

## Jharkhand State Data Sharing and Accessibility Policy-2018

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### **1.0: Preamble:**

Govt. of Jharkhand is working towards the establishment of “Jharkhand State Spatial Data Infrastructure (JSSDI)” to serve the Govt. Departments as well as the citizens in the line of “National Spatial Data Infrastructure (NSDI)”. In order to support the implementation of JSSDI, the State Data Policy for Sharing of and Accessibility to data needs to be framed. The Policy has been formulated in the line of “National Data Sharing and Accessibility Policy (NDSAP)” issued on 17<sup>th</sup> March, 2012 vide Gazette of India notification No.11 Part 1, Sec 1. NDSAP states that “Data collected or developed through public investments, when made publicly available and maintained over time, their potential value could be more fully realized. There has been an increasing demand by the community that such data collected with the deployment of public funds should be made more readily available to all for enabling rational debate, better decision making and use in meeting civil society needs”.

### **2.0 Objective:**

The objective of the Jharkhand State Data Sharing & Accessibility Policy is to facilitate the access to shareable data owned by different State Govt. Departments in both human readable and machine readable forms through a network all over the country in a proactive and periodically updatable manner, within the framework of various related policies, acts and rules of Govt. of Jharkhand.

### **3.0 Scope:**

The Jharkhand State Data Sharing and Accessibility Policy (JSDSAP) will apply to all data and information created, generated, collected and archived using public funds provided by Govt. of India and Govt. of Jharkhand directly or through authorized agencies and autonomous bodies.

### **4.0 Benefits:**

The benefits include maximizing use, avoiding duplication, maximized integration, ownership information, better decision making and equality of access.

### **5.0 Type of Access:**

Different types of accesses provided to the user will be Open Access, Registered Access and Restricted Access depending on the type of data.

### **6.0 Legal Framework:**

Data and information will continue to remain the property of the concerned Department/Organization/Agencies/Autonomous Bodies, which collect them and make them reside in their IT enabled facility for sharing and providing access. Access to data under this Policy will not be in violation of any acts and rules of the Govt. of India and Govt. of Jharkhand. Legal framework of this policy will be aligned with various acts and rules covering the data. Data acquired from the Govt. Depts. or its interpretation will not be used in pursuing legal proceedings of any kind in the court of law under any legal prosecution.

## **7.0 Pricing:**

Pricing of data if any, would be decided by the data owners and as per the government policies. All departments will upload the pricing policy of the data under registered and restricted access within three months of the notification of the policy. A broad set of parameters would be standardized and provided as guideline for the use of data owners.

## **8.0. Implementation Mechanism:**

(a) All State Government Departments will store their datasets at State DataCentre as a backup storage.

(b) The Information Technology and e-Governance Department will be the nodal department and Jharkhand Space Applications Centre (JSAC) will be the nodal agency for implementation of this policy.

(c) A "State Data Steering Committee (SDSC)" for taking up policy level issues will be constituted under the chairmanship of the Chief Secretary to Government of Jharkhand with Director, JSAC as the Member Secretary- Convener, comprising of Secretary rank officials of the State Government, experts having experience and qualifications in the field of RS/GIS & IT as well as representatives from Industries and Intelligentsia.

(d) A "State Data Executive Committee (SDEC)" under the Chairmanship of Secretary, Information Technology and e-Governance Department with Director, JSAC as the Member Secretary-cum-Convener and officials from Government Departments and experts from RS/GIS/IT and Industries as members will be constituted to facilitate day to day issues in the implementation of the mandates of Jharkhand State Data Sharing and Accessibility Policy.

(e) A dedicated Project Management Unit (PMU) would be formed to assist the SDEC. The PMU is to carry out various activities relating to data standardization, interoperability and sharing, to manage the open government data forum and to provide technical advice and hand holding support to Departments with respect to preparation of datasets, contribution of datasets, explanation of metadata and technically, data provenance, feedback management, etc. keeping ownership (through digital signature) and access/operational information tagged with each stage of publishing data. The PMU will create action plan for regular release of datasets on the data portal and will monitor and manage the open data programme of the departments as per JSDSAP. The PMU is to be constituted by Scientists/Programmer from JSAC and IT specialists from the State Data Centre and NIC.

(f) All Departments would form a Data Dissemination Cell for sharing, publishing and standardization of their data. Any recommendation of the Committees shall be put to SDEC through the PMU.

(g) All sharable standard databases will be made available on as-is-where-is basis.

(h) All the spatial data would be standardized in an open, standard and interoperable format in due course.

(i) Detailed implementation guidelines including the technology, standards and quality checking of data and metadata and its sharing with the Government Departments and bonafide users would be brought out by JSAC.

(j) All the data users who are accessing/ using the data shall acknowledge the owner Departments/ Organizations/ Agencies/ Autonomous bodies in all forms of publications.

(k) All Departments/ Organizations/ Agencies/ Autonomous bodies will upload all the data and information available with them with guidance to its access and sharing on their portal/website and the State Service Delivery Gateway/ State portal within three months of the notification of the policy. The SDSC will be the final authority to decide the classification of data into open, registered and restricted categories, apart from declaration of any non-sharable (negative) data.

(l) JharSampada, the present geo portal of JSAC and Jharkhand State Spatial Data Infrastructure (JSSDI) in future will have the metadata and will be accessed from the portals of the owner departments. The citizen centric application software of Government, cadastral level spatial and non-spatial information, National Population Register census , Aadhar, Bhunaksha, National Sample Survey Organisation and all other relevant softwares operating in the Government framework will be linked to JharSampada/JSSDI. JharSampada/JSSDI will have a citizen centric user interface for public. The contents of JharSampada /JSSDI will be enriched through crowd sourcing technique.

(m) Uniform names for all types of administrative units and natural units would be adopted for updation of the contents of JharSampada/JSSDI.

(n) JSSDI is to be the repository of all non-spatial and spatial data sets , its metadata and associated non-spatial data of the State. It will be established at State Data Centre(SDC),Department of InformationTechnology and e-Gov, Government of Jharkhand having organic linkages with the SDC as the bandwidth, gateway to internet, infrastructure facility, security enabling devices like firewall ,IPSEC, IDS, etc. are already available at its site.

(o) Under JSSDI, all the spatial data, non-spatial data and metadata available at JSAC will be stored in the standard database format in the GISserver placed at SDC and the databases of Government Departments will be available in their own GIS servers. The GIS servers of Government departments will be connected to the GIS server of JSSDI through State Wide Area Network (SWAN) / National Knowledge Network (NKN) and there will be a compliant data sharing mechanism for flow of up-to-date data to users through JSSDI in a common standard format. An Automated mechanism of software will be in place for mapping and integrating heterogeneous spatial data sets into common standard formats. Thus physical transfer of data will be avoided.

(p) High performance and reliable communication networks like SANS, Wireless Networks (e.g. Wi-Fi, WiMAX, sensor networks, etc.) and data intensive computing technologies like Cloud Computing, Big Data, Open Source Technology and Internet of Things (IOT) will be utilized in creating data repository, efficient data handling and delivery as and when available in due course.

(q) All metadata will follow standards and will minimally contain adequate information on proper citation, access, contact information and discovery. Complete information including methods, structure, semantics and quality control/ assurance is expected for most datasets.

(r) Metadata relating to geospatial datasets would contain information on scale, projection, datum, resolution and date of acquisition of sources like satellite image/ aerial photos, etc.

(s) Government will design and position a suitable budgetary incentive system for data owners for increasing open access to the shareable data.

(t) The Departments will take care that the software used in creating and generating geospatial data and information in future need to comply with standards from the International Standardisation Organisation (ISO)/ Open Geospatial Consortium (OGC) and Bureau of Indian Standards (BIS).

(u) It will be ensured that inter connectivity of all the departments be made through SWAN.

(v) The State Data Centre (SDC) will be used by Departments for hosting their data as well as citizen centric and other e-Governance applications.

(w) It would be incumbent upon all the Government Departments/ and its Agencies to utilize the geospatial data sets for coordinated planning, management and delivery of the various services rendered as a part of their administrative and statutory functions.

## **9.0. Constitution of Committees:**

### **9.1. State Data Steering Committee (SDSC) :**

To oversee the implementation and coordination between various Government Departments and to promote and coordinate access to and sharing of non-spatial and spatial data in the State and its efficient application in planning process, the State Data Steering Committee (SDSC) is constituted with the following members.

(i)	Chief Secretary to Government of Jharkhand	Chairman
(ii)	Development Commissioner, Government of Jharkhand	Member
(iii)	Principal Secretary, Planning cum Finance Department, Government of Jharkhand	Member
(iv)	Secretary, Dept. of Information Technology & e-Gov Government of Jharkhand	Member
(v)	Principal Secretary, Home, Jail & Disaster Management Department, Government of Jharkhand.	Member
(vi)	Principal Secretary, Rural Development Department, Government of Jharkhand.	Member
(vii)	Principal Secretary, Water Resources Department, Government of Jharkhand.	Member
(viii)	Principal Secretary, Forest, Environment& Climate Change Department, Government of Jharkhand.	Member
(ix)	Principal Secretary, Health, Medical Education and Family Welfare Department, Govt. of Jharkhand	Member
(x)	Principal Secretary, Agriculture, Animal Husbandry and Cooperative Department, Govt. of Jharkhand	Member
(xi)	Principal Secretary, Urban Development Department, Government of Jharkhand	Member
(xii)	Secretary, Higher, Technical Education and Skill Development Department, Government of Jharkhand.	Member
(xiii)	Chief Executive Officer, National Spatial Data	Member

	Infrastructure, Government of India.	
(xiv)	Director, Survey of India, Ranchi	Member
(xv)	SIO, NIC, Ranchi, Jharkhand	Member
(xvi)	General Manager, Regional Remote Sensing Service Centre—East, Department of Space, Government of India.	Member
(xvii)	Director, National Natural Resources Management System, Indian Space Research Organisation, Department of Space.	Member
(xviii)	Director, IMD, Ranchi	Member
(xix)	Representative from Geo-Spatial Industry	Member
(xx)	Director, Jharkhand Space Applications Center.	Convener cum- Member Secretary

On and from such date and term as may be decided by SDSC in addition theSDSC,can appoint 5 (five) experts having experience and qualification in the fields relatedto RS, GIS, IT and related areas.

Mandate of SDSC shall be: —

1. to advise various Government Department as regards to the use of data and information in the developmental planning of the State.
2. to formulate policies/ guidelines regarding classification and use of data and information in the planning process, disaster mitigation and scientific research of the State.
3. to promote and facilitate sharing of data and information among various State Government Departments and other users with policy formation and implementation focus on development and sustainable use of geospatial database.
4. to review and monitor the implementation of data sharing and accessibility related plans of various line Departments.
5. to guide in development and establishment of a Jharkhand State Spatial Data Infrastructure (JSSDI) in the line of National Spatial Data Infrastructure(NSDI) of Government of India.
6. to make available JSSDI through SMAC (Social, Mobile, Analytics and Cloud).
7. to use the eco-system of service providers and rising technical base oftalented users with mobile and social connections.
8. to spread awareness in the community ranging from developers, researchers to people from start-ups and industries.
9. to take up all such acts and deeds that may be necessary, beneficial orotherwise desirable to achieve the objectives of Jharkhand State Data Sharing and Accessibility Policy (JSDSAP) and Jharkhand SDI.

## **9.2. State Data Executive Committee (SDEC):**

To develop and design collection, access, management, sharing and effective utilization of the non-spatial/ spatial data in the State, a State Data Executive Committee (SDEC) is constituted comprising of following members.

(i)	Secretary, Dept. of Information Technology & e-Gov, Government of Jharkhand	Chairman
(ii)	Director, Information Technology& e-Gov, Government of Jharkhand	Member

(iii)	Director, Agriculture, Government of Jharkhand	Member
(iv)	Chief Executive Officer, Jharkhand State Watershed Development Mission	Member
(v)	Director, Higher, Technical Education and Skill Development Mission	Member
(vi)	Project Manager, Jharkhand State Data Centre	Member
(vii)	Engineer-in Chief, Water Resource, Government of Jharkhand	Member
(ix)	Senior Technical Director, National Informatics Centre, Ranchi	Member
(x)	Representative of NRSC Data Centre, National Remote Sensing Centre, Indian Space Research Organisation, Hyderabad	Member
(xi)	Director, Economics and Statistics, Government of Jharkhand	Member
(xii)	Director, Town Planning, Government of Jharkhand	Member
(xiii)	Representative from Geo-Spatial Industry	Member
(xiv)	Director, Jharkhand Space Applications Center	Convener cum- Member Secretary

In addition, the SDEC may appoint five (05) experts having experience and qualifications in the field of remote sensing, GIS, IT and related fields.

Functions of SDEC should be,

1. to define the architectural framework and protocols of data sharing and ensure implementation of proper data types, standards and data implementation and sharing matrix and develop guidelines for security and safety of such data sets.
2. to constitute technical sub-committees to achieve the objectives of the State Data Sharing and Accessibility Policy.
3. to define and formulate rules and procedures under the policy.
4. to aid and advice to the SDSC on any technical matter related to or concerned with the State Data Sharing and Accessibility Policy.
5. to advice the SDSC on expanding the scope of the State Data Sharing and Accessibility Policy.
6. to undertake activities to simulate innovations related to data access mechanism in the State.
7. to propose a cadre based service of IT professionals to assist individual department in sorting standardizing, managing, categorizing and publishing the data sets.
8. to take up all such acts and deeds that may be necessary, beneficial or otherwise desirable to achieve the objectives of State Data Sharing and Accessibility Policy.

#### **10.0. Budget Provisions:**

The implementation of Jharkhand State Data Sharing and Accessibility Policy is expected to entail expenditures for both data owners and data managers for data conversion, data refinement, data

storage, quality upgradation, etc. Appropriate budgetary provisions and support for data management for each department/organization would be made by the Government.

**11.0. Conclusion:**

The State Data Sharing and Accessibility Policy is formulated with a mandate of using Government owned data and information in the interest of concern citizens of the State. In line with the provisions of this policy, various departments will be promoted to share data and information with each other and other stakeholders including common citizens thereby enhancing sustainable and productive use of the data sets in planning process of the State. The State Data Policy will provide greater scope for unified decision making in the State. Using this policy, Government of Jharkhand will strive to form one umbrella under which users can be able to access all data and information as per their requirements. The scope and objectives of this policy may be expanded and enriched in future, as the data management technologies and procedures are changing day-by-day in the society.