

■ Edition-1  
2025

# DIGITAL DATA REGISTER

GOA



SURVEY OF INDIA



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## LIST OF ABBREVIATIONS

|          |   |                                                                                  |
|----------|---|----------------------------------------------------------------------------------|
| OSM      | - | Open Series Map                                                                  |
| DSM      | - | Defence Series Map                                                               |
| ABDB     | - | Administrative Boundary Data Base                                                |
| DEM      | - | Digital Elevation Model                                                          |
| NHP      | - | National Hydrology Project                                                       |
| NMCG     | - | National Mission for Clean Ganga                                                 |
| CMPDI    | - | Central Mine Planning and Design Institute                                       |
| ICZM     | - | Integrated Coastal Zone Management                                               |
| NUIS     | - | National Urban Information System                                                |
| SVAMITVA | - | Survey of Villages Abadi and Mapping with Improvised Technology in Village Areas |
| UTM      | - | Universal Transverse Mercator                                                    |
| WGS84    | - | World Geodetic System 1984                                                       |
| LCC      | - | Lambert Conformal Conic                                                          |
| Res.     | - | Resolution                                                                       |
| .tiff    | - | Geo-Referenced Tagged Image File Format                                          |
| .gdb     | - | Geo Data Base                                                                    |
| .pdf     | - | Portable Document Format                                                         |
| .dgn     | - | Design File                                                                      |
| .shp     | - | Shape File                                                                       |

## GOA—ABOUT THE STATE

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### **Historical Background**

From 1510 to 1961, Goa was under Portuguese rule for over 400 years. The Portuguese took over Goa from the Bijapur Sultanate in March 1510 and it remained their main base in the east until its liberation (18 December 1961). From 19 December 1961 to 30 May 1987, Goa was a federal state of India. During this period it was part of the great confederation of Goa, Daman and Diu. On 30 May 1987, Goa became the 25th state of the Indian Union.

### **The Weather**

The climate is temperate, with low/high temperatures generally remaining at 70-80 degrees F (20-30 degrees C) yearly. Rainfall occurs in the southwest from June to September, with the state receiving about 115 inches (3,000 mm) of rainfall per year, most of which falls during the rainy season.

### **Geographical Location**

The area of Goa is 3,702 sq. km. North Goa (1736 sq km) and South Goa (1966 sq km) Goa is bordered by Maharashtra to the north, Karnataka to the east and the Arabian Sea to the south merge, which rise to an altitude of about 4,000 feet on the eastern edge of the state, the two largest rivers in the state

### **Population and Religion**

According to the 2011 census of India, the official population of Goa population was 14.58 lakh, but the estimated population of Goa in 2025 is around 15.96 lakh. The Portuguese colonial heritage and the diverse indigenous people of Goa have cultivated a unique cultural landscape. The population is mainly a mixture of Christians and Hindus is a west coastal area with round crosses and Roman Catholic churches on the front, while Hindu temples and shrines are scattered in the hilly east. The village also has a significant Muslim population. Also, Jain, Sikhs, are small communities practicing the local religion.

### **Language**

Konkani is the official language and is spoken by the majority of the people in Goa. Other languages spoken in the state are Hindi, Marathi, Kannada, Urdu, Gujarati and English. However, some older citizens can also speak Portuguese, and many Goans still have Portuguese personal names and surnames are located.

### **Transport**

Goa is well connected to other cities/states in India by road/rail/air. It has two international airports, located at Dabolim and Mopa. Go's Dabolim Airport now has a ferry terminal, located at Baina Beach, just 5km from the airport, with free shuttle service. Connecting beaches in the village and exploring different parts of the state, especially between North and South Goa, can be done using various local transport options such as buses, ferries, taxis, auto rickshaws, and rental bicycles.

## Tourist Attractions

Goa is the hub of different beaches and tourism is developed in the state, each beach in Goa has different characteristics, options, and clientele even those next to each other. Goa is also home to beautiful waterfalls, which offer a refreshing escape in nature, with lush greenery and stunning views. Dudhsagar Falls, the highest waterfall in India, is the most iconic. Other notable waterfalls include Harvale Falls, Red Surl Falls and Netravali Falls

There are also some forts such as Aguada Fort, Chapora Fort, Khorjuve Fort, Reish-Magus Fort, Terekhol Fort. Terekhol Fort has been converted into a heritage hotel.



*Fig 1: Basilica of Bom Jesus (Cathedral Church)*

There are also many churches of beautiful architecture, the famous Basilica of Bom Jesus (Cathedral Church), where the relics of St. Francis Xavier were kept in a silver and glass casket since 1637 and opened for public viewing once every ten years. The Chapel of Saint Catherine of Alexandria is another famous church in Goa, both under UNESCO World Heritage Sites, situated in Old Goa.

## DESCRIPTION OF DATA

---

### 1. TOPOGRAPHICAL MAPS

Topographical Maps are detailed, large-scale maps prepared by the Survey of India that accurately depict the natural and man-made features of the land. These maps serve as a fundamental reference for planning, administration, and developmental activities in India.

They provide precise information on terrain, elevations, drainage, vegetation, settlements, transport networks, administrative boundaries, and land use patterns. Using contour lines and symbols, these maps help visualize the shape and features of the ground.

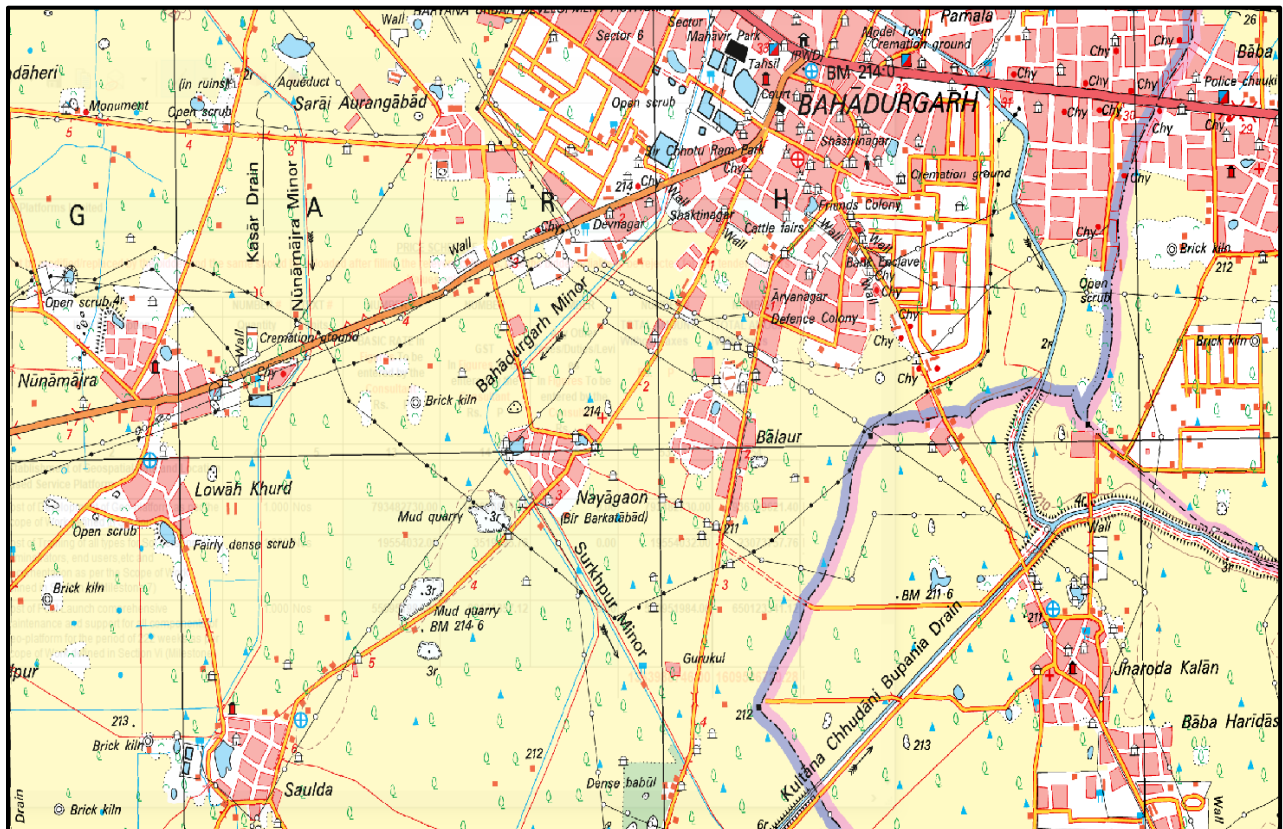
Topographical maps are used for:

- i. Infrastructure Planning: Supports planning and alignment of roads, railways, canals, pipelines, and power lines.
- ii. Urban and Rural Development: Aids in town planning, settlement expansion, and selection of suitable sites for public/private infrastructure.
- iii. Water Resource Management: Facilitates watershed analysis, irrigation planning, and identification of drainage and flood-prone areas.
- iv. Natural Resource Assessment: Enables mapping vegetation, soil, and land use for sustainable resource management.
- v. Land Records Correlation: Helps link cadastral maps and revenue records with actual ground features.
- vi. Boundary Verification: Used for proper identification and confirmation of administrative boundaries at various levels.
- vii. Enables identification of forest area.
- viii. Environmental and Ecological Studies: Useful in assessing terrain, slopes, and ecological sensitivity for conservation planning.
- ix. Disaster Management: Assists in flood, drought, and landslide analysis, and in post-disaster damage assessment.
- x. Defence and Security Applications: Provides essential terrain information for defence planning, border management, and surveillance.
- xi. Tourism and Recreation Planning: Helps identify trekking routes, viewpoints, and eco-tourism sites.
- xii. Educational and Research Purposes: Used as inputs in geographical, geological, and environmental studies.

- xiii. Legal purposes: An authentic and accurate spatial framework to support legal and judicial requirements.
- xiv. GIS Applications: Serves as a reliable base layer for any geospatial analysis.

These are accurate and authorized maps which provide a base layer for integrating and validating all spatial data, supporting accurate decision-making and efficient land administration.

Survey of India provides Topographical Maps at 1:250,000 scale, 1:50,000 scale and 1:25,000 scale.



*Fig 2: Topographical Map*

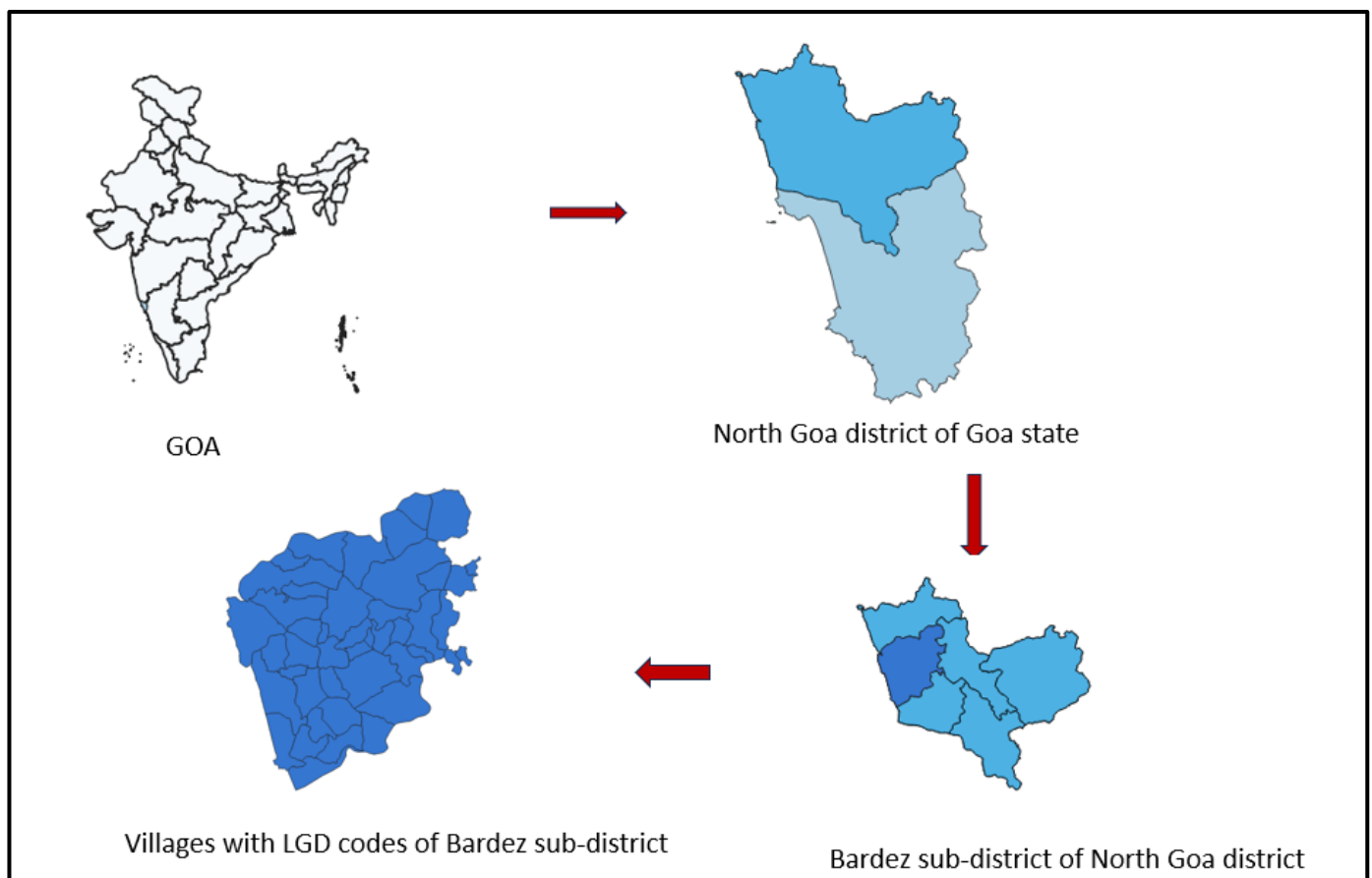
## 2. ADMINISTRATIVE BOUNDARIES

Administrative boundaries represent officially demarcated divisions of governance & jurisdiction and are mapped and maintained by the Survey of India (SOI). These boundaries provide the foundational spatial framework for all administrative functions.

SOI maintains and updates boundary data at multiple hierarchical levels, ranging from International Boundaries, State Boundaries, Union Territory Boundaries, District Boundaries, Sub-District (Tehsil/Taluk) Boundaries, Village Boundaries and some Urban Area Boundaries.

Administrative boundary data of SOI is currently used in numerous ways, such as:

- i. Land and Revenue Record Management – verifying jurisdictional accuracy for land parcels and revenue collection.
- ii. Development Planning – identifying areas for infrastructure, welfare schemes, and resource allocation.
- iii. Disaster Management – coordinating relief efforts based on clearly demarcated jurisdictions.
- iv. E-Governance and GIS Integration – linking spatial boundaries with demographic, economic, and land use data for better decision-making.



*Fig 3: Administrative Boundaries: From International boundary to Village boundary*

### 3. DIGITAL ELEVATION MODEL (DEM)

The Digital Elevation Model (DEM) is a digital representation of the Earth's surface showing the elevation (height) of surface features. Survey of India (SOI) has prepared DEMs by digitizing and processing contour data from 1:50,000 scale topographical maps, ensuring consistent accuracy across the country.

A DEM depicts the natural terrain in three dimensions. It forms the foundation for terrain analysis, watershed delineation, infrastructure planning, and disaster management.

The DEM provided by SOI is highly used for:

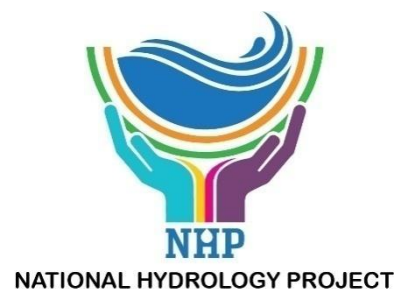
1. Land Use and Development Planning – identifying suitable areas for roads, buildings, and public utilities based on terrain conditions.
2. Drainage and Irrigation Management – analysing slope and flow direction to design efficient water distribution systems.
3. Flood Risk and Disaster Management – mapping flood-prone or low-lying areas to support preparedness and mitigation efforts.
4. Infrastructure Projects – assisting in route alignment for roads, canals, and pipelines.

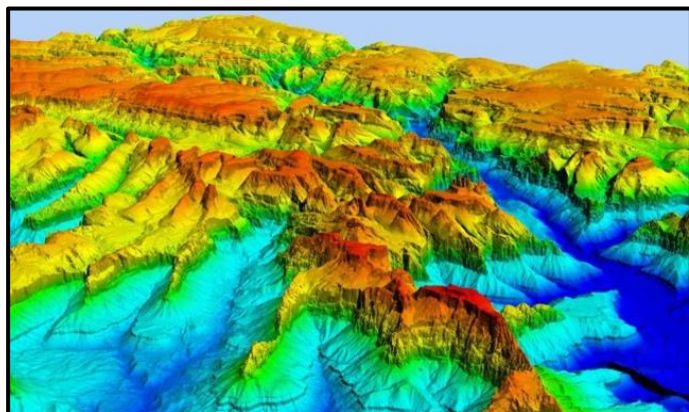
The SOI's DEM (10m resolution) thus serves as a foundational spatial dataset that enables accurate and authorized terrain-based decision-making for various administrative, developmental, and legal applications.

### 4. SOI PROJECTS

#### I. NATIONAL HYDROLOGY PROJECT (NHP)

Survey of India is one of the Central Implementation Agencies in the National Hydrology Project (NHP) of Government of India which is intended for setting up of a system for timely and reliable water resources data acquisition, storage, collation and management. The Ministry of Jal Shakti, Department of Water Resources, River Rejuvenation and Ganga Rejuvenation (DoWR, RD&GR) is the Nodal Ministry for implementation of the project.





*Fig 4: Digital Elevation Model*

Geo-spatial datasets i.e. mapping and preparing the Digital Elevation Model (DEM) of 0.5m & 3-5 m for River Basin areas (plain), up to 5 km on both the sides of river and GIS ready data of SOI Topo sheets on 1: 25 K scale.

The data generated under NHP provide tools/systems for informed decision making through Decision Support Systems (DSS) for water resources assessment, flood management, reservoir operations, drought management, etc. NHP also seeks to build capacity of the State and Central sector organizations in water resources management using Information Systems and adoption of State-of-the-art technologies like Remote Sensing.

Survey of India was entrusted with the responsibility to generate, prepare and provide various types of

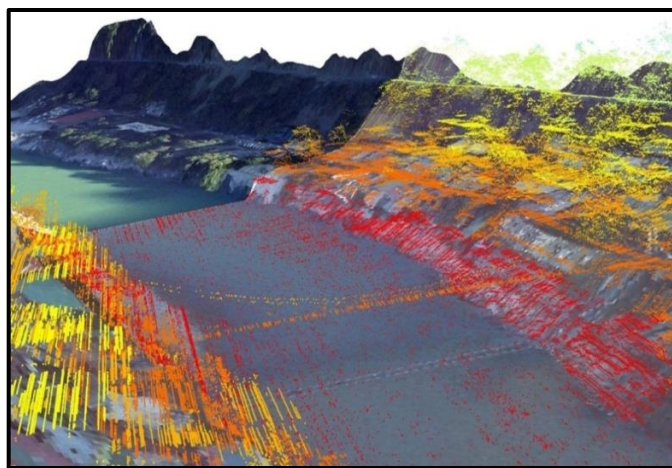
## II. NATIONAL MISSION FOR CLEAN GANGA (NMCG)



This project is an integrated conservation mission, approved as flagship program by the Union Government in June 2014 to accomplish the twin objectives of effective abatement of pollution, conservation and rejuvenation of the national river Ganga.

Objective of the Project was to generate High

Resolution DEM and GIS ready database for the part of River Ganga with latest technology. The mapping of mainstream of river Ganga in five major states namely Uttarakhand, Uttar Pradesh, Jharkhand, Bihar and West Bengal covering major towns and cities along the river Ganga and its tributaries in these states with an area of Two lakh fifty thousand square km. To provide a major support to Ganga River basin Management by embedding GIS in different aspects of - planning and implementation at national/state/local levels; bringing GIS support in decision-making; enable a sound process of monitoring development and identifying critical hotspots. To make GIS data available at all levels and groups associated in this process – that helps bringing accountability and responsibility in policy decisions.



*Fig 5: LiDAR Point Cloud Data*

Survey of India was tasked to generate High-Resolution Digital Elevation Model (DEM) of 0.5 meter resolution and GIS based data for the part of River Ganga covering up to 10 km extent on both sides of the river using latest technology.

### III.CENTRAL MINE PLANNING AND DESIGN INSTITUTE (CPMDI)

Survey of India generated up-to-date digital topographical maps of 27 Major Indian Coal fields. Chhattisgarh, Jharkhand, Madhya Pradesh, Maharashtra & Goa, Meghalaya & Arunachal Pradesh, Orissa and W.B & Sikkim GD's Major Indian Coal fields covering an area of 30,488 sq.km. for Central Mine Planning & Design Institute (CMPDI), a subsidiary of Coal India Limited using aerial photographs and adequate ground checks. To generate the Topographical maps of the major coalfields on 1:5000 scale with 2 meter contour interval in Plains (in case of hilly terrain contour interval may be 3-5 meter as practical) in GIS digital format based on Digital Photogrammetric Techniques using high resolution aerial photographs and adequate ground verification. Survey of India also imparted training on data processing and interpretation to scientists of CMPDI at the initial stage on preparation of Topographical maps based on aerial photographs using digital photogrammetric technique.

### IV.INTEGRATED COASTAL ZONE MANAGEMENT (ICZM)

To ensure effective protection of shore lines, coastal infrastructure, livelihoods and lives through improved coastal management a Coastal Management Program undertaken by Ministry of Environment & Forest (MoEF) and entrusted the work of supplying a requisite coastal data and vulnerability mapping, (involving hazard line demarcation of coastal areas) to Survey of India through its Integrated Coastal Zone Management (ICZM) Project.

The objective of the project was to delineate, map and benchmark the coastal hazard line all along the mainland coast of India under World Bank Assisted "Integrated Coastal Zone Management" (ICZM) project, where SURVEY OF INDIA had to generate a 0.5 meter elevation contour map on 1:10,000 scale as base map to delineate the Hazard Line for the entire mainland coast of India up to the maximum width of 7 km from shore line on the landward side.

### V.NATIONAL URBAN INFORMATION SYSTEM (NUIS)

Survey of India has undertaken the task of mapping of 152 towns on 1:2000 scales for core area and 1:10,000 scale for the peripheral areas under National Urban Information Scheme (NUIS), of Ministry of Urban Development.

**1:10,000 Scale Survey:** Satellite Imagery of 152 towns had been received and scanning was done for 151 towns for thematic mapping. Thematic mapping of 132 towns have been completed and final product of 100 towns has been sent to State Nodal Agency.

**1:2,000 Scale Surveys:** Aerial Photography of 133 towns received and scanned. Control points of 126 towns have been completed. 2D feature extraction of 94 towns has been completed. Ground survey of 4 towns, using total station had been completed. Data pertaining to 89 towns has been sent to State Nodal Agency.

## VI. SURVEY OF VILLAGES ABADI AND MAPPING WITH IMPROVISED TECHNOLOGY IN VILLAGE AREAS (SVAMITVA)

Survey of Villages Abadi & Mapping with Improved Technology in Village Areas (SVAMITVA) Scheme is a Central Sector scheme launched by Hon'ble Prime Minister of India on National Panchayat Day i.e 24th April 2020. The Ministry of Panchayati Raj (MoPR) is the Nodal Ministry for implementation of the scheme. In the States, the Revenue Department / Land Records Department will be the Nodal Department and shall carry out the scheme with support of State Panchayati Raj Department. Survey of India is the technology partner for implementation.

The scheme aims to provide '**record of rights**' to village household owners possessing houses in inhabited rural areas using Drone Surveying technology. Ortho Rectified Image (ORI) & Digital Elevation Models are generated in Lab from images captured by drone.

The scheme provides an integrated property validation solution for rural India. The demarcation of rural abadi areas would be done using Drone Surveying technology. This would provide the 'record of rights' to village household owners possessing houses in inhabited rural areas in villages which, in turn, would enable them to use their property as a financial asset for taking loans and other financial benefits from Bank. **Ortho Rectified Image (ORI) of 5 cm resolution** are generated from images captured by drone.

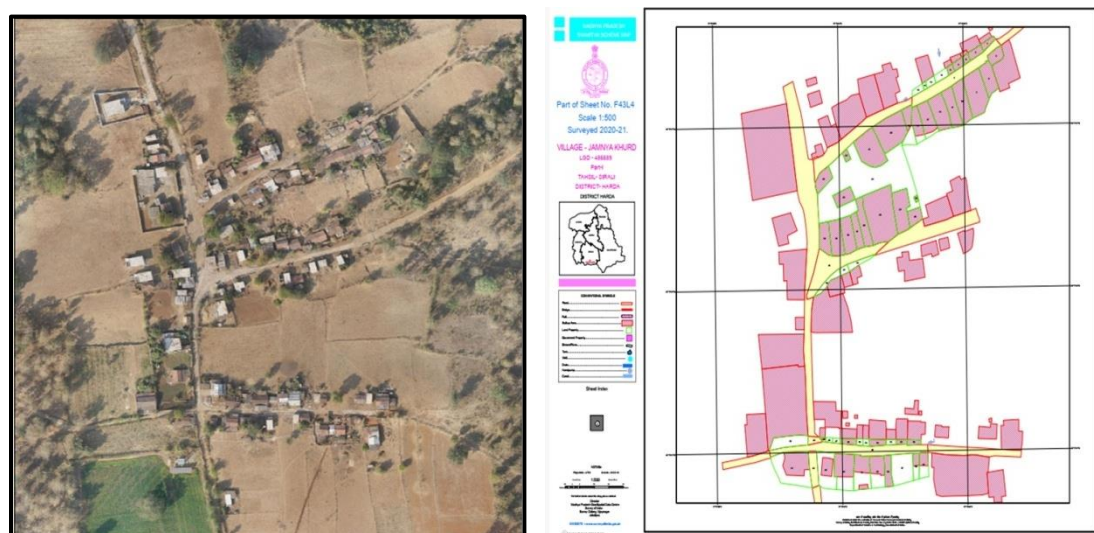


Fig 6: Ortho Rectified Image and feature extraction of abadi area

## VII. LARGE SCALE MAPPING (LSM)

Survey of India in collaboration with the State Government authorities is executing large scale mapping projects using Professional Survey Grade Unmanned Aerial Vehicle/ Drone, for generation of high-resolution Ortho-rectified imagery, digital elevation model & GIS enabled data. Currently LSM is being carried out in states/UTs of Haryana, Karnataka, Andhra Pradesh and Andaman & Nicobar Island. Ortho Rectified Image (ORI) of 5 cm resolution are generated from images captured by drone.



Fig 7: Ortho Rectified Image and feature extraction

## VIII. NATIONAL GEOSPATIAL KNOWLEDGE – BASED LAND SURVEY OF URBAN HABITATIONS (NAKSHA):



The **Department of Land Resources (DoLR)** has launched a pilot program titled "**NAKSHA**" — *NAtional geospatial Knowledge' based land Survey of urban HABitations* — for the creation of accurate and up-to-date **land records in urban**

**areas.** Survey of India, as the technical partner, will carry out high-resolution mapping using manned and unmanned systems. The project aims to modernize urban land records through advanced aerial survey technologies. The launch marks a significant step toward accurate, up-to-date urban land records and better urban governing.

### Key Features of the NAKSHA Programme:

Technologies Used :

- i. Nadir Camera for generation of ORI and DEM and creation of 2D dataset

- ii. Multi-angle Camera (1 nadir + 4 oblique) and data acquisition for generation of ORI, DEM, 3D reality Model and creation of 3D GIS dataset.
- iii. Multi-angle Camera with LiDAR Sensor for generation of ORI, DEM, 3D reality Model and creation of 3D GIS dataset.
- iv. Coverage: Pilot to be implemented in 128 cities across India. The project is in progress.
- v. Deliverables: ORI (5 cm resolution) and DEM ( 50 cm resolution).

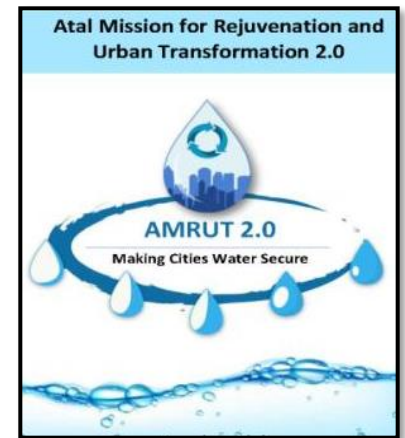
## IX. ATAL MISSION FOR REJUVENATION AND URBAN TRANSFORMATION 2.0 (AMRUT 2.0):

A Memorandum of Understanding (MoU) was signed between the Survey of India (SoI) and the Ministry of Housing and Urban Affairs (MoHUA) for the execution of drone-based surveys under the AMRUT 2.0 GIS Sub-Scheme.

The objective of this collaboration is to generate large-scale urban geospatial data using professional survey-grade Drones/UAVs for small and medium towns with populations ranging from 50,000 to 99,000. This initiative supports evidence-based urban planning and contributes to the creation of smart, resilient, and sustainable towns in India.

### Key Highlights:

- Technology Used: High-precision survey-grade drones/UAVs
- Deliverables : ORI (5 cm resolution) and DEM ( 50 cm resolution)
- Purpose: Creation of detailed urban geospatial datasets for planning, infrastructure development, and governance



## 5. OTHER MAPS

### I. STATE MAPS

The geographical map of a state depicts the state boundary, district boundaries, and sub-divisional boundaries, Major cities, towns, rivers, lakes, important monuments along with important transport routes like national and state highways and railways, important rivers, lakes for spatial reference. First Edition of State map of Goa (Konkani) was published in 2025 on 1:150,000 scale. Also First Edition of State map of Maharashtra & Goa (English) was published in 2025 on 1:1,000,000 scale.

## II.OTHER GEOGRAPHICAL MAPS

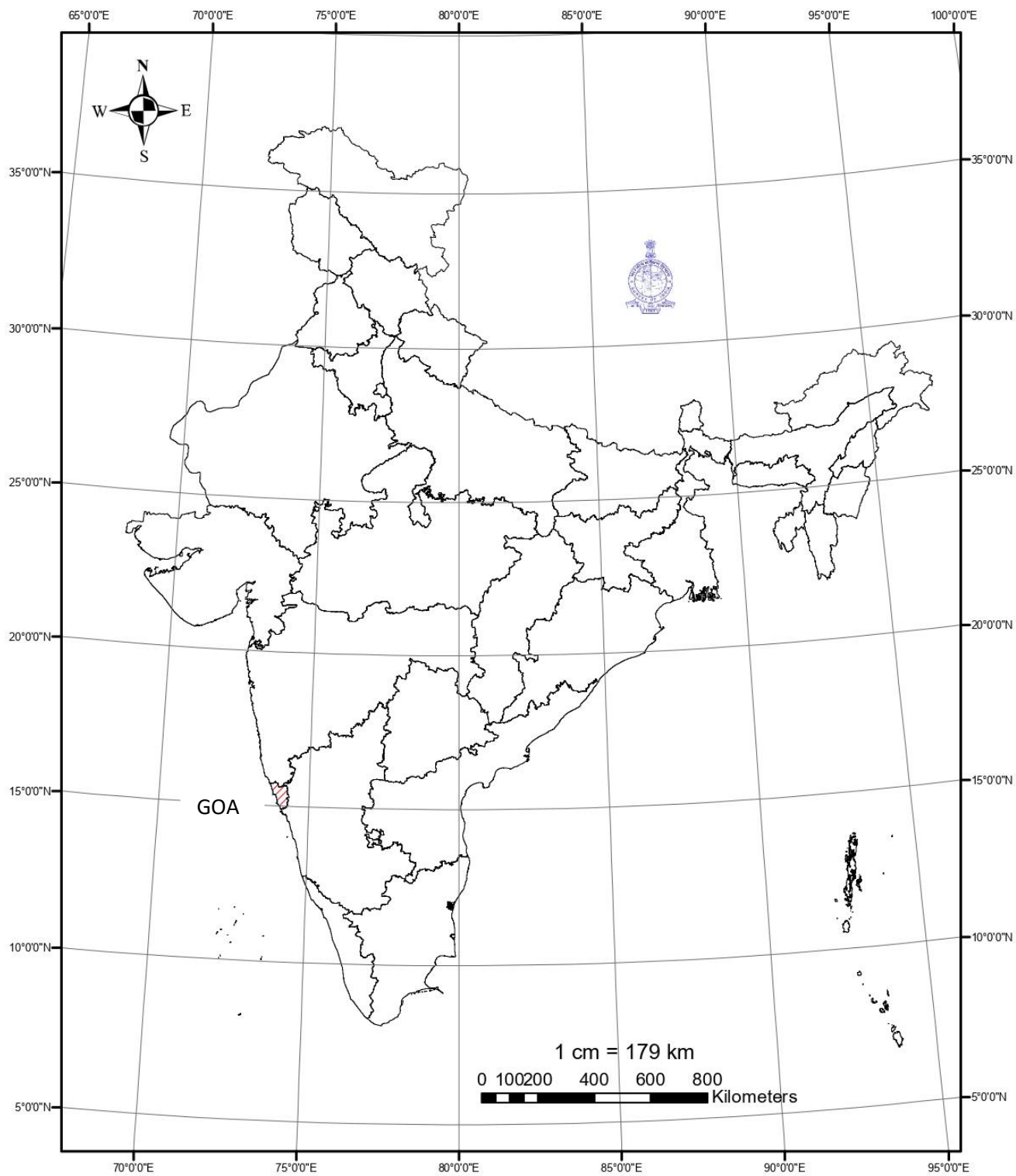
These are small-scale maps covering larger area and published with themes for specific purposes. Various geographical maps available in vector format (Shape file)& PDF format are as follows:

- i. **Railway Map of India - Scale 1:3.5M:** This dataset provides comprehensive information about India's railway network. It includes data showing railway lines, stations, and important junctions across the country.
- ii. **Political Map of India - Scale 1:4M:** This dataset offers detailed information on India's political boundaries. It includes maps that delineate state and union territory borders, major cities, and administrative divisions.
- iii. **Road Map of India - Scale 1:2.5M:** This dataset features an extensive road network of India. It includes data highlighting national and state highways, important routes, and major cities.
- iv. **India & Adjacent Countries - Scale 1:2.5M:** This dataset includes detailed maps of India and its neighboring countries. It provides information on the road networks, major cities, and international borders.
- v. **Physical Map of India - Scale 1:4.5M:** This dataset showcases India's physical geography. It includes maps displaying topographical features such as mountains, rivers, plains, and plateaus.
- vi. **World Map - Scale 1:20M:** This dataset provides a global perspective with detailed world maps. It includes information on continents, countries, and major geographical features.

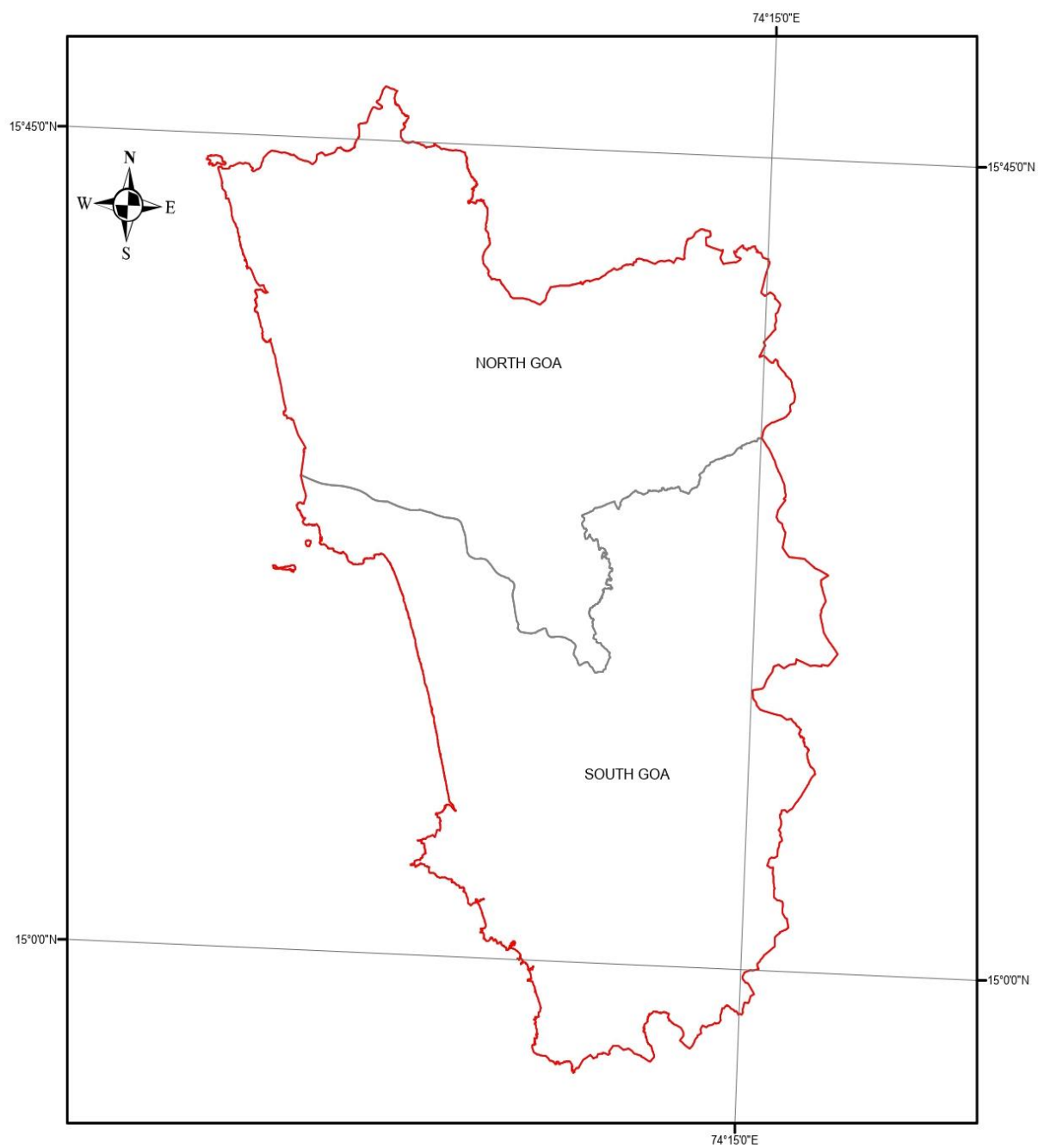
*Note: All area measurements presented in this document are derived from digital data (shape files) projected using the Lambert Conformal Conic (LCC) projection based on the World Geodetic System 1984 (WGS 84) datum.*

# Digital Data Register

State:- Goa

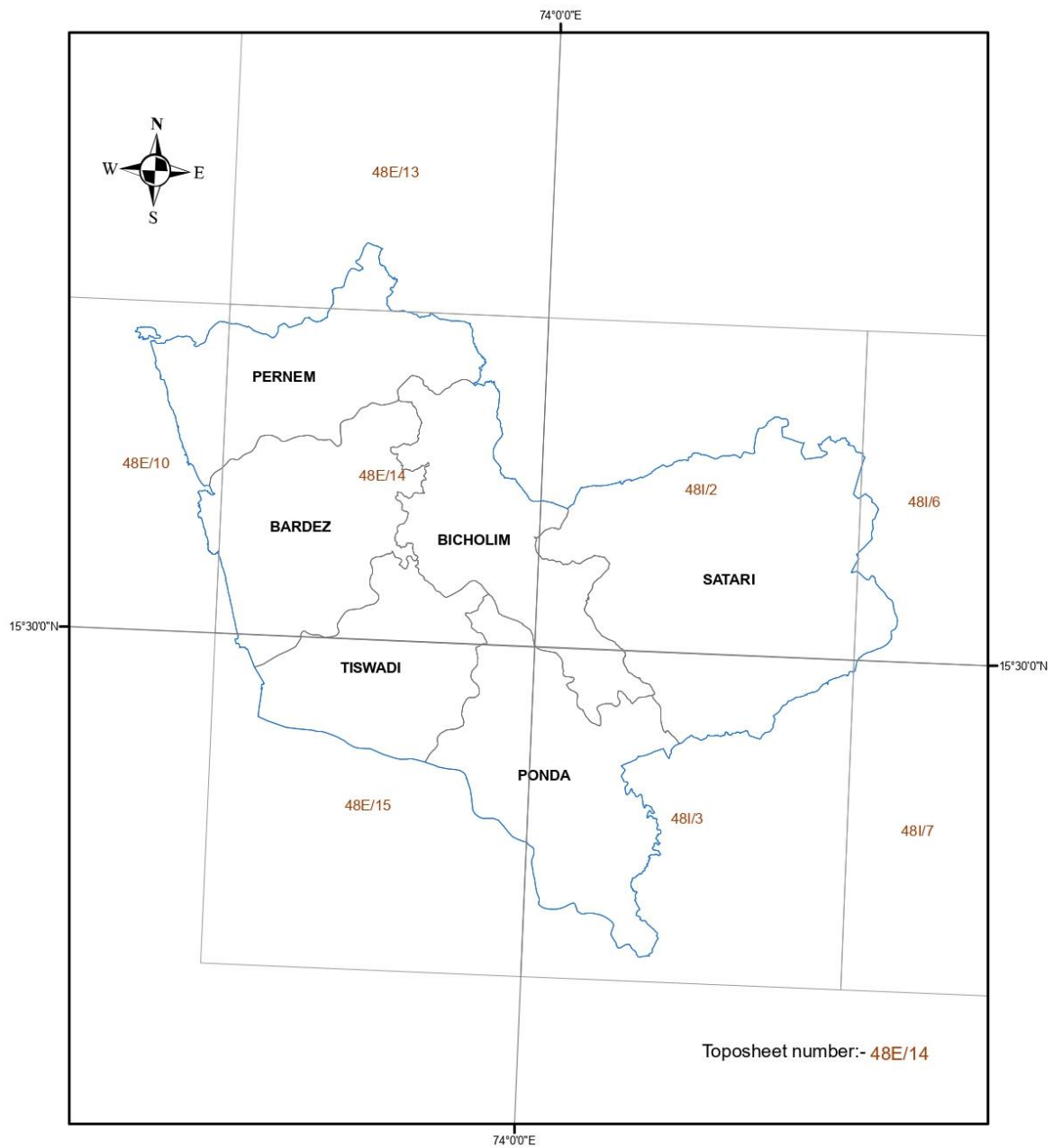


## State:- Goa



| SUMMARY: GOA<br>Area: 3634.48 sq. km |                |                    |           |                                         |            |            |             |        |                  |                  |                              |
|--------------------------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|------------------|------------------------------|
| Sl. No                               | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                  | Remarks                      |
|                                      |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format      |                              |
| 1                                    | OSM            | UTM/WGS84          | 2003-2009 | 3634.48                                 | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp, .dgn |                              |
| 2                                    | DSM            | LCC/WGS84          | 2003-2009 | 3634.48                                 | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .dgn             | Only for Defence             |
| 4                                    | ABDB           | LCC/WGS84          | 2024-2025 | 3634.48                                 | -          | -          | -           | 1:50K  | -                | .shp             |                              |
| 5                                    | DEM            | UTM/WGS84          | 2003-2009 | 3634.48                                 | -          | 10 m       | .tiff       | -      | -                | -                |                              |
| 6                                    | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -                |                              |
| 7                                    | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 3626.80                                 | 25 cm      | 1 m        | .tiff       | -      | -                | -                |                              |
| 8                                    | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -                |                              |
| 9                                    | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -                |                              |
| 10                                   | ICZM           | UTM/WGS84          | 2011-2012 | 993.36                                  | 10 cm      | 0.5 m      | .tiff       | 1:10K  | 0.5m             | .gdb             |                              |
| 11                                   | NUIS           | UTM/WGS84          | 2008-2011 | 5 Towns                                 | 15 cm      | 2 m        | .tiff, .img | 1:2K   | 2m               | .dgn,.gdb        |                              |
| 12                                   | SVAMITVA       | UTM/WGS84          | 2021-2025 | 411 Villages                            | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb             | *DSM:- Digital Surface Model |
| 13                                   | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -                |                              |
| 14                                   | NAKSHA         | UTM/WGS84          | Ongoing   | 3 Towns                                 | -          | -          | -           | -      | -                | -                |                              |
| 15                                   | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -                |                              |

## DISTRICT: NORTH GOA



| SUB DISTRICT-BARDEZ<br>Area: 254.16 sq. km |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|--------------------------------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Sl. No                                     | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                                            |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                                          | OSM            | UTM/WGS84          | 2003-2009 | 254.16                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                                          | DSM            | LCC/WGS84          | 2003-2009 | 254.16                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                                          | ABDB           | LCC/WGS84          | 2024-2025 | 254.16                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4                                          | DEM            | UTM/WGS84          | 2003-2009 | 254.16                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                                          | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                                          | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 253.95                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                                          | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                                          | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                                          | ICZM           | UTM/WGS84          | 2011-2012 | 147.9                                   | 10 cm      | 0.5 m      | .tiff       | 1:10K  | 0.5m             | .gdb            |                              |
| 10                                         | NUIS           | UTM/WGS84          | 2008-2011 | 1 Town                                  | 15 cm      | 2 m        | .tiff, .img | 1:2 K  | 2m               | .dgn,.gdb       | MAPUSA                       |
| 11                                         | SVAMITVA       | UTM/WGS84          | 2021-2025 | 43 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                                         | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                                         | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14                                         | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

| SUB DISTRICT-BICHOLIM<br>Area: 232.08 sq. km |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|----------------------------------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Sl. No                                       | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                                              |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                                            | OSM            | UTM/WGS84          | 2003-2009 | 232.08                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                                            | DSM            | LCC/WGS84          | 2003-2009 | 232.08                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                                            | ABDB           | LCC/WGS84          | 2024-2025 | 232.08                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4                                            | DEM            | UTM/WGS84          | 2003-2009 | 232.08                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                                            | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                                            | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 231.78                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                                            | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                                            | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                                            | ICZM           | UTM/WGS84          | 2011-2012 | 0.33                                    | 10 cm      | 0.5 m      | .tiff       | 1:10 K | 0.5m             | .gdb            |                              |
| 10                                           | NUIS           | UTM/WGS84          | 2008-2011 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 11                                           | SVAMITVA       | UTM/WGS84          | 2021-2025 | 28 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                                           | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                                           | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14                                           | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

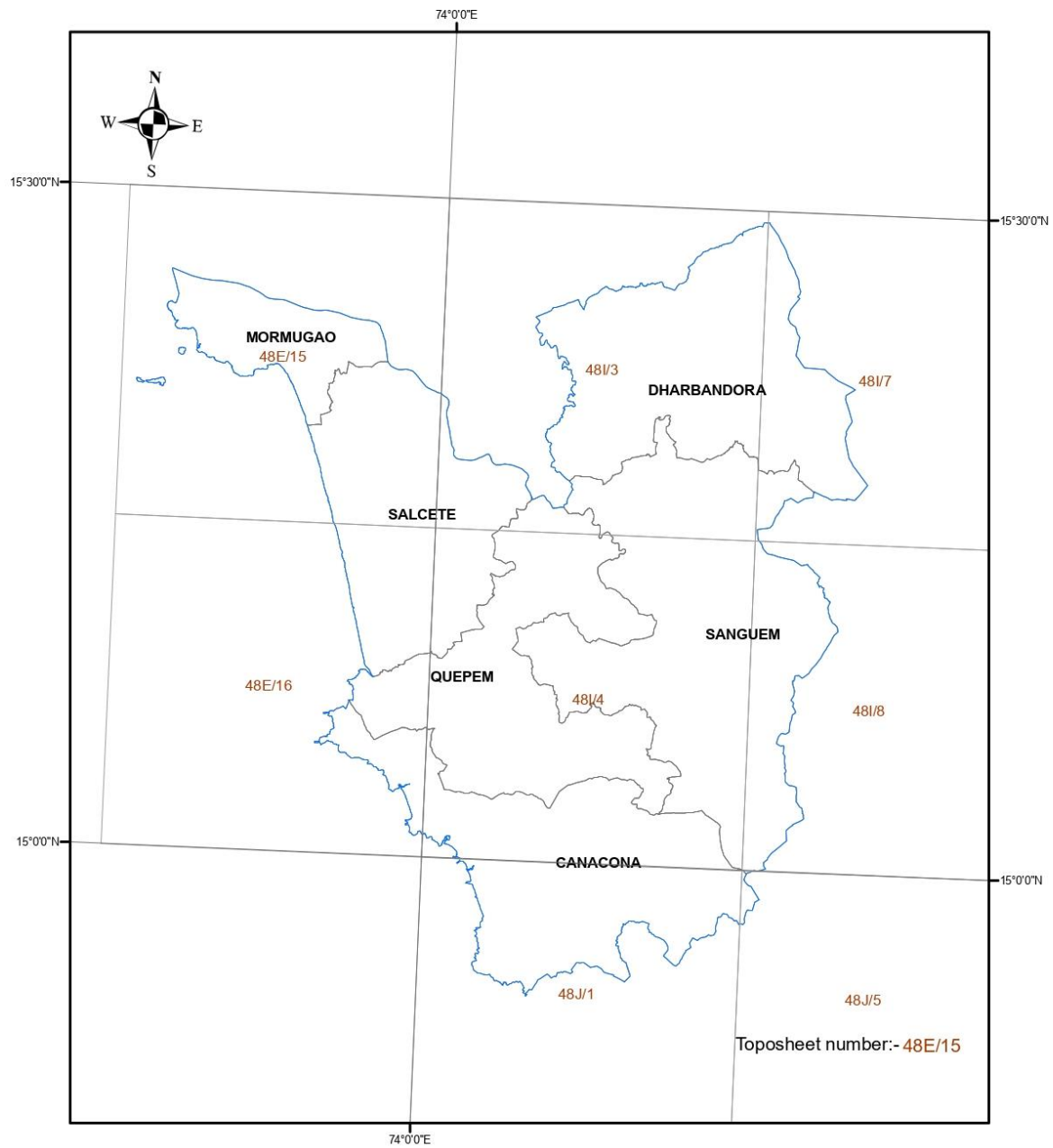
| SUB DISTRICT-PERNEM<br>Area: 242.15 sq. km |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|--------------------------------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Sl. No                                     | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                                            |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                                          | OSM            | UTM/WGS84          | 2003-2009 | 242.15                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                                          | DSM            | LCC/WGS84          | 2003-2009 | 242.15                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                                          | ABDB           | LCC/WGS84          | 2024-2025 | 242.15                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4                                          | DEM            | UTM/WGS84          | 2003-2009 | 242.15                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                                          | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                                          | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 240.19                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                                          | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                                          | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                                          | ICZM           | UTM/WGS84          | 2011-2012 | 87.92                                   | 10 cm      | 0.5 m      | .tiff       | 1:10 K | 0.5m             | .gdb            |                              |
| 10                                         | NUIS           | UTM/WGS84          | 2008-2011 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 11                                         | SVAMITVA       | UTM/WGS84          | 2021-2025 | 27 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                                         | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                                         | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14                                         | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

| SUB DISTRICT-PONDA<br>Area: 286.67 sq. km |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|-------------------------------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Sl. No                                    | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                                           |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                                         | OSM            | UTM/WGS84          | 2003-2009 | 286.67                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                                         | DSM            | LCC/WGS84          | 2003-2009 | 286.67                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                                         | ABDB           | LCC/WGS84          | 2024-2025 | 286.67                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4                                         | DEM            | UTM/WGS84          | 2003-2009 | 286.67                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                                         | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                                         | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 286.67                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                                         | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                                         | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                                         | ICZM           | UTM/WGS84          | 2011-2012 | 51.76                                   | 10 cm      | 0.5 m      | .tiff       | 1:10 K | 0.5m             | .gdb            |                              |
| 10                                        | NUIS           | UTM/WGS84          | 2008-2011 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 11                                        | SVAMITVA       | UTM/WGS84          | 2021-2025 | 31 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                                        | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                                        | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14                                        | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

| SUB DISTRICT-SATARI<br>Area: 490.27 sq. km |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|--------------------------------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Sl. No                                     | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                                            |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                                          | OSM            | UTM/WGS84          | 2003-2009 | 490.27                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                                          | DSM            | LCC/WGS84          | 2003-2009 | 490.27                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                                          | ABDB           | LCC/WGS84          | 2024-2025 | 490.27                                  | -          | -          |             | 1:50K  | -                | .shp            |                              |
| 4                                          | DEM            | UTM/WGS84          | 2003-2009 | 490.27                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                                          | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                                          | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 489.76                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                                          | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                                          | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                                          | ICZM           | UTM/WGS84          | 2011-2012 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 10                                         | NUIS           | UTM/WGS84          | 2008-2011 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 11                                         | SVAMITVA       | UTM/WGS84          | 2021-2025 | 81 Villages                             | 5 cm       | -          | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                                         | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                                         | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14                                         | AMRUT          | UTM/WGS84          | Ongoing   | -                                       |            | -          | -           | -      | -                | -               |                              |

| SUB DISTRICT-TISWADI |                |                    |           |                                         |            |            |             |        |                  |                 |                                   |
|----------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|-----------------------------------|
| Area: 198.76 sq. km  |                |                    |           |                                         |            |            |             |        |                  |                 |                                   |
| Sl. No               | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                           |
|                      |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                                   |
| 1                    | OSM            | UTM/WGS84          | 2003-2009 | 198.76                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                                   |
| 2                    | DSM            | LCC/WGS84          | 2003-2009 | 198.76                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .dgn            | Only for Defence                  |
| 3                    | ABDB           | LCC/WGS84          | 2024-2025 | 198.76                                  | -          | -          |             | 1:50K  | -                | .shp            |                                   |
| 4                    | DEM            | UTM/WGS84          | 2003-2009 | 198.76                                  | -          | 10 m       | .tiff       | -      | -                | -               |                                   |
| 5                    | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                                   |
| 6                    | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 198.76                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                                   |
| 7                    | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                                   |
| 8                    | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                                   |
| 9                    | ICZM           | UTM/WGS84          | 2011-2012 | 156.93                                  | 10 cm      | 0.5 m      | .tiff       | 1:10 K | 0.5m             | .gdb            |                                   |
| 10                   | NUIS           | UTM/WGS84          | 2008-2011 | -                                       | -          | -          | -           | -      | -                | -               |                                   |
| 11                   | SVAMITVA       | UTM/WGS84          | 2021-2025 | 38 Villages                             | 5 cm       | -          | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model      |
| 12                   | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                                   |
| 13                   | NAKSHA         | UTM/WGS84          | Ongoing   | 1 Town                                  | 5 cm       | 50 cm      | .tiff       | 1:500  | -                | .gdb            | Corporation of the City of Panaji |
| 14                   | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                                   |

## DISTRICT: SOUTH GOA



# SUB DISTRICT-CANACONA

Area: 349.94 sq. km

| Sl. No | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|--------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
|        |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1      | OSM            | UTM/WGS84          | 2003-2009 | 349.94                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2      | DSM            | LCC/WGS84          | 2003-2009 | 349.94                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3      | ABDB           | LCC/WGS84          | 2024-2025 | 349.94                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4      | DEM            | UTM/WGS84          | 2003-2009 | 349.94                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5      | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6      | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 347.8                                   | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7      | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8      | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9      | ICZM           | UTM/WGS84          | 2011-2012 | 197.96                                  | 10 cm      | 0.5 m      | .tiff       | 1:10 K | 0.5m             | .gdb            |                              |
| 10     | NUIS           | UTM/WGS84          | 2008-2011 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 11     | SVAMITVA       | UTM/WGS84          | 2021-2025 | 10 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12     | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13     | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14     | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

| SUB DISTRICT-DHARBANDORA |                |                    |           |                                         |            |            |             |        |                  |                |                              |
|--------------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|----------------|------------------------------|
| Area: 365.25 sq. km      |                |                    |           |                                         |            |            |             |        |                  |                |                              |
| Sl. No                   | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                | Remarks                      |
|                          |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format    |                              |
| 1                        | OSM            | UTM/WGS84          | 2003-2009 | 365.25                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp.dgn |                              |
| 2                        | DSM            | LCC/WGS84          | 2003-2009 | 365.25                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .dgn           | Only for Defence             |
| 3                        | ABDB           | LCC/WGS84          | 2024-2025 | 365.25                                  | -          | -          | -           | 1:50K  | -                | .shp           |                              |
| 4                        | DEM            | UTM/WGS84          | 2003-2009 | 365.25                                  | -          | 10 m       | .tiff       | -      | -                | -              |                              |
| 5                        | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -              |                              |
| 6                        | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 365.18                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -              |                              |
| 7                        | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -              |                              |
| 8                        | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -              |                              |
| 9                        | ICZM           | UTM/WGS84          | 2011-2012 | -                                       | -          | -          | -           | -      | -                | -              |                              |
| 10                       | NUIS           | UTM/WGS84          | 2008-2011 | -                                       | -          | -          | -           | -      | -                | -              |                              |
| 11                       | SVAMITVA       | UTM/WGS84          | 2021-2025 | 16 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb           | *DSM:- Digital Surface Model |
| 12                       | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -              |                              |
| 13                       | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -              |                              |
| 14                       | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -              |                              |

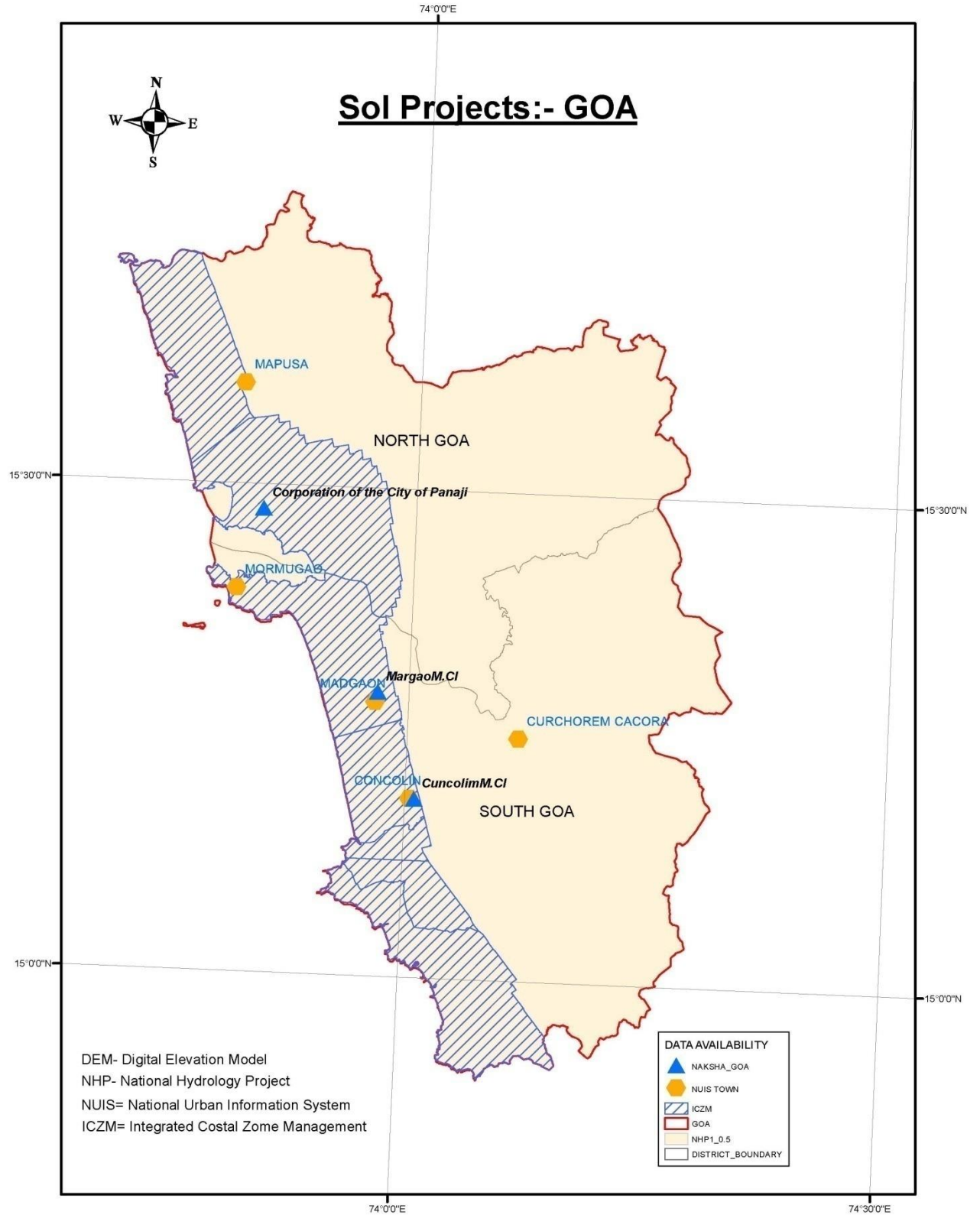
| SUB DISTRICT-MORMUGAO |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|-----------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Area: 107.19 sq. km   |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
| Sl. No                | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                       |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                     | OSM            | UTM/WGS84          | 2003-2009 | 107.19                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                     | DSM            | LCC/WGS84          | 2003-2009 | 107.19                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                     | ABDB           | LCC/WGS84          | 2024-2025 | 107.19                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4                     | DEM            | UTM/WGS84          | 2003-2009 | 107.19                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                     | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                     | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 105.29                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                     | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                     | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                     | ICZM           | UTM/WGS84          | 2011-2012 | 78.03                                   | 10 cm      | 0.5 m      | .tiff       | 1:10 K | 0.5m             | .gdb            |                              |
| 10                    | NUIS           | UTM/WGS84          | 2008-2011 | 1 Town                                  | 15 cm      | 2 m        | .tiff, .img | 1:2 K  | 2m               | .dgn,.gdb       | MORMUGAO                     |
| 11                    | SVAMITVA       | UTM/WGS84          | 2021-2025 | 14 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                    | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                    | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14                    | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

| SUB DISTRICT-QUEPEM<br>Area: 316.97 sq. km |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|--------------------------------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Sl. No                                     | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                                            |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                                          | OSM            | UTM/WGS84          | 2003-2009 | 316.97                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                                          | DSM            | LCC/WGS84          | 2003-2009 | 316.97                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                                          | ABDB           | LCC/WGS84          | 2024-2025 | 316.97                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4                                          | DEM            | UTM/WGS84          | 2003-2009 | 316.97                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                                          | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                                          | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 316.94                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                                          | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                                          | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                                          | ICZM           | UTM/WGS84          | 2011-2012 | 84.65                                   | 10 cm      | 0.5 m      | .tiff       | 1:10 K | 0.5m             | .gdb            |                              |
| 10                                         | NUIS           | UTM/WGS84          | 2008-2011 | 1 Town                                  | 50 cm      | -          | .tiff, .img | 1:2 K  | 2m               | .dgn,.gdb       | CURCHOREM CACORA             |
| 11                                         | SVAMITVA       | UTM/WGS84          | 2021-2025 | 40 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                                         | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                                         | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14                                         | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

| SUB DISTRICT-SALCETE |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|----------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Area: 291.71 sq. km  |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
| Sl. No               | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                      |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                    | OSM            | UTM/WGS84          | 2003-2009 | 291.71                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                    | DSM            | LCC/WGS84          | 2003-2009 | 291.71                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                    | ABDB           | LCC/WGS84          | 2024-2025 | 291.71                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4                    | DEM            | UTM/WGS84          | 2003-2009 | 291.71                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                    | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                    | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 291.69                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                    | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                    | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                    | ICZM           | UTM/WGS84          | 2011-2012 | 187.84                                  | 10 cm      | 0.5 m      | .tiff       | 1:10 K | 0.5m             | .gdb            |                              |
| 10                   | NUIS           | UTM/WGS84          | 2008-2011 | 2 Towns                                 | 50 cm      | -          | .tiff, .img | 1:2 K  | 2m               | .dgn,.gdb       | CONCOLIN, MADGAON            |
| 11                   | SVAMITVA       | UTM/WGS84          | 2021-2025 | 49 Villages                             | 5 cm       | *50 cm     | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                   | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                   | NAKSHA         | UTM/WGS84          | Ongoing   | 2 Towns                                 | 5 cm       | 50 cm      | .tiff       | 1:500  | -                | .gdb            | CONCOLIN, MADGAON            |
| 14                   | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

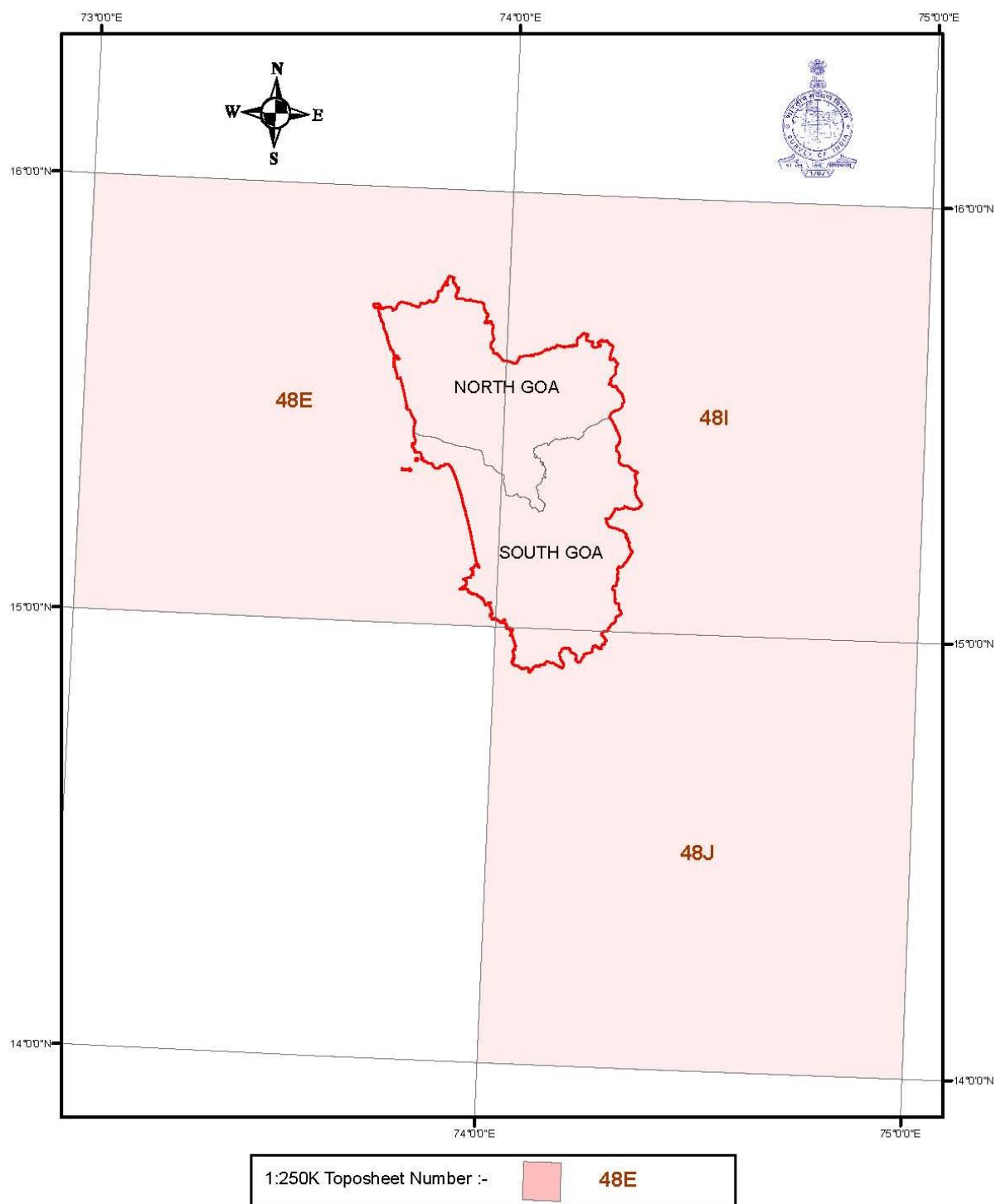
| SUB DISTRICT-SANGUEM |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
|----------------------|----------------|--------------------|-----------|-----------------------------------------|------------|------------|-------------|--------|------------------|-----------------|------------------------------|
| Area: 499.28 sq. km  |                |                    |           |                                         |            |            |             |        |                  |                 |                              |
| Sl. No               | Project Name   | Projection & Datum | Vintage   | Area(In Sq km)/No. of Towns or villages | Raster     |            |             | Vector |                  |                 | Remarks                      |
|                      |                |                    |           |                                         | ORI (Res.) | DEM (Res.) | Data Format | Scale  | Contour Interval | Data Format     |                              |
| 1                    | OSM            | UTM/WGS84          | 2003-2009 | 499.28                                  | -          | -          | .tiff, .pdf | 1:50K  | 10/20m           | .gdb, .shp .dgn |                              |
| 2                    | DSM            | LCC/WGS84          | 2003-2009 | 499.28                                  | -          | -          | .tiff .pdf  | 1:50K  | 10/20m           | .dgn            | Only for Defence             |
| 3                    | ABDB           | LCC/WGS84          | 2024-2025 | 499.28                                  | -          | -          | -           | 1:50K  | -                | .shp            |                              |
| 4                    | DEM            | UTM/WGS84          | 2003-2009 | 499.28                                  | -          | 10 m       | .tiff       | -      | -                | -               |                              |
| 5                    | NHP (3-5m DEM) | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 6                    | NHP (0.5m DEM) | UTM/WGS84          | 2017-2021 | 498.72                                  | 25 cm      | 1 m        | .tiff       | -      | -                | -               |                              |
| 7                    | NMCG           | UTM/WGS84          | 2017-2021 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 8                    | CMPDI          | UTM/WGS84          | 2012-2019 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 9                    | ICZM           | UTM/WGS84          | 2011-2012 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 10                   | NUIS           | UTM/WGS84          | 2008-2011 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 11                   | SVAMITVA       | UTM/WGS84          | 2021-2025 | 34 Villages                             | 5 cm       | -          | .tiff       | 1:500  | -                | .gdb            | *DSM:- Digital Surface Model |
| 12                   | LSM            | UTM/WGS84          | 2019-2024 | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 13                   | NAKSHA         | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |
| 14                   | AMRUT          | UTM/WGS84          | Ongoing   | -                                       | -          | -          | -           | -      | -                | -               |                              |

# SOI PROJECTS IN GOA



## OTHER MAPS OF GOA

State:- Goa





# For more details reach us on :



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Dehradun- 248001



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