



## **Creation of Inventory of Wetlands in Gurdaspur District using Remote Sensing and GIS**

**Harpinder Singh, Amardeep Singh, P.K. Litoria and Brijendra Pateriya**

*Punjab Remote Sensing Centre, Ludhiana-141 004, Punjab, India*

*E-mail: harpinder13@rediffmail.com*

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**Abstract:** The study is aimed at the generation of an inventory of all the Inland Wetlands in Gurdaspur district using multi date IRS-P6 LISS-III digital satellite data. By applying band algebra on the four bands of the satellite data, five indices have been generated namely NDVI, NDWI, MNDWI, NDPI and NDTI. These indices enhance the data, and delineation of water spread, vegetation extent, turbidity information of different categories of wetlands for pre and post monsoon season can be easily done. This spatial information can be very useful for wetland monitoring, management and go as an input to various government projects. When information is presented in a map form, it allows better perception, visualization of spatial patterns and their relationship with the neighboring areas.

**Key Words:** GIS, Gurdaspur, Remote Sensing, Wetlands

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