



भारतीय सर्वेक्षण विभाग
SURVEY OF INDIA
विज्ञान और प्रौद्योगिकी विभाग
Ministry of Science & Technology

User Guide
For
Online Maps Portal of Survey of India
**([https://
onlinemaps.surveyofindia.gov.in/](https://onlinemaps.surveyofindia.gov.in/))**

In association with



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1. Introduction

Survey of India , under the Department of Science and technology, Government of India has been engaged in production and maintenance of various types of Topographical, Geographical and many other public series maps on various scales covering India, for the defence and development of the nation. Besides, being grouped under scientific surveys the Government of India business rules, it has also been called upon extensively to deploy its expertise in field of geodetic and geophysical surveys, study of seismicity and seismotectonics, environmental and disaster management, participation in Indian scientific expeditions to Antarctica, Glaciology programs and other projects related to digital cartography and digital photogrammetric etc. to provide basic data to science and technology requirements. This Portal provides following digital products to the Citizen of India.

1. Topographical Map Full Sheet – Scale 1:250K – This Dataset is of Open Series Maps on scale 1:250K These Maps Contain all the Topographic Layers like Adm Boundaries, Communications (Roads and Railways), Hydrology, Hypsography and Vegetation. OSMs are on UTM Projection and WGS 84 datum.
2. Topographical Map Full Sheet – Scale 1: 50K – This Dataset is of Open Series Map on scale 1:50K These Maps Contain all the Topographic Layers like Adm Boundaries, Communications (Roads and Railways), Hydrology, Hypsography and Vegetation. OSMs are on UTM Projection and WGS 84 datum.

Digital Vector Database Entire Country- Scale 1:1M- This dataset is a database of Administrative boundaries, Drainage, Transportation Layers (Roads and Railways) and Population Centres of entire Country.

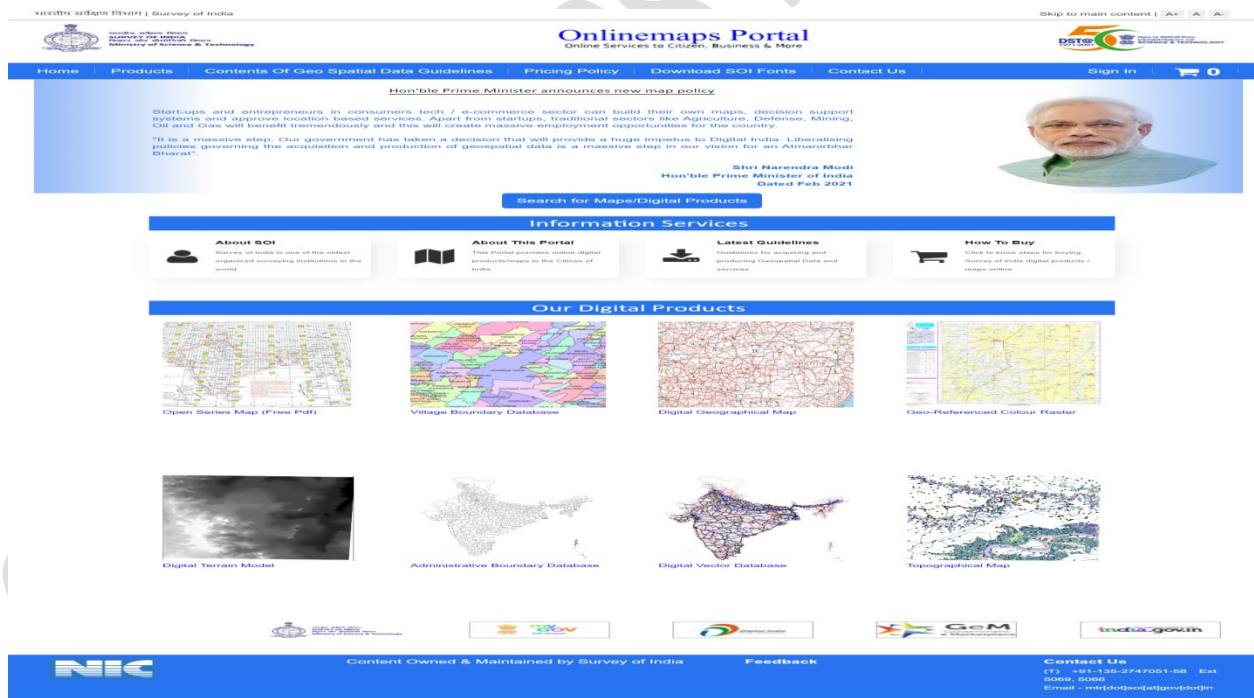
3. Digital vector Database Small State- Scale 1:1M- This dataset is a database of Administrative boundaries, Drainage, Transportation Layers (Roads and Railways) and Population Centres of a Small State.

4. Digital vector Database Large State- Scale 1:1M- This dataset is a database of Administrative boundaries, Drainage, Transportation Layers (Roads and Railways) and Population Centres of a large State.
5. Administrative Boundary Database for entire country up to Taluk level with HQ- Scale 1:1M –This dataset is a database of Administrative boundaries up to Taluk level (having State Boundary, District Boundary and Taluk Boundary) of entire country.
6. Administrative Boundary Database for entire country up to District level with HQ- Scale 1:1M –This dataset is a database of Administrative boundaries up to District level (having State Boundary and District Boundary) of entire country.
7. Administrative Boundary Database for state up to Taluk level with HQ- Scale 1:1M –This dataset is a database of Administrative boundaries up to Taluk level (having State Boundary, District Boundary and Taluk Boundary) of a State.
8. Administrative Boundary Database for state up to District level with HQ- Scale 1:1M –This dataset is a database of Administrative boundaries up to District level (having State Boundary and District Boundary) of a State.
9. Field verified Village Boundary Database- Scale 1:1M - This dataset is a database of Administrative boundaries up to village level (having State Boundary, District Boundary, Taluk boundary and Village Boundary) of a State up to village level of a State.
10. Digital Terrain Model – Scale 1:50K- This dataset is the Digital Elevation Model of 10m resolution of entire country (Sheet Wise) generated from contours of 1:50K data.
11. Digital Geographical Map Railway Map of India- Scale 1:3.5M- This dataset is database of Railway Map of India.
12. Digital Geographical Map Political Map of India- Scale 1:4M-This dataset is database of Political Map of India.
13. Digital Geographical Map Road Map of India- Scale 1:2.5M -This dataset is database of Road Map of India
14. Digital Geographical Map India & Adjacent Countries- Scale 1:2.5M - This dataset is database of Road Map of India.
15. Digital Geographical Map Physical Map of India- Scale 1:4.5M - This dataset is database of Physical Map of India.

- 16. Digital Geographical Map World Map Scale 1:20M - This dataset is database of World Map Digital Geographical Map World Map- This dataset is database of World Map.
- 17. Georeferenced Color Raster Map- Scale 1:250K – This dataset is a Georeferenced Tiff of Open series Map on 1:250K scale.
- 18. Georeferenced Color Raster Map- Scale 1:50K – This dataset is a Georeferenced Tiff of Open series Map on 1:50K scale.
- 19. Open Series Map Scale - 1:50K

2. Home Page

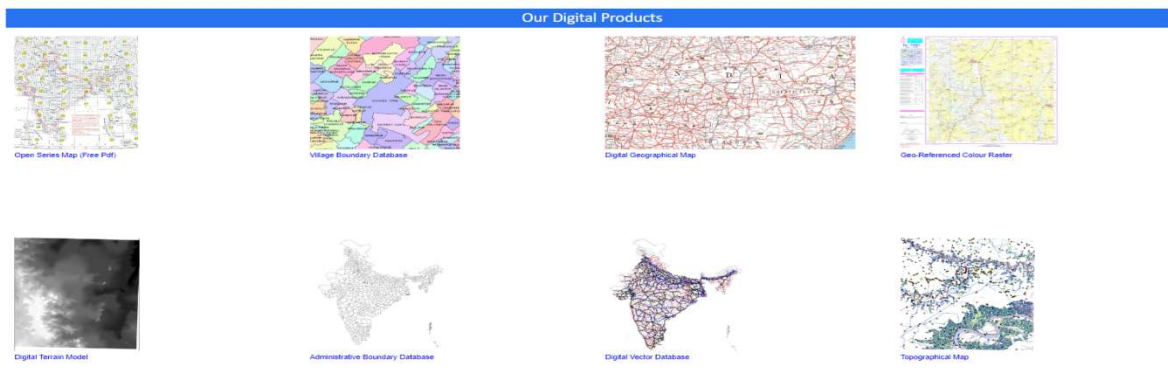
- Open the web browser and write the URL <https://onlinemaps.surveyofindia.gov.in/> and click enter.
- You will reach at the home page of Online maps portal.



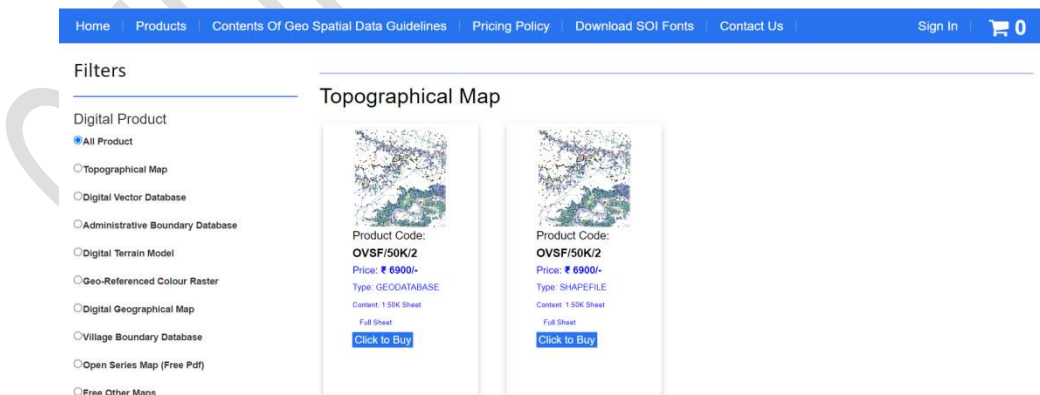
2.1. Information Services - Information services regarding details in Online maps portal.



2.2. Our Digital Products- Show all product category image and click on this category image, it will show this category product.



3. Product – Click on Navbar home page product Show all category products and use side filter category wise show products.



4. Contents of Geo Spatial Data Guidelines –

1. Click on Navbar home page Contents of Geo Spatial Data Guidelines

1. *Preamble*

1. Location information is an integral part of the modern digital ecosystem and critical for unlocking economic, social and environmental opportunities for sustainable growth and development of the country. It is critical to the success of modern industry offering location-based services such as e-Commerce, delivery and logistics and urban transport. It is also essential for more traditional sectors of the economy such as agriculture, construction and development and mines and minerals.
2. Geospatial data which includes location information are data about the natural or man-made, physical or imaginary features whether above the ground or below, boundaries, points of interest, natural phenomena, mobility data, weather patterns, statistical information, etc. There has been immense progress over the years in technology for capture of geospatial data through ground-based survey techniques, photogrammetry using manned/unmanned aerial vehicles, terrestrial vehicle mounted Mobile Mapping System, LIDAR, RADAR Interferometry, satellite-based remote sensing, mobile phone sensors and other techniques.
3. The Government of India acknowledges that the availability of comprehensive, highly accurate, granular and constantly updated representation of Geospatial Data will significantly benefit diverse sectors of the economy and will significantly boost innovation in the country and greatly enhance the preparedness of the country for emergency response.

2. *Atmanirbhar Bharat*

3. The availability of data and modern mapping technologies to Indian companies is also crucial for achieving India's policy aim of Atmanirbhar Bharat and the vision for a five trillion-dollar economy. India presently relies heavily on foreign resources for mapping technologies and services. Liberalisation of the mapping industry and democratization of existing datasets will spur domestic innovation and enable Indian companies to compete in the global mapping ecosystem by leveraging modern geospatial technologies. Locally available and locally relevant Maps and Geospatial

Data would also help in improved planning and management of resources and better serve the specific needs of the Indian population.

4. Blue economy in India is another sunrise issue for development experts where Geospatial Data is expected to play a potentially important role. Fisheries, deep sea mining, and offshore oil and gas make up a large section of India's blue economy. The Sagarmala project, launched by the Government of India, is the strategic initiative for port-led development. India will soon launch an ambitious 'Deep Ocean Mission' that envisages exploration of minerals, energy and marine diversity of the underwater world, a vast part of which still remains unexplored. Bathymetric Geospatial Data would be crucial for attainment of a flourishing and vibrant blue economy for the country and would require active participation of private sector in acquisition and their use apart from traditional agencies like Navy, etc.
5. With the advent of publicly available geospatial services, a lot of Geospatial Data that used to be in restricted zone are freely and commonly available now and some of the policies/guidelines that used to regulate such information have been rendered obsolete and redundant. What is readily available globally does not need to be regulated.

4. *Definitions:*

6. (a) Positional data: Latitude, longitude and elevation/depth of a point or its x, y & z co-ordinates in the territory of the Republic of India.
2. (b) Attribute data: Any data that when associated with Positional Data gives any additional meaning to it.
3. (c) Geospatial Data: Positional data with or without attribute data tagged, whether in the form of images, videos, vector, voxel and/or raster datasets or any other type of geospatial dataset in digitized or non-digitized form or web-services.
4. (d) Map: Symbolic representation of real-world objects, regions or themes on a given scale which was generally published in paper form but now also available as web-map-service.
5. (e) Geospatial Technology: Any technology including but not limited to Aerial / UAV Photogrammetry, Aerial / UAV LIDAR, drones, Radar Interferometry, street view or by other means of ground survey, satellite-based remote sensing techniques, AI, underwater mapping, and others.

6. (f) Indian Entity: Any Indian citizen, Government entities, Societies registered under applicable statutes, statutory bodies, Autonomous Institutions of the Government, or any Indian company or Indian LLP owned by resident Indian citizens or any Indian company or Indian LLP controlled by resident Indian citizens (as defined in the Explanation to Rule 23 of the Foreign Exchange Management (Non-Debt Instrument) Rules, 2019).
5. *Liberalisation of acquisition and production of geospatial data and geospatial data services including maps:*
7. Accordingly, the following guidelines on acquiring and producing geospatial data and geospatial data services are issued in supersession of anything to the contrary on the subject issued from time to time by Department of Science and Technology (DST), Ministry of Defense (MoD) and/or any other Department of Government of India vide their various official memoranda and guidelines. The Guidelines issued by DST on Geospatial Data and Maps would be the single point reference on the subject.
 - i. These guidelines will be applicable to Geospatial Data, Maps, products, solutions and services offered by government agencies, autonomous bodies, academic and research institutions, private organizations, Non- Governmental Organizations and individuals.
 - ii. (1) Save as specifically provided for under these guidelines, there shall be no requirement for prior approval, security clearance, license or any other restrictions on the collection, generation, preparation, dissemination, storage, publication, updating and/or digitization of Geospatial Data and Maps within the territory of India. Individuals, companies, organizations, and Government agencies, shall be free to process the acquired Geospatial Data, build applications and develop solutions in relation to such data and use such data products, applications, solutions, etc by way of selling, distributing, sharing, swapping, disseminating, publishing, deprecating and destructing. Self-certification will be used to convey adherence to these guidelines.
8. (2) Nothing contained in these guidelines shall confer on any individual or an entity a right to physical access including through aerial/territorial water route to any establishment, installation or premises to which access is restricted by the Ministry/Department concerned as the owner of such premises.

9. iii. (a) There shall be a negative list of sensitive attributes that would require regulation before anyone can acquire and/or use such attribute data. DST will notify this list on its website along with stipulated regulations after consultation with departments concerned.
- 10.(b) The negative lists mentioned above will be specific to very sensitive attributes and care would be taken so as to minimize restrictions in order to boost the Ease of Doing Business. The list may be regularly updated as required.
- 11.(c) DST will constitute a Geospatial Data Promotion and Development Committee with representations from relevant departments that would decide any issue arising out of finalization of negative attributes lists and the regulations proposed on those attributes. The Committee's mandate will include promotion of activities related to collection, generation, preparation, dissemination, storage, publication, updating and/or digitization of Geospatial Data.

5. Pricing Policy - Click on Navbar home page Pricing Policy List and pricing of digital products of Survey of India.

Home	Products	Contents Of Geo Spatial Data Guidelines	Pricing Policy	Download SOI Fonts	Contact Us	Sign In	0
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Pricing Policy							
LIST & PRICING OF DIGITAL PRODUCTS OF SURVEY OF INDIA							
S No	Product Code	Name of Product	Type	Format	No. of Users	Scale	Price
1	ORSF/50K/19	Geo-referenced Colour Raster Map	Raster	TIFF		1:50K	1000/-
2	OVSF/10	Field Verified Village Boundary Database	Vector	GEODATABASE	Single		0/-
3	OVSF/10	Field Verified Village Boundary Database	Vector	SHAPEFILE	Single		0/-

6. Download SOI Fonts

- Click on Navbar home page Download SOI Fonts
For proper display of Digital Products / Maps, Kindly download and install SOI Fonts.



Home | Products | Contents Of Geo Spatial Data Guidelines | Pricing Policy | Download SOI Fonts | Contact Us | Sign In |  0

Download SOI Fonts

For proper display of Digital Products / Maps, Kindly download and install SOI Fonts.

[Click here to Download SOI Fonts.](#)

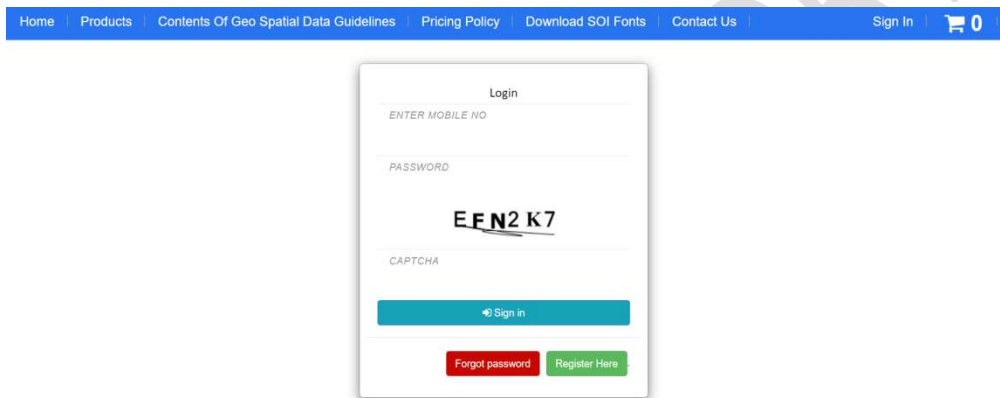
Users

7. User - Two types users.

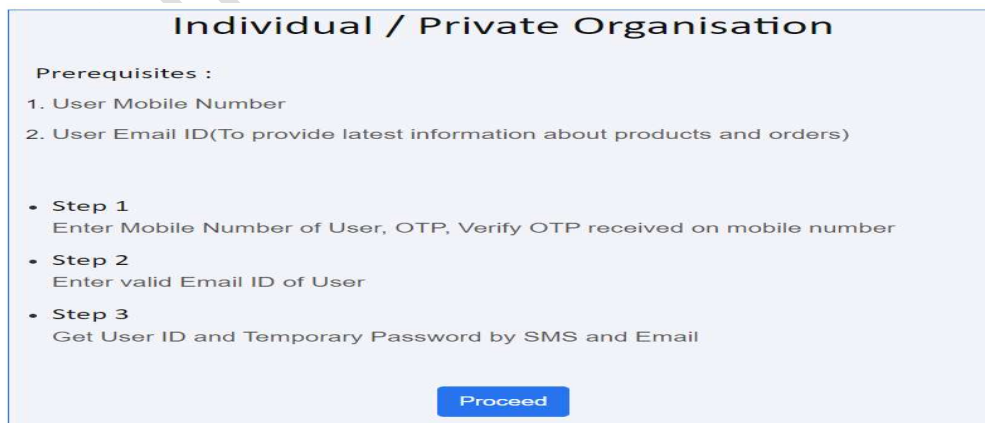
7.1. Private.

7.2. Government.

7.1. Private - How to register private user.



- Click on Register button for private user registration steps.



- Click on Proceed button for next step and Fill Profile Details Username, Mobile Number And Capcha.

Profile

User Name: ENTER USER NAME

Mobile Number: ENTER MOBILE NUMBER

CAPTCHA: RZYP7N

Get OTP & Next

➤ Click on Get OTP button for next step And Fill the Verify Mobile Number OTP.

Verify Mobile Number

Enter OTP: ENTER OTP

Resend OTP: 54 Seconds Left

OTP sent to Mobile Number 90XXXXXX99

Verify OTP & Next

➤ Click on Verify OTP button for next step and Fill Details Email ID and Capcha.

Email

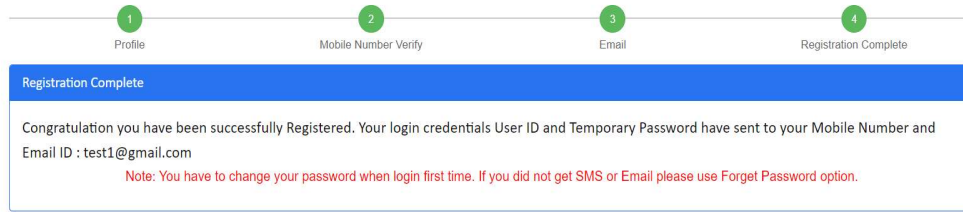
Enter Email ID: ENTER EMAIL ID

CAPTCHA: XCHD2K

Your Mobile Number has verified successfully.

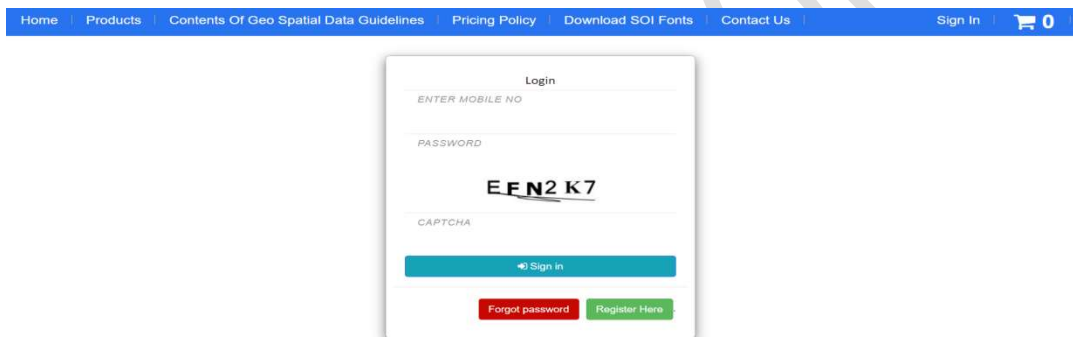
Verify Email & Next

➤ Registration Complete for private user and Your login credentials User ID and Temporary Password have sent to your Mobile Number and Email ID.



- You have to change your password when login first time. If you did not get SMS or Email please use Forget Password option.

7.2. Government - How to register Government user.



- Click on Register button for Government user registration steps.

Govt Organisation

Prerequisites :

1. Mobile Nos of authorized Govt official and Approving authority (HoD etc).
2. Official email Ids (@gov.in or @nic.in) of authorized Govt official and Approving authority (HoD etc). To avail the service, offices of Govt(Centre/State) need to have valid govt mail account(gov.in/nic.in) along with the Kavach Authentication System. [Click to get email.](#)

- **Step 1**
Enter Mobile Number of User (Authorised Govt official), OTP, Verify OTP received on mobile number
- **Step 2**
Enter official Email ID of User (Authorised Govt official), Verify OTP received by e-mail
- **Step 3**
Get User ID and Temporary Password by SMS and Email

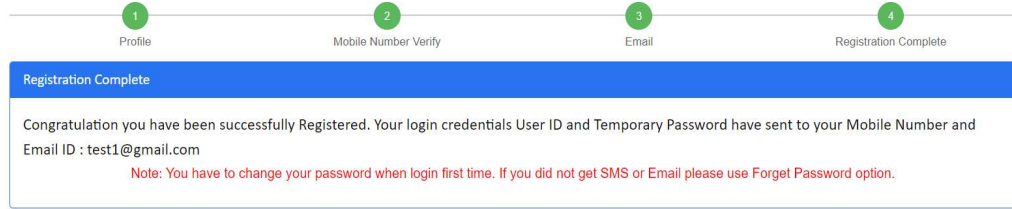
[Proceed](#)

- Click on Proceed button for next step and Fill Profile Details User name , Mobile Number And Capcha.

- Click on Get OTP button for next step And Fill the Verify Mobile Number OTP.

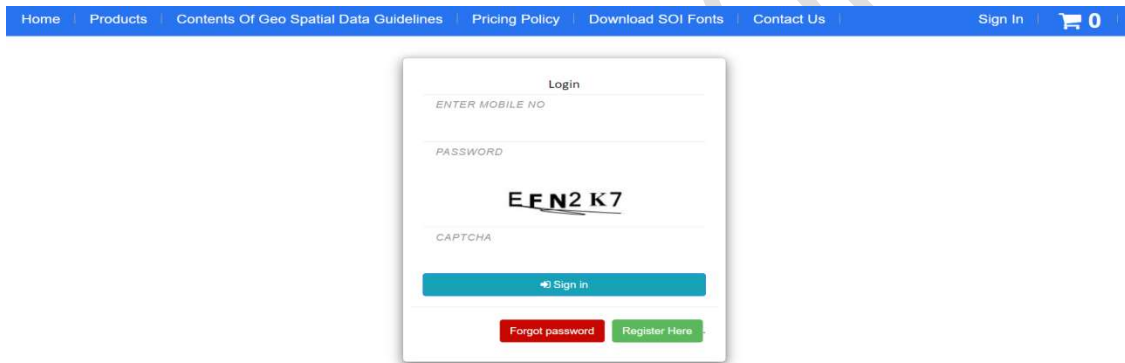
- Click on Verify OTP button for next step and Fill Details Email ID and Capcha.

- Click on Verify Email button for Registration Complete for private user and your login credentials User ID and Temporary Password have sent to your Mobile Number and Email ID.

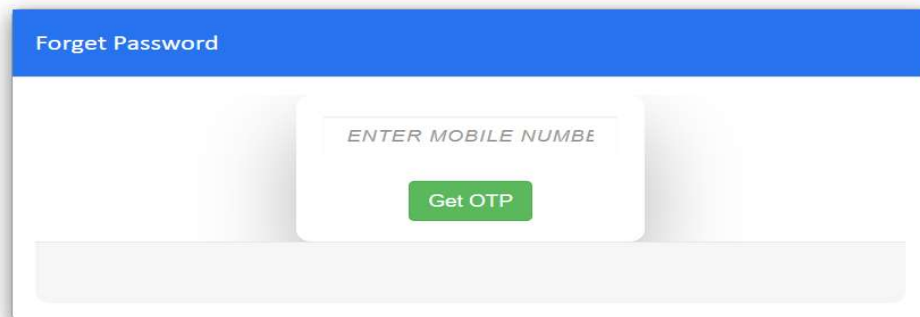


- You have to change your password when login first time. If you did not get SMS or Email please use Forget Password option.

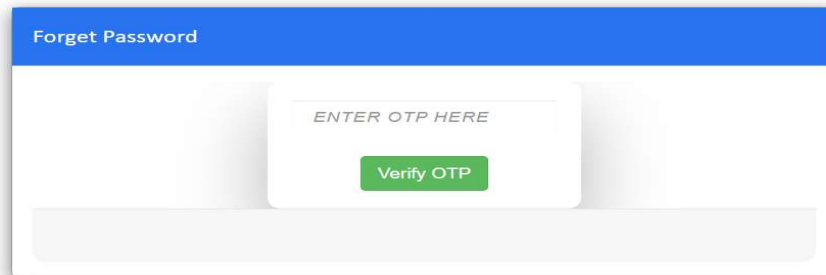
8. Forget Password - How to change forgot password



- Click on Forgot Password button for user steps and Fill the Mobile Number.

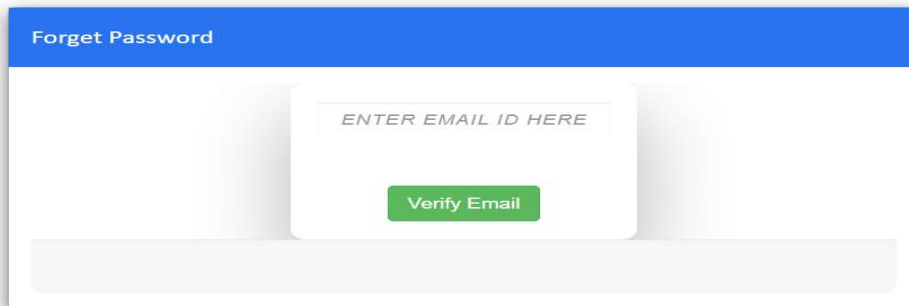


- Click on Get OTP button for user steps and Fill the Verify Mobile Number OTP.



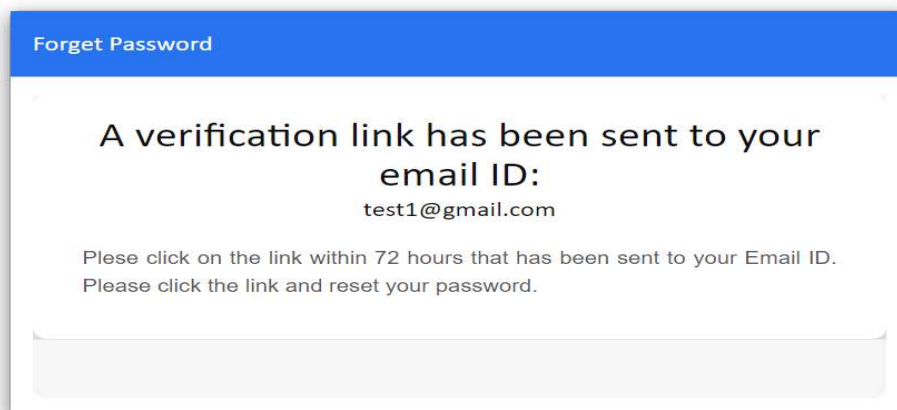
The screenshot shows a web interface with a blue header labeled "Forget Password". In the center, there is a white box containing the text "ENTER OTP HERE" and a green button labeled "Verify OTP". Below this box is a light gray input field.

- Click on Verify OTP button for next step and Fill the Email ID.



The screenshot shows a web interface with a blue header labeled "Forget Password". In the center, there is a white box containing the text "ENTER EMAIL ID HERE" and a green button labeled "Verify Email". Below this box is a light gray input field.

- Click on Verify Email button and A verification link has been sent to your email ID



The screenshot shows a web interface with a blue header labeled "Forget Password". The main content area displays the following text:

A verification link has been sent to your email ID:
test1@gmail.com

Please click on the link within 72 hours that has been sent to your Email ID.
Please click the link and reset your password.

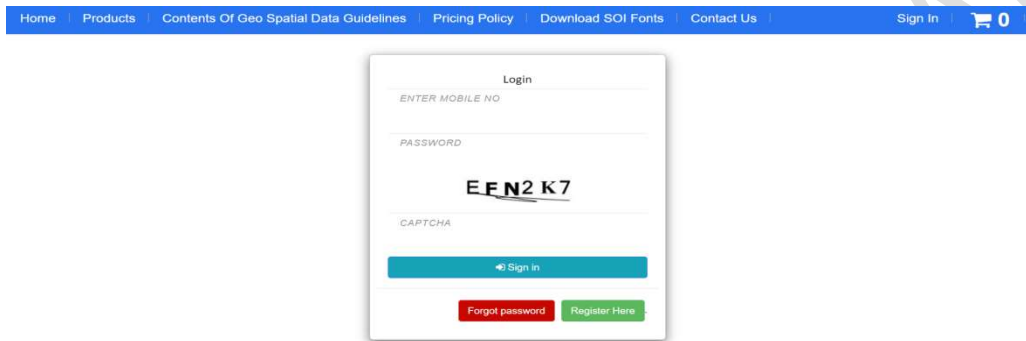
- Click on the link that will be sent to your email ID. This link will be

Valid for 72 hours.

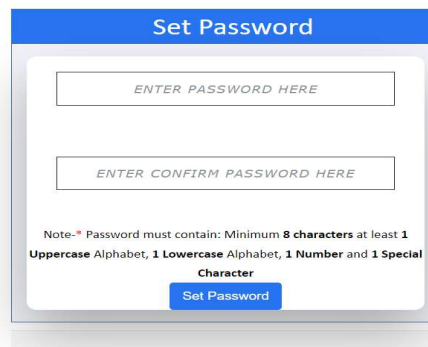
- Click the link and reset your password.

9. First time login for user-

How to first time Login for User and fill the details mobile number, password and captcha and then click Sign in button.



- When the user will login for the first time, the option to set the password will appear, set the password and then go to login.



10. Second time login for user-

When the user logs in for the second time, the option to update the profile will appear.



➤ Click the button to update profile.

User Profile

Sector Name *

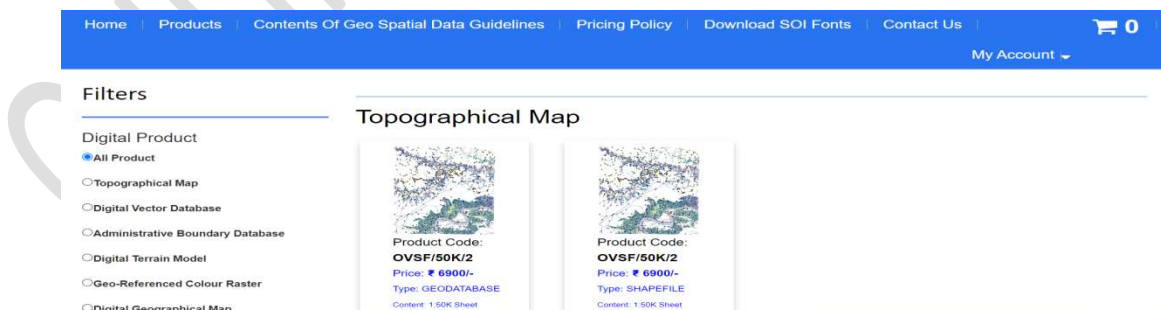
Industry / Ministry *

Designation Level *

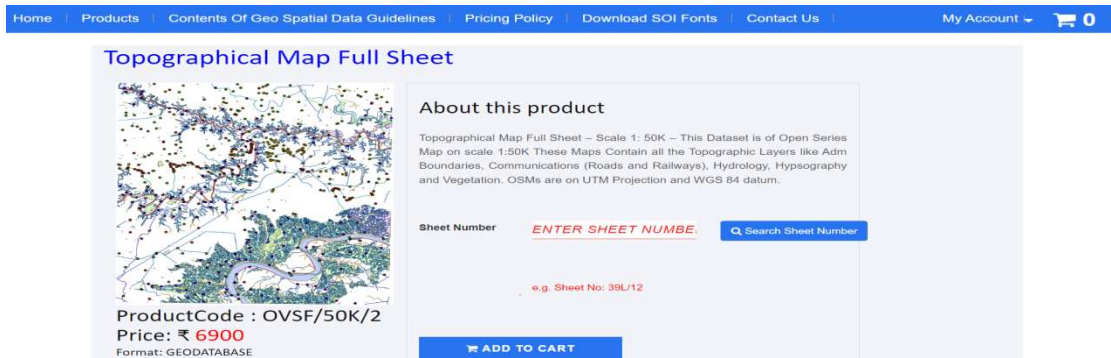
Designation Name *

Address *

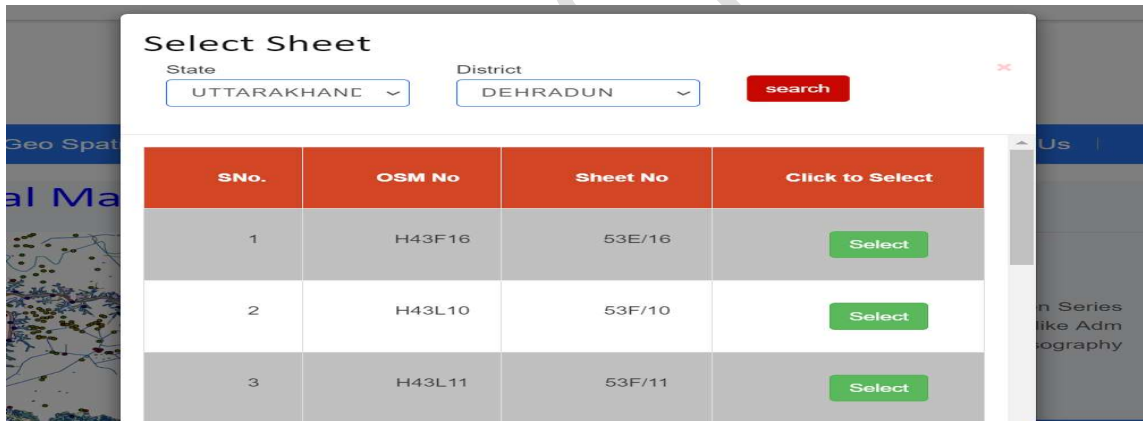
11. Paid product - How to order user. Select the product you purchased when visiting the product page.



➤ Select the product.

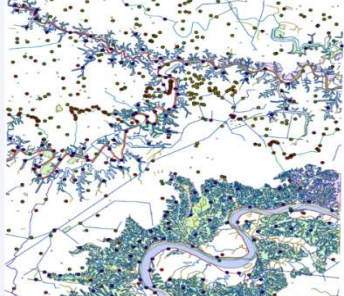


- Click on Search Sheet Number for Product Sheet Number and Search Sheet Number.



- Click on Select button and Add sheet number and then add to cart.

Topographical Map Full Sheet



About this product

Topographical Map Full Sheet – Scale 1: 50K – This Dataset is of Open Series Map on scale 1:50K These Maps Contain all the Topographic Layers like Adm Boundaries, Communications (Roads and Railways), Hydrology, Hypsography and Vegetation. OSMs are on UTM Projection and WGS 84 datum.

Sheet Number [Search Sheet Number](#)

e.g Sheet No: 39L/12

[ADD TO CART](#)

ProductCode : OVSF/50K/2
Price: ₹ 6900

➤ Product added in your cart the click on View cart button.

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Product added in your cart

Product Name: Topographical Map Full Sheet
Format: GEODATABASE
Price: ₹6900

[ADD MORE ITEM](#) [VIEW CART](#)

are on UTM Projection and WGS 84 datum.

➤ Show cart details.

Products | Contents Of Geo Spatial Data Guidelines | Pricing Policy | Download SOI Fonts | Contact Us | My Account

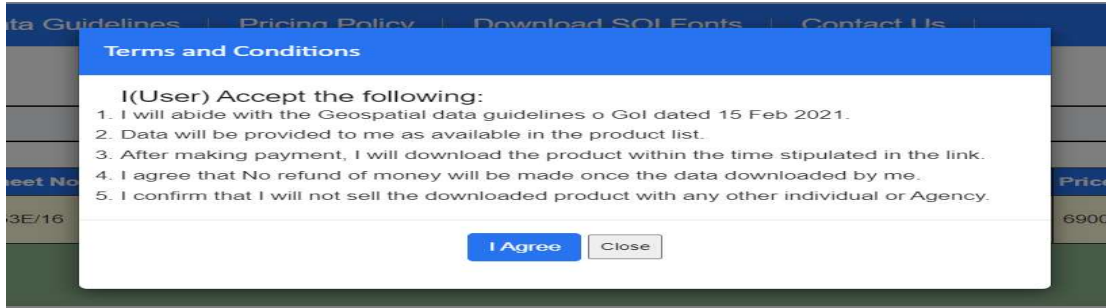
[Add Product](#)

Cart Details

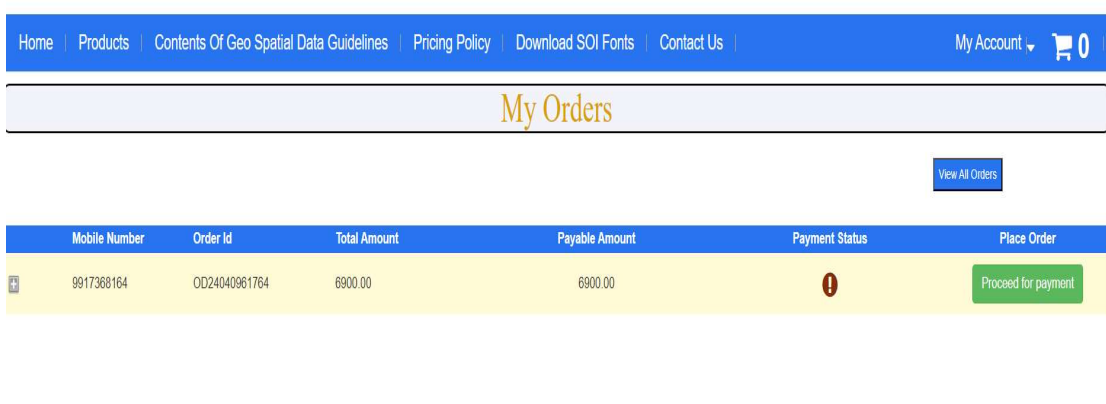
SNo.	Product Code	Product Name	Sheet No	Format Type	Layers	State	District	Price	Total	
1	OVSF/50K/2	Topographical Map Full Sheet	53E/16	GEODATABASE	point of interest,hydrography,communications,land cover and land use,utilities,boundaries,hypsography,land forms,micelleneous			6900	6900	Remove
									Total Amount - 6900	
									Discount Amount - 0	
									Payable Amount - 6900	

[Place Order](#)

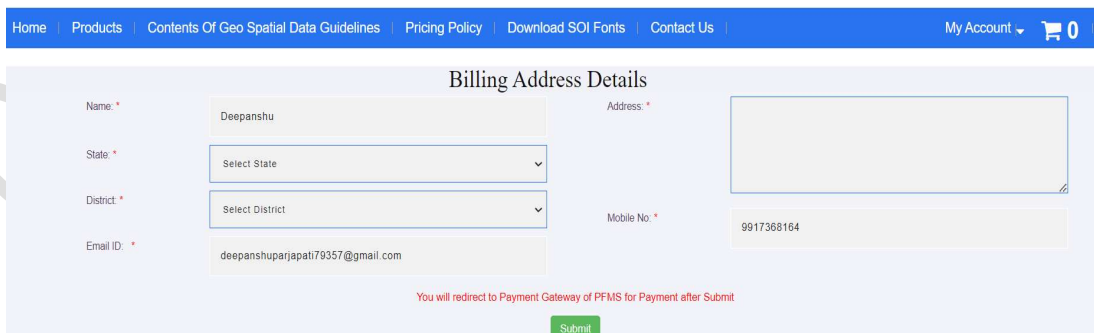
➤ Click on Place Order button And go to the option of terms and conditions.



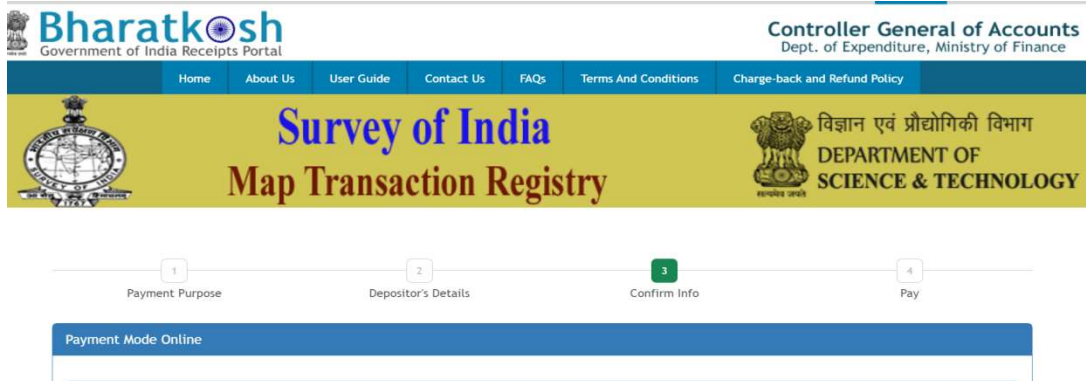
➤ Click on I Agree button and show my order details.



➤ Click on Proceed button for payment and go to Billing Address Details and fill the details.

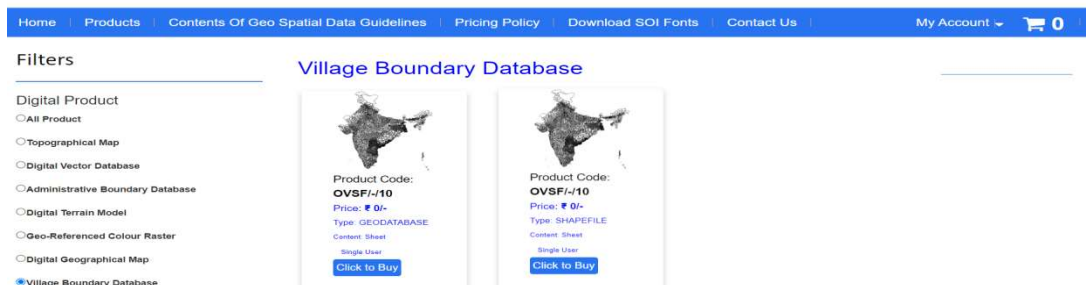


- Fill in the billing address details then click on submit button. Go to India Map Transaction Registration Survey (Bharat Kosh).



- Click on Confirm button. The payment is done successfully.

12. Free Product - How to order user. Select a free product by visiting the product page.



- Select the product. Click on buy button.

Field Verified Village Boundary Database



About this product

Village Boundary Database - This dataset is a database of Administrative boundaries up to village level (having State Boundary, District Boundary, Taluk boundary and Village Boundary) of a State up to village level of a State.

Select State

Select District

➤ Select the state and district and click on Add to Cart button.

Field Verified Village Boundary Database



About this product

Village Boundary Database - This dataset is a database of Administrative boundaries up to village level (having State Boundary, District Boundary, Taluk boundary and Village Boundary) of a State up to village level of a State.

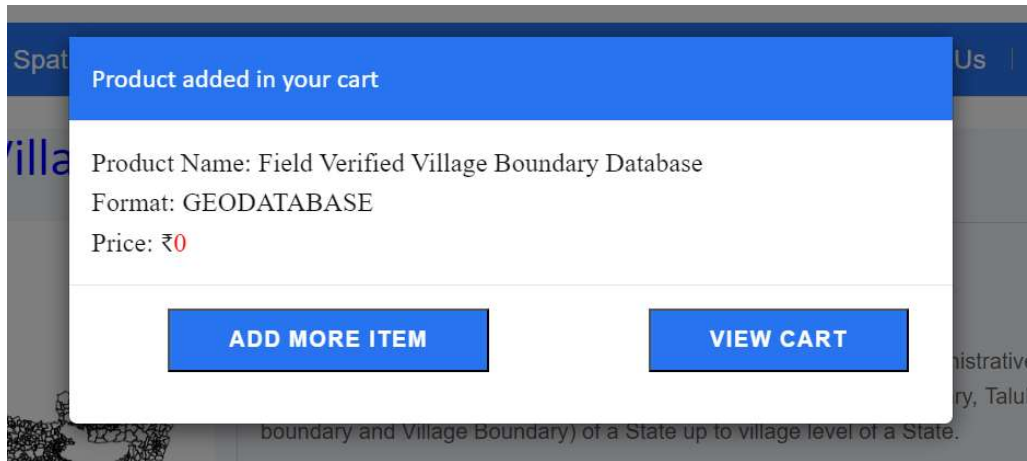
UTTARAKHAND

ADD TO CART

ProductCode : OVSF/-/10

Price: ₹ 0

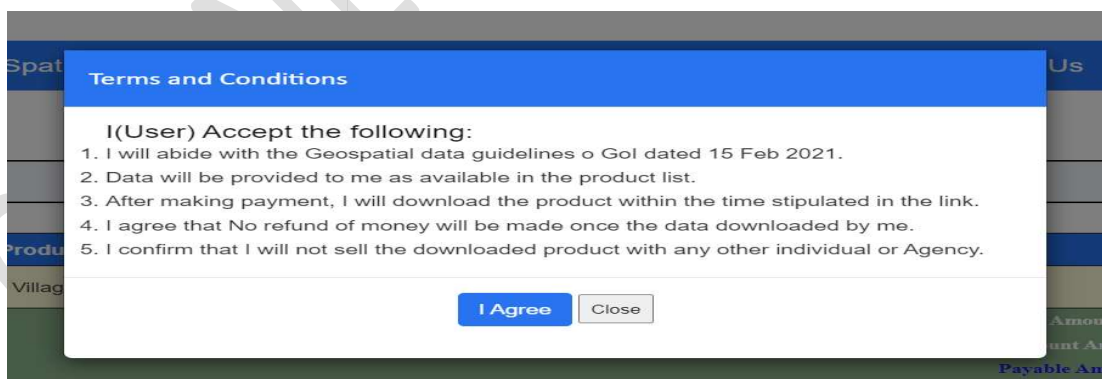
➤ Product added in your cart the click on View cart button.



- Show cart details.



- Click on Place Order button And go to the option of terms and conditions



- Click on I Agree button and show my order details And Click on Proceed for Download button

Click

Home | Products | Contents Of Geo Spatial Data Guidelines | Pricing Policy | Download SOI Fonts | Contact Us | My Account | 0

My Orders

[View All Orders](#)

Mobile Number	Order Id	Total Amount	Payable Amount	Payment Status	Place Order
9917999999	OD24040900001	0.00	0.00		Proceed for Download

➤ Download Show full product details and click on request button.

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Download Products

Order ID: **OD24040900001**

Product Code	Product Name	Format	Sheet No	State	District	Request For Download	Request Status	Request Status ID	Download Link Status	Download Link Valid Upto	Download Map
OVSF/-/10	Village Boundary Database	GEODATABASE		UTTARAKHAND		Request	NA	NA			NA

Click

➤ Show product download link generate button and click on this button.

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Download Products

Order ID: **OD24040900001**

Product Code	Product Name	Format	Sheet No	State	District	Request For Download	Request Status	Request Status ID	Download Link Status	Download Link Valid Upto	Download Map
OVSF/-/10	Village Boundary Database	GEODATABASE		UTTARAKHAND		Already Requested	Request Submitted	50becb51-137b-4312-9cf7-a6199a20ea7c	Generate Download Link		NA

Click

➤ Show product download button and click on this button.

Product Code	Product Name Format	Sheet No	State	District	Request For Download	Request Status	Request Status ID	Download Link Status	Download Link Valid Upto	Download Map
OVSF-/10	Village Boundary Database	GEODATABASE	UTTARAKHAND		Already Requested	Request Submitted	50becb51-137b-4312-9cf7-a6199a20ea7c	Download Link Generated	12/04/2024 15:46:16	Download

➤ Click on the download button. The order is completed successfully.

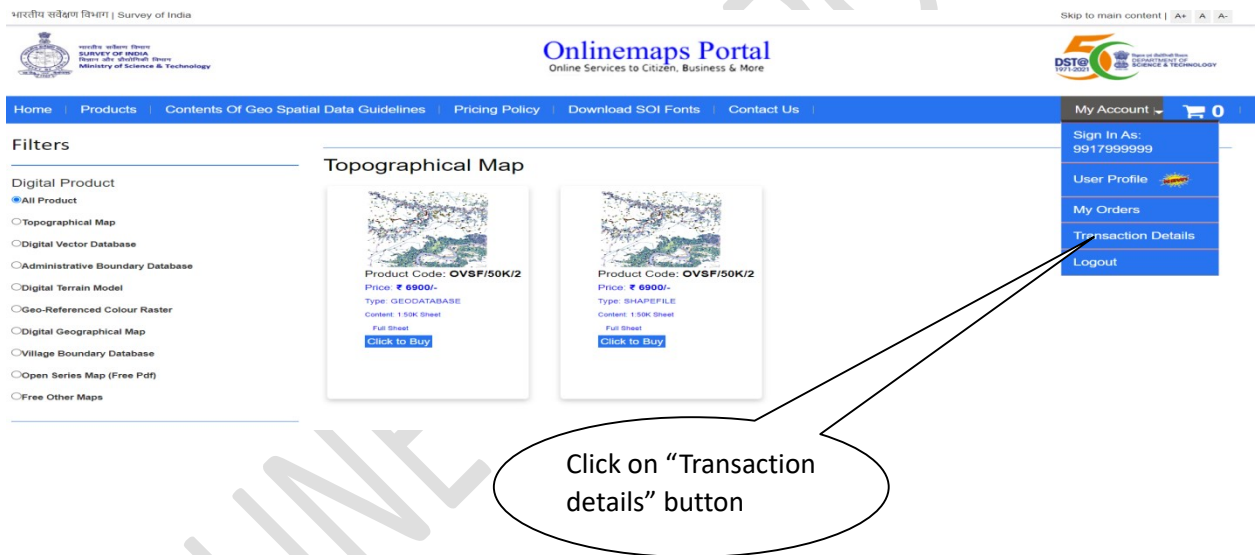
13. My Orders - Hover the "My Account" button has "My Orders" on the navbar at home page.

The screenshot shows the Onlinemaps Portal website. The top navigation bar includes links for Home, Products, Contents Of Geo Spatial Data Guidelines, Pricing Policy, Download SOI Fonts, and Contact Us. The 'My Account' dropdown menu is open, showing options for Sign In As: 9917999999, User Profile, My Orders, Transaction Details, and Logout. The 'My Orders' option is highlighted. A callout bubble points to the 'My Orders' button with the text 'Click on "My Order" button'.

➤ Click on "My Order" Button and show All My Orders details.



14. Transaction Details - Hover the “My Account” button has “Transaction details” on the navbar at home page.



➤ Click on “Transaction details” Button and show All My Transaction details.



Online Transaction Status

S No.	Order Id	Transaction No	Transaction Date	Amount	Transaction Status
1	OD24040900001			0.00	

ONLINE MAPS PORTAL