

CHAPTER – IX

SCIENCE TECHNOLOGY & ENVIRONMENT

8.1 SCIENCE & TECHNOLOGY

8.1.1 The Tenth Plan outlay for Science & Technology sector is Rs. 515.00 lakhs. The expenditure during 2002-03, 2003-04, 2004-05 and 2005-2006 were Rs. 57.01 Lakhs, Rs.83.03 Lakhs, Rs. 86.11 Lakhs and Rs.97.74 Lakhs respectively. The approved outlay for 2006-2007 is Rs.110.00 lakhs which is expected to be utilized in full. The anticipated expenditure for the Tenth Five Year Plan Period (2002-07) is expected to be Rs.433.89 lakhs. **The proposed outlay for the Science & Technology sector for the Eleventh Plan (2007-2012) is Rs.1500.00 lakhs and the proposed outlay for the Annual Plan (2007-2008) is Rs. 125.00 lakhs.**

8.1.2 Review of the Tenth Plan :-

Financial_: The approved outlay for Science & Technology of the Tenth Plan is Rs. 515.00 lakhs. The anticipated expenditure during the Tenth plan period is worked out at Rs.433.89 lakhs.

Physical Achievement: Under the Science & Technology sector in the State, a number of programmes are taken-up to promote the application of science & technology for over-all development of the State. Such programmes include Popularization of Science, Introduction of Appropriate Technology, Specific Projects, Students' Projects, S&T Library & Documentation, Science & Technology Entrepreneurship Development and Science Centres.

During the 10th Plan, concentration has been made in the area of popularization of science with the ultimate goal of generating scientific minded citizens in the state. Concentration was also seriously made in the field of introduction of relevant appropriate technologies in the state, particularly, those societal technologies aimed at improving the living conditions of the people, especially those living in rural areas. Efforts have also been made in the 10th Plan to promote S&T entrepreneurship and to tackle local-specific problems through few specific projects and studies. Environmental consciousness generation among the masses was also taken up to a certain extent during the 10th Plan through various programmes with school children and the people in the community. The concept of effective conservation and sustainable utilization of bio-resources in the state has been initiated in the 10th Plan.

8.1.3 **Eleventh Plan Pro grammes :-**

During the 11th Plan, the activities carried out in the state through various S&T programmes i.e., Popularization of Science, Introduction of Appropriate Technologies, Science & Technology Entrepreneurship Development, Promotion of Specific Projects, Promotion of Science Centres, S&T Library Documentation would continue. However, effort would be made to strengthen and enhance such activities suitably. Effort for promotion of sustainable utilization of bio-resource in the State would receive a special attention in the 11th Plan through a specific new programme. A new thrust area pertaining to the promotion of

remote sensing-based activities would be launched and carried out in the 11th Plan under the S&T sector to support the developmental efforts in various developmental sectors in the State.

8.1.4 With the proposed Eleventh Plan outlay of **Rs.1500.00 lakhs** and the proposed outlay of **Rs.125.00 lakhs** for the 2007-08 Annual Plan, the following programmes will be taken up:-

1. Strengths in S&T Promotion in the State:

The vision for S&T promotion in the State in the 11th Plan has been based on the strengths available in the State for S&T promotion. Some of these strengths are highlighted hereunder:

- i. Availability of a wide range of appropriate technologies, particularly societal technologies, which have been tried out successfully in the State.
- ii. Availability of State agencies for promoting S&T in the State.
- iii. Availability of a network of NGOs for technology propagation and science popularization in the State.
- iv. Availability of close-linkages with leading R&D institutions located elsewhere in the Country including CSIR laboratories for promotion of technology application in the State.
- v. Availability of close-linkages with voluntary organizations working in S&T promotion elsewhere in the Country, particularly those concentrating on technology dissemination.
- vi. Availability of a mechanism for coordinating, supervising and monitoring the implementation of S&T schemes / projects in the State up to the village-level through a network of District Planning Organizations, Block Development Offices and Voluntary Agencies at grass-root level.

2. Vision for the 11th Plan:

Taking into consideration the past experience in S&T promotion and the available strengths, an appropriate Vision for S&T promotion in the State in the 11th Plan has been evolved. The Vision thus emerged includes:

- i. Strengthening and enhancing the process of promotion of the application of appropriate technology to bring about improvement in the quality of life of the people.
- ii. Continuing the programme for creating science awareness in the State up to the village level with a mission to generate scientific minded citizens in the State to facilitate the process of S&T intervention in the State.
- iii. To promote intervention of S&T for supplementing the various developmental efforts in the State.
- iv. To promote the application of S&T for employment generation particularly self-employment generation, enhancement of earning of the people, skill development and development of entrepreneurship in general.

3. Thrust Areas for S&T Intervention:

In light of the various areas of concern as incorporated in the National Draft Approach to the 11th Plan and considering the strengths available in the State for S&T promotion, the following thrust areas for S&T intervention in the 11th Plan have been identified:

- i. Improvement of the standard of living of the larger section of the population, particularly the rural poor.
- ii. Enhancing the basic services for the common man like clean drinking water, sanitation and housing.
- iii. Reduction of poverty and reducing the gap between the rich and the poor and the rural and urban.
- iv. Creating an environment of entrepreneurship.
- v. Development of human resources, particularly young skilled - manpower.
- vi. Promotion of sustained development through technological inputs.
- vii. Adaptation of new generation technologies emerged out of latest scientific development in the country.
- viii. Promotion of remote sensing application techniques, rain water harvesting and many other relevant scientific techniques in the State.
- ix. Creation of employment opportunities.
- x. Proper treatment and utilization of solid waste, particularly through recycling and composting techniques.
- xi. Protection of the environment.
- xii. Preservation of bio-diversity including conservation and sustainable utilization of bio-resources.
- xiii. Support of basic research.
- xiv. Nurturing young students to take up higher studies in science and pursuing scientific research as a career.
- xv. Translation of R&D achievements into viable technologies which could be utilized in any development process in the State.
- xvi. Promotion of the role of civil society organizations, Self Help Groups in developmental activities.

4. Thrust S&T Programmes:

For implementing the Vision for S&T promotion in the State in the 11th Plan, a number of programmes have been proposed. These programmes are described hereunder:

- i. **Popularization of Science Programme:** This programme has become a regular science & technology activity in the State. It is implemented with the objective of inculcating a scientific temper amongst the people of the State and with a mission to ultimately generate scientific-minded citizens in the State. Schemes like State-level Science Environmental Fair, Block-level Science Environmental Fairs, National Children's Science Congress, Meet-the-Scientist Programme, Science

Awareness Camps, Environmental Awareness Programme, Science Talent Competitions, etc., are implemented in the State under this programme.

In the 11th Plan, it is proposed to continue with the Popularization of Science Programme with a financial outlay of Rs. 150.00 lakhs.

- ii. **Introduction of Appropriate Technology Programme:** This is the major thrust programme in the 10th Plan under the Science & Technology sector in the State. This programme is aimed at promoting the application of various appropriate technologies for all round development of the State, particularly societal development. Such technologies are improved chulhas, low-cost water filter, low-cost sanitation, low-cost housing, organic composting, low-cost cold storage, home-scale paddy dehusker, low-cost oven, pedal pump, hydraulic ram pump, rain water harvesting, paper re-cycling, etc. These technologies are propagated in the State through various programmes like Technology Initiation Programme, Technology Demonstration Programme, Technology Experimentation Programme, etc. Under the Technology Initiation Programme, awareness camps, demonstration camps and training camps are organised in different parts of the State at village-level in order to initiate the intervention of science & technology at grass root-level. New and innovative technologies are experimented in the State from time-to-time through the Technology Experimentation Programme. Under Technology Demonstration Programme, successful technologies are demonstrated to the people through various demonstration units installed in different places of the State.

The Introduction of Appropriate Technology Programme will also continue in the 11th Plan with a financial implication of Rs.500.00 lakhs. However, the various schemes would be enhanced and strengthened suitably for achieving the S&T Vision for the 11th Plan.

- iii. **Specific Projects Programme:** Specific projects are also taken-up from time-to-time in association with various research agencies in the Country with a view to generate scientific solutions to problems affecting the people of the State.

The specific project programme would continue in the 11th Plan with a financial implication of Rs. 50.00 lakhs.

- iv. **Student's Projects Programme:** Students' Projects are also sponsored from time-to-time with a view to motivate young students to be concern about local specific problems and finding solutions to these problems through the application of science & technology. This programme is also aimed at motivating young students to take up higher studies in science and pursuing scientific research as a career.

An amount of Rs.20.00 lakhs has been earmarked for the Student's Projects Programme in the 11th Plan.

- v. **S&T Entrepreneurship Development Programme:** Under S&T Entrepreneurship Development Programme, Technology-Oriented Entrepreneurship Development Programmes and Technology-Oriented Entrepreneurship Awareness Camps are organised in the State from time-to-time to expose the unemployed youths to various innovative technologies which could be made used of for self employment generation.

In the 11th Plan, the S&T Entrepreneurship Development Programme would continue for creating an environment of S&T entrepreneurship in the State. An outlay of Rs. 50.00 lakhs has been earmarked for this programme.

- vi. **S&T Library & Documentation Programme** : Under Library & Documentation Programme, various scientific journals, books and magazines, etc., are procured regularly for the Library of the State S&T Council. From time-to-time, S&T newsletter, technology leaflets / brochures, etc., are also brought out under this particular Programme. S&T Library & Documentation Programme would continue in the 11th Plan with a financial implication of Rs. 30.00 lakhs.
- vii. **Science Centres Programme**: A first-ever Centre of its kind, the Shillong Science Centre, has been set up in Shillong. The Centre is a place for promoting science awareness among the public, particularly school children. The Centre is functioning as an autonomous society of the State Govt. The project was set-up by National Council of Science Museums, Kolkata in association with Planning (Science & Technology) Department of the State Government with 90:10 fund contribution from Govt. of India and the State Government.

Currently, the Shillong Science Centre is being supported for its day-to-day functioning under the State Plan. During the 11th Plan, it is proposed to continue the regular support for the day-to-day operation of the Centre and also to enhance the infrastructure, facilities and programmes in the Centre.

It is also proposed to initiate similar activities at the district-level during the 11th Plan at a lower-scale.

Under this particular programme, a financial outlay of Rs.150.00 lakhs has been earmarked.

- viii. **State S&T Cell / S&T Council** : The regular provision for the State S&T Cell and the State S&T Council would continue in the 11th Plan with a total financial implication of Rs. 100.00 lakhs.

However, effort would also be made in the 11th Plan to re-structure the present S&T organizational structure in the State suitably with a view to strengthen S&T activities in the State.

- ix. **Bio-Resources Development Programme**: A Bio-resources Development Centre has been set-up in the State under the S&T sector during the 10th Plan period. The Centre is being looked after by a Scientist-in-Charge, currently assisted by 11 (eleven) scientific, technical and administrative personnel. The Centre is operating as an autonomous society of the State Government.

Currently, the Centre is implementing a project with the financial assistance from the Department of Bio-Technology, Govt. of India.

In the 11th Plan, it is proposed to strengthen the activities of the Centre through a number of projects to be funded under State Plan scheme under this new programme. An amount of Rs. 150.00 lakhs has been earmarked for this programme in the 11th Plan.

- x. **Remote Sensing Application Programme:** A project on survey and identification of the science and technology needs of the State is currently being taken up by the State S & T Council with the funding from the Department of Science & Technology, Govt. of India. The project has been carried out utilizing remote sensing application based techniques.

Considering the potential for remote sensing application in various developmental sectors in the State, a number of remote sensing application projects have been proposed in the 11th Plan with a financial implication of Rs. 50.00 lakhs under this new programme.

5. Strategy / Mechanism for S&T Intervention:

The various schemes / projects proposed under various S&T programmes in the State in the 11th Plan will be implemented through the existing S&T agencies in the State viz., State S&T Council, Bio-resources Development Centre and Shillong Science Centre with the involvement of the present network comprising of District Planning Organizations, Block Development Offices and NGOs.

Promotion of Science & Technology in the State, particularly promotion of societal intervention of science & technology, is being carried out in the State in association with various non-governmental organizations (NGOs). An effective network of S&T-oriented and S&T-based NGO's has been developed in the State to facilitate the process of intervention of science & technology for all-round development of the State, particularly societal development.

The existing NGO's mechanism for promotion of appropriate technology application in the State would continue to be utilized in the 11th Plan.

6. Financial Outlay:

A total financial outlay of Rs. **1500.00 lakhs** has been worked out for implementation of various S&T programmes in the State in the 11th Plan. For the Annual Plan 2007-08 an amount of Rs. 125.00 Lakhs is proposed.

The break-up of the proposed outlay for Science & Technology during the Eleventh Plan (2007-2012) and the Annual Plan 2007-08 are indicated below:-

(Rs. In lakhs)

Sl. No.	Items	Proposed Eleventh Plan (2007-2012) Outlay	Proposed Annual Plan 2007-08 outlay
1.	Popularisation of Science Programme (PSP)	300.00	26.00
2.	Introduction of Appropriate Technology Programme (IATP)	500.00	50.00
3.	Specific Projects Programme (SPP)	50.00	3.00
4.	Student's Projects Programme (S _i PP)	20.00	1.00
5.	S&T Entrepreneurship Development Programme (S&TEDP)	50.00	3.00

Sl. No.	Items	Proposed Eleventh Plan (2007-2012) Outlay	Proposed Annual Plan 2007-08 outlay
6.	S&T Library & Documentation Programme (S&T L&DP)	30.00	2.00
7.	Science Centre s Programme (SCP)	150.00	12.00
8.	State S&T Cell/Council (SSTC)	100.00	18.00
9.	Bio-Resources Development Programme (BRDP)	150.00	8.00
10.	Remote Sensing Application Programme (RSAP)	50.00	2.00
	TOTAL -	1500.00	125.00

8.2 INFORMATION TECHNOLOGY

8.2.1 Information Technology Department has no Plan outlay during the Tenth Plan as the Department was created only in the year 2001. The approved outlay for the Annual Plan 2003-2004 is Rs.75.00 lakhs and the actual expenditure is Rs.74.71 lakhs. The approved outlay for the Annual Plan 2004-2005 is Rs.171.00 lakhs and the actual expenditure is Rs.82.96 lakhs. The approved outlay for the Annual Plan 2005-2006 is Rs.530.00 lakhs and the actual expenditure is Rs. 527.29 lakhs. The approved outlay for the Annual Plan 2006-2007 is Rs. 635.00 lakhs which is expected to be utilised in full. The total anticipated expenditure for the last four years of the Tenth Plan (2002-2007) is Rs.1319.96 lakhs. The proposed outlay for the Eleventh Five Year Plan (2007-12) is Rs. 8000.00 lakhs and for the Annual Plan 2007-08 is Rs. 750.00 lakhs.

8.2.2 Review of the Tenth Plan:

The State of Meghalaya has been a late starter in the field of IT. The IT Industry in the State is in a nascent stage and very few e-governance applications have been developed and rolled out. Basic IT infrastructure in the State is deficient. Most Government offices are not connected to the Internet and PC penetration amongst the population remains low. In respect of e-readiness, the State is a level 5 (five) achiever (below average). Since Meghalaya has been a laggard in IT, it has been unable to reap the benefits of the IT revolution in terms of jobs for local youths or increase in the State GDP. Youth from the State are forced to migrate to other parts of the country to find jobs in BPOs and software companies.

From 2003-04 onwards the Department has been implementing Plan schemes like building up of IT infrastructure, furnishing of its newly allotted space, establishing and support for GIS activities in collaboration with NESAC, set up Computer Learning Centres in District Headquarters, participated in IT events, conducting IT related seminars and workshops, contribute towards setting up of IT Park by STPI, Govt. of India, made other contributions to NISG and other agencies, gave financial support to colleges for setting up of CISCO Networking Academies, providing internet connectivity to colleges etc. Apart from

these, the Department is also implementing State Wide Area Network (SWAN) and Common Service Centres (CSC) under NeGAP funded by the Govt. of India. To strengthen its effort to develop IT infrastructure and GIS activities, the Department has also received financial support from the North Eastern Council (NEC).

8.2.3. Eleventh Plan Programmes:

A comprehensive strategy is necessary to simultaneously address the various issues involved. At the outset, it is absolutely vital to build up core IT infrastructure in the State namely, State Data Centre (SDC), State Wide Area Network (SWAN) and Common Service Centres (CSC). These three are also the key components of an initiative by the Government of India and substantial funding in this respect is available from the Ministry of Communications and Information Technology. However, there is also a significant counterpart state funding involving in respect of core infrastructure. While the precise quantum in respect of SDC cannot be assessed right now in the absence of Government of India guidelines, it is clear that in respect of the SWAN, horizontal connectivity at State, District, Subdivision and Block level would have to be borne by the State. The State would have to also budget for a disaster recovery centre and some support entrepreneurs for the Common Service Centres (CSCs). In addition, a comprehensive plan has to be made in the wake of potential threats such as EMP terrorism etc.

8.2.4. A strategic IT vision for the State titled “**IT Vision 2020**” has been drawn up by the State Government to cover various aspects of ICT development for the State as well as for promoting Meghalaya as a destination for IT investment. The overriding focus of the vision is the creation of jobs through ICT within the State. In addition to core infrastructure, one of the key elements of this vision is the setting up of IT Estate. While options in respect of Public Private Partnership (PPP) would be kept open, given the prevailing conditions in the North East it shall be necessary for the Government to take the lead in building up this Estate. Another vital element of the vision would be the building up of skill sets and capabilities amongst the youth as well as teaching institutions so as to create an adequate pool of employable personnel.

8.2.5. Given the size of the State, its low population and local sensitivities, it would be useful for the State to specialize in certain areas of IT. Good examples of this could be GIS based applications, animation works, KPO, foreign language based support desks etc.

8.2.6. The broad break-up of the proposed outlay for Information & Technology during the Eleventh Plan (2007-2012) and also during Annual Plan 2007-08 are indicated below:-

Sl. No	Items	(Rs. in lakhs)	
		Proposed Eleventh Plan (2007 -2012) Outlay	Proposed Annual Plan 2007-08 outlay
	<u>INFORMATION & TECHNOLOGY</u> <u>New Schemes</u>		
1.	Incentive to entrepreneurs under IT Policy	15.00	2.50

Sl. No	Items	Proposed Eleventh Plan (2007-2012) Outlay	Proposed Annual Plan 2007-08 outlay
2.	Research & development technology on IT Frontier	15.00	2.50
3.	Network and computing infrastructure security	15.00	2.00
4.	Incentive to IT entrepreneurs setting up facility at IT Park, Shillong	10.00	2.00
5.	IT Estate/ City	500.00	20.00
6.	Study and usage of nano technology	10.00	1.50
7.	Development of software technology	15.00	3.00
8.	Support to other ICT promotional activities	25.00	3.00
<u>Continuing Schemes</u>			
9.	Infrastructure development for IT Department	50.00	10.00
10.	Conducting of seminars/ conferences/Workshops	20.00	4.00
11.	Furnishing of allotted space of IT Department	100.00	10.00
12.	SRS of Departments	20.00	2.00
13.	Printing & publication of IT	15.00	2.00
14.	Participation in seminars/ workshops/ conferences	20.00	3.00
15.	Training of State govt. employees	40.00	8.00
16.	Contribution to IT institutions/agencies/NRIS	45.00	8.00
17.	Creation of posts	100.00	10.00
18.	Procurement of IT related publications/ magazines	15.00	1.50
19.	Advertisements etc.	10.00	2.00
20.	Broadband internet connectivity	25.00	3.00
21.	Networking/LAN cabling	50.00	8.00
22.	E-Governance/GIS applications	200.00	40.00
23.	Computing infrastructure to Meghalaya House, Mumbai/ Vellore etc.	40.00	8.00
24.	Augmentation of computing infrastructure in the Districts	35.00	7.00
25.	Printing of brochures/training materials etc.	10.00	2.00
26.	Common Service Centres	750.00	100.00

Sl. No	Items	Proposed Eleventh Plan (2007-2012) Outlay	Proposed Annual Plan 2007-08 outlay
27.	State Data Centre	350.00	60.00
28.	Implementation of SWAN last mile	2000.00	350.00
29.	Civil Works	100.00	15.00
30.	IT Education	300.00	40.00
31.	Innovative Schemes	100.00	20.00
	TOTAL =	5000.00	750.00

8.3. ECOLOGY AND ENVIRONMENT

8.3.1. The agreed Tenth Plan outlay for Ecology and Environment sector is Rs.450.00 lakhs and the actual expenditure from 2002-03 till 2005-06 was Rs.166.64 lakhs. The approved outlay for 2006-07 is Rs.75.00 lakhs. this amount is expected to be utilized fully. The anticipated expenditure for the Tenth plan is Rs. 241.64 lakhs. The proposed outlay for the 11th Five year plan is Rs.700.00 lakhs and the amount proposed for 2007-08 is Rs.100.00 lakhs.

8.3.2 The State Government through the State Forest & Environment Deptt has taken up various schemes of afforestation, roadside plantation, construction of public convenience and maintenance of parks etc. under this sector. The department proposed to carry out these various activities in different parts of the State during the Eleventh Plan. Improvement of ecology and environment with participative approach with traditional institution/NGO's is also proposed to be taken up during the 11th Plan under this programme.

8.4. FORESTRY AND WILDLIFE

8.4.1. The Tenth Plan projected outlay for the sector is Rs 5250.00 lakhs. The actual expenditure incurred from 2002-03 to 2005-06 was Rs 2672.85 lakhs. The approved outlay during 2006-07 is Rs.2300.00lakhs which includes Rs.1500.00 lakhs under TFC award. The Tenth Plan anticipated expenditure is Rs.3472.85 lakhs excluding TFC Award. **The proposed outlay for the Eleventh Plan period is Rs.16000.00 lakhs and the proposed outlay for the Annual Plan 2007-08 is Rs.3100.00lakhs including the Award under the Eleventh Finance Commission.**

8.4.2. Achievements made during the Tenth Plan Period:--

i) During the Tenth Plan period, plantations were taken up in the blank areas in the Reserved Forests covering an area of 5362 hectare. Tending operation were carried out by way of weeding, fire protection etc upto the Fifth Year of plantation.

ii) The number of seedlings raised under forest nurseries were 72,56,000 nos which were distributed to the public.

iii) Under Communication and Building programme, 618.4 Kms. of forest roads were maintained through construction of bridges, culverts, retaining walls etc and 2 kms. were covered under new roads. A total of 81 nos (eighty-one) buildings was constructed both Govt. non-residential and residential buildings for accommodation of staff.

8.4.3. Objectives and Strategy for the 11th Five year Plan 2007-2012)

i) **Mitigating land Degradation and Increasing green covers** :- There is a great need for improvement of the density of forests from which usufructs may not be available in the near future and would need immediate intervention from State forest Deptt.

ii) **Strengthening the protection mechanism of Reserved Forests and other protected forests** :- The Forests nowadays are under severe threat from miscreants and organized timber smugglers which also operate internationally. In view of the problem faced by the department, strengthening of the existing staff is required by providing greater mobility and communication. Adequate assistance of capital nature is available from the provisions of Finance Commission Awards and Integrated Forest Protection schemes of Govt. of India. However, to use this capital infrastructure effectively, a significantly enhanced allocation in administrative expenditure is needed.

iii) **Preservation of wildlife and bio-diversity** :- The State has 2 (two) National Parks and 3 (three) wildlife sanctuaries in addition to one Biosphere Reserve. As most of the forests is a wildlife habitat, there is a need on conservation of biodiversity..

iv) **Development of Bamboo** :- The State has ample potential for utilizing bamboos as bamboo charcoal thus conserving the tree cover. As such, the department intends to set up large model plantations of bamboo during the Eleventh Plan **The Bamboo Mission is also being launched.**

v) **Medicinal Plants** :- As the state has great potential for medicinal plants, the state medicinal Plants Board has already been put in place and more activities are being planned even above the mandate of the National Medicinal Plants Board.

vi) **Identification and Protection of Sacred Groves** :- There are 91 (ninety-one) identified sacred groves in the State which are the relics of original forest eco-systems conserved by the local tribal populace. Hence, there is an urgent need of protecting and enriching them in a natural way.

vii) **Revitalising Forest Development Corporation of Meghalaya Ltd** :- The forest Development Corporation of Meghalaya Ltd has to be rejuvenated by way of providing inputs in the form of additional share capital in the new forest based projects like bamboo and medicinal plants.

8.4.4. TFC Award :- The Twelfth Finance Commission has recommended a grant of Rs. 30.00 crore spread over the award period 2005-2010 for maintenance of forests as the Commission recognize that forests are a national wealth which needs to preserve it. This shall cover the forest area of 15584 sq. kms. The total amount recommended by TFC for Forestry Sector comes to an amount of Rs.65.00 crores as grants for tackling certain state-specific issues for the following schemes:-

i) **Maintenance of Forests** :- Rs.30.00 crore

ii) **Zoological Park** :- For protecting endangered species, the TFC recommended an assistance of Rs.30.00 crore to establish a Zoological Park

(under State Specific Needs)

iii) **Botanical Garden** :- In order to conserve flora, an amount of Rs.5.00 crore has been recommended for establishment of Botanical Garden.

During 2006-07 the State High Level Committee approved an amount of Rs.1141.90 lakhs for 'Maintenance of Forests and an amount of Rs. 3415.00 lakhs for setting up of Zoological Park' under "State Specific Needs," out of which Rs.3000 lakhs will be met out of central funds recommended by TFC and the balance of Rs.415.00 lakhs will be financed by Zoo Authority of India.

8.4.5. Proposed 11th Plan & Annual Plan 2007-08 outlay:-

An outlay of Rs.4100.00 lakhs is proposed for the 11th Plan period and Rs.1060.00 lakhs for the Annual Plan 2007-08.

The broad break up of the outlay proposed for the 11th Plan and Annual Plan 2007-08 is as indicated in the table below:-

(Rs. Lakhs)

Name of scheme	Proposed Outlay for the 11 th Five year Plan	Proposed Outlay for the Annual Plan 2007 -08
Direction & administration	1200.00	200.00
Training	500.00	100.00
Survey of Forest Resources	270.00	50.00
Statistics	150.00	25.00
070-Communication & Bldg	300.00	75.00
Forest Conservation & Dev.	1000.00	200.00
Social & farm Forestry	3000.00	600.00
Preservation of wildlife	2500.00	200.00
Zoological Park	200.00	50.00
Public Garden	200.00	50.00
Bamboo Mission	1500.00	200.00
Scheme under TFC Award	4100.00	1060.00
Contribution to Eco-Dev. Societ	200.00	40.00
Forest Research & Education	100.00	50.00
Asstt. to public sector	300.00	100.00
4406- Comm & building	480.00	100.00
Grand Total	16000.00	3100.00