

DATA CATALOGUE

Geospatial Data

[Abstract](#)

This data catalogue encompasses a comprehensive collection of Geographic Information System (GIS) data sources, meticulously curated to cater to a wide array of spatial analysis and mapping needs.

Curated by-Survey of India

DATA CATALOGUE

National Agency

State Agency

Sr. No	List of Data Acquiring Agencies	Description	Website Link	Portal Links	Data Types	Public Access	Login Required	Downloadable Data
1.	Survey of India (SoI)	SOI Maps	https://onlinemaps.surveyofindia.gov.in/	https://onlinemaps.surveyofindia.gov.in/	Maps Vector Data GIS Data	Yes	Yes	Yes G2G Free G2P Paid
		SOI Geo Portal	https://indiamaps.gov.in/login	https://indiamaps.gov.in/login	Topographical Maps SOI 2D SOI Terrain Maps Vector Data Project Data Geophysical Data Ground Control Points Digital Elevation Models	Yes	Yes	No
2.	NATMO	NATMO maintains a vast repository of spatial and non-spatial data, utilizing the latest technologies such as GIS, GPS, and remote sensing. For more information on NATMO and to explore its services, you can visit their official website NATMO.	https://geoportal.natmo.gov.in/	https://geoportal.natmo.gov.in/	Map and Atlas different themes - visualisation purpose and queryable	Yes	No	No

3.	Geological Survey of India (GSI)	Bhukosh is a portal developed by the Geological Survey of India (GSI) that provides access to various geoscientific data, including maps, reports, and other geological information. While the portal allows users to view and explore geoscientific data online, the availability of downloadable data may vary depending on the specific dataset and licensing restrictions.	https://www.gsi.gov.in/webcenter/portal/OCBIS	https://bhukosh.gsi.gov.in/Bhukosh/Public	Geological Maps Mineral Maps Seismotectonic Maps Geophysical Data Thematic Maps	Yes	Yes	No
4.	Forest Survey of India (FSI)	Forest Survey of India (FSI) is an organisation under the Ministry of Environment & Forests, Government of India. Its principal mandate is to conduct survey and assessment of forest resources in the country.	https://fsi.nic.in/	https://vanagniportal.fsiforestfire.gov.in/fsi_fire/fire.html	Fire alert System	Yes	No	No
5.	Director General Hydrocarbons (DGH)	NDR (National Data Repository) :National Data Repository (NDR) is a government-sponsored E&P data bank with state-of-the-art facilities and infrastructure for preservation, upkeep and dissemination of data to enable its systematic use for future exploration and development. It has been operational since 28th July 2017	https://www.ndrdgh.gov.in/NDR/?page_id=6	https://www.ndrdgh.gov.in/NDR/?page_id=1486	Seismic DataWell & Log DataSpatial DataOther G&G data like Drilling, Reservoir, Production, Geological, Gravity & Magnetic etc.Reports and Documents	Yes	Yes	No

6.	National Data Registry (NSDI)	NDR is a pioneering project of the National Spatial Data Infrastructure (NSDI) agency under the Department of Science & Technology (DST), Govt of India. NDR is the new national-level spatial data registry platform, built following OGC, ISO and BIS standards. It facilitates nodal agencies to publish datasets onto a singular, standardized platform for multi-layer visualization, and complex query execution	https://ndr.nsdi.gov.in/home	https://ndr.nsdi.gov.in/home	Topographic Data Administrative Boundaries Land Use and Land Cover Cadastral Data Demographic Data Remote Sensing and Satellite Imagery *(This portal also contains data for State SDIs)	Yes	Yes	No
7.	Ministry of Earth Sciences (MoES)	This portal is a gateway to a range of data products and services across the Earth sciences spectrum. It encompasses oceanic, atmospheric, geophysical, and seismological data, supporting research and operational applications in weather forecasting, climate change, and hazard risk reduction.	https://incois.gov.in/essdp/index.html	https://incois.gov.in/essdp/	Earth Sciences Earth Sciences Services Marine Science Space Science	Yes	No	No

8.	Ministry of Mines - National Geoscience Data Registry (NGDR)	National Geoscience Data Repository (NGDR) is a flagship initiative conceptualised by Ministry of Mines as a part of National Mineral Exploration Policy (NMEP), 2016 for hosting all exploration related geoscientific data for dissemination to all the stakeholders so as to expedite, enhance and facilitate the exploration coverage of the country. Geological Survey of India is selected as the nodal agency for the implementation of NGDR.	https://mines.gov.in/webportal/home	https://geodataindia.gov.in/login	Minerals and Geological related data	Yes	Yes	No
9.	ISRO	Bhuvan: NRSC-ISRO launched the beta version of its web-based GIS tool, Bhuvan. It evinces the Indian Earth Observation capabilities from the Indian Remote Sensing (IRS) series of satellites. It is an interactive versatile Earth-Browser which showcases multi-sensor, multi-platform and multi temporal images with capabilities to overlay thematic information, interpreted from such imagery as a vector layer, along with near real-time information from Automatic Weather Stations (AWS), Potential Fishing Zone (PFZ) information, disaster support related information like forest fire alerts, periodic agricultural drought assessment etc	https://www.nrsc.gov.in/	https://bhuvan.nrsc.gov.in/home/index.php	Satellite Processed Data and Satellite Product (low to high resolution data, Indian and international both satellite data). Visualisation and free download.	Yes	Yes	Yes

		<p>MOSDAC (Meteorological and Oceanographic Satellite Data Archival Centre):MOSDAC is a data repository and dissemination center for satellite-based meteorological and oceanographic data, supporting weather and climate research</p>	<p>https://mosdac.gov.in/</p>	<p>https://mosdac.gov.in/</p>	<p>Meteorological and Oceanographic Satellite Data Archival and products</p>	<p>Yes</p>	<p>Yes</p>	<p>Yes</p>
		<p>Bhoonidhi: Access to extensive archive of Remote Sensing data from 44 satellites, including Indian and Foreign Remote Sensing sensors acquired since 1986. We also facilitate the Regional distribution of Sentinel, LandSat (8 & 9) data in India</p>	<p>https://bhoonidhi.nrsc.gov.in/bhoonidhi/home.html</p>	<p>https://bhoonidhi.nrsc.gov.in/bhoonidhi/home.html</p>	<p>Search, View and Download/Order open/priced data of various IRS missions, Landsat-8, Sentinel 1&2 and NovaSAR</p>	<p>Yes</p>	<p>Yes</p>	<p>Yes</p>
		<p>VEDAS is an online geo processing platform using optical, microwave, thermal and hyper spectral EO data covering applications particularly meant for academia, research and problem solving. It also offers Mobile Applications particularly Solar and Wind Calculator.</p>	<p>https://vedas.sac.gov.in</p>	<p>https://vedas.sac.gov.in</p>	<p>Satellite Data on Land & National Resources</p>	<p>Yes</p>	<p>Yes</p>	<p>No</p>

10	NIC : BharatMaps	<p>BharatMaps: NIC/MeitY has created Multi-Layer GIS Platform named "Bharat Maps" which depicts core foundation data as "NICMAPS", an integrated base map service using 1:50,000 scale reference data from Survey of India, ISRO, FSI, RGI and so on. This encompass 23 layers containing administrative boundaries, transport layers such as roads & railways, forest layer, settlement locations etc., including terrain map services.</p>	https://bharatmaps.gov.in/bharatmaps/#about	https://bharatmaps.gov.in/BharatMaps	GIS Portals, Project Data, DSS Links developed by NIC	Yes	Yes	No
11	Open Govt. Data	<p>Open Government Data Portal designed, developed and hosted by the National Informatics Centre (NIC), a premier ICT organization of the Government of India under the aegis of the Ministry of Electronics & Information Technology.</p>	https://data.gov.in/about	https://data.gov.in/dataset-group-name/GIS	Various GIS layers	Yes	Yes	Yes

12	BISAG-N(Bhaskaracharya National Institute for Space Applications and Geo-informatics): PM Gatishakti	<p>The PM GatiShakti platform is designed to integrate data across various infrastructure sectors, including roads, railways, airports, ports, waterways, and urban and rural infrastructure. It aims to provide a comprehensive view of existing and planned infrastructure projects, enabling better coordination and optimization of resources.</p>	https://pmgatihakti.gov.in/pmgatihakti/login	https://pmgatihakti.gov.in/pmgatihakti/login	<p>Geospatial Data: Maps and geospatial information related to various infrastructure sectors.Project Information: Details of ongoing and proposed infrastructure projects, including their status, alignment, and connectivity.Sectoral Data: Specific data related to different infrastructure sectors, such as transport networks, industrial corridors, and utility services.</p>	No	Yes	No
13	National Bureau of Soil Survey and Land Use Planning (NBSS&LUP)	<p>The Bhoomigeoportal is a comprehensive web-based Geographic Information System (GIS) that offers detailed information on soil types, land use patterns, and other related data for the entire country. The portal is designed to assist policymakers, researchers, farmers, and other stakeholders in making informed decisions regarding land use and agricultural practices.</p>	https://www.bhoomigeoportal-nbsslup.in	https://www.bhoomigeoportal-nbsslup.in	<p>Soil Maps Land Use Maps Agro-Ecological Zones Soil Health Cards Thematic Maps</p>	Yes	Yes	No

14	INDIA-WRIS PORTAL	India Water Resources Information System (India-WRIS) provides details and access to make non-sensitive data collected through the use of public funds available for legitimate use, enabling better decision making and meeting society's needs.	_https://indiawris.gov.in/wris/#/	https://indiawris.gov.in/wris/#/	Surface water level data Ground water level data Hydrology Metrology	Yes	Yes	No
15	INDIA BIO-DIVERSITY PORTAL	Provides access to Indian Biodiversity Repository and maps.	https://indiabiodiversity.org/	https://indiabiodiversity.org/map?layers=	Information on various biodiversity data	Yes	Yes	No
16	ICAR (Indian Council of Agricultural Research)	The ICAR Geo-portal is an initiative by the Indian Council of Agricultural Research to disseminate geospatial data related to agriculture to stakeholders. This portal includes geo-referenced data on climate, soil, cropping systems, land-use patterns, and more. The data layers available include	https://krishi.icar.gov.in	https://krishi.icar.gov.in	Base layers Crop production and productivity Soil maps Agro-ecological regions Climate vulnerability maps	Yes	No	No
17	Karnataka State Remote Sensing Applications Centre (KRSAC)	The Karnataka State Remote Sensing Applications Centre(KRSAC) was established in the year 1986 and designated as the Nodal Agency for implementation of Remote Sensing(including Photogrammetry) and GIS programmes in the State	https://krsac.karnataka.gov.in/map.aspx	K-GIS (krsac.in)	Drainage NetworkTransport Network Lineament MapLand Use Land Cover SOILGeomorphology	Yes	No	Yes

18	Maharashtra Remote Sensing Applications Centre (MRSAC)	The creation of National GIS, as spelled out by the Planning Commission, Government of India, in the twelfth Five Year Plan 2012-17, envisages a GIS Decision Support Tool based on latest satellite data of very high resolution of 30 -50 cm for effective and transparent planning leading to better e-governance.	https://mrsac.gov.in/MRSAC/	https://mrsac.gov.in/MRSAC/	GIS Dashboard Health GIS Land Use- Land Cover	Yes	Yes	No
19	Andhra Pradesh State Remote Sensing Applications Centre (APSRAC)	Andhra Pradesh Space Applications Centre (APSRAC) is an autonomous scientific organization under ITE & C Department, Government of Andhra Pradesh, registered under AP societies Registration Act, 2001 and is a nodal agency for remote sensing, GIS and GPS applications in Andhra Pradesh.	https://apsac.ap.gov.in/?page_id=1361	https://apsac.ap.gov.in/	GIS Dashboard Health GIS Land Use-Land Cover Agricultural & Soil Geosciences Water Resource Disaster Management & coastal studies Geomatics & e – Governance Survey / Earth observations	Yes	No	No

20	Telangana State Remote Sensing Application Centre (TRAC)	Telangana State Remote Sensing Applications Centre (TRAC) is an autonomous scientific organization under Planning Department, Government of Telangana. It is the nodal agency for Remote Sensing (RS), Geographic Information Systems (GIS) & Global Positioning System (GPS) applications in Telangana.	http://trac.telangana.gov.in/trac/about.php	http://trac.telangana.gov.in/trac/webgis.php	Data can be queried for various use cases: Land Use District Information Crime Mapping	Yes	Yes	No
21	Uttar Pradesh Remote Sensing Applications Centre (UPRSAC)	The Uttar Pradesh Remote Sensing Applications Centre (UPRSAC) is an organization dedicated to utilizing remote sensing technology and GIS for various applications in the state.	https://rsac.up.gov.in/	https://rsac.up.gov.in/	Land Use/Land Cover Agriculture Water Resources Forest and Ecology Urban Planning Disaster Management	Yes	No	No

22	Kerala State Remote Sensing and Environment Centre (KSREC)	The Kerala State Remote Sensing and Environment Centre (KSREC), under the National Natural Resources Management System (NNRMS), is an autonomous body established by the Government of Kerala for the application of remote sensing and GIS technologies in the state. KSREC serves as a nodal agency for geospatial needs and supports various environmental and resource management initiatives	http://www.ksrec.kerala.gov.in/frmPrjKSDB.aspx	http://www.ksrec.kerala.gov.in/frmPrjKSDB.aspx	Metadata/ Catalogue Service. <ul style="list-style-type: none"> • Importing spatial features into a centralized Spatial Database Management System. • User friendly Map viewer for rendering spatial features and its capabilities. • Viewer functionalities and analysis tool. • OGC interoperability tool for retrieving user specific OGC Mapping standards like GML, KML and SVG. • OGC Web Map Services. • Web-GIS web library services 	Yes	No	No
23	Haryana Space Applications Centre (HARSAC)	The Haryana Space Applications Centre (HARSAC) is a government agency responsible for remote sensing and GIS applications. It was established in 1986 and provides a range of services including GIS database design, map creation, and data conversion.	https://hsac.org.in/harsac/	https://hsac.org.in/harsac/	Only Metadata information is available	Yes	No	No

24	Jharkhand Space Applications Centre (JSAC)	Jharkhand Space Applications Center (JSAC) under Department of Information Technology, Govt. of Jharkhand is a premier Remote Sensing Center established in the year 2003 with its space application activities taking the lead and initiative for the overall development of the State.	https://jsac.jharkhand.gov.in/	Geo Portal - Jharkhand Space Applications Center, Ranchi	Forest GIS Maps Health GIS Agriculture GIS School GIS Industry GIS Jharkhand minerals	No	Yes	No
25	Tamil Nadu: Tamil Nadu e-Governance Agency	TNGIS (Tamil Nadu Geographic Information System) is an initiative by the Government of Tamil Nadu to develop and implement a comprehensive geographic information system for the state. The aim of TNGIS is to provide a centralized platform for accessing, analyzing, and managing spatial data and information related to various sectors such as land use, agriculture, water resources, urban planning, infrastructure, and environment.	https://tngis.tn.gov.in/	https://tngis.tn.gov.in/	Land useAgricultureWater resources Urban planning InfrastructureEnvironm ent	Yes	Yes	No
26	Madhya Pradesh: MP State Data Portal	State SDI gateway to facilitate creation of multipurpose integrated map data for user departments, including department specific assets, for gap identification and further infrastructure development planning, to develop map-based decision support systems for better informed decision making by state departments	https://geoportal.mp.gov.in/geoportal/	https://geoportal.mp.gov.in/geoportal/	GIS Data Drone Data Topographic Data Satellite Data	Yes	No	No

27	Odisha: Odisha State Portal	Web Based GIS Framework "ODISHA GEO-PORTAL" has been developed where Geo-Spatial layers of Administrative boundaries of entire state starting from State to Village level have been created with other Natural resources Layers & Communication Layers which covers (Forest, Soil, LULC, Rivers, Water Bodies, Drainage, Roads, Rails) in 1:50K scale .Reference data from Survey of India, ISRO, FSI, RGI and so on.	ODISHA GEOPORTAL (gisodisha.nic.in)	https://gisodisha.nic.in/	Administrative Boundaries Layers Application Layers Natural Resources Layers (Forest, Soil, LULC, Rivers, Water Bodies, Drainage, Roads, Rails etc)	Yes	Yes	No
28	Kerela Geo Portal	The Kerala State Spatial Data Infrastructure (KSDI) is an Internet based Geo-spatial Data Directory for the state that facilitates users of the system to share and explore data related to political and administrative boundaries, natural resources, transportation and infrastructure, demography, agro and socio economy etc., of the state.	https://opensdi.kerala.gov.in/	https://opensdi.kerala.gov.in/	Political and Administrative Boundaries Natural Resources Transportation and Infrastructure Agriculture and Socio-Economic Data Environmental Data Land Use	Yes	Yes	Yes
29	NESAC-GEO WEB SERVICES	To provide an operational remote sensing and geographic information system aided natural resource information base to support activities on development / management of natural resources and infrastructure planning in the region.	https://nesac.gov.in/	https://nesac.gov.in/portals-geo-portals/	Various Geo-Web Services: SeriGeoTag- Sericulture Assesment Dashboard NeSDR: Northeastern Spatial Data Registry NEDRP: North Eastern District Resources Plan	Yes	Yes	No

30	Odisha Remote Sensing Application Centre (ORSAC)	Odisha 4k Geo portal provides availability of data sharing framework; Standardized, Structured & Updated Geo-spatial Data infrastructure for seamless integration of data of multiple-sources; Standard mechanism for ensuring Data integrity.	ORSAC Geospatial Portal - for Rural & Urban Development (odisha4kgeo.in)	https://odisha4kgeo.in/	Structured storage, Multi-source Data Integration, Web-enabling of Data, Mobile App for Data capturing, Data analytics, Query module creation, Dashboard based information visualization, Net based data dissemination, WMS/WFS services and, On-demand Decision Support provisions	Yes	No	No
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