

PROFORMA OF MAIN APPLICATION
FORM

AWARDS SCHEME FOR EXEMPLARY IMPLEMENTATION OF e-GOVERNANCE INITIATIVES

PROFORMA OF MAIN APPLICATION FORM (for applying through e-mail) for **NATIONAL AWARDS FOR e-GOVERNANCE**

1. Name of the Organization:

Jharkhand Space Application Center

2. Name of the Department:

Remote Sensing and GIS

3. Name of State/UT/Central Government/Others:

Jharkhand

4. Name of the Project :

Jharkhand Forest Management Information System(JFMIS)

5. Nature of the project :

INNOVATIVE USE OF GIS TECHNOLOGY IN e- GOVERNANCE

6. Category of Award Applying for"

Demonstrate Innovation in use of GIS Technology for e-Gov

7. Objective of the Project : (Please provide the brief summary of the project being nominated for the National Award for eGovernance along with salient features (in 500 words approx)

The forestry setup in Jharkhand faces complex challenges due to socioeconomically divers and dense population dependent on forests for their livelihood and scarce availability of resources. In addition, the department also faces multitude levels of hierarchy in its organization and vastly different levels of competence and readiness to adopt new things amongst staff. It also has to manage a vast amount of data generated and collected at different levels in the course of management and conservation of forests and wildlife.

Management and conservation of forests and wildlife is a very critical and complex business, which requires the accumulation and integration of information and knowledge from many divers sources. In order to remain professionally managed and competitive and to meet the growing demands and needs of villages, and also to maintain the environmental balance, there is need for timely availability of information for decision making. However, the crucial data and the processed information are not always available when the decision makers

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in the department need them. In order to address this problem in today's world an early development of Jharkhand forest Management information System (JFMIS) integrated with Geographical Information System (GIS) is a powerful tool to classify store and analyse spatial data like forests cover and types, forest boundaries, population, incidence of poverty etc. which has a extensive potential in forestry and wildlife management and its operationalisation. The vision behind the JFMIS is that the concept, tools and techniques of information technology should be used to establish a synergy between the multifarious activities of Forest Department under various wings, viz., land and forest management, wildlife management, research and development planning, implementation, maintenance monitoring and evaluation of human resource development, finance, legal and court matters, forest commerce, etc, which will provide required quick time information to the managers and decision makers at various levels of the department to take decisions and frame policies in right perspective and at right time. Through the development and implementation of JFMIS, the department intends improvement in the management of forest and wildlife, optimal use of resources, and better services to the society.

The available information of Jharkhand in Jharkhand Forest Management Information System application was generated/digitized using satellite data, maps available with different Govt. departments and topographic maps. Different themes made available on webGIS platform are arranged in following categories.

- a. Administrative boundaries:** District boundary, Block Boundary, Panchayat boundary, village boundary, Headquarters, Region Boundary, Circle Boundary, Division Boundary, Range Boundary , Beat Boundary, Sub-Beat Boundary and compartment Boundary
- b. Infrastructure layers:** Infrastructure layers are important to assess the development of any State. The following information on the available infrastructure was digitized and made available in spatial domain.

Roads: The data on National Highway, State Highway and Other roads was digitized using the data from Road Construction Dept., Govt. of Jharkhand and from Survey of India topographic maps.

Railway: Railway tracks and stations data was digitized from Survey of India topographic maps.

- c. Natural Resources:** The natural resources of State are of primary importance for the Socio-economic development of the people of Jharkhand because they are non-renewable vital resources. Lack of adequate information on natural resources and

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improper land use planning has resulted in many of the present day land degradation problems. Following layers of mineral resources were generated/digitized.

Mineral resources: The minerals data available with Mines and Geology Dept., Govt. of Jharkhand was digitized. Apart from this mineral resources exploration study was carried out jointly by JSAC, Mines and Geology Dept. GoJ and ISRO using hyperspectral satellite data.

Forest: Forest cover and density map generated by Forest Survey of India (MOEF), Govt. of India was procured.

Soil Resources: Different soil types were mapped using satellite images supported by extensive field work by JSAC. Land capability and Land Irrigability was mapped using the different parameters of soil and landforms.

Agriculture: The data on the area of agriculture land was generated by JSAC for rabi crop, kharif crop, zaid crop and more than two crop areas using multi-temporal satellite data.

River and Water bodies: Pre monsoon and Post monsoon extent of water bodies was quantified using the respective two season satellite data by JSAC. The water bodies smaller than 2.25 ha were digitized as point feature.

Mining Lease: Mining lease information available Mines and Geology Department was digitized.

Wasteland: Satellite images were used to map the different categories of wasteland in the State. Repeated mapping was carried out at an interval of two years to understand the dynamics of wastelands.

Geology & Geological: The Geology and Geological Structures were interpreted based on Quadrangle Geological maps of GSI and updated with the help of satellite data and limited field checks.

Geomorphology : The geomorphology tells about the diverse landforms available in Jharkhand. The data were interpreted based on the interpretation of satellite data and limited field checks.

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Slope: Slope data generated using contour information of Survey of India Topographical sheets.

Degraded land : Information on degraded land of Jharkhand were extracted using interpretation of multi-temporal satellite data.

Watershed : Watershed information were taken from Watershed Atlas of India, AIS&LUS, Govt. of India. Entire Jharkhand state is classified into Basin, Catchment, Sub-Catchment, Watershed, Sub-Watershed, Mini-Watershed and Micro-Watershed.

- d. Derived layers:** All the infrastructure, natural resources and physical land forms layers are used to map the ground water prospect, water resources development action plan and land resources development plan.

The areas for the development may be chosen scientifically based on the available layers on the JFMIS.

8. Date of Launch of Project (please see para 6.2 for eligibility of the project with reference to launch date):

(i) For all categories except Incremental Innovation((dd/mm/yyyy): 30.07.2014

(ii) For Incremental innovation(period during which substantial incremental innovation has been made in the project)-

Year of National e-Governance Award

2014

9. Beneficiary of the Project :

Forest Officers, Citizens, planners, researchers, academicians, administrators, decision makers etc.

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IMPORTANT NOTE

(i) For each award category for which the project has been nominated, the applicant must fill the Award specific form as well. Applications without completely filled in Main Form and Award Specific Form will be summarily rejected.

(Please fill category specific “Award Specific Form” in the prescribed proforma given with this award scheme. Convert to PDF and email)

(ii) All nominated projects (except for **Incremental Innovations in existing projects category**) must have been operational for a period of not less than one year (excluding pilot period) on or before the date of publication of advertisement relevant for the year for which nominations have been invited. It should, however, not be operational for more than two years (i.e., not more than two years old) on the date of publication of advertisement of the relevant year. For example if an advertisement is released for seeking nominations on 15 June 2014 then the project launch date must be between- 15 June 2012 to 15 June 2013

(iii) For „**Incremental Innovations in existing projects Category**’ :

(a) **Only the** project that has been awarded National Award for e-Governance by DARPG (for any category) **at least** two years prior to the year of advertisement **is eligible to** apply. (For example the project which have won National Award for e-Governance of DARPG (Govt of India) in or before the year 2012 is eligible to apply for advertisement published in the year 2014).

(b) **Furthermore,** the project **must have** demonstrated substantial incremental innovations during the last two years from the date of publication of advertisement. For example if an advertisement is released for seeking nominations on 15 June 2014 then the substantial incremental innovation in the project must be between- 15 June 2012 to 15 June 2014.

(iv) **It is important to identify the name of the relevant team members(not more than 07 including project head) at this stage only as these names will be included for acknowledgement in case the nomination is awarded. Under no circumstances, the name would be allowed to change.**

(v) This page of application duly signed and sealed may be scanned and attached with soft copy of the application form. The original copy may be kept which may be required to be submitted to the Department, if the nomination is shortlisted for field visit/ further studies.

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(vi) **Self Certification by the Project Head in the format applicable to the organization must accompany the Main Application Form.**

Details of Head of the nominated project

Name of the Project Head of the project:

Shri Sarvesh Singhal, IFS

Designation :

Director

Contact Address :

Jharkhand Space Applications Center, Engineers Hostel-1, Dhurwa, Ranchi

E-mail Address : directorjsac@gmail.com

Telephone : 0651-2401719

Fax: 0651-2401720

Mobile Number : 943114145

Details of team for the nominated project

Key Team Members with their Role Designation [Please mention key officers/ staffs **(not more than 7 including project head)** whose contributions were most significant for the success of the Initiative]

Sl NO	Name(s) :	Designation:
1.	Shri Sarvesh Singhal, IFS	Director
2.	Shri Najmul Hoda	Scientist
3.	Shri Neeraj Kumar Sharma	Junior Scientist
4.	Shri Rajesh Rawani	Programmer