

DEPARTMENT OF ENVIRONMENT AND REMOTE SENSING

INTRODUCTION

Directorate of Ecology, Environment and Remote Sensing came into existence in the year 1987 under the Department of Science and Technology with the creation of one post of Director and transfer of Remote Sensing centre from the Department of Soil Conservation to the Directorate of Environment and Ecology. Subsequently technical as well as administrative staff was added through various Government Orders as under. The recruitment rules for Gazetted and Sub-ordinate services under the Department of Ecology Environment and Remote Sensing were notified vide SRO 221 dated 28.07.2009 and SRO 298 dated 15.09.2006 respectively.

CURRENT ACTIVITIES OF THE DEPARTMENT OF ENVIRONMENT AND REMOTE SENSING

Since its inception, the Department has undertaken different activities in the field of Environment and remote sensing. These are briefly summarized as under:

A. Environment Division

1. Environmental Education and Awareness

- Organizing of Seminars, Painting competitions, Drawing competition, rallies etc.
- Creation/maintenance of environmental parks.
- Celebration of environmental weeks and other days.
- Afforestation in educational institutes.
- Creation of mini Hi-tech nurseries.

2. Survey monitoring and preparation of development plans for water bodies of State.

A Directory listing 1248 water bodies in the state has been prepared based on the Survey of India topographic sheets.

3. Environmental Impact Assessment Studies/ Reports.

- EIA of Pahalgam Tourist Resort.
- Urdu translation of E P Act 1986 for legislature and common people.
- Wular water monitoring analysis Report.
- EIA of Gulmarg Tourist Resort
- EIA of Sonamarg Tourist Resort.
- EIA of Dodapathri Tourist Resort.
- EIA of Yusmarg Tourist Resort.
- EIA of Pilgrim spot of Katra.P
- Urban sprawl of Srinagar city.
- Urban sprawl of Jammu city.

- ENVIS a central Government sponsored scheme started and NEWS LETTER published and a website created.

B. Remote Sensing Division

- The department has undertaken about 45 projects assigned by various departments/ organizations. The Department is entrusted with the task of generating GIS Database on National Resources for developing efficient Decision Support System (DSS) for sustainable development.

Activities undertaken by the Department so far:

A . Environment Side:

1. Environmental Education and Awareness

- Organizing of Seminars, Painting competitions, Drawing competition, rallies etc.
- Creation/maintenance of environmental parks.
- Celebration of environmental weeks and other days.
- Afforestation in educational institutes.
- Creation of mini Hi-tech nurseries.

2. Survey monitoring and preparation of development plans for water bodies of State.

- Directory of 1248 water bodies has been prepared by the Department.

2. Environmental impact assessment Studies/ reports.

Add details -----

B. Remote Sensing side:

GIS Data base

- To generate GIS Database on National Resources for developing efficient Decision Support System (DSS) for sustainable development.
- The department has undertaken about 45 projects assigned by various departments/ organizations as follows:

S.No	Projects Completed	Sponsoring Agency
1	Water Quality Mapping of Dal and Wular lakes (1986-89)	Space Application Centre, Ahmadabad
2	Land-use/Land Cover Mapping of J&K State (1988-95)	N.R.S.A.Hyderabad
3	Urban land-use and sprawl mapping of Srinagar city	State Govt.
4	Environmental Management Plan of Hokersar Game reserve	State Govt.

5	Environmental Change Detection of Anchar Lake	State Govt.
6	Mapping of Flood affected Areas in Kashmir Valley (1996)	State Govt.
7	Mapping of Horticultural Land use in Pulwama District (1997)	State Govt.
8	Management Plan of Dachigam national park (1995)	State Govt.
9	Integrated Watershed Mapping of National Highway-IA (1996)	State Govt.
10	Geological mapping of Ladakh region (1996)	State Govt.
11	Ground Water Targeting in Kashmir Valley (1996)	State Govt.
12	Mapping for integrated Mission for sustainable development of Doodganga and Chenani watersheds (1998-2000)	NRSA, Hyderabad
S.No	Projects Completed	Sponsoring Agency
13	Geo-environmental studies of Dal catchment (1994)	Urban Environmental Engineering Department
14	Survey of Potential and actual area under Sericulture through remote sensing & GIS (2004)	Central Silk Board G.O.I
15	Evaluation of waterfowl habitat in Hokersar wetland reserve	Indian institute of Remote Sensing, Dehradun
16	Forest Mapping of Udhampur District (2000)	State Govt.
17	Environmental Sensitivity Zonation of Srinagar city-A	Indian Institute of Remote Sensing, NRSA
18	Desertification Status Mapping of J&K State (2004)	SAC, Ahmedabad
19	Impact of Human settlements on some rural lakes of Kashmir (2006)	Ministry of Environment & Forest, G.O.I. New Delhi
20	Nation wide Wasteland Mapping project (1998)	NRSA, Hyderabad
21	Wasteland updation Mapping of J&K State (2003)	NRSA, Hyderabad
22	Medicinal Plants of Kashmir Valley, their distribution and mapping (2001)	State Govt.
23	Limnological studies of Wular Lake (1998)	State Govt.
24	Eco-monitoring of Manasbal Lake and its surrounds (1998)	State Govt.
25	Snowmelt Run off studies on Lidder and Sindh Basins in Kashmir using remote sensing (1998)	DST, GOI
S.No	Projects Completed	Sponsoring Agency
26	Environmental Impact Assessment and EMP for Nimu Bazgo Hydroelectric Power Project	NHPC

	(2004)	
27	Environmental Impact Assessment for Sawalkot Hydroelectric Power Project (2004)	J&K PDC Ltd. NORPLAN, Norway
28	Environmental Impact Assessment for Baglihar Hydroelectric Power Project (2002)	J&K PDC Ltd.
29	Environmental Impact Assessment study of Kishen Ganga Hydroelectric Project (1996)	State Govt.
30	Environmental Impact Assessment of Cement Plants of Khrew-Khanamoh region using GIS approach	State Govt.
31	Mapping of Khushalsar wetland using High resolution remote sensing data and GIS (2002)	State Govt.
32	GIS based forest density stratification and time series analysis using digital image processing and GIS techniques.	MOEF
33	Bio-diversity conservation of Tsomorari and Tsoker wetland (2009)	SAC,Ahmedabad
34	Methane Gas Emission from the Paddy fields of Kashmir (2007)	SAC,Ahmedabad
35	National (natural)resources information system	SAC,Ahmedabad
36.	Directory of Lakes & Water bodies of J&K State (1998)	State Govt.