

## CHAPTER - XII

### Scientific Services and Environment

#### 12.1 Science and Technology

The Department of Science & Technology was created by the Government of M.P. in June 1981. Subsequently, the MP Council of Science and Technology was registered under the M.P. Registration of Societies Act, 1973 in October 1981.

The main objectives of the Council are to identify areas where Science and Technology inputs are required for development in various sectors, with special reference to SCs/STs and weaker section, to contribute towards development of science and technology capabilities in the state and to take all such steps which will promote modernization in the State. The Council is also authorized to initiate and assist in the development of laboratories which would promote development of the State and popularize science in the State.

During last five year, the Council had supported different universities, colleges, scientific institutions and NGO's for their research and development work. Around 102 seminars / symposia / workshop were also organized in the state by the Council. Six talented scientists of M.P. were awarded with Young Scientist's Scholarship. A Village-wise integrated database was created for all districts of Madhya Pradesh containing land cover, ground water, agriculture, forest etc. Various projects related to survey, monitoring and management of natural resources were undertaken.

#### 2.0 Performance of Annual Plan 2008-09

- 2.1 The council has received approved outlay for the year was Rs. 2075.00 lakh. Against this total expenditure reported by the council was Rs. 1793.48 lakh.
- 2.2 During the year, council has outperformed interms of physical target achievement. All the targets during the year has achieved successfully. Council has positively progressed in implementing and/or running the important schemes through activities like popularization of science, research and development activities, remote sensing application centre, information technology, manpower development and training in library science, application of science and technology for poverty alleviation and improvement of quality of life, national resources information system.
- 2.3 Under applications for rural development workshop/Awareness 50 programmes were supported for the year 2008-09. Travel support was provided to 2 candidates for presentation of research papers in foreign countries. Two Awards have been declared namely All India Young Scientist Award and (ii) Madhya Pradesh Young Scientist Award.
- 2.4 Under the programme of National Science Day's fortnight several hundred awareness programmes have been organized in the Schools, Colleges, Universities, R&D Institutions, Panchayati Raj Institutions and Villages, Voluntary organizations and for creating awareness among people about science and water pollution etc. organise the

programme across river banks where festival are celebrated from time to time throughout all the district of Madhya Pradesh.

### 3.0 Review of Annual Plan 2009-10

- 3.1 All the ongoing programmes have being continued in the annual plan 2009-10. The new schemes introuduced during the year are Centre of Excellence for Biotechnology, Mission Excellence of Human Resources, Documentation and Scientific Validation of Traditional Knowledge, Establishment of Technology Business Incubator, Transcription and Rural Traditional Knowledge and Documentation of Inventions and Establishment of an Observatory and Planetarium at Ujjain (Dongla).
- 3.2 Overall, an outlay of Rs. 1715.00 lakh for Annual Plan 2009-10 is approved. The actual (upto 31st Oct. 2009) Rs. 546.68 lakh.
- 3.3 Regular activities, training programmes for under graduate and post graduate students are being regularly organized. For Quality Testing of Water, Food Products and Tissue culture training in the area of Herbal Drug Testing, Microbiology and Molecular Biology were done under the programme of Centre of Excellence in Biotechnology Six Laboratories were set up last year and continue functioning in the Council, besides supporting several nodes in existing institutions. Work on Quality Assurance System of Water, Soil, Food and Herbal Drug in the State becomes regular feature. Research and Development for promotion of organic cultivation has come important intervention in the council. The anticipated achievements are 90 beneficiaries under Tissue Culture Awareness workshops, 48 Biotechnology workshops and 66 Trainees to be benefited under Bio informatics and Molecular biology workshop and training for researches.

### 4.0 Annual Plan 2010-11.

- 4.1 Council has received the plan outlay of Rs. 1810.00 lakh, out of which 1423.13 is allocated in normal plan; Rs. 196.78 Lakh is in TSP and Rs. 190.09 Lakh is allocated under SC Sub-Plan for annual plan 2010-11. Schemewise proposed outlay is highlighted below:

(Rs. in Lakh)

Schemes	SS/DS	Total	Normal	TSP	SCSP
Research & Development Activities	SS	200.00	144.00	25.00	31.00
Application of S & T for Alleviation & Improvement Quality of life	SS	100.00	25.00	50.00	25.00
Popularisation of Science	SS	125.00	70.00	25.00	30.00
Remote Sensing	SS	350.00	264.91	25.00	60.09
Estt. of Patent & IPR centre	SS	5.00	3.00	2.00	0.00
Bio Technology Application centre	SS	150.00	116.22	18.78	15.00
Direction and Administration	SS	150.00	150.00	0.00	0.00
Mission Excellence of M.P.Human Resources	SS	90.00	32.00	38.00	20.00
Documentation and	SS	50.00	30.00	15.00	5.00

Schemes	SS/DS	Total	Normal	TSP	SCSP
Scientific Validation of Traditional Knowledge					
Construction Work	SS	75.00	75.00	0.00	0.00
Est. of Technology Business Incubator	SS	5.00	3.00	2.00	0.00
Estt. of Planetarium , Observatory & Science Park, Ujjain	SS	250.00	250.00	0.00	0.00
Rural Technology Applicatiuons	SS	160.00	160.00	-	-
M.P. Resource Atlas Scheme	SS	100.00	100.00	-	-
<b>Total</b>		<b>1810.00</b>	<b>1423.13</b>	<b>196.78</b>	<b>190.09</b>

**4.2 Proposed physical targets under major schemes for the annual plan 2010-11 is as follows:**

S. No.	Activities	Activities	Unit	Targets
1	Application of S&T for alleviation and improvement of quality of life	Training, seminar, survey etc.	No. of programme	120
2	Research and development	- Research projects - Seminar/workshop	No. of projects No. of prog	10 100
3	Popularisation of Science	- Awards - Agencies - Participants attended on various Thematics - National Science day and Technology programmes - Prakiti Vigyan Mela and Swasthya gyan pariksha	No. No. No. of programme No. of programme No. of prog. Participants	15 125 18 100 07 50000

**5.0 New Schemes**

- 1. Rural Technology Applications Centre (RTAC)** - The basic objective of the centre would be to identify, preserve and promote rural innovative brains and practices and to apply these for the benefit of society in a scientific manner. Additionally, it would endeavour to integrate traditional and anciaent technology and practices with modern scientific knowledge base with an aim to provide value addition to age long traditions and practices. For this Rs. 160 lakhs is proposed for annual plan 2010-11.
- 2. Madhya Pradesh Resource Atlas** - M.P. Council of Science and Technology is preparing Resource Atlas for Madhya Pradesh at State level and District level.. The data on various parameters such as geographical, historical, society and culture, agricultural economy, mines and mineral, infrastructure and trade etc. are being taken for preparing Atlas. An outlay of Rs. 100.00 lakhs is proposed for this scheme during the annual plan 2010-11.

## 12.2 M.P. Pollution Control Board

M.P. Pollution control Board is a statutory body constituted under central Act in 1974. Presently it is implementing 3 major heads and **water** (prevention and control of pollution) Act 1974 and cess Act 1977, **Air** (prevention and control of pollution) Act, 1981 and **Environmental** protection Act 1986, Certain rules on hazardous waste, manufacture, storage, import and handling of hazardous chemicals, Bio medical waste (management and handling) rules, 1998, recyclable plastics (manufacture & use) Rules, 1999, municipal solid waste (management and handling) Rules, 2000, Batteries (management and handling) Rules 2001 are being implemented.

The prime objective of the Board is to keep constant vigil on the environment of the state and maintain the pristine quality of air and water for the effective and timely implementation of environmental laws and necessary policies as laid by state & central Government. Board is looking after enforcement and implementation of the following Acts:

- Water (prevention and control of pollution) Act, 1974
- Water (prevention and control of pollution) Cess Act, 1974
- Air (prevention and control of pollution) Act, 1981
- Environment (Protection) Act, 1986:-
- Environment (Protection) Act, 1986 :-
- Hazardous Waste ( Management & Handling ) Rules ,1989
- Hazardous Chemicals Manufacturing, Storage & Import Rules, 1998
- Bio Medical Waste ( Management & Handling ) Rules ,1998
- Recycled Plastic ( Manufacturing & Use ) Rules ,1999
- Recycled Plastic ( Manufacturing & Use ) Amendment Rules, 2003
- Municipal Solid Waste ( Management & Handling) Rules , 2000
- Battery ( Management & Handling ) Rules ,2001
- EIA Notification Dated 27.01.1994
- EIA Notification SO 801(e) Dated 07.07.2004
- Hazardous Waste (Management, Handling & Transport) Rules, 2008
- Public Liability Insurance Act, 1991
- Rules of M.P.Government:
- Water (prevention & control of pollution) M.P.Rules ,1975
- Water (prevention & control of pollution) Consent, M.P.Rules, 1975
- Madhya Pradesh State Pollution Prevention & Control Water pollution Board & its Committee (Meeting) Rules, 1975
- M.P.Non bio degradable Waste (control) Act & Rules
- M.P. Non bio degradable Waste (control) Act , 2004
- M.P. Non bio degradable Waste (control) Rules , 2006

Board also organizes awareness activities on various environmental related issues for smooth co-ordination from other agencies. Board has established a Research Center at Bhopal supported by sophisticated equipments to carry out constant research in the field of environment. Board also has Regional laboratories at each Regional office.

## 2.0 Performance of Annual Plan 2008-09

- 2.1. The plan outlay of Rs. 64.00 lakh for Annual Plan 2008-09 has been approved against which expenditure of Rs. 46.45 lakh was reported by the department. During the year, Pollution Control Board completed all its physical targets related to schemes - research & development; strengthening of Organisation; annual awards and commen treatment facility.

## 3.0 Review of Annual Plan 2009-10

- 3.1 An outlay of Rs. 400.00 lakh for Annual Plan 2009-10 has been approved against which anticipated expenditure reported was Rs. 400.00 lakh i.e. 100%. During the year, Pollution Control Board completed all its physical targets related to schemes - research & development; strengthening of Organisation; annual awards; environmental upgradation through Public Relations; zoning atlas project and national river conservation plan

## 4.0 Annual Plan 2010-11

- 4.1. The following physical targets has been set for the plan year 2009-10
- Research & Development
  - Strengthening of Organisation
  - Environment award
  - Commen Treatment facility
  - Workshop, Traning, Seminar and public relation.
- 4.2 An outlay of Rs. 425 lakh has been allocated for Annual Plan 2010-11. Out of which, 100 % is propose to be allocated in normal plan. Scheme wise information is highlighted below:

<b>(Rs. in Lakh)</b>	
<b>Schemes</b>	<b>Proposed outlay</b>
Research & Development	257.00
Annual environment Award	08.00
Strengthening of organization	144.00
Workshop, Traning, Seminar and public relation.	16.00
<b>Total</b>	<b>425.00</b>

### 12.3 Disaster Management Institute

The State of Madhya Pradesh is prone to various disasters of recurring nature. These disasters result in loss of life and property, both the public and private. These also disrupt economic activity causing immense misery and hardship to the affected population. It is felt that, much of this loss is avoidable and can be mitigated. This is the high time to manage the disasters those may occur in one or more parts of the State. For effective management of these disasters the present need is to evolve a strategy for reducing their impact, and for giving assistance to the affected population. A well-prepared action plan can save many lives and loss of property at the time of occurrence of a disaster. At the time of disaster entire administrative machinery and the community's cooperation to be geared up to execute well laid action plan.

Government of Madhya Pradesh is the first state of the country to issue the "State Policy on Mitigation and Management of Disaster" in June 2002. As stated in the Policy, State is prone to earthquake, floods, drought, fire, chemical and industrial accidents, fire, hailstorms, accidents, and epidemics. Each disaster has a different character and therefore requires a different plan of action for its prevention and mitigation. The management plan, similarly, calls for an disaster specific preparedness, response and recovery plan, though there may be some commonalities.

Government of Madhya Pradesh has recognised the importance of disaster preparedness for preventing and reducing their adverse impact on the human population after the experience of Bhopal Gas Tragedy. It established the **Disaster Management Institute (DMI)**, in 1987 to provide emergency preparedness in the State. The Institute is being provided plan-support by the State Government since 1990. The main objectives of the Institute are as follows:

- ❖ Conduct training & public awareness programmes on disaster management & related subject and run postgraduate diploma & degree courses on disaster management and industrial safety;
- ❖ Carry out research oriented studies on the disaster management and collect and disseminate information related to hazards and disasters;
- ❖ Offer consultancy services to industries and others.

#### 2.0 Performance of Annual Plan 2008-09

2.1 The Institute has been provided budgetary support of Rs. 100.00 lakh during financial year 2007-08. The department has also reported 100% utilization of budget. Approx. Rs. 37 Lakh has been spent through new scheme. Details are mentioned below under following heads:

**Table 12.3.1**

S. No.	Head	Rs. in Lakh
1	Training Course/Seminars/Conferences on Disaster Management	3.00
2	Awareness Programmes on Disaster Management	3.00
3	D.M.I. Establishment	55.00
4	Library and Documentation Centre	2.00
5	Strengthening and Up-gradation	37.00
	<b>Total</b>	<b>100.00</b>

2.2. Against the physical target for organizing 35 training programmes and 10 awareness programmes during financial year 2008-09, the Institute has conducted all his planned targets. The Institute has also provided consultancy and advisory services to the Industries and Government agencies on issues related to industrial safety and natural disaster management.

### 3.0 Review of Annual Plan 2009-10

3.1. The State Government directed to intensify capacity building interventions both in the Government sector as well as for community and industry for the prevention and preparedness for reducing the losses from natural and industrial disasters. Therefore, there is positive increased in the the outlay for yr.09-10.

3.2. An outlay for Rs.120.00 lakh has been approved. The anticipated expenditure for the financial year 2009-10 is Rs. 120.00 lakh e.i 100%. The scheme wise anticipated expenditure is given below:

**Table 12.3.2**

(Rs. in Lakh)

S. No.	Head	Anticipated Expenditure
1	Training Course/Seminars/Conferences on Disaster Management	20.00
2	Awareness Programmes on Disaster Management	5.00
3	D.M.I. Establishment	75.00
4	Library and Documentation Centre	3.00
5	Strengthening and Up-gradation	17.00
<b>Total</b>		<b>120.00</b>

### 4.0 Annual Plan 2010-11

4.1 An outlay of Rs.125.00 lakh is proposed. The schemewise proposed outlay for annual plan 2010-11 is as given below:

**Table 12.3.3**

(Rs. in Lakh)

Schemes	SS/DS	Total Outlay
Training Cources/Seminars/Conferences/Disaster Mgmt.	SS	20.00
Awareness Programme on Disaster Management	SS	5.00
Library & Documentation Control	SS	5.00
D.M.I. Establishment	SS	85.00
Strengthening & Up-gradation(New)	SS	10.00
<b>Total</b>		<b>125.00</b>

5.0 The Institute will organize 35 training programmes on various issues of disaster management & mitigation and similarly the 10 awareness programmes on disaster management will also be conducted during the financial year 2010-11.

## 12.4 Environmental Planning & Coordination Organisation

In last two decades, considerable consciousness towards the environment has increased, largely on account of the realization of the damage caused to environment by various human actions. Madhya Pradesh is one of the few states in the country which recognized the imperative need for environmental conservation and management quite early. A separate Department of Environment was created in 1973, with the aim to identify various problems and to co-ordinate developmental activities in such a manner that the ecological balance is restored and maintained.

The Environmental Planning & Coordination Organization (EPCO) was established by the Housing and Environmental Department of the Government of Madhya Pradesh in 1981. Over the years, EPCO has steadily grown to become the states premier organization for environment related matters. EPCO is a think-tank for environmental matters and is also project oriented.

### Aims of Environmental Planning & Coordination Organisation (EPCO):

- To create public awareness with regard to environment in the state and to assist and advice the Government of M.P. in the formulation and implementation of environmental policies in the State.
- To identify major environmental problems and assist in solving these through research studies and to organize educational and training programmes for professionals, managers, administrators and people in genera. Also to coordinate the activities of Government and Semi-Government agencies in these efforts.

### 2.0 Review of Annual Plan 2008-09

2.1. The plan outlay for 2008-09 was Rs.1263.00 lakh. The expenditure during the annual plan reported by the department was Rs. 931.68.00 Lakh.

2.2. Following table shows the physical targets and achievements for the Anual Plan 2008-09:

Table 12.4.1

S No.	Major Schemes	Item/activity	Unit	Physical	
				Target	Achivement
1	Environment training, research & education	Research and training	No. of trgs./ws	25	25
2	Conservation of urban water supply bodies	Upgradation/DPR projects	Nos.	3	3
3	Indra Gandhi fellowship	Projects	Nos.	1	1
4	National lake conservation plan	Environment conservation incl. upgradation	No. of lakes	3 partial	3 partial
5	National river conservation plan	Environment conservation incl. upgradation	No. of city	2 partial	2 partial



### 3.0 Review of Annual Plan 2009-10

- 3.1. An outlay of Rs. 1078.00 lakh for Annual Plan 2009-10 has been approved and the anticipated expenditure is Rs. 1078.00 lakh. i.e. 100% of total approved and budgeted outlay . The following table shows the physical target and anticipated achievement for the year 2009-10

**Table 12.4.2**

S. No.	Major Schemes	Item/activity	Unit	Physical	
				Target	Anticipated achievement
1	Environment training, research & education	Research and training	No. of trgs.	25	25
2	Conservation of urban water supply bodies	Upgradation/DPR projects	Nos.	3	3
3	Indra Gandhi fellowship	Projects	Nos.	1	1
4	Conservation of lake (sagar, shivpuri and rani talab)	Environment conservation incl. upgradation	No. of lakes	3 partial	3 partial
5	National river conservation plan	Environment conservation incl. upgradation	No. of city	2 partial	2 partial
6	SEIAA and SEAC – new scheme	Authority meetings	Nos.	24	24
7	CDM	Trainings/Workshops	Nos.	5	5

### 4.0 Annual Plan 2010-11

- 4.1. The plan outlay of Rs. 777.13 lakh has been proposed for Annual Plan 2009-10. out of which Rs. 723.13 lakh is proposed for normal and Rs.54.00 lakh is proposed as TSP Share. The Schemewise proposed outlays are as given below:

**Table 12.4.3**

(Rs in lakh)

Major Heads/Schemes	SS/DS	CSS	Total Outlay	Normal	TSP	SCSP
Environmental, Training, Education & Research	SS		187.50	187.50	0.00	0.00
Conservation of Urban waterBodies	SS		47.70	47.70	0.00	0.00
Indira Gandhi Fellowship for Environmental Improvement & Management	SS		2.25	2.25	0.00	0.00
Conservation of Lake (Sagar Shivpuri & Rani Talab Rewa)	SS	CSS	299.90	299.90	0.00	0.00

Major Heads/Schemes	SS/DS	CSS	Total Outlay	Normal	TSP	SCSP
National River Conservation Plan (NRCP)	SS	CSS	41.00	41.00	0.00	0.00
SEIAA & SEAC	SS		42.95	42.95	0.00	0.00
CDM	SS		101.83	101.83	0.00	0.00
Training programme for ST	SS		54.00	0.00	54.00	0.00
<b>Total</b>			<b>777.13</b>	<b>723.13</b>	<b>54.00</b>	<b>0.00</b>

**4.2. Based on the total proposed outlay, the physical targets proposed for the Annual Plan 2010-11**

**Table 12.4.4**

S. No.	Major Schemes	Item/activity	Unit	Physical Targets
1	Environment training, research & education	Research and training	No. of trgs.	25
2	Conservation of urban water supply bodies	Upgradation/DPR projects	Nos.	3
3	Indra Gandhi fellowship	Projects	Nos.	1
4	Conservation of lake (sagar, shivpuri and rani talab)	Environment conservation incl. upgradation	No. of lakes	2 Partial works
5	National river conservation plan	Environment conservation incl. upgradation	No. of city	3 partial works
6	SEIAA and SEAC	Authority meetings	Nos.	24
7.	CDM	Trainings/Workshops	Nos.	5
8.	Training prog. For beneficiaries of ST and other traditional dwellers – <b>new scheme</b>	Training prog.	Nos.	6

**4.3. Following are the nature of main schemes to be undertaken in the Annual Plan 2010-11 --**

**Environmental Research Training and Education:**

The main objective of this scheme is to study various environmental problems of the state and suggest suitable corrective measure. In addition to these studies a comprehensive document on the environmental status of the state is also prepared and produced.

**Environmental Conservation of Water Bodies:**

The Govt. of Madhya Pradesh has always accorded high priority for the conservation of lakes and water bodies. In the Environmental policy of the state a special mention has been made for the Conservation of Water Bodies and Ground water recharge.

During the Annual Plan 2010-11 similar environmental conservation activities and environmental projects work proposed to be undertaken. Every year at least one water bodies environmental conservation programme and other water bodies environmental project report are proposed to be prepared.

**Indira Gandhi Fellowship for Environmental Management:**

The only fellowship of its kind in the country instituted by the Government of Madhya Pradesh, Indira Gandhi fellowship for Environmental Conservation was instituted in the year 1985 and is awarded annually to research scholars and scientists who intend to study on environmental problems and offer suitable corrective suggestions.

**Conservation of Lakes ( Sagar Lake, Shivpuri Lakes and Rani talab):**

Under National Lake Conversation Plan (NLCP) scheme of Ministry of Environment and Forest Govt. of India for the conservation and up gradation to be under taken for Sagar Lake, Shivpuri Lakes.

**Conservation of River (Behar River Rewa, Narmada River Hoshangabad):**

Under National River Conversation Plan (NLCP) scheme of Ministry of Environment and Forest Govt. of India for the conservation and upgradation to be under taken for Behar River, Rewa and Narmada River Hoshangabad.

**Training programme for beneficiaries of schedule tribes and other traditional dwellers (recognition of forest rights) act 2006**

EPCO, in collaboration with expert agency in the state like IIFM, National law institute of university and state forest research institute etc. would organize series of master trainers training programme for field functionaries associated directly or indirectly with the management of forest resources. The tranings is also focus on issues of forest resource management.

**CDM:**

The climate change cell intends to establish a mechanism that facilitates management of long term climate risks and uncertainties as an integral part of state development planning. The cell will facilitate strengthening the capacity of the professionals, practitioners, policy makers to reduce unacceptable risks and improve preparedness for climate change impacts. The proposed specific objectives of the climate change cell are:

**Objectives:**

- ❖ Building the capacity of the state government to coordinate and mainstream climate change issues in development activities.
- ❖ Establishing a convergence based approach to climate change
- ❖ Strengthen existing knowledge and information accessibility on impact prediction and adaption to climate change
- ❖ Awareness raising, advocacy and coordination to promote adaption to climate change and risk reduction in development activities
- ❖ Facilitating carbon trading in mp with bilateral/multilateral support

**Roles and Functions:**

- ❖ Provide services to ensure environmental sustainability – MDG
- ❖ Development goal 7 through facilitating, identification and implementation of development projects. The broader user community shall access these results in planning their sectoral level planning
- ❖ Awareness raising
- ❖ Information and knowledge management
- ❖ Capacity building and partnership building with agencies across the sectors and facilitating horizontal and vertical coordination for mainstreaming climate change.
- ❖ Documentation of good practices in risk management and adapting to climate change to promote replication

## 12.5 Biodiversity and Biotechnology

The State Government has constituted separate Department for Biodiversity and Biotechnology with the intention to focus attention on sustainable use of the state's rich and diverse bio-resources and promote the use of application in biotechnology for deriving benefits in a wide range of sectors such as forestry, environment, agriculture, animal husbandry, fisheries, human health etc.

The Department of Biodiversity and Biotechnology, GOMP has been constituted in the year 2001. It has two organizations , one is M.P. State Biodiversity Board (MPSBB) it has been constituted in the year 2005 & other organization is M.P. Bio-Technology Council, constituted (MPBTC) which has been constituted WEF 05/04/2006

The mandate of the Biodiversity Board is defined in the M P Biodiversity rules 2004 as notified by Dept. of BDBT on 11/12/04. The primary mandate of the Biotechnology Council is to implement the MP Biotech Policy 2003. The Dept. of BD&BT provides grants to MPSBB & MPBTC for various activities and administrative expenses.

Following are various activities of MPSBB and MPBTC can be divided into 06 major thematic areas:

Main activities of MPSBB	Main activities of the MPBTC
<ul style="list-style-type: none"> <li>• Research &amp; documentation;</li> <li>• Education awareness and training;</li> <li>• In-situ/ex-situ conservation;</li> <li>• Sustainable use and equitable benefit sharing;</li> <li>• Governance;</li> <li>• Policy &amp; law.</li> </ul>	<ul style="list-style-type: none"> <li>• Establishment of Institute of Life Science and technology;</li> <li>• Establishment of Biotech Park;</li> <li>• Providing financial assistance to different Universities to carry out research in the field of Biotechnology;</li> <li>• Skills up-gradation of teachers and students working in the field of Biotechnology.</li> <li>• Establishment of Biotech Centers for the dissemination of knowledge and technology at the grass root level.</li> </ul>

### 2.0 Performance of Annual Plan 2008-09

**2.1. An outlay of Rs. 407.00 Lakh** is approved for the year 2008-09 and department has reported Rs. 309.34 Lakh as total expenditure.

**2.2** During the year, State Bio-diversity Board has prepared the documentation of Flora and Fauna in various eco-regions of the State. On the basis of these, conservation and development activities shall be taken up for various threatened species. Bio-diversity conservation committees have also been constituted at the level of local bodies.

**2.3** During the year, publicity, workshops, conferences were organized. Works on Bio-diversity parks in the 5 cities of the state is under progress. Establishment of Bio-Technology park and incubation centre, Institute of Life Sciences & Technology is

under progress. Research Projects related to Biodiversity and Biotechnology is also under progress.

### 3.0 Review of Annual Plan 2009-10

3.1. An outlay of Rs. 348.00 lakh for Annual Plan 2009-10 is approved. The department has reported Rs. 348.00 Lakh as anticipated expenditure by the end of March 2010.

### 4.0 Annual Plan 2010-11

4.1. An outlay of Rs. 365.00 lakh for the annual plan 2010-11 is proposed. During the year, department is proposed to work further on establishment of Institute of Life Sciences; assistance for establishment and development of biotechnology units; assistance for projects related to biodiversity and biotechnology; expenditure pertaining to Biotechnology Council, and expenditure pertaining to Biodiversity Board. The schemewise proposed outlay is as below:

**Table 12.5.1**

(Rs. in lakhs)

<b>Schemes</b>	<b>SS/DS</b>	<b>Total</b>
1. Establishment of Institute of Life Science	ss	50.00
2. Assistance for Establishment & Development of Biotechnology Units	ss	14.00
3. Assistance for Projects related to Biodiversity & Biotechnology	ss	86.00
4. Expenditure pertaining to Biotechnology	ss	83.00
5. Expenditure pertaining to Biodiversity Board	ss	132.00
<b>Total</b>		<b>365.00</b>

### **Important Interventions:**

- ❖ Biodiversity Management Committees (BMCs) at the levels of all local bodies including urban bodies to undertake various programmes of Bio-diversity conservation ;
- ❖ Technical Support Groups (TSGs) in all districts to provide effective direction to the BMCs;
- ❖ Enactment of special rule viz. M.P. Biodiversity rules;
- ❖ Formulation of specific Biotechnology Policy;
- ❖ Constitution of district level co-ordination committees for Biotechnology intervention;

## 12.6 Information Technology

In the people centric approach to development, the State Government believes that information technology initiatives should focus on creating an environment for dissemination of information to every citizen, pertaining to his own welfare needs and opportunities for individual and social development and for effective delivery of citizen services. Envisaging the creation of a society with global opportunities Madhya Pradesh government developed its IT policy way back in 1999. The policy ushered the state into the 21<sup>st</sup> century.

**The broad vision of the State in the Information Technology sector is summarised as follows:**

- Improve the life of the common man leveraging the strengths of e-Governance.
- Attracting investment in the sector so that the educated youth is able to contribute to the development of the State.
- Create a pool of highly skilled professionals who are at par with the best in the country.
- Transforming Resource Based Economy to Knowledge Based Economy.

**Details of few important IT related work carried out by the department is detailed below:**

No.	Major Projects	Progress reported by department
1.	e-Tender	Project is being implemented to facilitate procurement in government departments/agencies. Project will not entail any financial expenditure on Government and has been modelled on Public Private Partnership basis. M/S Wipro has been awarded the project. Under the concept of BOOT, this project is being implemented. All departments purchase are being undertaking through e-tendering process under this website.
2.	Development of MP Online portal	With an objective to make available government services to citizens in a much convenient way. Information with regard to Vyapam and Electric distribution companies is available on MP Online <a href="http://www.mponline.gov.in">http://www.mponline.gov.in</a> . Payments of telephone bills, reservation for tourist to national parks and Web sites of Public Service Commission, Open School and related services have been developed.
3.	Establishment of Software Technology Park	<b>BHOPAL:</b> Govt. of MP, has allotted about 212.63 acres of land at Badwai village, adjacent to the city. The Park will be developed on Public-Private partnership basis. The process of request of qualification has been completed. The discussion on concession to the companies is also completed. SEZ status has been obtained and the selection of partner to develop the Park is also over. For this work, M/S UNITECH Ltd will undertake contract from MP State Electricals Development for the establishment in 20 Lakh Sq. Ft. area for the same purpose.  GoMP has allotted a land of about 36.437 Hect. for the park at village Purva near jabalpur city-(patwari halka no. 28/33, Khasra no. 865/5 and also a park is being established near IIITM,

No.	Major Projects	Progress reported by department
		<p>Gwalior who's area will be 12 hect. During the meeting dated 19-05-08, under the chairmanship of Principal Secy, it was decided that to retain the SEZ status, process has to reinitiate. Thereafter, the process of minimum qualification, concension to the companies and selection process of companies for Public-Private partnership has to be re-produced infront of committee.</p> <p>After terminating the SEZ status of Jabalpur, re-invitation under information technology has been proposed. For this all the amended documents has to be reproduced infront of committee.</p> <p>State government has proposed 13 IT SEZ establishment in the privator sector to the central government. The central government has also accepted the proposed proposal. Through this, employment to youths will be possible to large extent.</p>
4.	Establishment of Common Service Centre	<p>About 9232 common services centers will be established in the state for making available benefits of IT for citizens of the state. These centers will facilitate e-governance by offering citizen services such as education, health, entertainment, grievance redressal, certificates, utility payments etc among others. As per the direction and guidelines of central government, State electricals development, the tender process was completed and has selected agencies under PPP mode. They are 3i Infotech for Hosangabad division; AISECT for Chambal, Sagar, and Reva division; CMS computers for Gwailor and Bhopal division; NICT for Indore and Ujjain division; and Reliance communications for Jabalpur division. The agencies have also started work in the respective areas. Till the year end 850 CSC work has been completed.</p>
5.	State Wide Area Network (SWAN)	<p>Government of India has sanctioned State Wide Area Network for M P. Department to set up State Wide Area Network. The project envisages setting up a broad band network up to all block headquarters while establishing similar connectivity at all divisional and district headquarters. The proposed network would cater for the exclusive data/voice communication traffic of government departments/ agencies. In this process, 340 points of presence (POP) have established across the State. The work is being undertaken by M/s. TULIP IT services.</p>
6.	E-District	<p>Under national e-governance, e-district projects are being undertaken. Under this project, all the district departments and offices will be computerized and develop IT related resources for better services. MAP-IT is the nodal agency for the implementation of project. For this Govt. of India, IT dept, New Delhi will provide enough funds to the State Govt. Initially, project work will be completed in Guna, Gwailor, Shivpuri, Sagar, and Indore.</p>



No.	Major Projects	Progress reported by department
7.	E_Krishi Vipanan	MP Mandi Board with an objective to computerize its functions and to network its mandis initiated EKVI project. Project is being implemented on Public Private Partnership basis. Upon successful implementation of pilot, currently project is operational at around 64 major (all A&B class) mandis. All other mandis will also join under the project in phases. EKVI has got Golden Icon Award by Government of India in 2005.
8.	Computerization of Treasury & Accounts	Directorate of Treasuries and Accounts implemented the project by computerizing its functionality. Presently all the treasuries perform all major functions including bill passing and cheque printing are computerized. All the treasuries are connected through a dedicated network for this purpose.
9.	Smart Card Project in Transport Department	The first phase of the project has been successfully completed. The details of vehicles and driving licenses can be obtained online. For the next phase the agreement has been executed through tender process. A data centre will be available under central architect.
10.	Video conferencing studio	To facilitate quick and effective communication between the state headquarters and districts, video conferencing facilities have been created in Bhopal and all other districts. A data centre and public grievance redressal cell has been set up at Vallabh Bhavan. Due to massive use of facility, it has been entered into Limca book of world record.
11.	Establishment of centre for excellence in Govt. Engg. College.	State Govt. has taken decision to establish centre for excellence in Govt. Engg. College. Initially project will cover Govt. college of Ujjain, Rewa, Sagar, Jabalpur, and Sardar valabh polytechnic Mahavidhyalay Bhopal. Following are the company will under the work a) Engg. College Jabalpur - IBM b) Engg. College Ujjain - ORACLE c) Engg. College Rewa - Microsoft d) Engg. College Sagar - SISCO e) Sardar Valabh Polytechnic – ADOBE

## 2.0 Performance of Annual Plan 2008-09

2.1. The plan outlay of Rs. 4316.00 lakh was approved for Annual Plan 2008-09. The department has reported expenditure of Rs 2986.02 Lakh. The department is also nodal department in the field of Information Technology and is providing guidelines and working rules as per the policy. Therefore physical & financial achievements are not fixed.

2.2. **Financial provisions and achievement for the plan year 2008-09 are as given below:**

**Table 12.6.1****( Rs. in Lakh )**

<b>S. No.</b>	<b>Head</b>	<b>Budgeted Outlay</b>	<b>Expenditure</b>
1	Establishment of GIS Lab in MAP-IT	100.00	0.00
2	Assistance to MAP-IT or other Institutions for New Technology	100.00	100.00
3	Information Technology related works	10.00	10.00
4	National e-Governance Plan	2415.00	1226.00
5	Establishment of State Wide Area Network	1577.00	1566.22
6	Establishment of call center	25.00	25.00
7	Information Technology related works-subsidy	39.00	34.00
	Information Technology related works-W/S	5000	50.00
	<b>Total</b>	<b>4316.00</b>	<b>3011.02</b>

**3.0 Review of Annual Plan 2009-10**

- 3.1.** An outlay of Rs. 4140.00 lakh lakh has been proposed for Annual Plan 2009-10. The department has reported Rs.4291.00 Lakh as anticipated expenditure during the year ending. The schemewise anticipated expenditure is as given below:

**Table 12.6.2****(Rs. in Lakh)**

<b>Sr. No.</b>	<b>Item/Activity</b>	<b>Budgeted outlay</b>	<b>Anticipated Expenditure By march 2010</b>
1	Assistance to MAP-IT or other Institutions for New Technology	100.00	100.00
2	Information Technology related works-Trg AND Exam	10.00	10.00
3	Participating in exhibition organizing workshops and seminars	50.00	50.00
4	Grant-in-aid to MAP-IT or other Institutions for new technology	45.00	45.00
5	National e-governance plan grant in aid.	2602.00	2602.00
6	State wide area network-grant in aid	700.00	700.00
7	Establishment of G.I.S. Lab in MAP-IT	33.00	33.00
8	Establishment of call center	200.00	200.00
9	Building for Dara Center	400.00	400.00
	<b>Total</b>	<b>4140.00</b>	<b>4140.00</b>

#### 4.0 Annual Plan 2010-11

- 4.1 An outlay of Rs 3676.00 lakh has been proposed for Annual Plan 2010-11. The schemewise break up is as follows:

**Table 12.6.3**

(Rs. In Lakh)			
Schemes	SS/DS	CSS	Total
Grant in aid to Mapit/Others for experiment in new Technologis	SS		100.00
State wide area Network-Grantin aid	SS		500.00
Establishment of G.I.S.Lab in Map IT	SS		33.00
National E-Governance ActionPlan (NEGAP)	SS	CSS	978.00
Building for data centre	SS		600.00
Citizen facilitation center/call center	SS		200.00
Information Technology related works-Trg & Exam	SS		10.00
Grant in Aid /Assistance to MAP-IT or other Institutions for New Technology	SS		45.00
Local Area Network	SS		1160.00
Participation in Exihibition Organising Workshops	SS		50.00
<b>Total</b>			<b>3676.00</b>

#### 4.2 Scheme wise details are given below:

- ❖ **Establishment of GIS Lab in MAP\_IT:** As envisaged in the IT Policy, a Geographical Information System (GIS) lab needs to be created in MAP\_IT. The lab would consist of both software and hardware including Map Server, workstation, scanner, plotter database of maps etc. Financial resources for setting up of the lab would be met by the proceeds of Election Commission work. All the departments would be requiring maps from time to time and would be spending the state's resources in procurement of these maps again and again. This lab, creates a database of required maps and can be useful for the departments.
- ❖ **Support to Agencies for New Technology:** To promote experimentation on new IT Technologies, financial assistance should be provided to government departments/agencies. 5 excellence labs will be established in 5 Govt. Engineering colleges to acquaint them with new technology.
- ❖ **National e-governance Plan:** Under this, an e-Governance roadmap, capacity building roadmap and an e-governance blue print have been prepared and have been sent for the consent of Government of India. After getting approval from Government of India on the blue print, the computer training and capacity building training in selected departments will start.
- ❖ **Setting up of State Wide Area Network:** Government of India has sanctioned State Wide Area Network for M P. Department has initiated setting up of State Wide Area Network. The project envisages setting up a broad band network up to all block headquarters while establishing similar connectivity at all divisional and District headquarters. The proposed network would cater for the exclusive data/voice communication traffic of government departments/ agencies. In the process of implementing the project about 340 points of presence are being established across the State and of which construction of around 340 points have already been completed. STPI is the consultant for the project.