

*Title of Project:*

**National land Use Land Cover 50K -3rd Cycle 2015-16**

<b>Name of Principal Investigator</b>	Dr. A. K Pathak
<b>Scientific Team</b>	Mr. Makhanlal Dewangan, Research Associate - 1 Dr. Tisha Dey, Research Associate - 1 Mr. Rupnarayan, Junior Research Fellow Mr. Dipak Bej, Junior Research Fellow
<b>Name of Funding Agency</b>	National Remote Sensing Centre, Hyderabad
<b>Tenure of Project</b>	2016-2018

**Summary of Project:**

Land Use / Land Cover map of Chhattisgarh on 1: 50000 scale, eight classes at Level-1, 31 classes at Level-2 and 54 classes of landuse at Level-3. The state is covered in 191 effective SOI topographical sheet on 1:50000 scale and involved interpretation of about 17 Resourcesat LISS-III satellite image frames covering Kharif, Rabi and Zaid seasons of 2015-16. The approach involved (i) Orthorectified image of three season Resourcesat-1 LISS-III images with geometrically rectified LANDSAT- 7 ETM+ image as reference, (ii) On-screen preliminary visual interpretation of LISS-III images (iii) Ground truth collection, (iv) Map finalization, (v) In-process quality assurance mechanism, and incorporation of necessary corrections (vi) Database organization (vii) Spatial statistics generation. It presents the State and District level estimates of area under LULC category for the 27 Districts for the period of 2015-16. Nevertheless, these estimates would serve as a baseline / benchmark database on LULC for India as well as for Chhattisgarh, for the year 2015-16. This Project was sponsored by National Remote Sensing Centre, Dept. of Space, Govt. of India, Hyderabad. The database is now available on Bhuvan Portal for use by various users departments / organizations of Central Government and State Govt. in Urban Development Plans, Environmental Studies, Irrigation, Forest, Industry etc.



Liss - III Satellite Image and Field Photo of Agriculture Crop Patterns: Kharif Crop, Rabi Crop, Fallow Land, Zaid Crop.