

Monitoring of Geo-environment Parameters Leading To Landslide In Sikkim Area

Year of Starting: 2003

Year of Completion: 2004

Funding Agency & Funds Received: DTRL, Ministry of Defense, Govt. of India, New Delhi

Objective:

- Landuse /landcover mapping on 1:50,000 scale.
- Analysis of anthropogenic activities in the study area and
- Mapping of soil degradation

Study Area: Along road between Melli Bazar and Lachung area of Sikkim.

Data Used: IRS-1B LISS-II data of 1992 and IRS1C LISS III data of 1998/2000

Salient Result: Almost all major roads in Sikkim experience landslide problems particularly during monsoon season. Considering the seriousness of the problem related to landslide in the state of Sikkim, the task of developing soil & terrain information system between Melli Bazar and Lachung in Sikkim was taken up. As a result of the study, detailed landslide hazard zonation and landslide hazard zone management maps on 1:50,000 scale were prepared for the area. The study identified severe, very high, high, moderate, low and very low landslide hazard prone tracts within the area and suggested remedial measures for the problem.

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