



Department of Electronics and Information Technology
Ministry of Communications and Information Technology
Government of India



Digital India

Workshop on Geo-Informatics

Jharkhand State
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Progress of Jharkhand in Implementing GIS based Decision Support Systems (DSS)

Sl. No	Name of the Owning State Department	Name of the Implementing Agency	Implementation Area <e.g. Agriculture, Natural Disaster, Forest, Aviation, Mining, Infra., Health etc.)
1	Dept. of Forest and Environment, GOJ	JSAC	Forest - Jharkhand Forest Management Information System, Dept. of Forest & Environment Digitization of 22,800 Forest Cadastral maps of Jharkhand done Web-based GIS Application developed and facilitated with all basic GIS tools, in-built and customized queries, output generation etc.

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2	Dept. of Revenue and Land Reforms, GOJ	JSAC	Land & Revenue - Digitization & Georeferencing of Village Cadastral/Revenue Maps under NLRMP Out of 34798 available Cadastral sheets, 33106 sheets have been digitized 20296 cadastral sheets have been made available on line to the public Website name: Jharbhoomi.nic.in

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3	Dept. of Agriculture, GOJ	JSAC	Agriculture - Jharkhand Crop Information System (JCIS) Rabi, Kharif and Zaid seasons interpretation of crop acreage has been completed for the year 2016.
4	Dept. of Health and Family Welfare, GOJ	JSAC	GIS Mapping of all Government Health Facilities - PHC, PHSC, CHC, DH & SDH through GPS Collection of infrastructure facilities, available manpower, diseases treated, availability of medicine etc. are in process

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5	Dept. of Rural Development, GOJ	JSAC	<p>Rural development - Watershed Management Information System for Jharkhand Rural Development (WMIS-JRD)</p> <p>The work of all the 57 projects out of 75 (693 Micro watersheds) IWMP sanctioned projects under Batch-1, 2 and 3 is completed and submitted to JSWM-SLNA.</p> <p>All the GIS resources information's generated are made available through web based GIS application - Watershed GIS</p>

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6	Election dept.	JSAC	GIS Mapping of Polling Station and Development of Mobile Apps and Web-based GIS Application for Data Collection Mapping of Polling Stations based on available GIS layer of schools are in progress.
7	Urban dept.	JSAC	Generation of Basic Thematic Layers on 1:2000 scale for 10 cities of Jharkhand using Quick Bird / Worldview Data Interpretation and layer generation work is completed. Ground truth/Field verification is in progress

Jharkhand GIS Implementation Stage

Coordination and support :

Project specific PMU has been set-up for coordination with other departments. PMU mainly consists of JSAC team member, representation from respective dept. which helps in effective monitoring and day to day operation.

Integration:

JSAC has been closely working with other line department (Land& Revenue, Health etc.) and integrating their spatial & non spatial data with other MIS system. GIS data can also be categorized based on the given parameter.

Jharkhand GIS Implementation Stage

GIS framework:

GeoPortal was developed in year 2005 to provide the services to dept. Every dept. is given the userId and password and based on the access rights corresponding data / layer is shown to dept. This portal was redesigned in 2010-2011 for improvements. Furthermore, portal will be revamped again using NSDI guidelines.

Role of SeMT & NIC:

NIC develops and customize the software application for land & revenue program which uses the digitized data provided by the JSAC only. For other dept. work is done by JSAC.

GIS Plans of the Jharkhand

Name of the project	Name of the dept.
Flash Flood Monitoring System in Urban Area	Dept. of Urban Development, Govt. of Jharkhand
Web-enabled GIS for irrigation projects	Drinking Water and Sanitation
Mapping of Power Transmission Line in seven cities – Bokaro, Deoghar, Dhanbad, Dumka, Hazaribag, Jamshedpur & Ranchi	Dept. of Energy & Dept. of Urban development
Mapping of area under Horticulture Crop & identification of suitable sites for plantation	Dept. of Agriculture
Mapping of Sewerage/Drainage Network of seven cities of Jharkhand.	Dept. of Urban Development, Govt. of Jharkhand

Support Desired from DeitY

- DeitY support can be extended on following points
 - Best practices / methods being used in GIS
 - Capacity building w.r.t. GIS
 - GIS application development / enhancement
 - GIS framework

Thank You