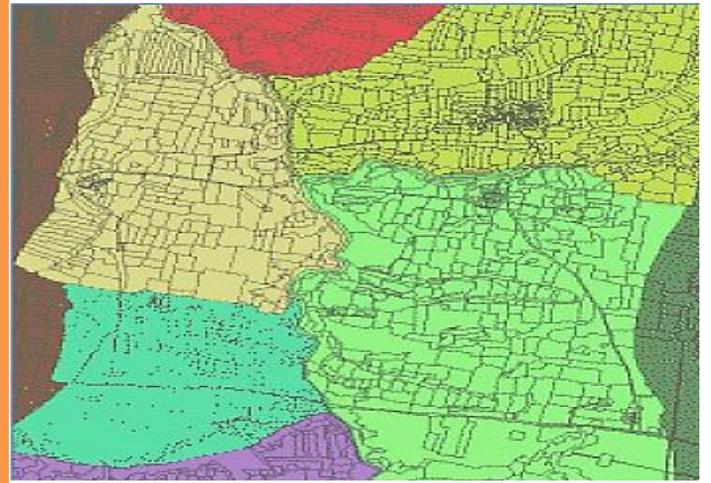# CASE STUDY

Project: Digitization of Cadastral Maps
Customer: Technical Directorate of a State Government Department

Requirement

The National Land Records Modernization Program (NLRMP) is launched by Government of India in August 2008, aimed to modernize management of land records, minimize scope of land/property disputes, enhance transparency in the land records maintenance system, and facilitate moving eventually towards guaranteed conclusive titles to immovable properties in the country. The customer required execution of the cadastral digitization and attribution for 2 districts (Khurda & Mayurbhanj) of the state of Odisha for about 12,000 maps.

AABSyS was required to capture all the survey land record data such as parcels, river, road, boundary line abadi, chattan, grass, hill, trees, well in detail scale. All the features were needed to be capture exactly as per provided scanned JPEG maps.

Solution Offered

- The stipulated time frame for the project was of two years.
- The Land record cadastral maps were available as paper maps which were scanned and vectorized on top of supplied scanned images in CAL format.
- The project methodology was divided into the following steps: Digitization, Mosaicking, Migration to ArcGIS SHP format, Attribution and data validation, Quality Check and Delivery for approval by Department of Land Record, Odisha
- The map prepared should be free from dangles, overshoots, undershoots etc.
- Color coding for the hatch pattern was assigned in accordance with the village map and instructions given by OCAC.
- Quality check was done for missing features, misinterpretations, polygon text etc. at two levels to ensure flawless deliverables

Technology Used

- The team at AABSyS created high end customized tool to expedite the data capturing process.
- The team at AABSyS also used high end up-to-date software such as AutoCAD Map, Autodesk Raster Design and ArcGIS for steps such as Feature Coding, Topology Building, and Edge Matching etc.
- AABSyS was in continuous correspondence with the clients in order to solve any queries

Customer Advantage

- The maps prepared for the customer were a part of the National Land Records Modernization Program and thus will be beneficial in record keeping, analysis and decision-making, high performance land surface modeling with data assimilation.
- The continuous interaction regarding the queries ensured that the deliverables were prepared as per the customer's expectations.
- AABSyS is a leading cadastral mapping service provider. Its services create a complete solution to land information system by focusing on various forms of land records