

National (Natural) Resources Information System (NRIS) Phase – I

Year of Starting:1998

Year of Complement: 2000

Funding Agency & Funds Received : Department of Space, (DOS) Govt. of India. Rs. 43.85 Lakhs

Objectives:

- Generation of resource map using remote sensing techniques.
- Development of computerised data base for spatial and non special data in GIS environment at village and watershed level.
- To generate query shells and integration of natural resources & socio-economic data for generation of action plans for district level planning, decision making and implementation.
- Networking and linkage of system for remote access with in district, state & national level hierarchy.

Study Area: Lalitpur & Bulandshahr districts.

Data Used: IRS-1A, 1B, LISS-II and IRS-1C, LISS-III images.

Salient Results:

- District data bases have been created comparing primary thematic layers viz. Landuse/ landcover, geological, structures, lithological classes, geomorphic units , soil, drainage/stream, canals, watershed boundaries, district boundaries, village boundaries, forest management boundaries, well location, settlement location, roads, rails and climatic data.
- Secondary information (layers) viz. ground water prospect, land resources development plan, water resources development plan, land capability classes, hydromorphological soil units, soil irrigability, land irrigability etc. were generated by integration of different layers based on decision rules.
- Non-spatial database was created and linked with villages for elements such as demography, occupation, educational facility, medical facility, transport and communication facility, general facility, power supply. Village Development Indices were also derived.

Recommendation/Special Achievements:

- Creation of district level databases comprising natural resources, infrastructural facilities and socio-economic aspects.
- Selection and prioritisation of villages for Ambedkar Gram Vikas Yojana in Lalitpur district.
- Identification of villages without middle school facility within 3 km distance with an objective to open new middle schools in Bulandshahr district.
- Recommendation of action plan for land and water resources development.

Project Personnel: Dr. T.S.Kachhwaha, Head-FRED & Project Manager Dr. V.Rajamani, Sri P.Kunwar and Dr. Anil Kumar (from FRED)