

Assessment and Monitoring of Forest Resources in Bundelkhand and Tarai Area of Uttar Pradesh

Year of Starting: 2000

Year of Completion: 2002.

Funding Agency & Funds Received: In-house plan project. Rs. 2.75 lakhs

Objectives:

- Assessment of status of different types of forests and change detection in Vindhyan Region of Lalitpur district using satellite remote sensing data on 1:50,000 scale.
- Mapping of forest / vegetation and identification of blockage site in Kaiyan river in Bhinga reserved forest using high resolution remote sensing data on 1:25,000 scale and GIS technique.
- Mapping of forest / grassland area in Dudwa National Park using high resolution satellite data on 1:12500 scale.

Study Area: Vindhyan region of Lalitpur district, Bhinga reserved forest in Sharavasti district, Parts of Dudwa National Park and Forest Plantation sites in Lakhimpur-Kheri district.

Data Used: IRS-1A, LISS-II; IRS-1C, LISS-III; IRS-1D, LISS-III + PAN merged.

Salient Results:

- Vindhyan region of Lalitpur district: Different types of forest and their crown density viz. > 60%, 40-60%, 20-40% and < 20% have been identified and mapped. Changes in forest vegetation were also monitored using IRS-1A, LISS-II and IRS-1C, LISS-III satellite images on 1:50,000 scale acquired in the years 1989 and 2000 respectively.
- Bhinga reserved forest site: Classified different types of forest vegetation and their crown densities using IRS -1D, LISS-III and PAN merged images on 1:25000 scale and also provided information to Forest Department on blockage site of Kaiyan river in reserved forest area.
- Dudwa National Park site: IRS-1D, LISS-III + PAN merged data have been used to classify the forest / grassland area in a part of Dudwa National Park. Different types of forest vegetations and grasslands in the core zone and buffer zone of the park were mapped. Mapping of short and tall grasses, and burnt areas would help in planning park management strategy.

Report No. : Report submitted in the year 2002.

Recommendation/Special Achievement: Blockage site of Kaiyan river in reserved forest area has been located, which was causing extensive damages in the reserved forest due to water logging. Based on the recommendations, Forest Dept. has carried out desiltation of the blockage site and the problem was resolved.

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