies, in vitro propagation studies, provenance research species diversity studies, soil studies, timber evaluation studies, timber market studies, studies on forest products, forest protection, forest nursery, biofertiliser. etc. will be undertaken by the respective Divisions of the Institute.

1.1.6(2). Institute of Forest Genetics & Tree Breeding, Coimbatore.

Selection breeding, reproductive biology studies, nutrient cycling studies, seed research, provenance trials and agro-forestry research will be continued at the Institute.

1.1.6(3). Institute of Wood Science & Technology, Bangalore.

Research on Sandal, in-vitro propagation, catamaran introduction, bio-fertiliser studies, progeny trials and standardisation of nursery practices, etc. will be continued. Establishment of infrastructure & seed Orchards at Hyderabad centre of the Institute would be undertaken.

1.1.6(4). Tropical Forest Research Institute, Jabalpur

Germplasm collection for conservation of important MFP species and food yielding trees will be continued. Agro-forestry trials and identification and selection of VAM fungi will be continued. Eco restoration of mined areas and productivity enhancement studies for forest areas, bio-diversity studies in JFM areas of Orissa and Madhya Pradesh will be continued.

1.1.6(5). Arid Forest Research Institute, Jodhpur.

Experiments on soil water plant relationships, soil moisture management, moisture stress tolerance in tree species will be continued. Studies for improved productivity will also be undertaken. Planting stock improvement, Neem provenance trial, observations, provenance studies in fodder species, etc. will also be undertaken.

1.1.6(6). Institute of Rain & Moist Deciduous Forests Research, Jorhat.

Studies on Conservation status of Protected Areas and dynamics of forest structure will be carried out. Studies on seeds, soil properties, shifting cultivation, VAM, Bamboos blight disease and biology of gall-aphids will be continued.

1.1.6(7). Temperate Forest Research Institute, Shimla.

Selection of species for desert and temperate afforestation will be continued. Agro-forestry and silvipastoral research would be undertaken. Studies on regeneration of temperate forests and planting stock improvement would be undertaken.

1.1.6(8). Institute of Forest Productivity, Ranchi.

Seed production areas and seed orchard will be established and maintained. Maintenance of lac farms alongwith improvement trials will be continued. Plant growth and productivity studies and vegetative propagation studies will also be undertaken.

1.2. SURVEY AND UTILISATION OF FOREST RESOURCES

1.2.1. FOREST SURVEY OF INDIA

S.No.	Item or Work	Unit/Scale	Target
I	Forest Inventory	Forest Area (in sq. kms.)	25,000
2.	Data Processing	Forest area (in sq. km)	25,000
3.	Thematic Mapping	Sheets of 1:50,000 scale	260 map sheets
4.	Vegetation Mapping	Sheets of 1:2,50,000 scale	182 map sheets
5.	Training	Persons to be trained	90
6.	Special studies	No. of areas	4

1.3. FOREST CONSERVATION

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

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

1.4. 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.

1.5. WILDLIFE

1.5.1. 250 Sanctuaries and National parks will be assisted under the National Parks & Sanctuaries scheme. Activities in 23 Tiger Reserves and 12 Project Elephant Range States will continue.

1.5.2. ECO-DEVELOPMENT PROJECT

The outlay of the Externally Aided India: Eco-development Project is Rs.58-83 crores. The Project States will be implementing the project to achieve improved protected area management, village eco-development, environment education and awareness campaign, etc.

The on-going Govt. of India Eco-development Project activities will be continued. 80 National Parks and Sanctuaries and 18 Project Tiger areas will be assisted.

1.5.3. 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 as and when there is a proposal

1.5.4. BENEFICIARY ORIENTED SCHEME FOR TRIBAL DEVELOPMENT

This will continue with a proposed financial provision of Rs. 110 lakhs.

1.5.5. WILDLIFE INSTITUTE OF INDIA

SI.No.	Course	Target (No. of persons)
1.	M.Sc. course in Biology	10
2.	PG Diploma in Wildlife Management	30
3.	Certificate Course in Wildlife Management	30
4.	Short Courses	50
5.	Field Workshop	10

1.5.6. ANIMAL WELFARE BOARD OF INDIA

For animal birth control in six Metros, assistance of Rs.80 lakhs for sterilization will be given.

Setting up of State Advisory Boards for animal welfare in the remaining states.

Continuation of Training programme.

Construction of office building of AWBI.

Centre for Environment Awareness.

1.5.7. NATIONAL ZOOLOGICAL PARK

Construction work of new enclosures/modification in the existing enclosures will be taken up along with other captive breeding activities.

1.5.8. CENTRAL ZOO AUTHORITY

All on-going activities including grant to various zoos in the country will continue.

1.6. NATIONAL AFFORESTATION & ECO-DEVELOPMENT BOARD

For the year 1998-99 an allocation of Rs. 92.25 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)

S.No	Scheme	BE	Physical target for 1998-99
------	--------	----	-----------------------------

			(Area in ha.)
1.	Integrated Afforestation and Eco Developments Projects Scheme	33.00	22,000 ha.
2.	Fuelwood / Fodder Projects Scheme	40.00	52,000 ha.
3.	Non-Timber Forests Produce (including Medicinal plants) Scheme	11.00	9,000 ha.
4.	Seed Development Scheme	2.60	25 States to be assisted
5.	Grants-in-Aid Scheme (for Voluntary Agencies)	1.55	40 projects to be sanctioned.

1.7. BOTANICAL SURVEY OF INDIA

Name of the Activity	Physical Target
Exploration Surveys	62 survey tours.
Collection of Specimens	Ca 14000 Specimens
Preservation of Specimens	Ca 12000 specimens.
Publications	5

1.8. ZOOLOGICAL SURVEY OF INDIA

Name of Activity	Physical Target
Exploration and Survey	67 surveys
Status Survey of Endangered Species	2 surveys
Taxonomic Studies:	
(a) Fauna of Manipur	Identification of material to be completed.
(b) Fauna of Ujni Wetlands	To be published.
(c) Fauna of Mizoram	Identification to be completed.
(d) Fauna of Nagaland	Identification of material collected.
(e) Fauna of Pichola Lake (Rajasthan)	Volume to be published

Publication:	
(a) Fauna of India	As and when received.
(b) Records of ZSI	Volume 97 to be published.

(c) Annual Report of ZSI	1995-96 to be published.
(d) Bibliography of Indian Zoology	Volume 32 to be published.
(e) Fauna of Tripura	Volume I and 2 to be published.
Computerisation of Collected data	800 data to be entered.
ENVIS on Biodiversity	Data available to be computerised. Half-yearly newsletter to be published.
Renovation of Zoological Galleries.	2 Regional Museums to be renovated.
Training and Extension Programme	2 Programmes to be conducted.
EIA Studies.	As and when assigned.

1.9. ENVIRONMENT, EDUCATION AWARENESS& TRAINING

(Rs. in lakhs)

Scheme	Plan	Targets
Environment, Education	300.00	The National Environmental Awareness Campaign (NEAC) would be continued. Wider coverage of the programmes, adequate infrastructure and introduction of more imaginative and innovative programmes will be given priority
300.00		
The National Environmental Awareness Campaign	15.00	More professional societies and appropriate institutions would be supported.
Awareness & Training	100.00	
(NEAC) would be continued. Wider coverage of the		The number of districts will be increased from the next year as the scheme gets experience and momentum. The scheme needs to be continued as Paryavahan Vahini plays important role in checking environmental degradation and deforestation in the districts.
programmes, adequate infrastructure and introduction of	40.00	
more imaginative and innovative programmes will be		This interaction is necessary to formulate strategies for addressing the environmental issues in the near future. The scheme should be continued as it.
given priority .		
Grants in aid to		
More professional societies and appropriate institutions		
Professional Societies.		
would be supported.		
Paryavaran Vahinis (Part		
100.00		

<p>The number of districts will be increased from the next of PSP)</p> <p>year as the scheme gets experience and momentum.</p> <p>Seminar/Symposia/</p> <p>40.00</p> <p>This interaction is necessary to formulate strategies for Workshop</p> <p>addressing the environmental issues in the near future.</p>		
---	--	--

1.10. POLICY & LAW

(Rs. in lakhs)

Name of the scheme	BE	Physical Targets
Environmental Policy & Law	25.00	i) Environment Policy & Legislation: ii) Eco-Mark Scheme: iii) Comprehensive National Environment Policy: iv) Integration of Economic Instrument:
National Environment Tribunal	150.00	a) Enforcement of Act: b) Framing of Rules c) Setting up of Tribunal.

TARGET FOR 1998-99:

(Rs. in lakhs)

Name of the activity	B.E.	Physical target
ISDPP	200.00	To appoint consultants for TORs 7 & 8.
Hazardous Waste Management Project.	500.00	Implantation of various components of the project.

1.11. CIVIL CONSTRUCTION UNIT(CCU)

(Rs. in crores)

Item	B.E.	Physical Targets (No. of works)
Forestry & Wildlife	5.20	28
Ecology & Environment	6.50	51
Environment Education/Training/Extension	2.50	4
Civil Works	1.50	—

Grand Total	15.70	83
-------------	-------	----

1.12. ENVIRONMENTAL INFORMATION SYSTEM

(Rs. in lakhs)

Name of the Scheme	BE	Physical Targets
ENVIS	150.00	<ul style="list-style-type: none"> - Existing ENVIS Centres will continue. - Two ENVIS Centres on new emerging areas are proposed to be set. - The internet connectivity is being . ENVIS is also likely to implement the SDNP programme of LJNDP and IDRC, Canada. - Query-Answer service will be provided by the ENVIS network .

1.13. CENTRES OF EXCELLENCE

(Rs. in lakhs)

Name of the scheme	BE	Physical Target
Centres of Excellence	350.00	<ul style="list-style-type: none"> - All the Centres will be encouraged to continue efforts in their respective fields . - Special activities like, organisation of seminars/ exhibitions/publication of monographs etc., will be undertaken by all the Centres of Excellence to commemorate the 50th Anniversary of India's Independence.

1.14. NATIONAL NATURAL RESOURCE OF MANAGEMENT SYSTEM

Name of the scheme	BE	Physical Target
NNRMS	100.00	<ul style="list-style-type: none"> (a) To cover the rest of the thrust areas. (b) To monitor all the ongoing projects upto 1997-98.

1.15. NATIONAL RIVER CONSERVATION DIRECTORATE

(Rs. in lakhs)

Name of the activity	BE	Physical Target
1. GAP 1	12.70	12.70
2. GAP H	165.00	165.00
a. YAP		
b. GoAP		
c. DAP		
d. GAP 11 MS		
e. GAP 11 SC		
f. CETP		
3. NRAP	14.00	14.00
Total	191.70	191.70

1.16. ASSISTANCE FOR ABATEMENT OF POLLUTION

Name of the scheme	BE	Physical Targets
Assistance for Abatement of	100.00	There is no physical target under this scheme.

Pollution		
------------------	--	--

1.17. REIMBURSEMENT OF WATER CESS

(Rs. in crores)

Name of the scheme	BE	Physical Targets
REIMBURSEMENT OF WATER CESS	60.00	Target for water cess collection varies from State to State and is normally fixed in consultation with the concerned State Governments by the Central Pollution Control Board in the end of the Financial year.

1.18. TAJ PROTECTION MISSION

(Rs. in crores)

Name of the scheme	BE	Physical Targets
TAJ PROTECTION MISSION	60.00	In 1998-99, release of Central Government share for the schemes (i) unincurred power scopes (ii) construction of Gokul & Agra barrage (iii) Taj Afforestation programme (iv) Improvement of drainage systems and sanitation in Agra city. (v) Environmental and other programmes including air qualities monitoring and meteorological parameters for protection of Taj Mahal.

1.19. CENTRAL POLLUTION CONTROL BOARD

(Rs. in lakhs)

Name of the scheme	BE
Central Pollution Control Board	1133.50

Physical Targets

Key Activities and Features of Schemes proposed for 1988-99:

- i) **Pollution Assessment (Survey & Monitoring):** It is proposed to undertake pollution assessment studies in respect of important cities, polluted river and coastal stretches. Water quality monitoring under MINARS and ambient air quality monitoring programme under NAAQM, will be continued.
- ii) **Laboratory Management:** The important research and development programmes undertaken during 1997-98 will be continued. Most of the schemes under this Head relates to strengthening of analytical capabilities and assessment of water and air pollution.
- iii) **Development of Standards and Ecomark:** The standards developed so far, will be reviewed and the standards in respect of other categories of industries will be taken up. The studies relating to life-cycle analysis and accreditation of laboratory under Ecomark will be taken up.
- iv) **Training:** The training programmes on various subjects relating to abatement of pollution will be taken up.
- v) **Information (Data Base) Management:** Attempts will be made to compile information relating to prevention and control of pollution and receive regular information from SPCBs and other agencies.

vi) Pollution Control Enforcement: The on-going programmes relating to compliance verification in respect of 17 categories of polluting industries will be taken up.

The other programmes under pollution control enforcement include:

- Implementation of action plan in critically polluted areas
- compliance verification in respect of industries discharging wastewater into rivers
- Zoning atlas
- management of municipal liquid and solid wastes
- vehicular pollution control including review of standards; and noise pollution control particularly from bursting of fire crackers, diesel generator sets etc.

viii) Mass Awareness Programmes: Various programmes like interaction with NGOs, participation in exhibitions, organising various agencies, publication of reports, will be the important features under the mass awareness programme.

ix) Hazardous Waste Management: The on-going inventories of hazardous waste generation in different States will be completed and studies relating to environmental impact assessment for solid waste disposal will be taken up.

1.20. ASSISTANCE TO BOTANIC GARDENS

Action plans for strengthening of 10 existing Botanic Gardens.
Performance of 40 Botanic Gardens already supported earlier will be reviewed.

1.21. ENVIRONMENTAL AUDIT , CLEAN TECHNOLOGY, ENVIRONMENTAL STATISTICS AND MAPPING

(Rs in lakhs)

S.No.	Name of the Activity	BE	Physical Target
-------	----------------------	----	-----------------

1.	Environmental Audit	10.00	Preparation of sector-specific audit manuals, training and awareness programmes.
2	Clean Technologies by SSIs.	10.00	Promotion of environmental management systems. Training and awareness programmes in selected sectors and for selected trainers and trainees. Waste minimisation demonstration studies in selected sectors. Preparation of sector-specific manuals.
3.	Environmental Statistics and Mapping	10.00	Bringing out statistical data and reports on status and trends in environmental quality with reference to air, water, soil and noise and depicting them in an Atlas. Setting up of environmental statistical Cells in CPCB and SPCBs.

1.22. CLEAN TECHNOLOGY

Name of the Activity	BE	Physical Targets
1. Sustainable Development Strategies	5.00	On going studies and one new Carrying Capacity study
2. Development & Promotion of clean technology	51.75	New Demonstration Projects and ICPC establishment expenses.

1.23. RESEARCH AND DEVELOPMENT

(Rs. in lakhs)

Name of the scheme	BE	Physical Targets
Research & Development	400 .00	Over 200 ongoing research projects will continue to be supported. Further it is proposed to start 30 new projects during 1998-99. It is envisaged that at least two Coordinated research projects which includes proposal to start a Coordinated Project on Micro -Propagation of Endangered/Threatened Medicinal Plants. The monitoring and review of the progress of the ongoing projects will be continued with a special emphasis on utilisation of research work for solving the practical problems on resource management.
Pitamber Pant Fellowship	5 .00	In case of B.P. Pal National Fellowship for Biodiversity, facilities will continue to be provided to the previous awardees.Pitamber Pant Fellowship will continue.

1.24. GB PANT INSTITUTE OF HIMALAYAN ENVIRONMENT AND DEVELOPMENT

The Construction work of Institute's building at Sikkim will be completed and construction work at Itanagar will be initiated. The Institute will initiate 15 new projects in addition to continuation of on-going projects. Proposed outlay is Rs.478 lakhs.

1.25. HAZARDOUS SUBSTANCES MANAGEMENT

Name of the scheme	BE	(Rs in crores)
HSM	18.32	

Physical Targets

HSMD Will continue various programmes outlined below and monitor the implementation of this programme. In addition, intensive inter-actions 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. It is also proposed to implement the World Bank Projects namely, Industrial Safety, Disaster Prevention and Hazardous Wastes Management and Hazardous Waste Management in 4 States.

Proposed activities:

Strengthening of Hazardous Substances Management Structure in States. Strengthening of crisis management structure in the country including setting up of Emergency Response Centres. Augmentation of training facilities and conduct of training courses for training in accident prevention and emergency preparedness and hazardous waste management. Prepare reports of status on compliance to international Conventions and stand on upcoming Conventions. Formulation and implementation of Acts/Rules including amendments. Developmental projects/studies and pilot plants. EIA studies for hazardous waste disposal sites. Evolve policies and programmes for sound management of hazardous waste. Evolve policies and programmes for sound management of solid waste. Establishment of Databases and activities related to Agenda 21, UN Expert Committee on Transportation of Dangerous Goods. World Bank Project. Implementation of the World Bank Project on Industrial Safety, Disaster Prevention and Hazardous Waste Management. Hazardous Waste Management in 4 States. For implementation of these activities in 1998-99, the budget outlay is proposed as follows:

1.26. CONSERVATION AND MANAGEMENT OF MANGROVES

Activities	BE
Management Action Plans in regard to 15 mangrove and 4 coral reef areas.	150.00

1.27. BIOSPHERIC RESERVES (BRs)

Physical Targets:

Preparation of Management Action Plans for 1998-99 and release of Central assistance to designated Biosphere Reserves.

Convening of National Committee Meeting on BRs.

Convening of Scientific Advisory Committee Meeting on BRs.

Evaluation of on-going research projects.

Monitoring of Management Action Plans.

Approved outlay: 262.00 lakhs.

1.28. INTERNATIONAL COOPERATION

Physical Targets

1. Follow up on Indo-US Common Agenda on Environment.
2. Follow up on Indo-Brazil Cooperation on Environment.
3. Bilateral cooperation programmes and follow up of MoUs signed with Russia, Turkmenistan, Tajikistan, Vietnam, China, Iran.
4. Nomination of officials for training abroad in the field of environment and forestry.
5. Implementation of World Bank assisted India: Environment Management Capacity Building Technical Assistance Project.
6. Implementation of the World Bank assisted under Environment Management Project for Delhi and Surat.
7. Follow up and implementation of various UNDP/GEF projects.
8. Preparations for 6th CSD Meeting to be held in 1998.
9. Preparations for GEF Assembly Meeting to be hosted by India in April, 1998.

Approved outlay: Rs.46.25 crores.