

CHAPTER - 14

SCIENTIFIC SERVICES AND RESEARCH

14.1 The Scientific Services and Research head covers Science and Technology Department, Environment Department and Rajasthan State Pollution Control Board. Ministry of Science & Technology, GOI does not provide any assistance to State Governments. However they provide grants/assistance to only autonomous bodies, universities, councils and societies etc.

14.2 A provision of Rs. 2970.00 lakhs has been kept for Eleventh Five Year Plan against which likely expenditure of Rs.198.77 lakhs will be incurred during the year 2007-08. A tentative outlay of Rs 347.73 is proposed for annual plan 2008-09 .

14.3 Sector-wise break up is as under :

Table No. 14.1

(Rs.in lakhs)				
S. No.	Department	Eleventh Plan 2007-12	Anticipated Expenditure 07-08	Proposed outlay 08-09
1	Science and Technology department	2500.00	174.77	322.93
2	Environment Development	450.00	20.00	20.80
3	Grant-in-aid to Rajasthan State Pollution Control Board	20.00	4.00	4.00
Total		2970.00	198.77	347.73

Science and Technology Department

14.4 Since inception of the department and its associated council (RAJCOST) in the year 1983, it has been the endeavour to initiate, support, promote and coordinate the activities in the field of science & technology by taking up of application oriented research and development projects and various programmes relating to transfer of technology, popularization of science and application of modern technology of remote sensing

14.5 To train the district level functionaries of various departments and to keep them well informed in their field, a satellite network (SATCOM) has been set up in the state.

14.6 Satellite Communication Network is operational in the state. Integrated HUB at Indira Gandhi Panchayati Raj Sansthan (IGPRS), Jaipur is being used for Telemedicine, Edusat and Gramsat activities. Under GRAMSAT Satellite Interactive Terminals (SITs) at Zila Parishads

and Receive Only Terminals (ROT) at all 237 Panchayat Samiti Head Quarters have been installed. Studio is also under preparation at Indira Gandhi Panchayati Raj Sansthan (IGPRS), Jaipur. The network will be used by various line departments of State for training and extension activities.

14.7 A provision of Rs.2500.00 lakhs has been made for XIth Five Year Plan against which anticipated expenditure during the year 2007-08 would be Rs.174.77 lakhs and an amount of Rs.322.93 lakhs is proposed for Annual Plan 2008-09 for Science & Technology department. The details of financial provisions are as under:

Table No. 14.2

(Rs.in lakhs)

S. No.	Item	Eleventh Plan Outlay (2007-12)	Anticipated Expenditure 2007-08	Proposed Outlay 2008-09
1	Research and Development Division	232.75	27.70	26.20
2	Science & Society Division	179.35	21.30	21.35
3	Science Communication & Popularization	1465.74	80.98	220.17
4	Remote Sensing Division	172.85	21.85	32.00
5	Entrepreneurship Development Div	87.50	5.11	5.50
6	Activities as per directions of Biotechnology Policy	144.40	17.20	17.20
7	Capital Works	213.00	0.13	0.01
8	Patent Information Cell	4.40	0.50	0.50
9	EPRC	0.01	0.00	0.00
Total		2500.00	174.77	322.93

14.8 Out of the proposed provision of Rs.2500.00 lakhs in the XIth five year plan, Rs.2376.07 lakhs would be required to meet the committed liabilities of continuing programmes. Under the Research and Development scheme, 02 new and 12 on going Research and Development projects are likely to be taken up.

14.9 Establishment of GIAN North Centre in Rajasthan: In order to scant the creativity of the people at the grass roots level and facilitate people to people networking among the innovators a decision was taken to establish a GIAN Centre in Rajasthan in coordination with Honey Bee network and SRISTI of IIM, Ahemdabad and NIF. This society is functional since 2004.

14.10 In the XI plan, it is proposed to upgrade the existing science park to regional science centre with the technical support of NCSM,

Kolkata, an autonomous body under the Ministry of Culture, Government of India. It is also planned to develop two sub regional science centres at Kota and Udaipur in collaboration with NCSM, Kolkata.

14.11 A remote sensing cell (sub centre of SRSAC) is likely to be established at Jaipur at appropriate place. Initially an amount of Rs.10.35 lakhs is provided in the budget for the year 2007-08 to procure some of the instruments and hardware/ software. Rs.15.00 lakhs has proposed for the year 2008-09.

14.12 Total budget proposed during the XIth Plan period is Rs.78.35 lakhs. This will be used for accommodation and procurement of hardware/ software and other equipments.

Research & Development Division

14.13 Under this it is proposed to extend financial assistance for application oriented research and development project, inter-departmental Co-ordination Projects and Students' Projects for Science, Engineering, Medical, Veterinary and Polytechnic colleges of the State for the research and development activities in specific identified areas. A provision of Rs.26.20 lakhs is proposed in the year 2008-09 and Rs.232.75 lakhs in XI plan.

Science & Society Division

14.14 Under this it is proposed to provide input of Science & Technology to disadvantaged sections of society for their overall development through transfer of appropriate low key technologies at the grassroot level. A provision of Rs.21.35 lakhs is proposed in the year 2008-09 and Rs.179.35 lakhs in XI plan.

Science Communications And Popularization Division

14.15 Under this programme, it is proposed to take various measures for popularization of science by setting up models in the Science Park, strengthening of existing science Centres, quiz programmes, special training to S&T persons, exhibition and melas, publication of news letters etc. Besides, on going science clubs will be given assistance and took kits and science models to schools. A provision of Rs. 220.17 lakhs is proposed in the year 2008-09for following items:-

Table No. 14.3

(Rs. In lakhs)		
S. No.	Programme/Activities	Proposed outlay 2008-09
1	Science club	5.00
2	School Science Centre	1.00
3	Popularisation of Science Activities	2.00
4	Contest Programme	3.00

S. No.	Programme/Activities	Proposed outlay 2008-09
5	Science Centre	48.00
6	Teacher Science Conference/CSC	0.75
7	National Science Day	1.00
8	Science park (Maintenance/Publicity/Programme)	6.75
9	Development works of Science Park/Traffic Park, Jaipur	5.00
10	Development works of Science Park at Jhalrapatan	146.92
11	Publication	0.75
	Total	220.17

Remote Sensing Division

14.16 Remote Sensing is an emerging technology which contemplates collection of spatial, spectral and temporal data of earth's surface using air and spacecraft. It provides a powerful tool for evaluation of Natural Resources (both renewable and non-renewable) with speed accuracy and economy. A provision of Rs.32.00 lakhs is proposed in the year 2008-09 and Rs.172.85 lakhs in XI plan.

Entrepreneurship Development Division

14.17 To develop the culture of entrepreneurship amongst the students of science and engineering degree and diploma holders, the National Science & Technology Entrepreneurship Development Board, Govt. of India has launched several schemes. To generate the spirit of self-employment among the S&T unemployed persons, the department will organize Entrepreneurship Development Programme, Entrepreneurship Awareness Camps and motivation camps for young people. For this, a provision of Rs.5.50 lakhs is proposed in the year 2008-09 and Rs.87.51 lakhs in XI plan.

Environment Development:

14.18 The Environment department was created in 1983 to act as a nodal agency in the state in matters related to preservation of ecological balance, research and studies on environmental matters and prevention and control of soil, water and atmospheric pollution.

14.19 Main objectives of the department are as follows:-

- (i) To function as a nodal department in the matters of Environment and Ecology with respect to:-
 - a. Maintenance of ecological balance

b. Study and research on environmental issues.

- (ii) To deal with issues of Rajasthan Pollution Control Board (RPCB)
- (iii) To solve and control all matters regarding Soil, Water, Air and Sound pollution with the help of RPCB, District administration, Police department, Transport Department and other organizations.
- (iv) To deal with the matters regarding officers and staff which are under the administrative control of the Department.

14.20 The Environment Department has been creating Environmental awareness through a number of education programmes from primary level to All India level in Co-ordination with education Department, institutions like Lalit Kala Academy and NGOs from quite sometime.

14.21 An outlay of Rs. 450.00 lakhs has been proposed for the Eleventh Plan against which an anticipated expenditure of Rs.20.00 lakhs would be incurred and Rs.20.80 lakhs has been proposed for Annual Plan 2008-09. Schemewise details are as follows:-

Table 14.4

(Rs.In lakhs)

Item	Eleventh Plan Outlay (2007-12)	Anticipated Expenditure (2007- 08)	Proposed outlay 2008-09
1.Pay, Allowances and other expenditure	20.00	0.05	0.05
2.Environmental Education & Awareness Programme	50.00	7.00	7.00
3. Communication and Extension (Publicity)	30.00	5.00	5.00
4. National River Conservation Plan (NRCP)	300.00	0.01	0.01
5. Expenditure on Special Services	50.00	7.94	8.74
Total	450.00	20.00	20.80

Rajasthan State Pollution Control Board

14.22 The State Pollution Control Board is functioning under administrative control of Department of Environment. The State Board was constituted in Feb. 1975 to implement the provision of the water Act. The main responsibility of the Board is to ensure the protection of environment and implementation of provisions of Water & Air Pollution Control Acts.

14.23 An amount of Rs. 20.00 lakhs has been proposed for Eleventh Five Year Plan 2007-12 and Rs. 4.00 lakhs for annual plan 2007-08 for providing grant to Rajasthan State Pollution Control Board to implement the following activities :-

Table 14.5

(Rs. in lakhs)

S. No.	Scheme	XI Plan 2007-12 Outlay	Anticipated Expenditure 2007-08	Proposed Outlay 2008-09
1.	Assessment of status of Air Quality & Noise Levels in Major Industrial Towns	13.50	2.70	2.70
2.	Monitoring of Important major water Bodies	6.50	1.30	1.30
	Total	20.00	4.00	4.00