

# **Creation of Digital Database on Land use Pattern for Assessment of Environmental Conditions in and around the Lease Sites of Dalla Cement Factory in Sonbhadra district, Uttar Pradesh using Satellite Remote Sensing Data and GIS Technique.**

## ***Objectives:***

The main objective of this project was to classify the spatial distribution of different landuse/landcover categories in order to know latest environmental status of these lease sites.

## ***Study Area:***

The study area encompasses six mine lease sites earmarked for cement mining under the Dalla Cement Factory such as (1) Bari, (2) Bhalua (3) Dalla (including Kajrahat & Padraha), (4) Julgul, (5) Ghurma, and (6) Ningha in Sonbhadra district, U.P.

## ***Brief Description:***

The standard IRS P6 (Resourcesat) LISS IV MX (multispectral) digital data were used for on-screen digitization of various landuse/landcover units showing the current status of landuse and landcover including settlements, agriculture, forests, wastelands, mined areas, riverine features, waterbodies etc., as found in the study area. GIS data base was created and area of each land use categories was estimated. This information would be used for both prior to as well as post-implementation of mining activities of the Dalla cement factory particularly with reference to monitoring of the environmental conditions in and around these six sites vis-à-vis the applicable rehabilitation guidelines/procedures.

## ***Funding Agency:***

M/s Jai Prakash Associates Ltd., Dalla Cement Factory, Sonbhadra, Uttar Pradesh

## ***Project Personnel:***

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