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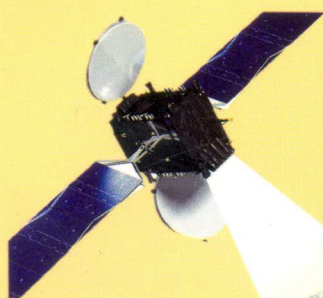
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# REMOTE SENSING AND GIS IN DIGITAL TERRAIN ANALYSIS AND SOIL-LANDSCAPE MODELLING



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# About the NBSS&LUP

The National Bureau of Soil Survey and Land Use Planning (NBSS & LUP), Nagpur, a premier Institute of the Indian Council of Agricultural Research (ICAR), was set up in the year 1976 with the objective to prepare soil resource maps at state and district level and to provide research inputs in soil resource mapping and its applications, land evaluation, land use planning, land resource management and database management using GIS for optimizing land use on different kinds of soils in the country.

The Bureau has been engaged in carrying out agro-ecological and soil degradation mapping at the country, state and district level for qualitative assessment and monitoring the soil health towards viable land use planning. The research activities have resulted in identifying the soil potentials and problems, and the various applications of the soil surveys with the ultimate objective of sustainable agricultural development. The Bureau has the mandate to correlate and classify soils of the country and maintain a National Register of all the established soil series. The Institute is also imparting in-service training to staff of the soil survey agencies in the area of soil survey and land evaluation, soil survey interpretations for land use planning. The Bureau in collaboration with Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola is running post-graduate, teaching and research programme in land resource management, leading to M.Sc. and Ph. D. degrees.

The publication on “**Remote Sensing and GIS in Digital Terrain Analysis and Soil-Landscape Modelling**” is the outcome of ICAR sponsored Winter School programme organized at NBSS&LUP, Nagpur. It will help the readers to broaden their understanding in use of different GIS and remote sensing techniques in digital terrain analysis and soil-landscape modelling.

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