



**Kerala State
Spatial Data Infrastructure**
Department of Electronics and Information Technology



KERALA GEOPORTAL

User's Guide

Software Division



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1. INTRODUCTION

Kerala State Spatial Data Infrastructure (KSDI) is an Internet based Geo-Spatial Data Directory for the state that facilitates users of the system to share and explore data related to political and administrative boundaries, natural resources, transportation and infrastructure, demography, agro and socio economy etc., of the state. The KSDI has been established for acquiring, processing, storing, distributing and improving utilization of spatial data, in line with the National Spatial Data Structure (NSDI) initiatives.

KSDI is a collection of technologies, policies and institutional arrangements to facilitate availability of and access to spatial data, acquired and held by different government Departments/agencies and organizations to a vast, diverse and ever growing community of users. Its four main components are Institutional Frameworks, Technical Standards, Fundamental Datasets and Clearing House Networks. It helps to provide geo-spatial data sharing at all levels of government, commercial sector, non-profit sector, and academia. KSDI, which is the nodal agency formed in the year 2011 for GIS related activities in the state, also provides a reliable and supporting environment to access geographically related information using a minimum set of standard practices, protocols and specifications. Following are the objectives of KSDI:

- Develop and maintain standard digital collection of data
- Develop web based Geoportal to improve utilization of geospatial data (sharing of data through internet) for planners, decision makers and public
- Develop common solutions for discovery, access and use of spatial data in response to the needs of diverse user groups
- Provide a gateway for spatial data generated by various agencies in the State
- Increase awareness & understanding of the vision, concepts and benefits of the KSDI

1.1. Purpose

This document titled 'Kerala Geoportal Application – User's Guide' will help users to walk through the features in the Kerala Geoportal Application and provides guidelines on how to use the functionality, tools, and queries and generate reports in Kerala Geoportal Application.

1.2. Audience

The intended audience of this User's Guide are Portal Administrators, Department Users and Citizens of Uttarakhand.

2. GETTING STARTED

This section guides you through the steps required to log in to Portal as an Admin User/Editor/Viewer/Citizen roles.

Here, in this application the users have been categorized based on their roles, namely Administrator, Editor, Viewer, and Citizen.

The following table illustrates details of each user and type of default role assigned to them.

S. No	Type of User	Role Assigned	Access Privilege	Description of Privilege assigned
1	Administrator	Administrator	CRUD Matrix (Create, Read, Update and Delete)	These users should have an access for the following features <ul style="list-style-type: none"> • Configure Users, Roles, Departments & Designations • Using Custom reports • Editing the GIS layers • Creating Map Services • Creating and managing GeoMedia Workspaces • Layer Symbolology • Adding new GIS layer data to GSS
2	Department Head	Editor	CRU (Create, Read, and Update)	These users should have an access for the following features <ul style="list-style-type: none"> • Map Navigation • Using Predefined queries • Using Custom reports/Charts • Viewing thematic maps • Add/Modify the data from Geoportal • Print & Export
3	Department User/Internal Users	Viewer	Only Read	These users should have an access for the following features <ul style="list-style-type: none"> • Map Navigation • Using Predefined queries • Using Custom reports/Charts
4	Department User/Citizen/General Public	Citizen User	Only Read	These users should have an access for the following features <ul style="list-style-type: none"> • Map Navigation

S. No	Type of User	Role Assigned	Access Privilege	Description of Privilege assigned
				<ul style="list-style-type: none"> Using Predefined reports Viewing thematic maps

Table 1: Type of Users within KSDI Portal

Note: <http://ksdiportal.kerala.gov.in/KSDI> KSDI Geoportal best viewed on google chrome version 4.7 or higher versions.

2.1. Logging on to the Application (Admin User)

To logging on to the Portal, follow these steps

1. In the 'Address bar', type the URL of the Portal and press 'Enter' key

The Portal window appears as shown in **Figure 1**

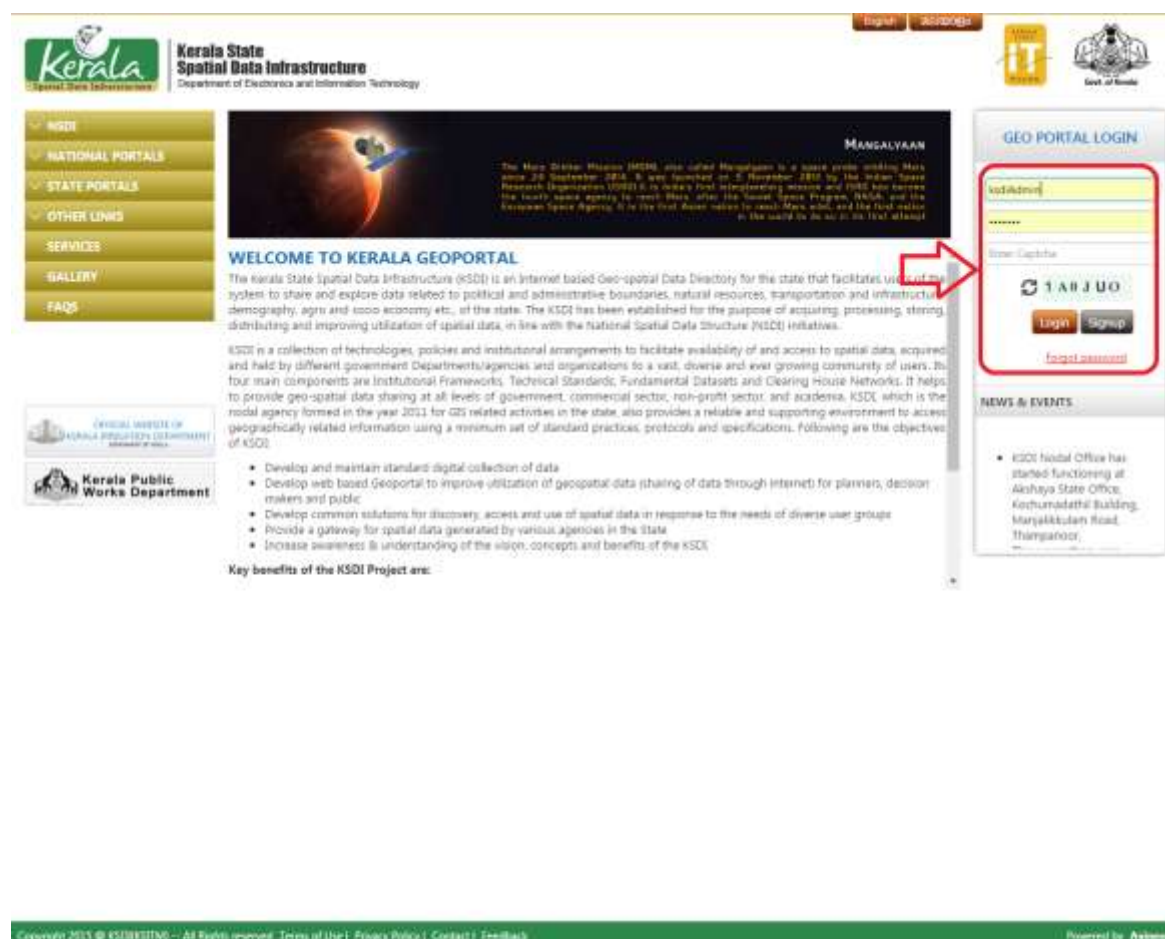
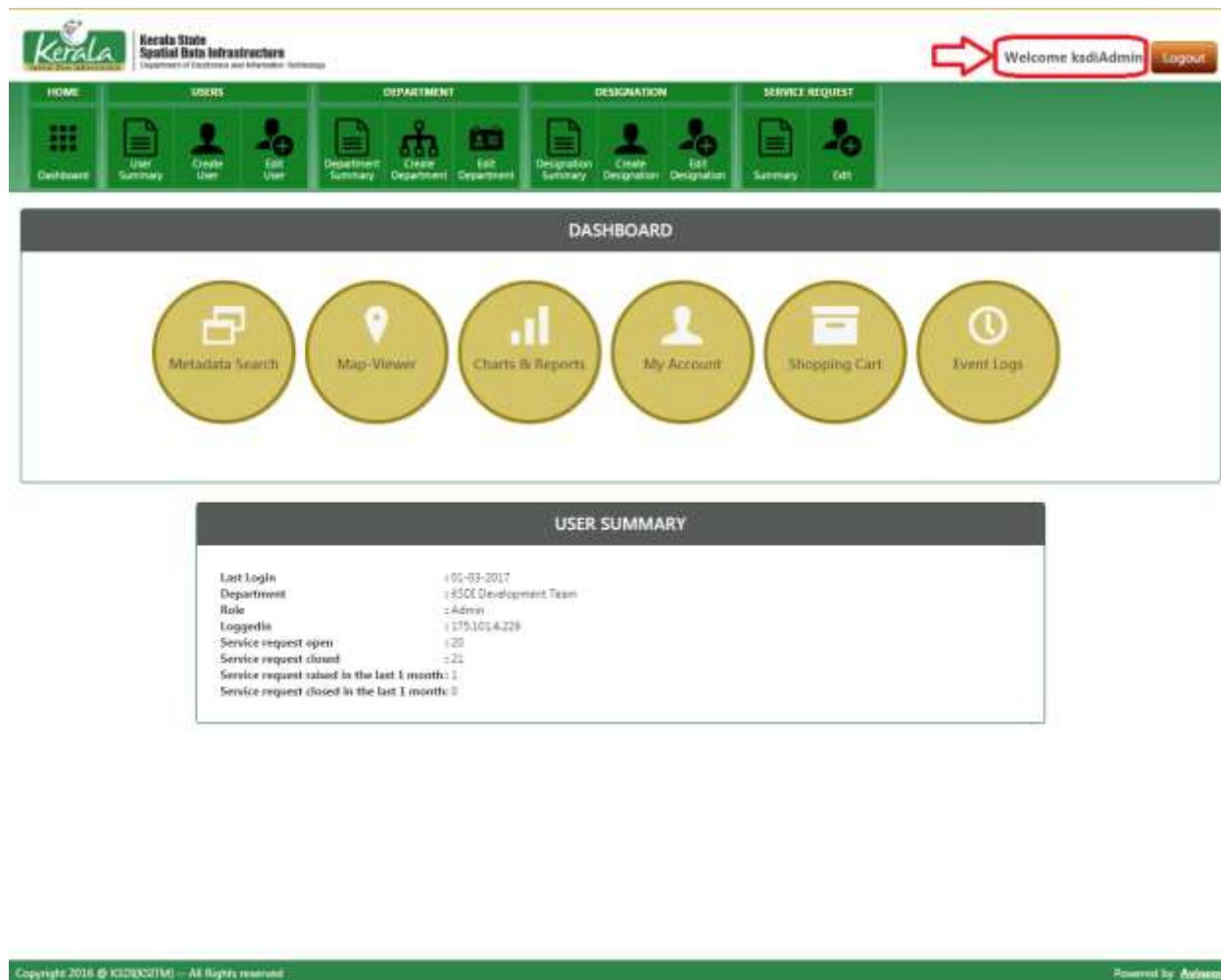


Figure 1: Login Page

2. If you already have user credentials, please enter the following details

3. Under 'Username', enter user name
4. Enter password in 'Password' box
5. Enter captcha in 'Enter Captcha' box
6. Click 'Login'

The following page is displayed as shown in **Figure 2** after clicking the Login button.




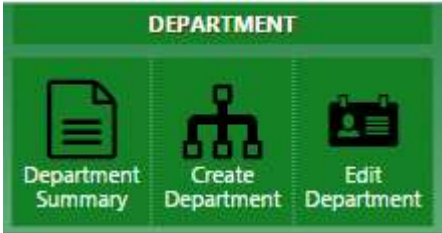


The screenshot displays the admin dashboard of the Kerala State Spatial Data Infrastructure. At the top, there is a navigation bar with the Kerala State Spatial Data Infrastructure logo and the Department of Electronics and Information Technology. A welcome message 'Welcome ksdiAdmin' is shown with a 'Logout' button. Below the navigation bar is a menu with categories: HOME, USERS, DEPARTMENT, DESIGNATION, and SERVICE REQUEST. Each category has sub-links for 'Summary' and 'Edit'. The main content area is titled 'DASHBOARD' and contains six circular icons: Metadata Search, Map-Viewer, Charts & Reports, My Account, Shopping Cart, and Event Logs. Below the dashboard is a 'USER SUMMARY' section with the following details:






USER SUMMARY	
Last Login	05-03-2017
Department	ISOC Development Team
Role	Admin
LoggedIn	175.101.4.228
Service request open	00
Service request closed	00
Service request raised in the last 1 month	0
Service request closed in the last 1 month	0

At the bottom, there is a footer with the copyright notice 'Copyright 2016 © KS20021M - All Rights reserved' and the text 'Powered by: Admin'.

Figure 2: Home Page/Dashboard Page (Admin User)

The below **Table 2** describes the details of each feature that are being displayed on the Dashboard main page

S. No	Dashboard Feature	Description
1		<p>This feature helps the Admin user with the user summary of all the users in a detailed way in tabular form, displaying the important fields such as username, first name, last name, email id, Role, Designation, Department, and status of the users.</p> <p>Create User: To Create a new user; Edit User: To edit the existing user</p>
2		<p>This feature helps the Admin user with the departments summary of all the departments that are associated in using this application and displays the information of Department Name, Department Short Name, Point of Contact for that department, email id of the point of contact and status of the Department.</p> <p>Create Department: To Create a new Department; Edit Department: To edit the existing department details</p>
3		<p>This feature helps the Admin user with the designation summary of all the designations that are associated in using this application and displays the information of Designation ID, Designation Name, and status of the Designation.</p> <p>Create Designation: To Create a new Designation; Edit Designation: To edit the existing designation details</p>
4		<p>This feature helps the Administrator of the application has an overview of number of service requests raised by all the users, with the number of open and closed service requests, here the Administrator can edit/change the status of the request once it is resolved</p>

S. No	Dashboard Feature	Description
5		Metadata: Information that describes the content, quality, condition, origin, and other characteristics of data or other pieces of information. Metadata for spatial data may describe and document its subject matter; how, when, where, and by whom the data was collected; availability and distribution information; its projection, scale, resolution, and accuracy; and its reliability with regard to some standard. Metadata consists of properties and documentation. Properties are derived from the data source (for example, the coordinate system and projection of the data), while documentation is entered by a person (for example, keywords used to describe the data).
6		Map Viewer: This is an easy way to view and access maps and data for all users (Administrators, Editor, Viewer and Citizen User), where they can access different types of data available within the portal with appropriate access levels.
7		Charts & Reports: These are used for visualizing the data on maps. With these charts, georeferenced data tables can be visualized in interactive ways as a heat map, bar graph, text, or pie chart.
8		My Account: This feature helps the logged-in user to edit the details of his/her account
9		Shopping Cart: This section helps Administrators to create new shopping carts, edit the existing shopping carts and delete unwanted shopping carts and provide access to the users who request an access for specific shopping carts.


S. No	Dashboard Feature	Description
10		Event Logs: This feature helps the Admin user to track the details of the users who were logged in recently and in the past

Table 2: List of Dashboard Features

2.2. Creation of New User

There are two ways of creating a user.

1. From login page, using 'Signup', option
2. Administrator can create the user by appropriate approvals from higher authorities

2.2.1. Creation of New User (Using Signup)

The following illustrates the process of creating a user using Signup option form Login Page.



Figure 3: Creation of New User (Using Signup)

1. Please enter the URL: <http://ksdiportal.kerala.gov.in/KSDI/> as shown in the **Figure 3**, and click on the 'Signup'.
2. On clicking it, a new window appears, where the user needs to fill in the required details as shown in the **Figure 4**
3. After entering the details, please click on the 'Submit', button, a new window is displayed as shown in the **Figure 5**
4. Now click on the 'OK', button, and check the registered email address for Login Credentials and Activation Link which are shown in the **Figure 6, Figure 7**

Welcome to Kerala Geoportal

Not secure | ksdportal.kerala.gov.in/KSDI/signup.html?token=CH5KX9g3lg4Uof_FgZ754N2mTeyqT

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USER REGISTRATION

User Name* <input type="text" value="siru2222"/>	<input type="button" value="Verify user Name"/>
First Name* <input type="text" value="Siroosha"/>	Last Name* <input type="text" value="Gangapuram"/>
Password* <input type="password" value="*****"/>	Confirm Password* <input type="password" value="*****"/>
Email* <input type="text" value="sgangapuram@eunhesindia.com"/>	Address* <input type="text" value="Pulakkad"/>
Mobile No* <input type="text" value="9848259073"/>	City* <input type="text" value="Pulakkad"/>
State* <input type="text" value="Kerala"/>	Country* <input type="text" value="India"/>
Pincode* <input type="text" value="500006"/>	Reset Question* <input type="text" value="What is your favourite colour"/>
Hint Answer* <input type="text" value="Blue"/>	Enter Captcha* <input type="text" value="1UWMNP"/>

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Figure 4: Entering the details of the new user



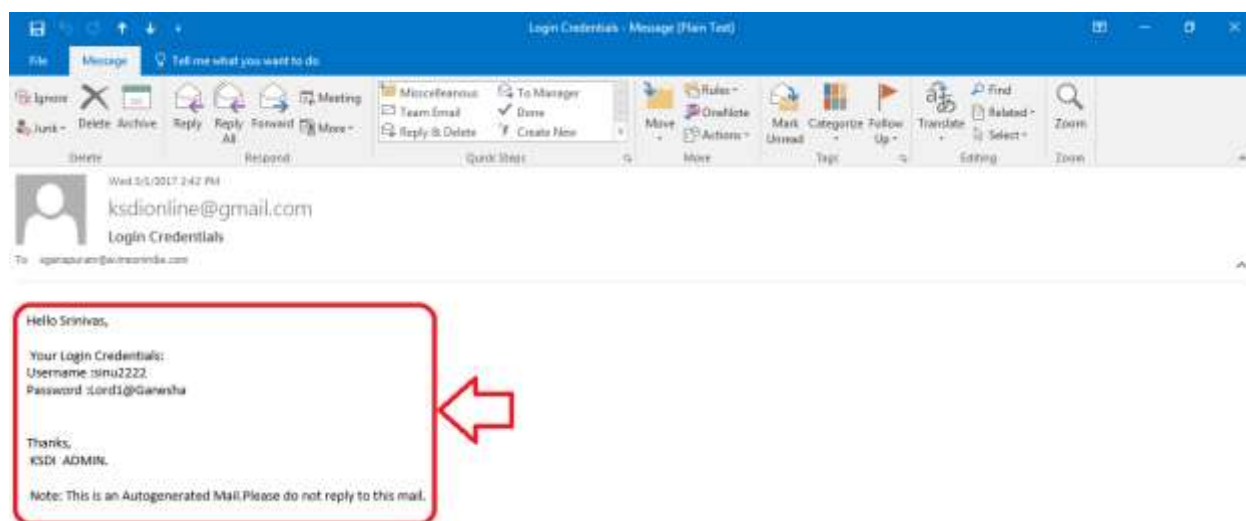


Figure 6: Displaying Email Message (Login Credentials)

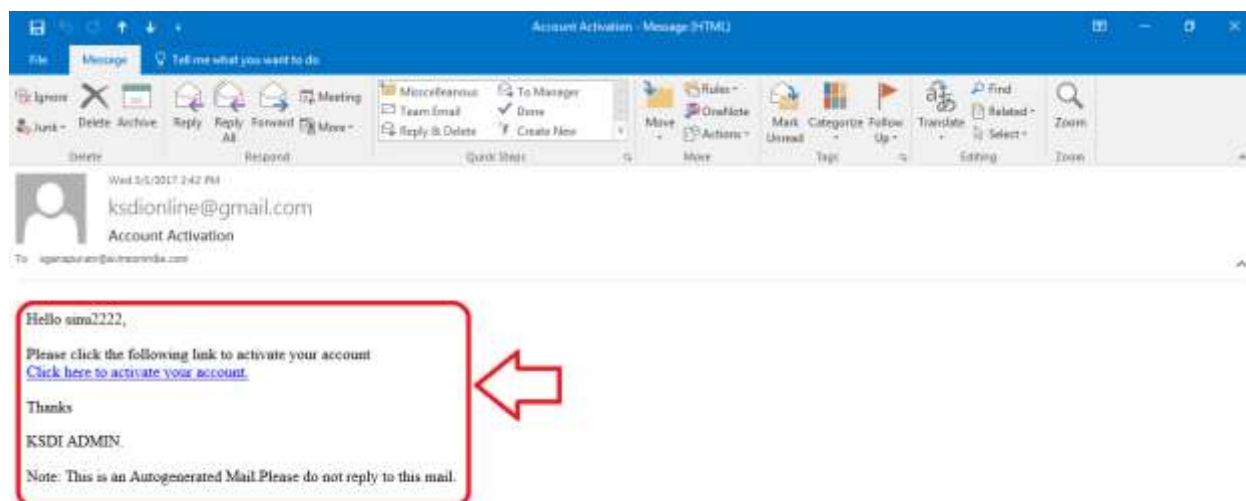


Figure 7: Displaying Activation Message (Account Activation Link)

2.2.2. Creation of New User (Administrator)


Creation of user can be done by the user who has Administrator role access, here 'ksdiAdmin' is the user who has such access.

The following **Figure 8** illustrates the selection page of Create User feature.



Figure 8: Creation of New User

1. Please follow the path Home → Users → Create User
2. On clicking it, a pop-up window appears, where the user needs to fill in the required details as shown in the **Figure 9**
3. After entering the details, please click on the 'Create', button, a small pop-window is displayed as shown in the **Figure 10**
4. Now click on the 'OK', button, an email message is triggered to the registered user email Id as shown in the **Figure 11**
5. Please click on the 'OK', button and check the email for details of Login Credentials as shown in the **Figure 12**



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Welcome ksdAdmin [Logout](#)

HOME	USERS	DEPARTMENT	DESIGNATION	SERVICE REQUEST
Dashboard	User Summary Create User Edit User	Department Summary Create Department Edit Department	Designation Summary Create Designation Edit Designation	Summary Edit

CREATE USER

User Name*

Password*

First Name*

Last Name*

Email*

Mobile Number*

Role*

Department*

Designation*

Create

Reset

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Figure 9: Entering the details of the new user

Kerala State Spatial Data Infrastructure
Department of Electronics and Information Technology

Welcome ksdiAdmin [Logout](#)

HOME	USERS	DEPARTMENT	DESIGNATION	SERVICE REQUEST
Dashboard	User Summary	Department Summary	Designation Summary	Summary
	Create User	Create Department	Create Designation	Edit
	Edit User	Edit Department	Edit Designation	

CREATE USER

User Name* <input type="text" value="ksdi2022"/>	Password* <input type="password" value=""/>
First Name* <input type="text" value="Sunil"/>	Last Name* <input type="text" value="Ganapuran"/>
Email* <input type="text" value="sganapuran@kerala.gov.in"/>	Mobile Number* <input type="text" value="9848158073"/>
Role* <input type="text" value="General"/>	Department* <input type="text" value="Information Testing"/>
Designation* <input type="text" value="Project Co-ordinator"/>	

[Create](#) [Reset](#)

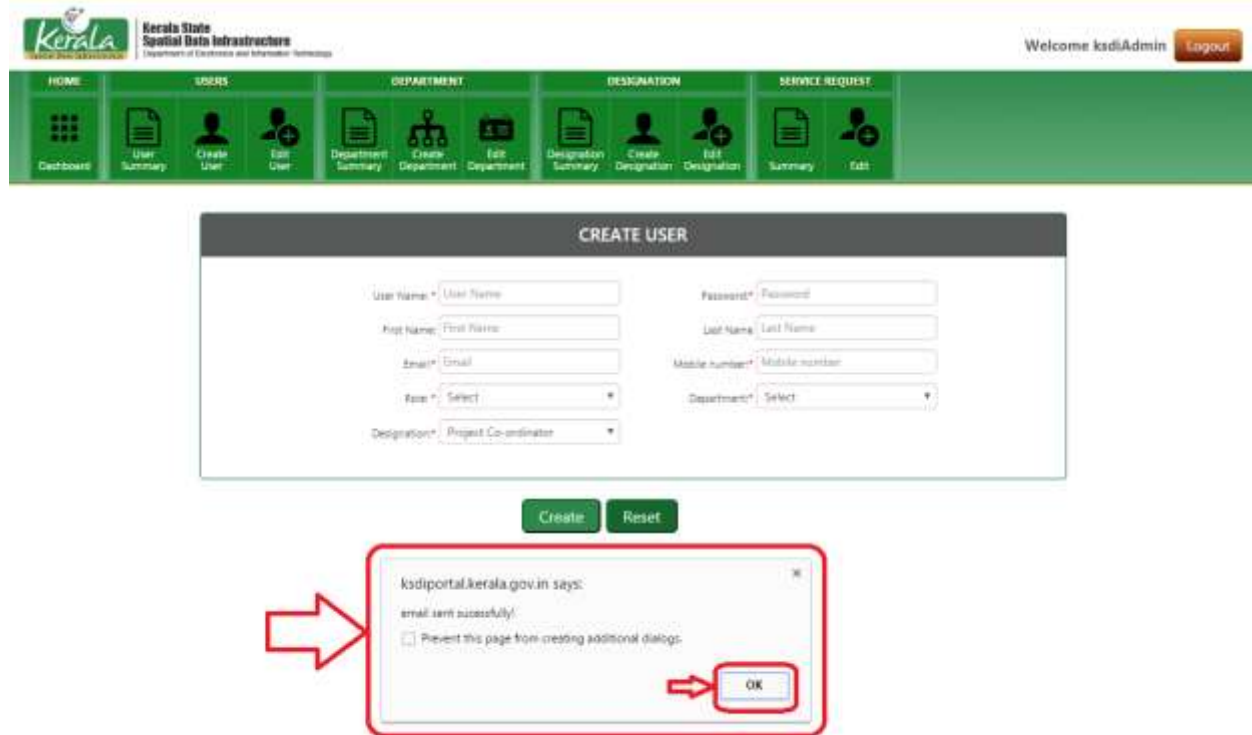
ksdiportal.kerala.gov.in says:

User added successfully!

[OK](#)

Windows taskbar: 2:25 PM 3/2/2017

Figure 10: User Added Successfully



The screenshot shows the 'CREATE USER' form in the KERALA GEOPORTAL interface. The form has two columns of input fields. The left column includes: User Name (text), First Name (text), Email (text), Role (dropdown), and Designation (dropdown). The right column includes: Password (text), Last Name (text), Mobile number (text), and Department (dropdown). Below the form are 'Create' and 'Reset' buttons. A red arrow points from the 'Create' button to a dialog box that says 'ksdportal.kerala.gov.in says: email sent successfully!'. The dialog box has a checkbox for 'Prevent this page from creating additional dialogs.' and an 'OK' button, which is also highlighted with a red arrow.

Figure 11: email trigger message

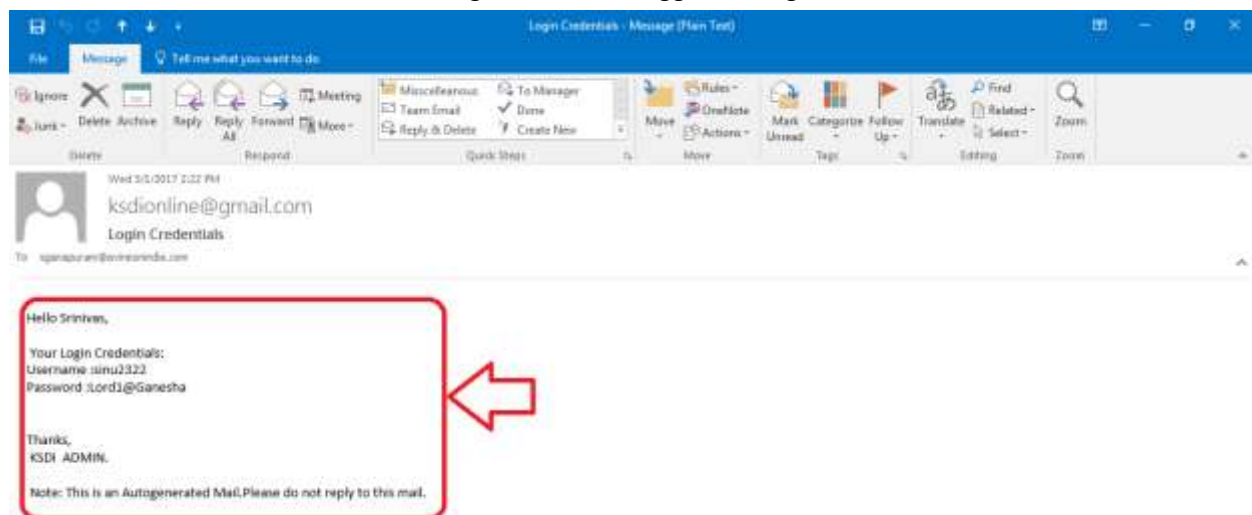


Figure 12: Displaying Email Message (Login Credentials)

2.3. Logging on to the Application (General User)

To logging on to the Portal, follow these steps

1. In the 'Address bar', type the URL of the Portal and press 'Enter' key



The screenshot shows the Kerala Geoportal Login Page. On the left is a navigation menu with links like NSDI, NATIONAL PORTALS, STATE PORTALS, OTHER LINKS, SERVICES, GALLERY, and FAQs. The main content area features a banner for the Indian Regional Navigation Satellite System (IRNSS) - NAVIC, followed by a 'WELCOME TO KERALA GEOPORTAL' section. The right sidebar contains the 'GEO PORTAL LOGIN' form, which is highlighted with a red box. The form includes fields for 'Username' (containing 'gkx232'), 'Password' (containing '72N104'), and a 'Enter Captcha' field (containing '7.Z.V.1.04'). Below these fields are 'Login' and 'Signup' buttons, and a 'Forgot password' link. A 'NEWS & EVENTS' section is also visible at the bottom right. The footer contains copyright information and a 'Powered by' logo.

Figure 13: Login Page (Citizen User)

2. If you already have user credentials, please enter the following details
3. Under 'Username', enter user name
4. Enter password in 'Password' box
5. Enter captcha in 'Enter Captcha' box
6. Click 'Login'

The following page is displayed as shown in **Figure 14** after clicking the Login button.



Kerala State Spatial Data Infrastructure
Department of Electronics and Information Technology

Welcome gane2322 [Logout](#)

DASHBOARD

- Metadata Search
- Map-Viewer
- Charts & Reports
- My Account

USER SUMMARY

Last Login	01-09-2017
Role	(General)
Loggedin	1
Service request raised in the last 1 month	1

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Figure 14: Home Page/Dashboard Page (General User)

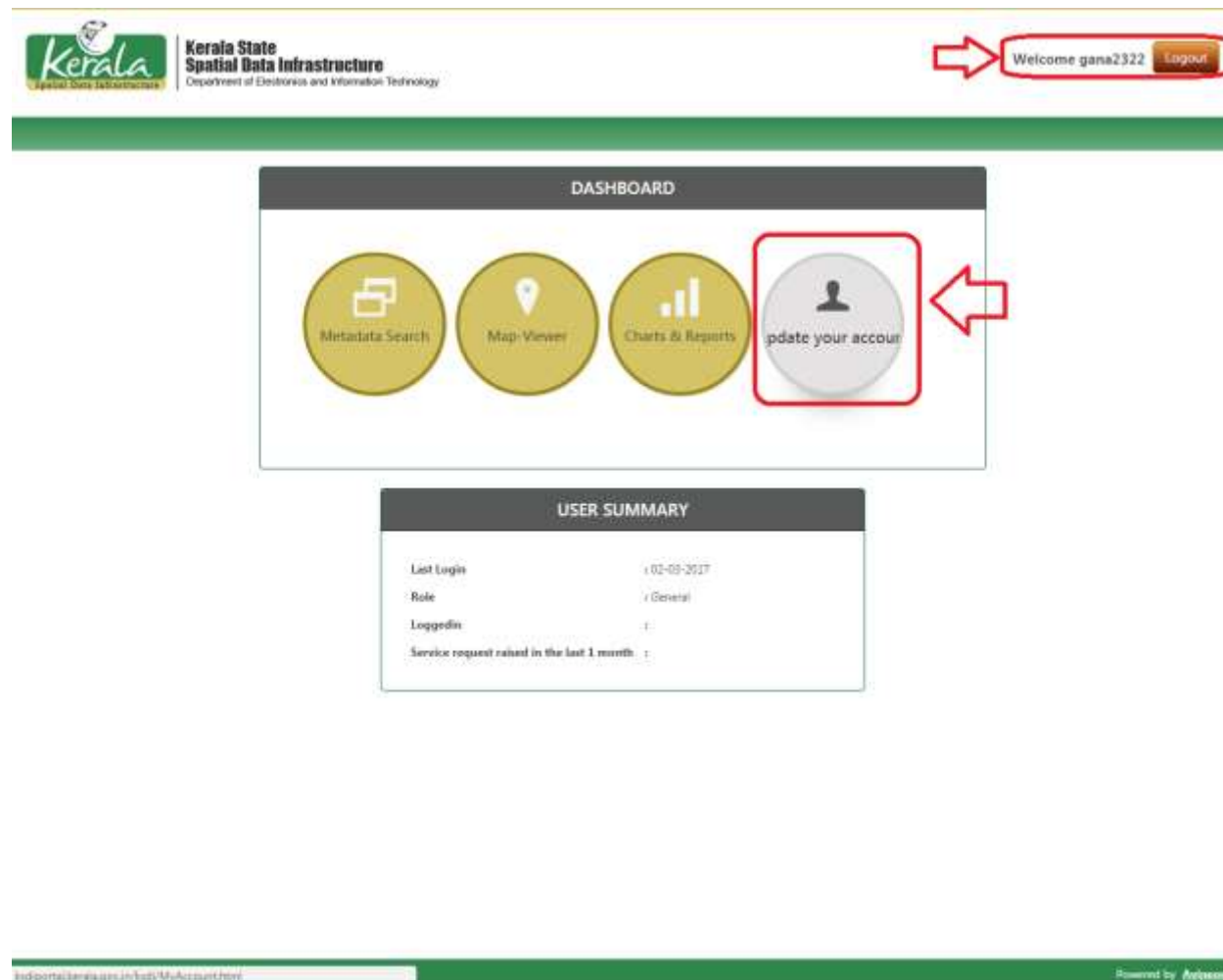
1. As per the above **Figure 14**, we can see that 'General user' has an access for few applications such as 'Metadata Search', 'Map-Viewer', 'Charts & Reports' and 'My Account'.

3. SERVICE REQUEST

This section helps to raise service request by internal users/general users across different departments of KSDI.

Where KSDI Administrator can resolve the issues, when such request is placed by internal/general users.

The following **Figure 15** shows the main page of 'Service Request'.



The screenshot displays the KSDI Service Request Main Page. At the top, there is a header with the Kerala State Spatial Data Infrastructure logo and name, and a user login area showing 'Welcome gane2322' and a 'Logout' button. Below the header is a green navigation bar. The main content area features a 'DASHBOARD' section with four circular icons: 'Metadata Search', 'Map-Viewer', 'Charts & Reports', and 'update your account'. The 'update your account' icon is highlighted with a red box and a red arrow. Below the dashboard is a 'USER SUMMARY' section with a table showing user details.

USER SUMMARY	
Last Login	12-09-2017
Role	General
Logged in	1
Service request raised in the last 1 month	1

At the bottom of the page, there is a green footer bar containing the URL 'ksdportal.kerala.gov.in/index/MyAccount.html' and the text 'Powered by: Arctium'.

Figure 15: Service Request Main Page

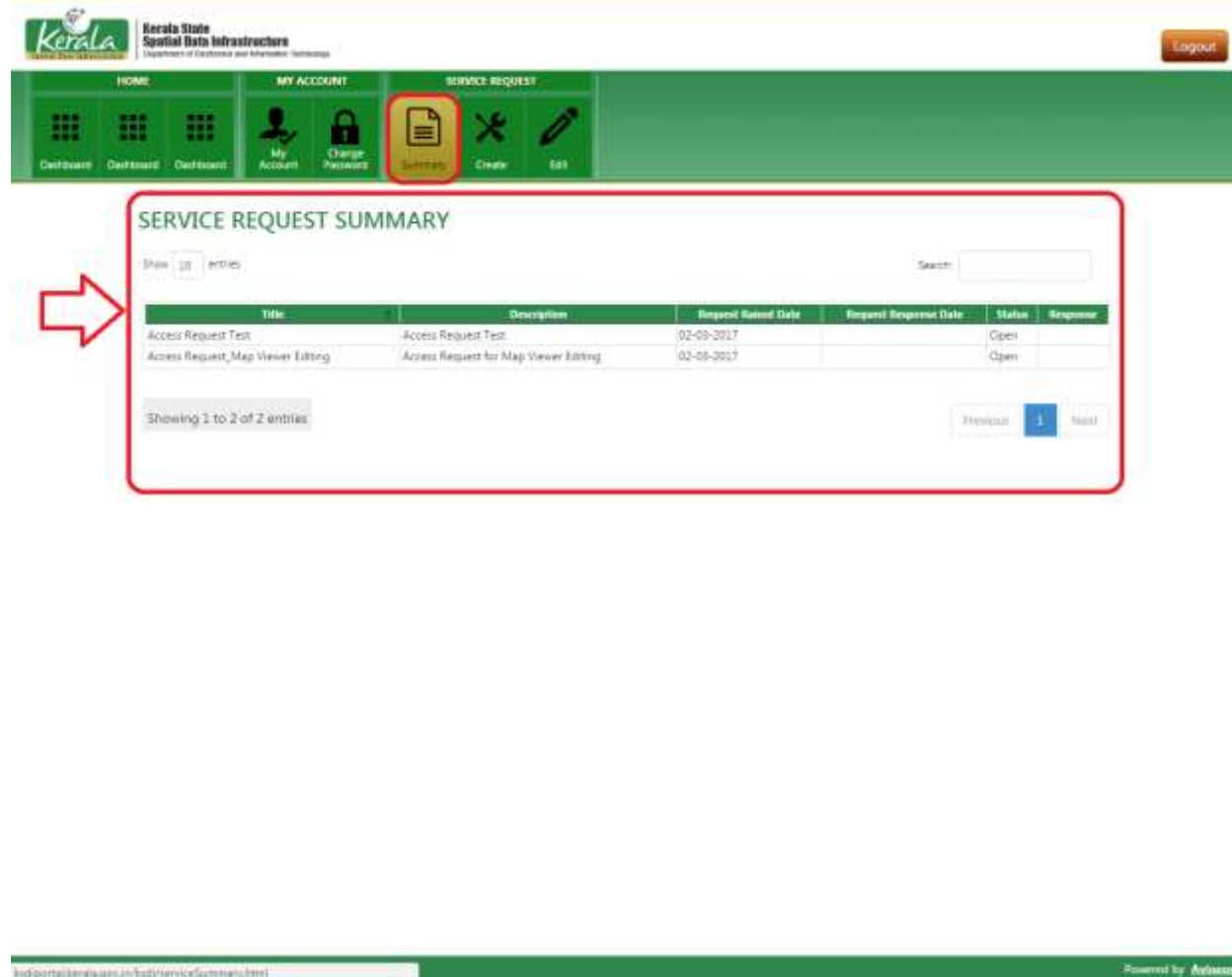
3.1. Service Request Summary

This feature helps Administrator to track all the service requests made by different users, we also have individual service request summary for internal/general user and can see the number of service requests raised by them.

3.1.1. Service Request Summary (Internal User)

This feature displays the history of service requests made by him/her on their respective accounts.

The following **Figure 16** displays the number of service requests from internal user 'gana2322'.



The screenshot shows the 'SERVICE REQUEST SUMMARY' page. The top navigation bar includes 'HOME', 'MY ACCOUNT', and 'SERVICE REQUEST'. The 'SERVICE REQUEST' section has buttons for 'Summary', 'Create', and 'Edit'. The 'Summary' button is highlighted with a red arrow. Below the navigation bar, the 'SERVICE REQUEST SUMMARY' section displays a table with 2 entries. The table has columns: Title, Description, Request Raised Date, Request Response Date, Status, and Response. The first entry is 'Access Request Test' with a status of 'Open'. The second entry is 'Access Request_Map Viewer Editing' with a status of 'Open'. The page also shows 'Showing 1 to 2 of 2 entries' and a 'Previous 1 Next' pagination control.

Title	Description	Request Raised Date	Request Response Date	Status	Response
Access Request Test	Access Request Test	02-09-2017		Open	
Access Request_Map Viewer Editing	Access Request for Map Viewer Editing	02-09-2017		Open	

Showing 1 to 2 of 2 entries

Previous 1 Next

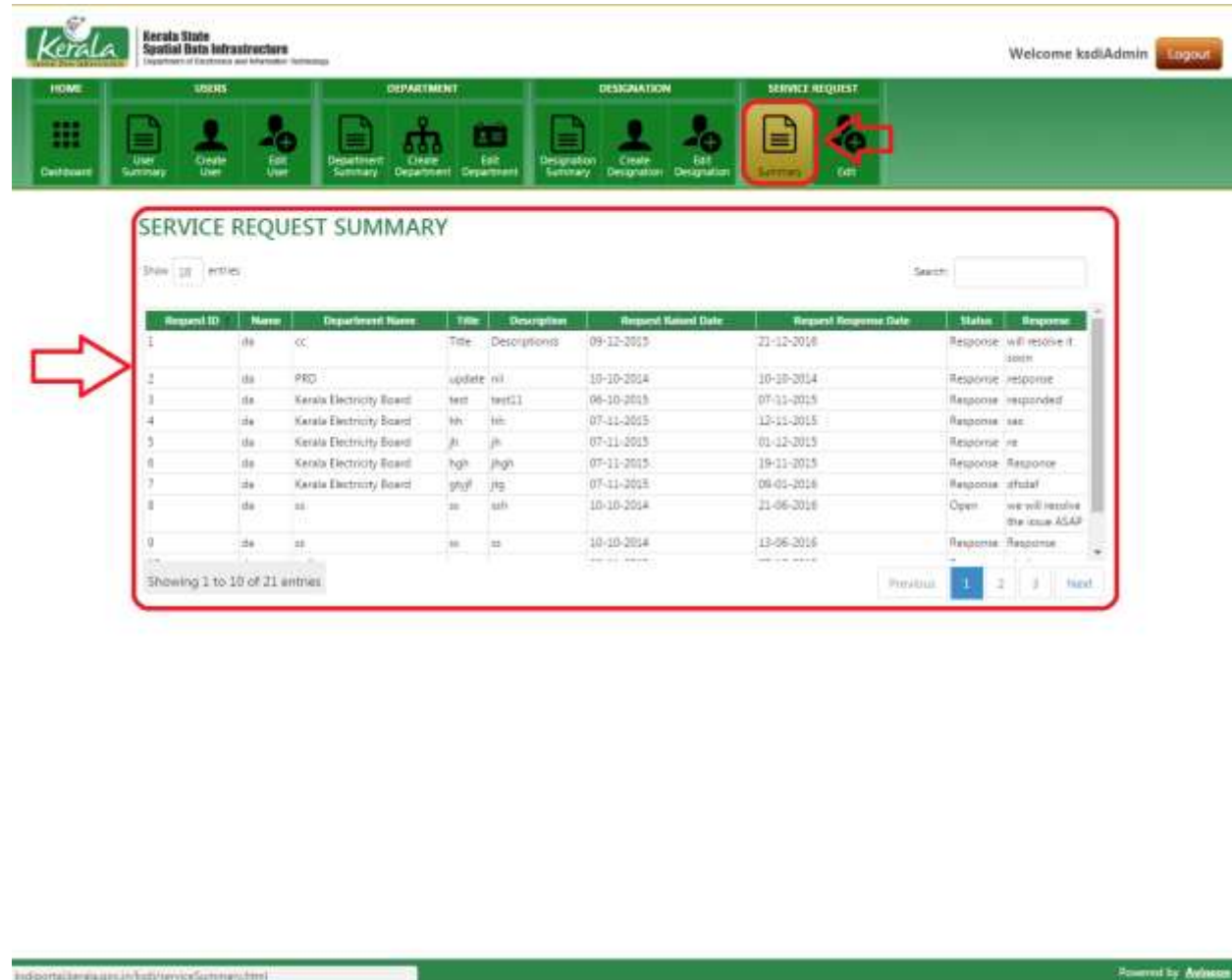
Figure 16: Service Request Summary Main Page

1. Please follow the path Home→Service Request→Service Request Summary, on clicking the Summary option, it displays a new window as shown in the **Figure 16**, where it displays the list of all service requests made by that particular user

3.1.2. Service Request Summary (Admin User)

This feature displays the history of service requests made by all users who can access the application.

The following **Figure 17** displays the number of service requests from all the users.



SERVICE REQUEST SUMMARY

Show 21 entries

Request ID	Name	Department Name	Title	Description	Request Raised Date	Request Response Date	Status	Response
1	da	cc	Title	Descriptions	09-12-2015	21-12-2016	Response	will resolve it soon
2	da	PRD	update	nil	10-10-2014	10-10-2014	Response	response
3	da	Kerala Electricity Board	test	test21	06-10-2015	07-11-2015	Response	responded
4	da	Kerala Electricity Board	hh	hh	07-11-2015	12-11-2015	Response	acc
5	da	Kerala Electricity Board	jh	jh	07-11-2015	01-12-2015	Response	re
6	da	Kerala Electricity Board	hgh	hgh	07-11-2015	19-11-2015	Response	Response
7	da	Kerala Electricity Board	ghgf	hfg	07-11-2015	06-01-2016	Response	afatal
8	da	ss	ss	ssh	10-10-2014	21-06-2016	Open	we will resolve the issue ASAP
9	da	ss	ss	ss	10-10-2014	13-06-2016	Response	Response

Showing 1 to 10 of 21 entries

Previous 1 2 3 Next

ksdportal.kerala.gov.in/ksdi/service/Summary.html

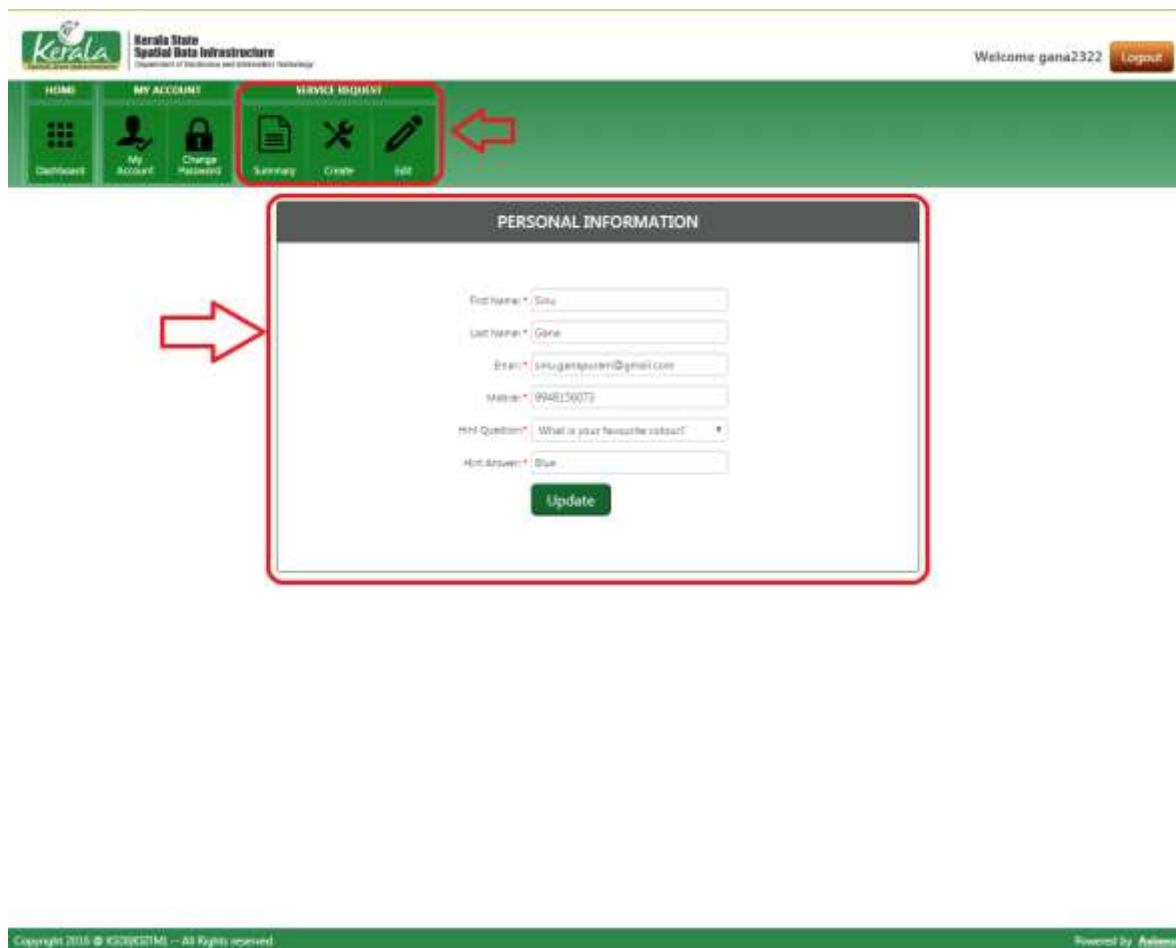
Powered by: Awinss

Figure 17: Service Request Summary Main Page

1. Please follow the path Home→Service Request→Service Request Summary, on clicking the Summary option, it displays a new window as shown in the **Figure 17**, where it displays the list of all service requests made all users

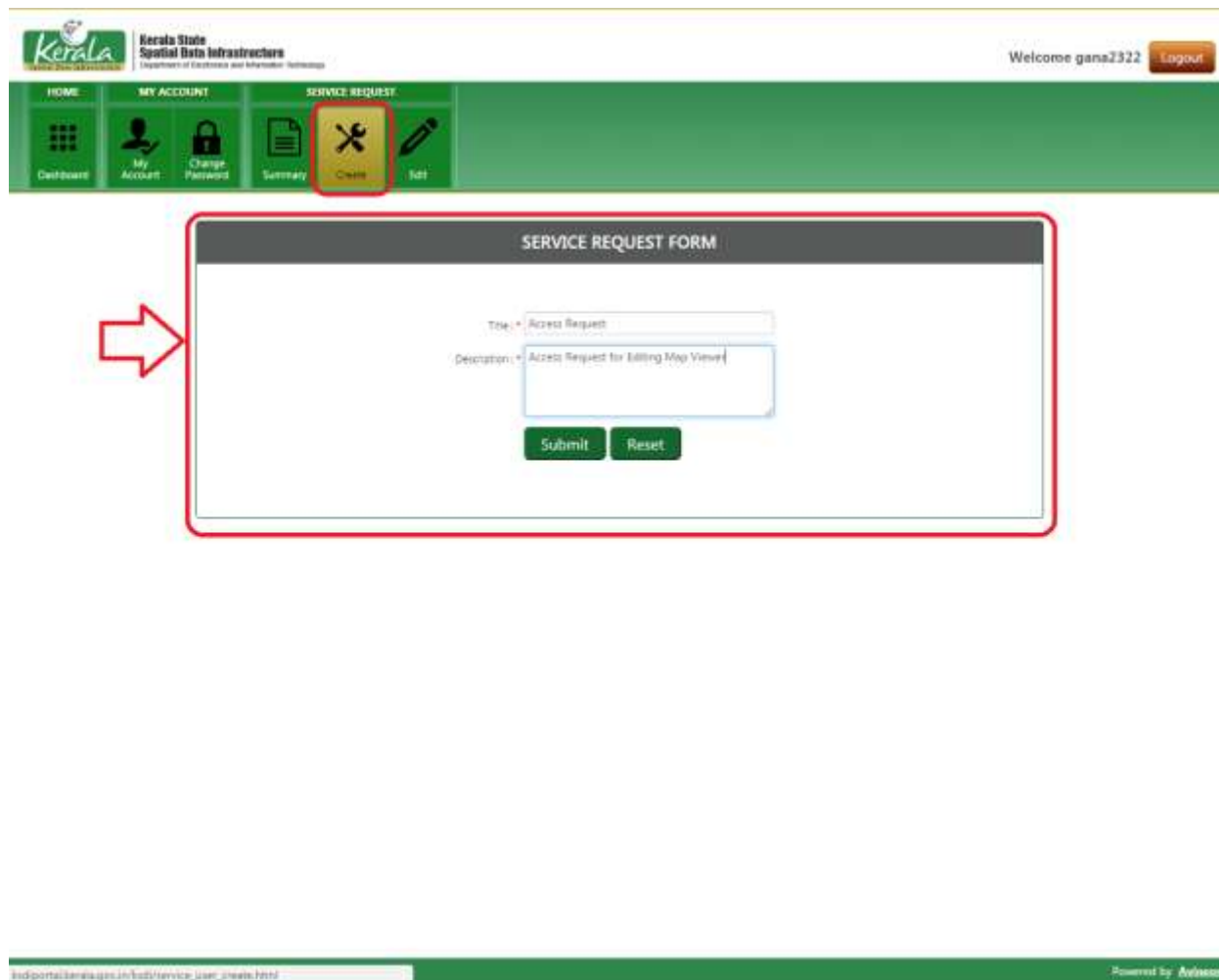
3.2. Creation of New Service Request

1. To raise a service request, we need to login into the application, here in the above, we logged in from 'gana2322', user credentials who is a general user
2. Please click on the 'My Account', as shown in the **Figure 15**, a new window is displayed as shown in the **Figure 18**
3. Here, we need to click on the 'Create', option under Service Request
4. A new window is displayed as shown in the **Figure 19**, where the user has to enter the required details and click on the 'Submit', button.
5. A small pop-up window is displayed showing the message as shown in the **Figure 20**



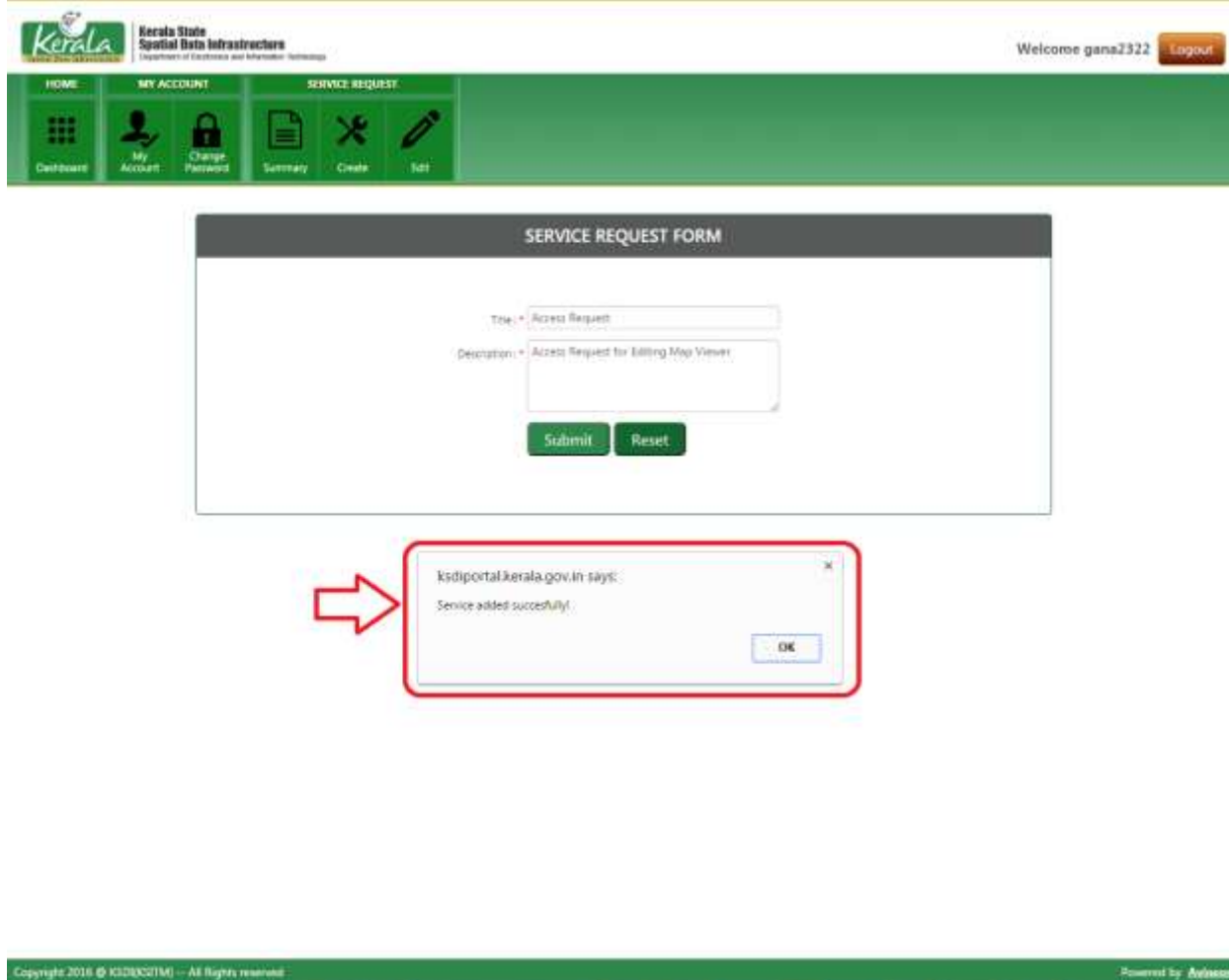
Copyright 2015 © KSDI2015M - All Rights reserved. Powered by Asterion

Figure 18: Service Request Detailed Page



The screenshot displays the 'Service Request Create Page' of the Kerala Geoportal. At the top, the header includes the Kerala State Spatial Data Infrastructure logo, the text 'Kerala State Spatial Data Infrastructure Department of Electronics and Information Technology', the 'KERALA GEOPORTAL' title, the 'KERALA STATE IT MISSION' logo, and the 'Govt. of Kerala' logo. Below the header, a navigation bar contains links for 'HOME', 'MY ACCOUNT', and 'SERVICE REQUEST'. The 'SERVICE REQUEST' section is highlighted with a red box, and a red arrow points to the 'Create' button. The main content area is titled 'SERVICE REQUEST FORM' and contains a form with two fields: 'Title' (with the value 'Access Request') and 'Description' (with the value 'Access Request for Editing Map View'). Below the fields are 'Submit' and 'Reset' buttons. The footer of the page shows the URL 'indportal.kerala.gov.in/ind/service_req_create.html' and the text 'Powered by: Aardium'.

Figure 19: Service Request Create Page



**Kerala State
Spatial Data Infrastructure**
Department of Electronics and Information Technology

Welcome gana2322 [Logout](#)

HOME **MY ACCOUNT** **SERVICE REQUEST**

Dashboard **My Account** **Change Password** **Summary** **Create** **Edit**

SERVICE REQUEST FORM

Title: Access Request

Description: Access Request for Editing Map Viewer

Submit **Reset**

ksdiportal.kerala.gov.in says:
Service added successfully!

OK

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Figure 20: Message of Creating a Service Request

3.3. Editing of Existing Service Request

This feature helps Administrator and internal/general user who raised the request can edit the existing service request within the department.

3.3.1. Editing of existing service request (Internal User)

This feature helps internal user who raised the request to edit the existing service request within the department.

The following **Figure 21** shows the process of editing existing service request from internal user 'gssuser' perspective.

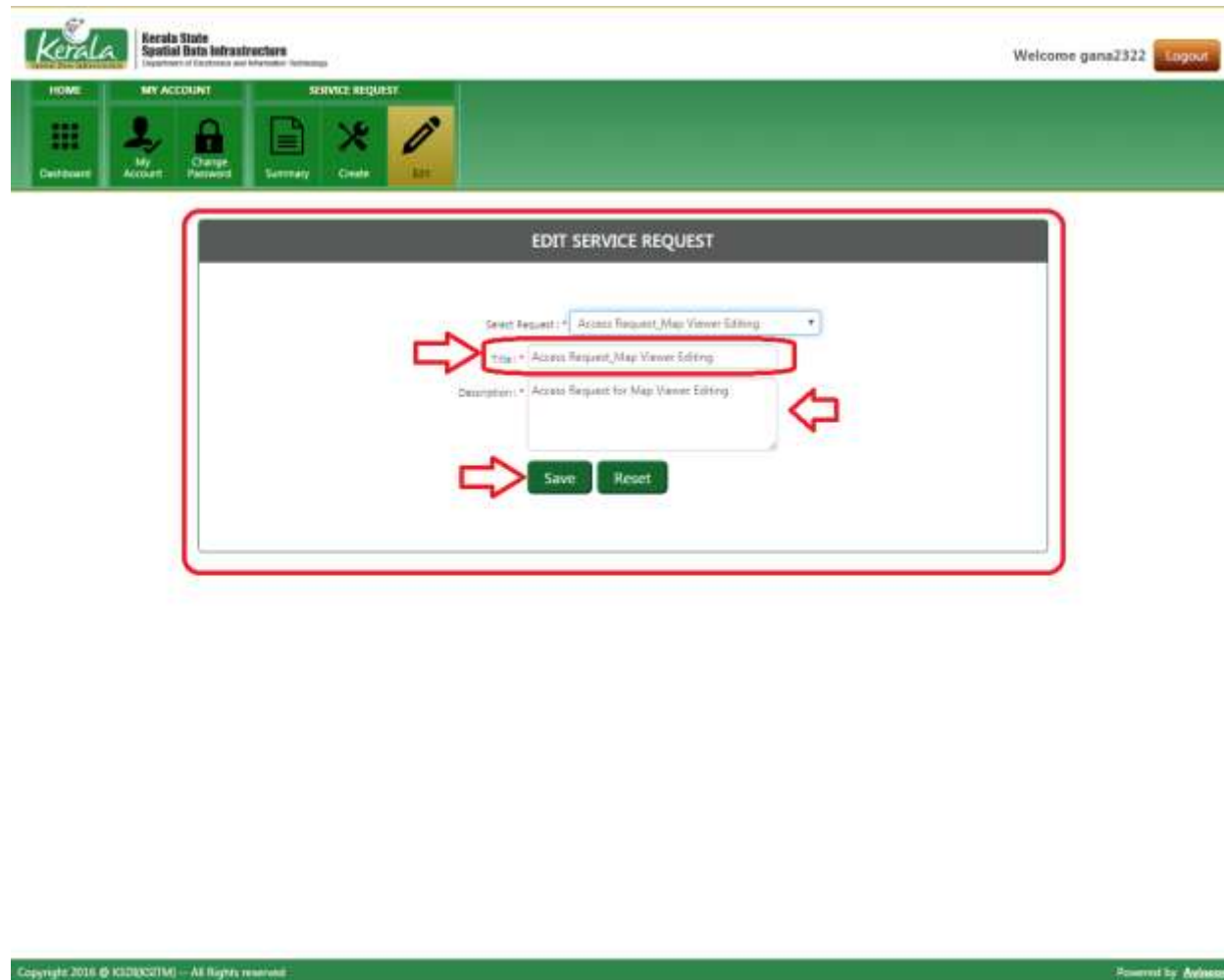


Figure 21: Internal User Edit Page

1. In order to raise a service request, we need to login into the application, here in the above, we logged in from 'gana2322', user credentials who is a general user
2. Please click on the 'My Account', as shown in the **Figure 15**, a new window is displayed as shown in the **Figure 18**
3. Here, we need to click on the 'Edit', option under Service Request

4. A new window is displayed as shown in the **Figure 21**, where the user has to change/edit the desired details and click on the 'Submit', button.
5. A small pop-up window is displayed showing the message as shown in the **Figure 22**

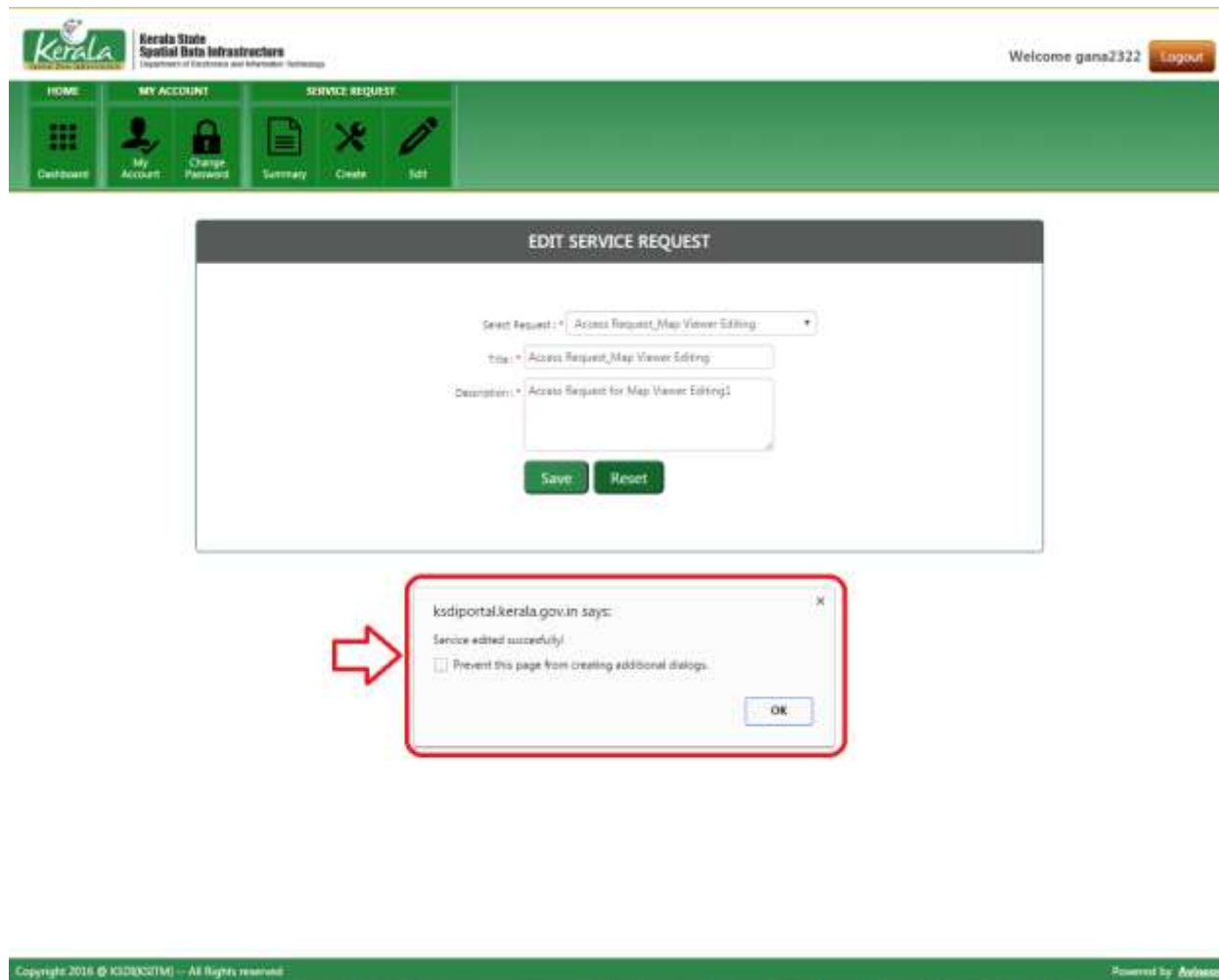
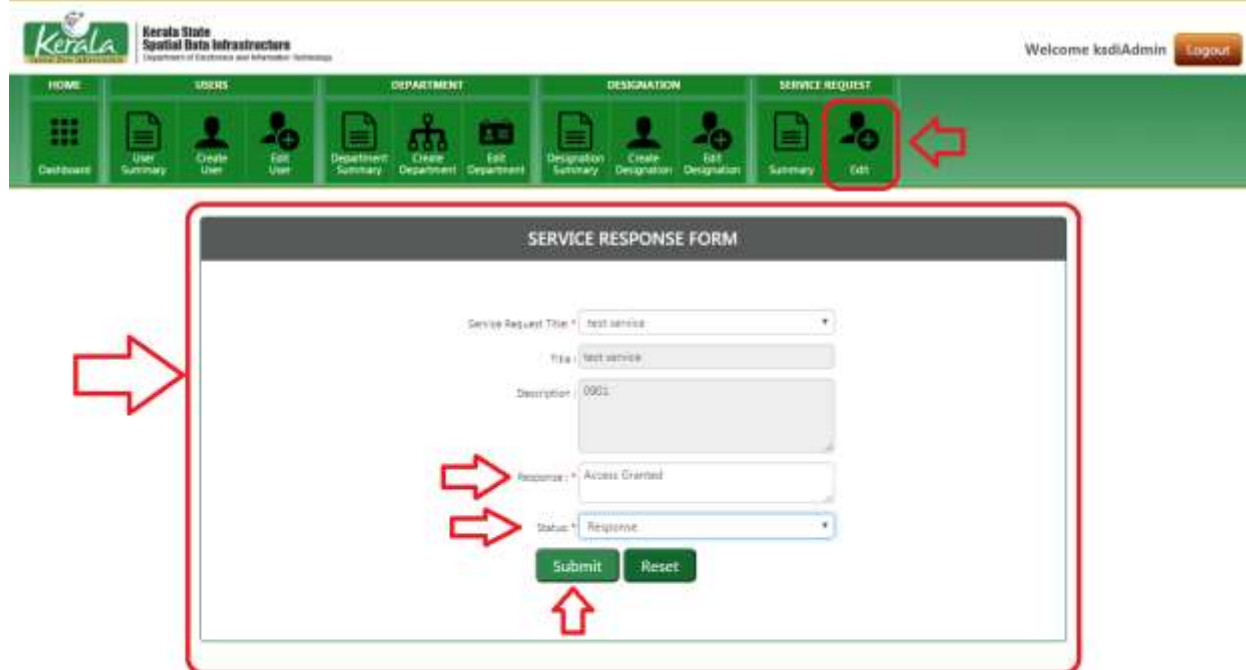


Figure 22: Message of Editing a Service Request

3.3.2. Editing of existing service request (Administrator)

This feature helps KSDI Administrator can edit the service request raised by internal/general users within the specific department.

The following **Figure 23** shows the process of editing existing service request from Administrator user 'admin' perspective.



The screenshot displays the admin interface of the Kerala State Spatial Data Infrastructure. The top navigation bar includes links for HOME, USERS, DEPARTMENT, DESIGNATION, and SERVICE REQUEST. The SERVICE REQUEST section is highlighted, and the 'Edit' button is selected. Below this, the 'SERVICE RESPONSE FORM' is shown. The form contains fields for Service Request Title (test service), Title (test service), Description (0901), Response (Access Granted), and Status (Response). The 'Submit' and 'Reset' buttons are at the bottom. Red arrows indicate the path from the 'Edit' button to the form and the 'Submit' button.

Figure 23: Admin User Editing Main Page

1. Login as 'admin', Please follow the path Service Request→Edit, please click on the 'Edit', button
2. A new window is displayed, where you need to update the details such as, Response and Service Status (can be changed to different options), as shown in the above **Figure 23**
3. Click on 'Submit', button, a message will be displayed as 'Service Request Updated successfully', in a small pop-up window as shown in the **Figure 24**



**Kerala State
Spatial Data Infrastructure**
Department of Electronics and Information Technology

Welcome ksdiAdmin [Logout](#)

HOME	USERS	DEPARTMENT	DESIGNATION	SERVICE REQUEST
Dashboard	User Summary Create User Edit User	Department Summary Create Department Edit Department	Designation Summary Create Designation Edit Designation	Summary Edit

SERVICE RESPONSE FORM

Service Request Title *

test service

Title

test service

Description

0901

Response *

Access Granted

Status *

Response

Submit

Reset



Figure 24: Message of Editing a Service Request

4. METADATA

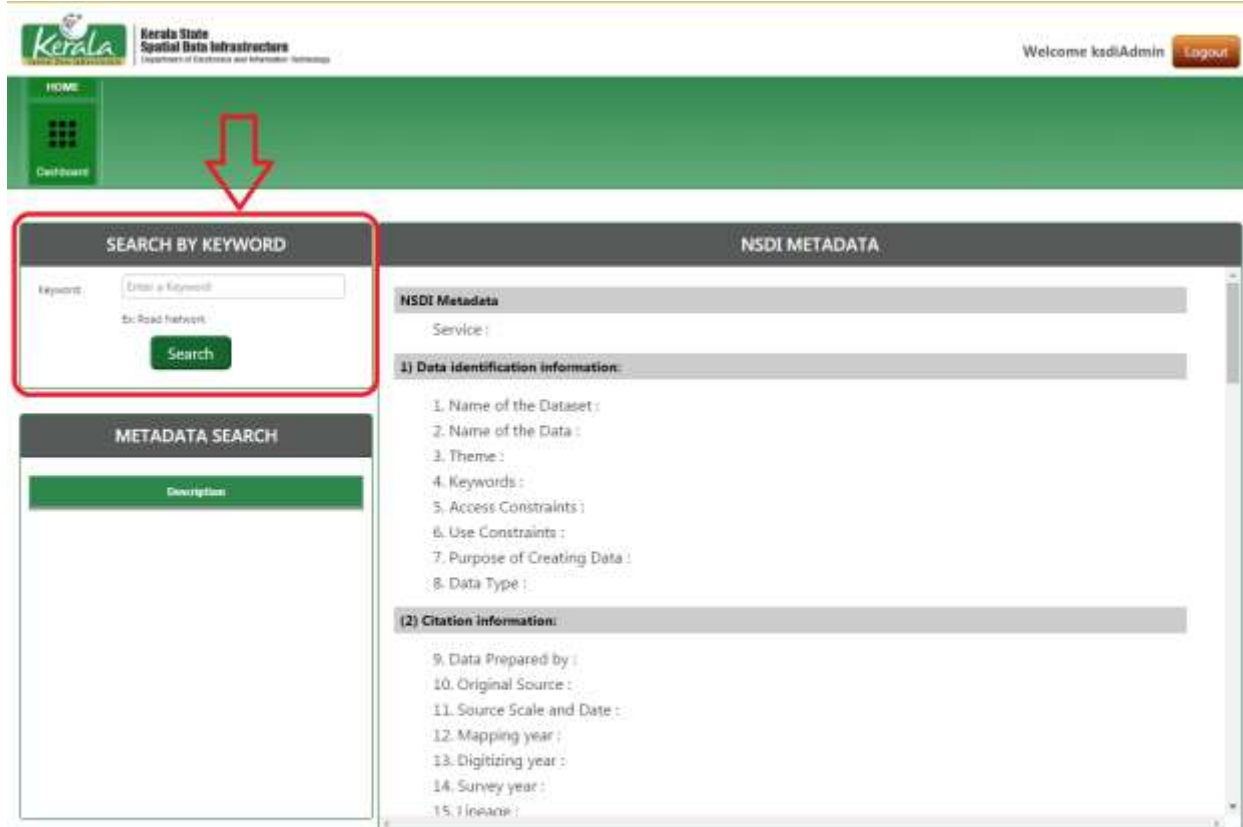
Information that describes the content, quality, condition, origin, and other characteristics of data or other pieces of information. Metadata for spatial data may describe and document its subject matter; how, when, where, and by whom the data was collected; availability and distribution information; its projection, scale, resolution, and accuracy; and its reliability with regard to some standard. Metadata consists of properties and documentation. Properties are derived from the data source (for example, the coordinate system and projection of the data), while documentation is entered by a person (for example, keywords used to describe the data).

The following **Figure 25** displays the selection page of KSDI Metadata in 'Administrator', user perspective.



Figure 25: Metadata Selection Page

1. Please follow the path Home→ Metadata, as shown in the **Figure 25**
2. On clicking the option, a new window is displayed as shown in the **Figure 27**



The screenshot shows the KSDI portal interface. At the top, there are logos for Kerala Spatial Data Infrastructure, Kerala State IT Mission, and Govt. of Kerala. Below the logos, there is a navigation bar with a 'HOME' button and a 'Logout' button. The main content area is divided into two sections: 'SEARCH BY KEYWORD' and 'NSDI METADATA'. The 'SEARCH BY KEYWORD' section is highlighted with a red box and a red arrow pointing to it. It contains a text input field labeled 'Keyword:' with the placeholder text 'Enter a Keyword', a dropdown menu labeled 'In: Road Network', and a green 'Search' button. Below this section is a 'METADATA SEARCH' section with a 'Description' button. The 'NSDI METADATA' section is on the right and contains a list of metadata fields under two categories: '1) Data identification information:' and '(2) Citation information:'. The fields are numbered 1 through 15.

SEARCH BY KEYWORD

Keyword:

In: Road Network

Search

METADATA SEARCH

Description

NSDI METADATA

NSDI Metadata

Service :


1) Data identification information:

1. Name of the Dataset :
2. Name of the Data :
3. Theme :
4. Keywords :
5. Access Constraints :
6. Use Constraints :
7. Purpose of Creating Data :
8. Data Type :

(2) Citation information:

9. Data Prepared by :
10. Original Source :
11. Source Scale and Date :
12. Mapping year :
13. Digitizing year :
14. Survey year :
15. License :

3. **Figure 26**, where the user has to enter the data in the 'Search by Keyword', field/pop-up window
4. After entering the data, please click on the 'Search', button to get the result of the metadata as shown in the **Figure 27**



**Kerala State
Spatial Data Infrastructure**
Department of Electronics and Information Technology

Welcome ksdAdmin [Logout](#)

HOME

Dashboard

SEARCH BY KEYWORD

to: Road Network

Search

METADATA SEARCH

Description

NSDI METADATA

NSDI Metadata

Service :

(1) Data identification information:

1. Name of the Dataset :
2. Name of the Data :
3. Theme :
4. Keywords :
5. Access Constraints :
6. Use Constraints :
7. Purpose of Creating Data :
8. Data Type :


(2) Citation information:

9. Data Prepared by :
10. Original Source :
11. Source Scale and Date :
12. Mapping year :
13. Digitizing year :
14. Survey year :
15. License :

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Figure 26: Metadata Main Page



**Kerala State
Spatial Data Infrastructure**
Department of Electronics and Information Technology

Welcome ksdAdmin [Logout](#)

HOME

Dashboard

SEARCH BY KEYWORD

Search

METADATA SEARCH

Tags: Web Feature Service, Intergraph, Hexagon, Geo

Description: null

Reg Date: 1/7/2017 4:48:58 PM

Service: WMS

Type: WMS

Tags: Web Feature Service, Intergraph, Hexagon, Geospatial, ERDAS

Description: null

Reg Date: 1/7/2017 4:48:18 PM

Service: WMS

Type: WMS

Tags: Web Feature Service, Intergraph, Hexagon, Geospatial, ERDAS

Description: null

Reg Date: 1/7/2017 4:48:18 PM

Service: WMS

Type: WMS

NSDI METADATA

Ksudp Tcr Road Network

NSDI Metadata

Service : Available

1) Data identification information:

1. Name of the Dataset : Kerala Corporations
2. Name of the Data : KSUDP_TCR_Road Network
3. Theme : Transport Network
4. Keywords : Category, Type
5. Access Constraints : Unrestricted
6. Use Constraints : Unrestricted
7. Purpose of Creating Data : As part of Kerala Sustainable Urban Development Project (KSUDP)
8. Data Type : Vector Data

(2) Citation information:

9. Data Prepared by : National Centre for Earth Science Studies (NCESS)
10. Original Source : Satellite data
11. Source Scale and Date : 1:5000
12. Mapping year : 2006
13. Digitizing year : 2007
14. Survey year : 2006

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Figure 27: Metadata Result Page

5. MAP VIEWER

Map Viewer is an easy way to view and access maps and data for all users (Administrators, Editor, Viewer and Citizen User), where they can access different types of data available within the portal with appropriate access levels.

Please click on 'Map Viewer icon/Map Viewer', option from the home page to enter into Map Viewer main page.

The following **Figure 28** displays the selection page of KSDI Map Viewer for 'Administrator', user perspective.



Dashboard

Metadata Search | **Map-Viewer** | Charts & Reports | My Account | Shopping Cart | Event Logs

USER SUMMARY

Last Login	10-03-2017
Department	ISOC Development Team
Role	Admin
LoggedIn	175.105.4.228
Service request open	22
Service request closed	22
Service request raised in the last 1 month	4
Service request closed in the last 1 month	2

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Figure 28: Map Viewer Selection Page

The following **Figure 29** displays the main page of KSDI Map Viewer for 'Administrator', user perspective.

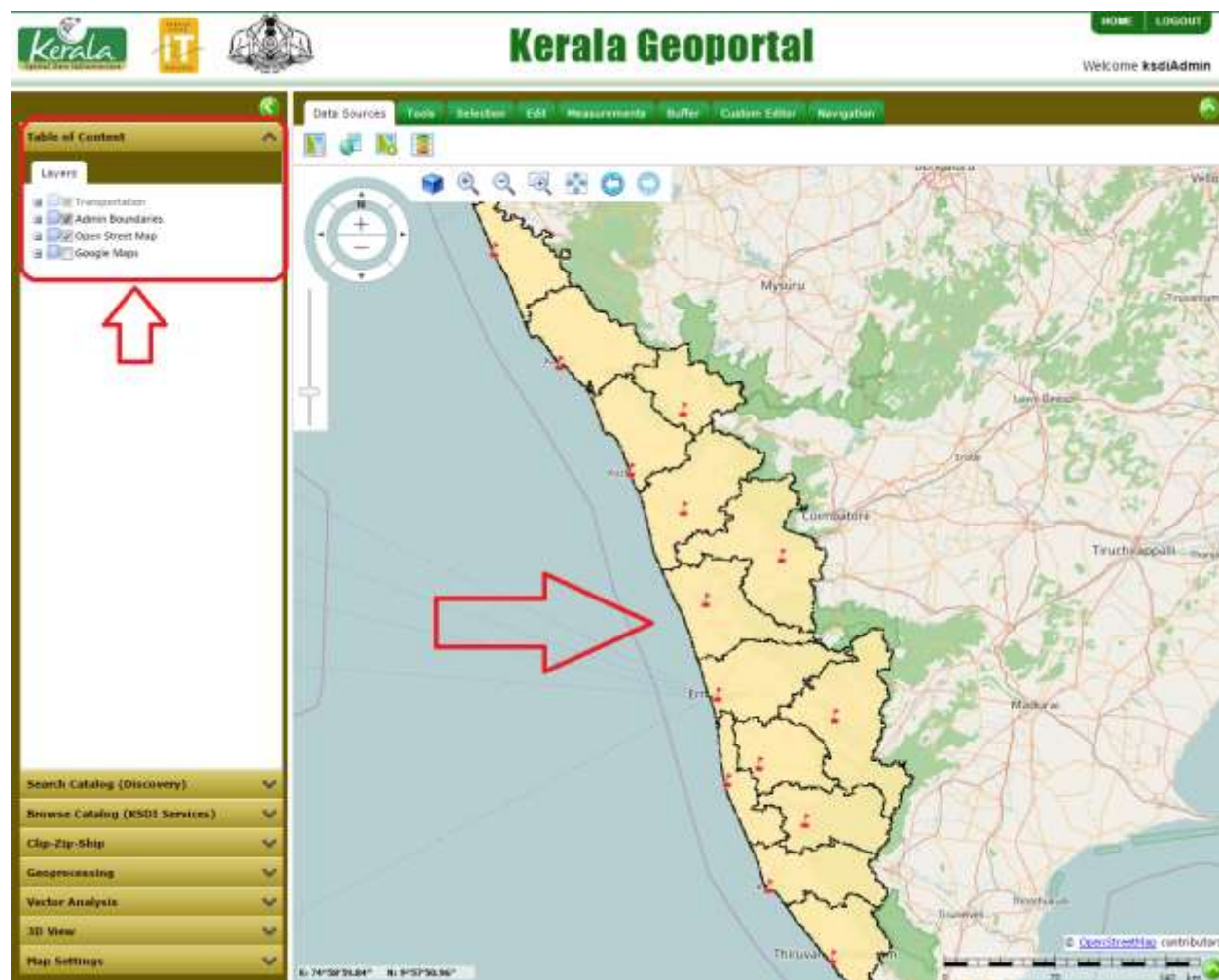


Figure 29: Map Viewer Main Page

1. Login as 'Admin', and click on Map Viewer, it redirects to next page as shown in the above **Figure 29**

5.1. Zoom in option of Map Viewer

This feature enables the user to zoom in to see the map in more detail. When the user clicks on



Icon, the scale increases to double.

The following **Figure 30** illustrates the 'Zoom In', option of Map Viewer.

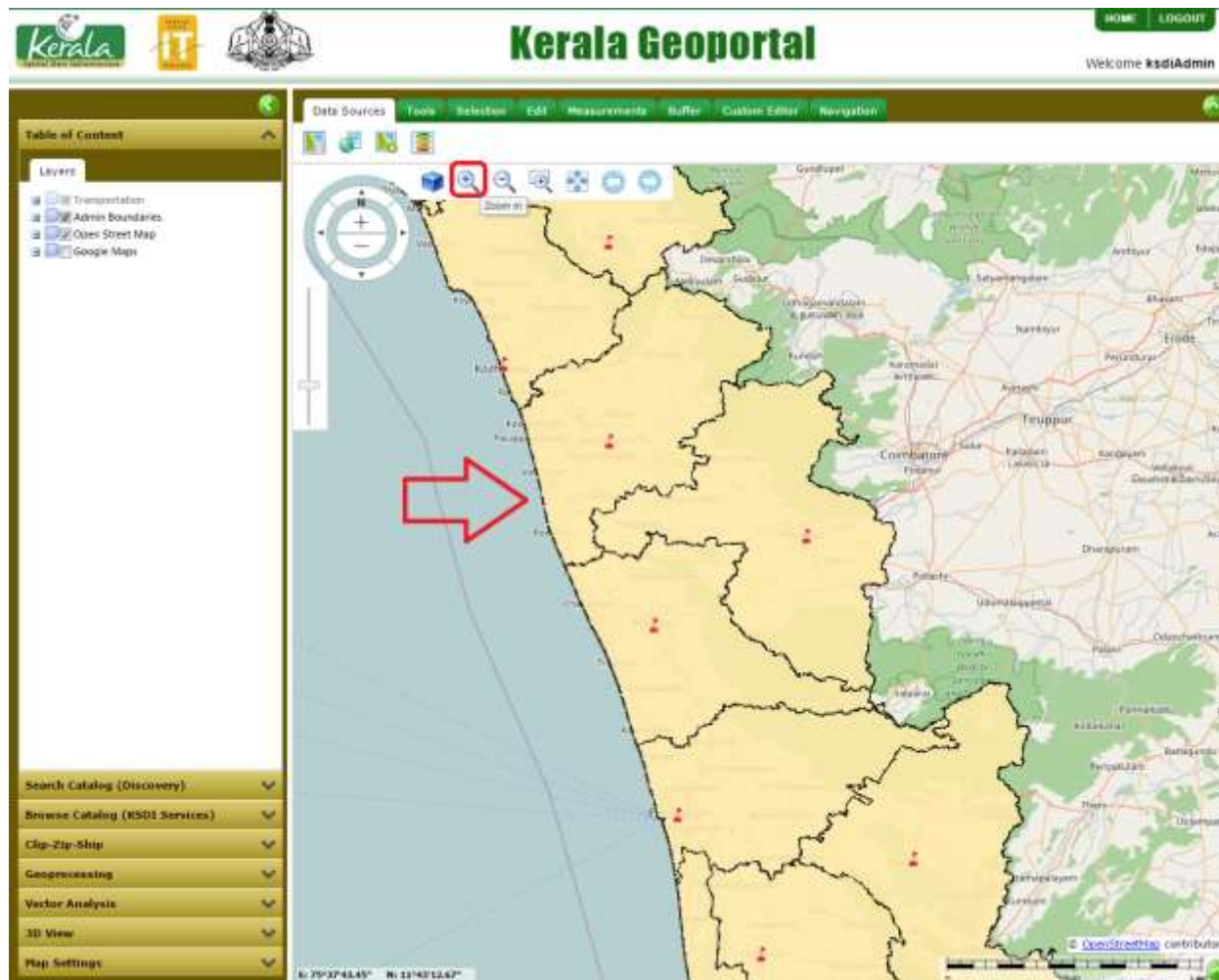


Figure 30: Zoom In

1. Please click on the highlighted option for zooming in the picture of the map as shown in the above figure.

5.2. Zoom Out option of Map Viewer

This feature enables the user to zoom out to see the map in more extent. When the user clicks on

 Icon, the scale decreases by about half.

The following **Figure 31** illustrates the 'Zoom Out', option of Map Viewer.

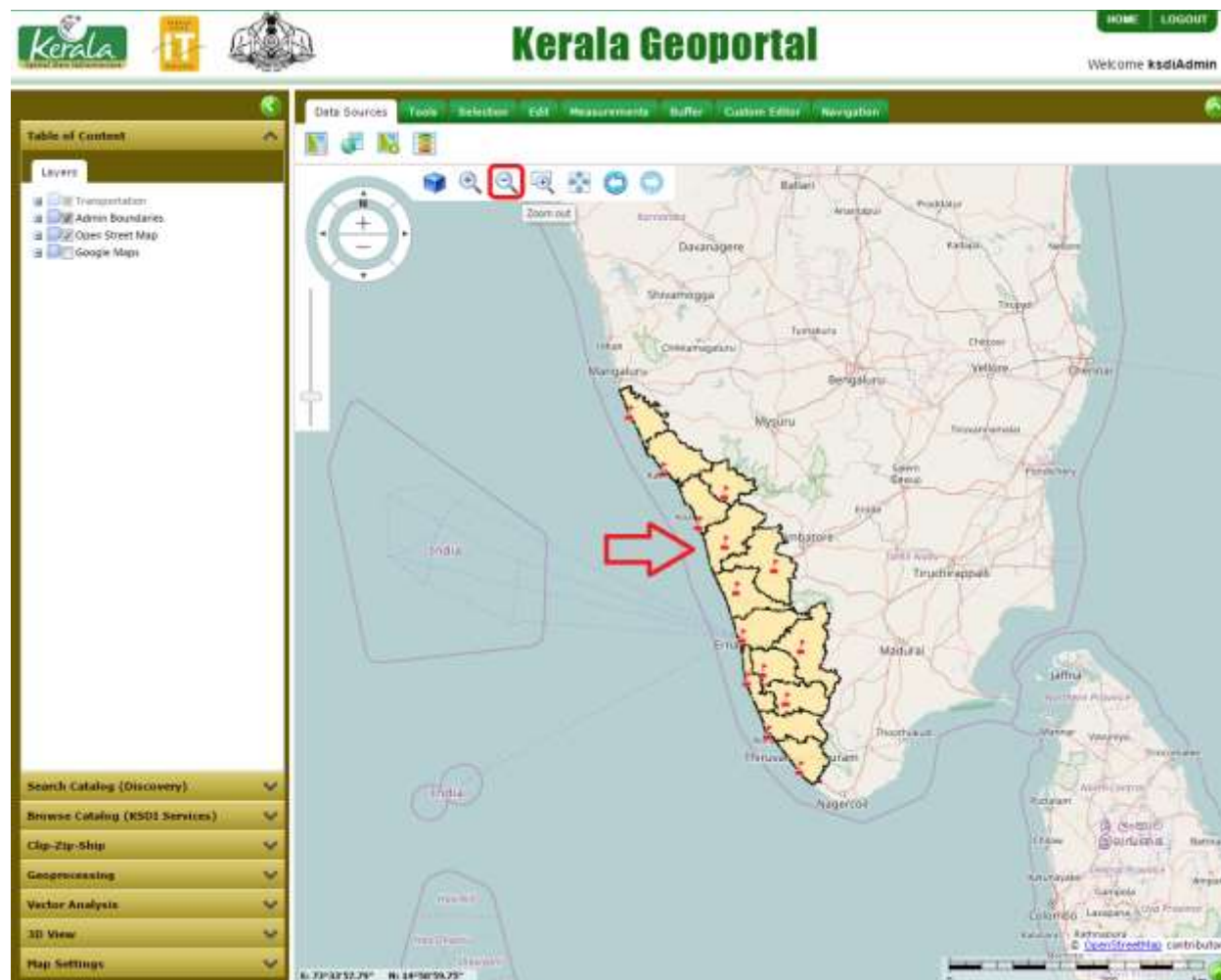


Figure 31: Zoom Out

1. Please click on the highlighted option for zooming out the picture of the map as shown in the above figure.

5.3. Zoom Rectangle of Map Viewer

This feature helps the user to draw a rectangle shape on the map to define the desired view extend. Here, zooming can also achieved by a mouse scroll or by using the slider to the left.

The following **Figure 32, Figure 33, Figure 34** illustrates the 'Zoom Rectangle', option of Map Viewer.

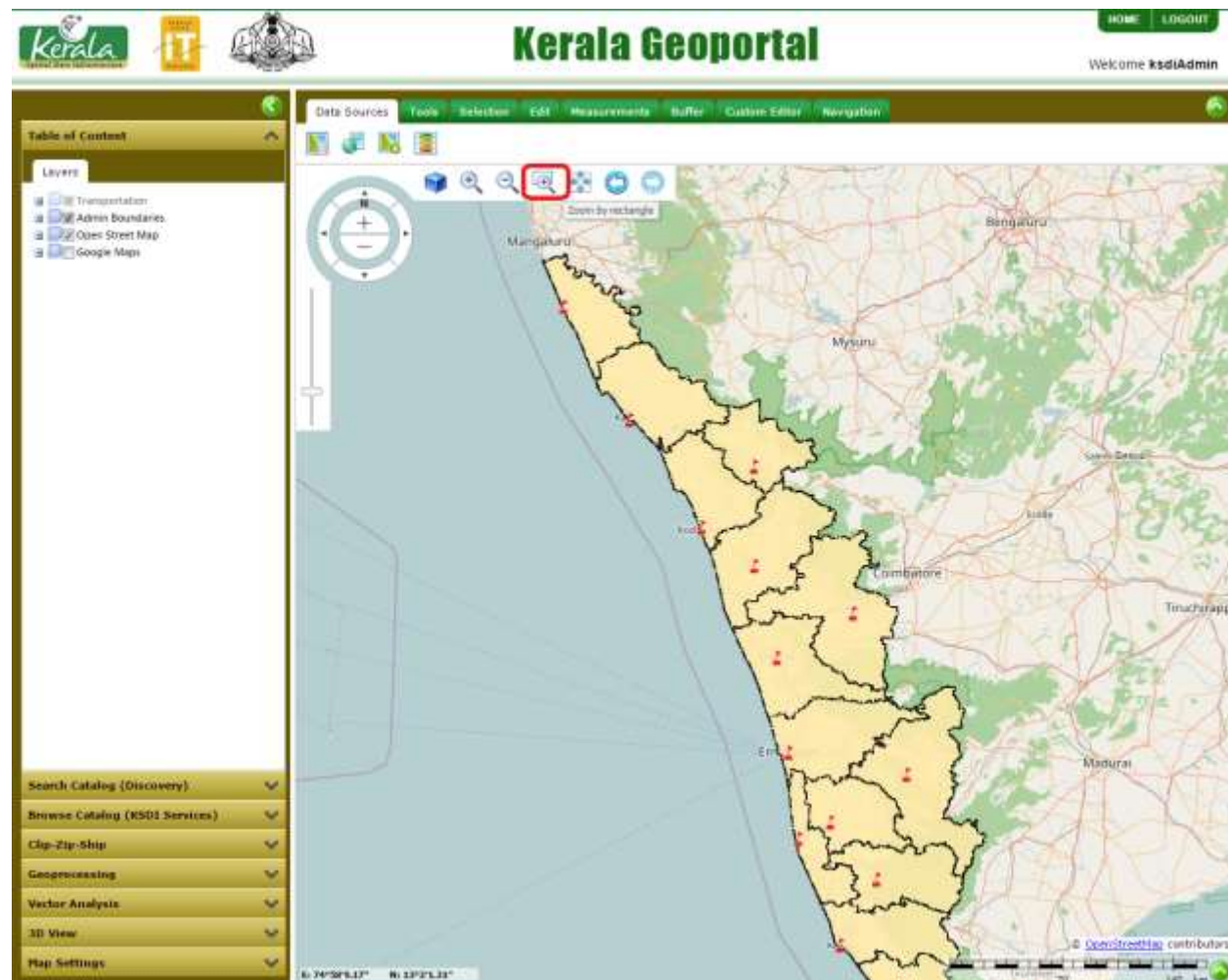


Figure 32: Zoom Rectangle Main Page

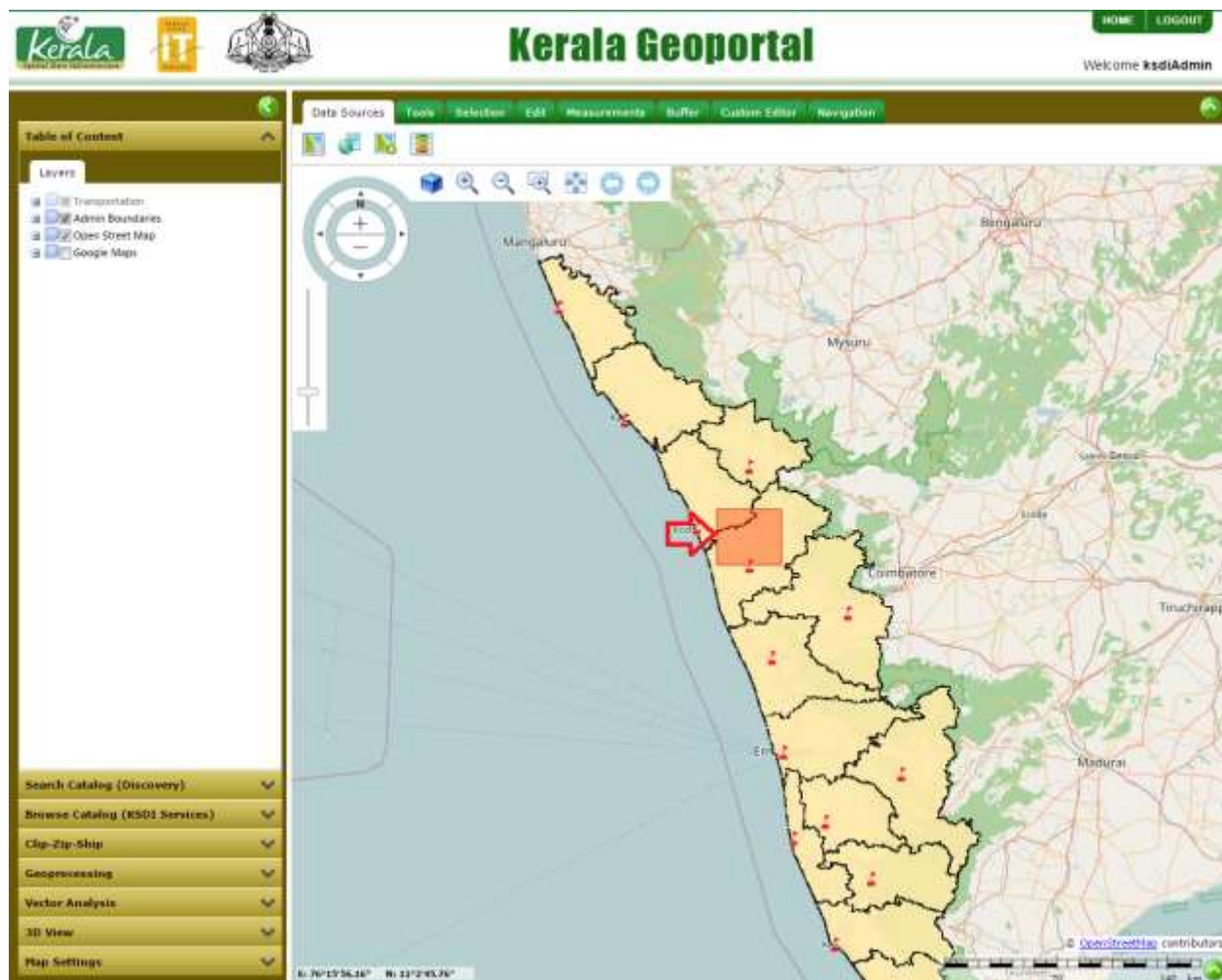


Figure 33: Zoom Rectangle Selection Page

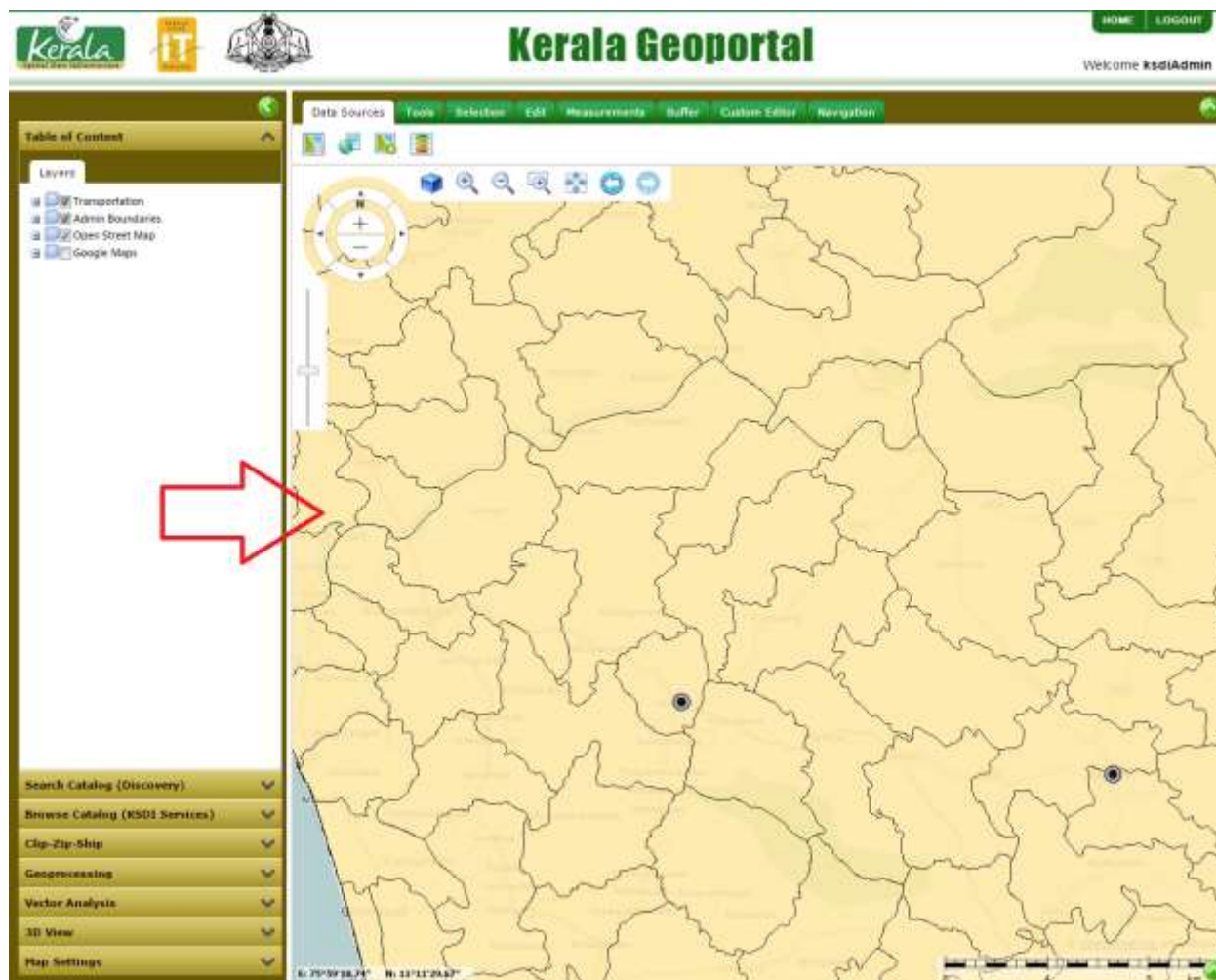


Figure 34: Zoom Rectangle Result Page

5.4. Fit all of Map Viewer

This feature helps the user to zoom back to full map extent.

The following **Figure 35** illustrates the 'Fit all', option of Map Viewer.

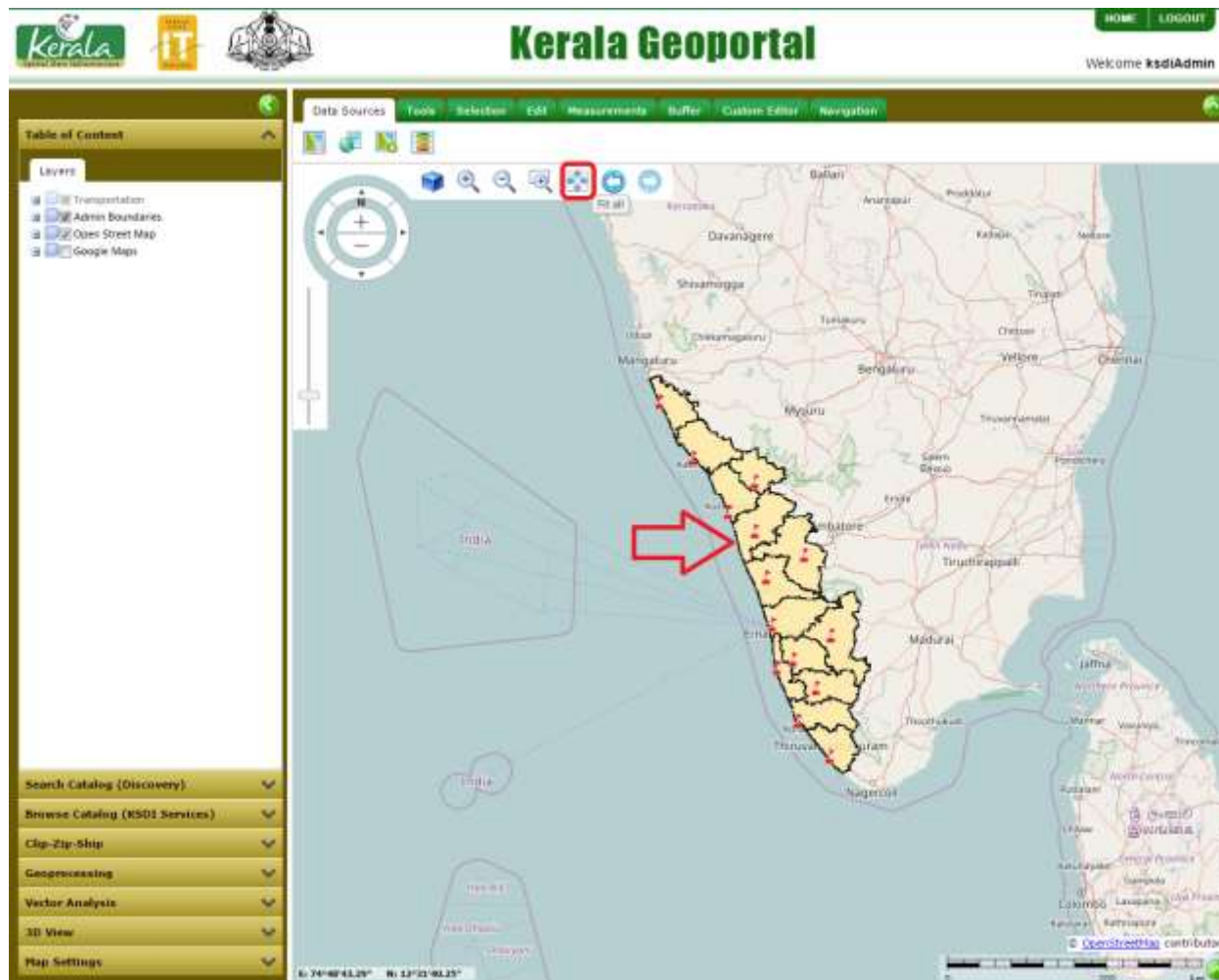


Figure 35: Fit all

5.5. Previous Map View of Map Viewer

This feature helps the user to zooms to previous viewed extent.

The following **Figure 36** illustrates the 'Previous Map View', option of Map Viewer.

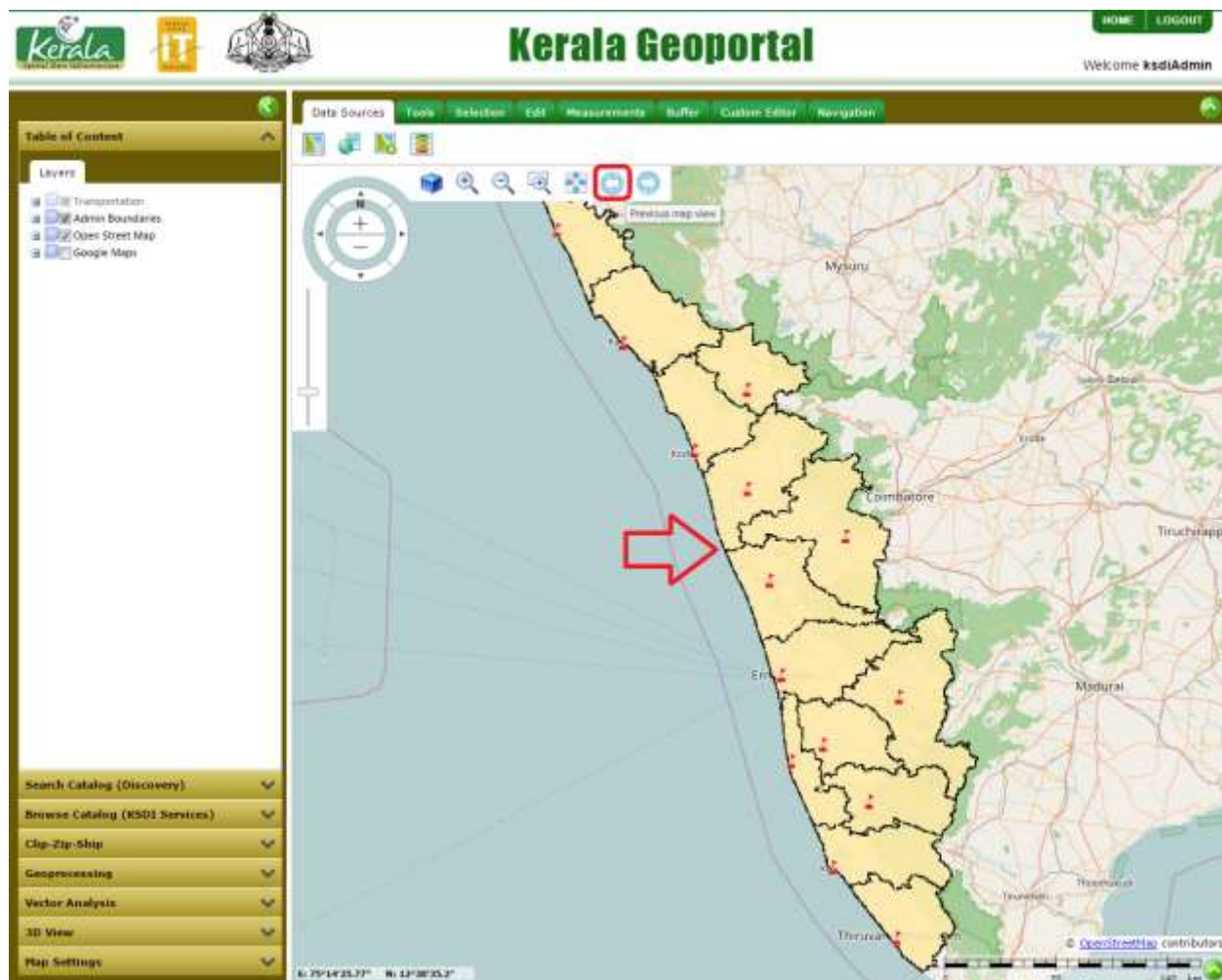


Figure 36: Previous Map View

5.6. Next Map View of Map Viewer

This feature helps the user to zooms to next viewed extent.

The following **Figure 37** illustrates the 'Next Map View', option of Map Viewer.

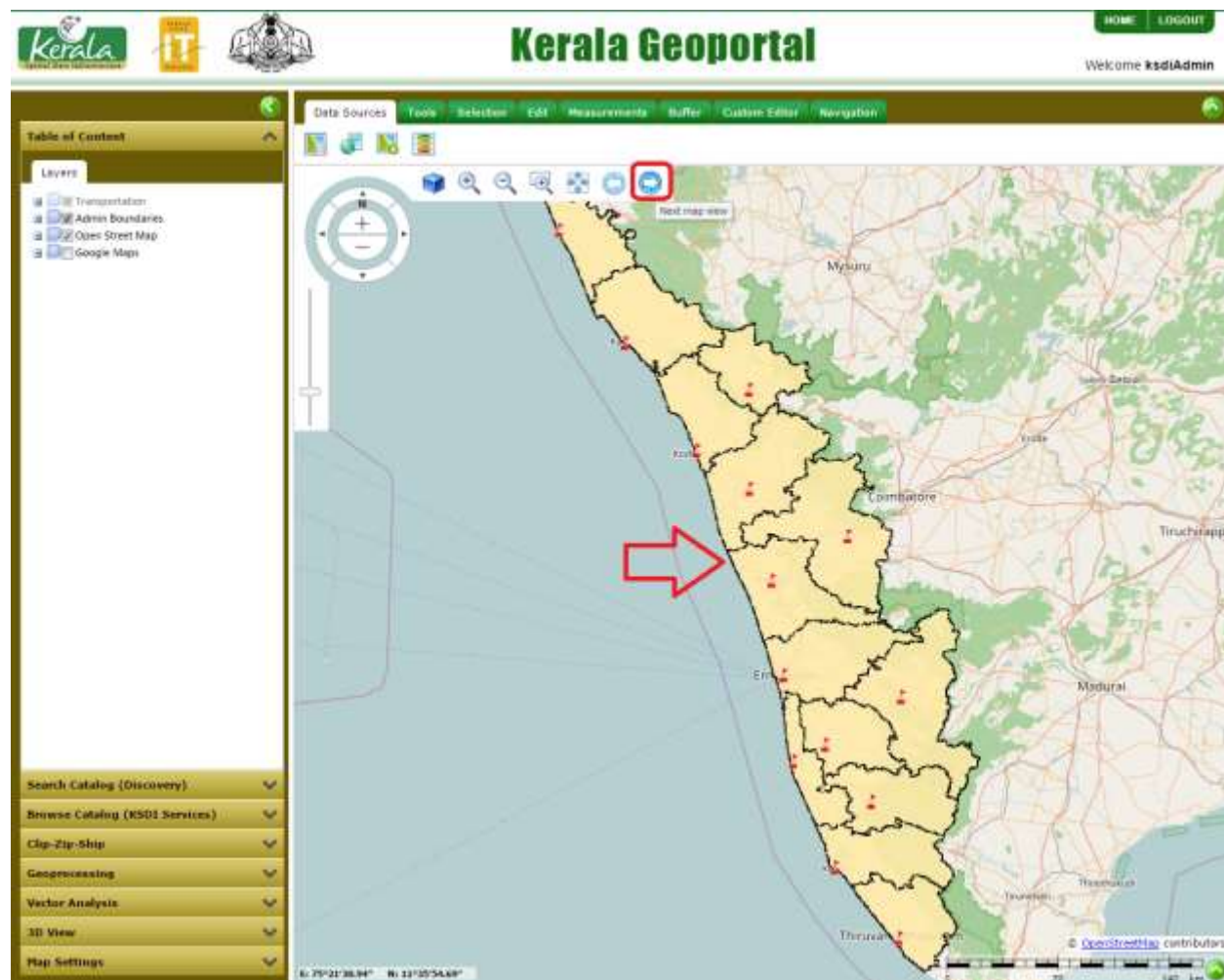


Figure 37: Next Map View

5.7. Layers of Map Viewer

This feature helps the user to display the layers that are currently available in the map window. To change the order of the layers on the map, use drag and drop to change the order of the corresponding elements in the Layers tab. The user can control the display of a layer with a check box next to the layer name.

The following **Figure 38** illustrates the 'Layers', option of Map Viewer.

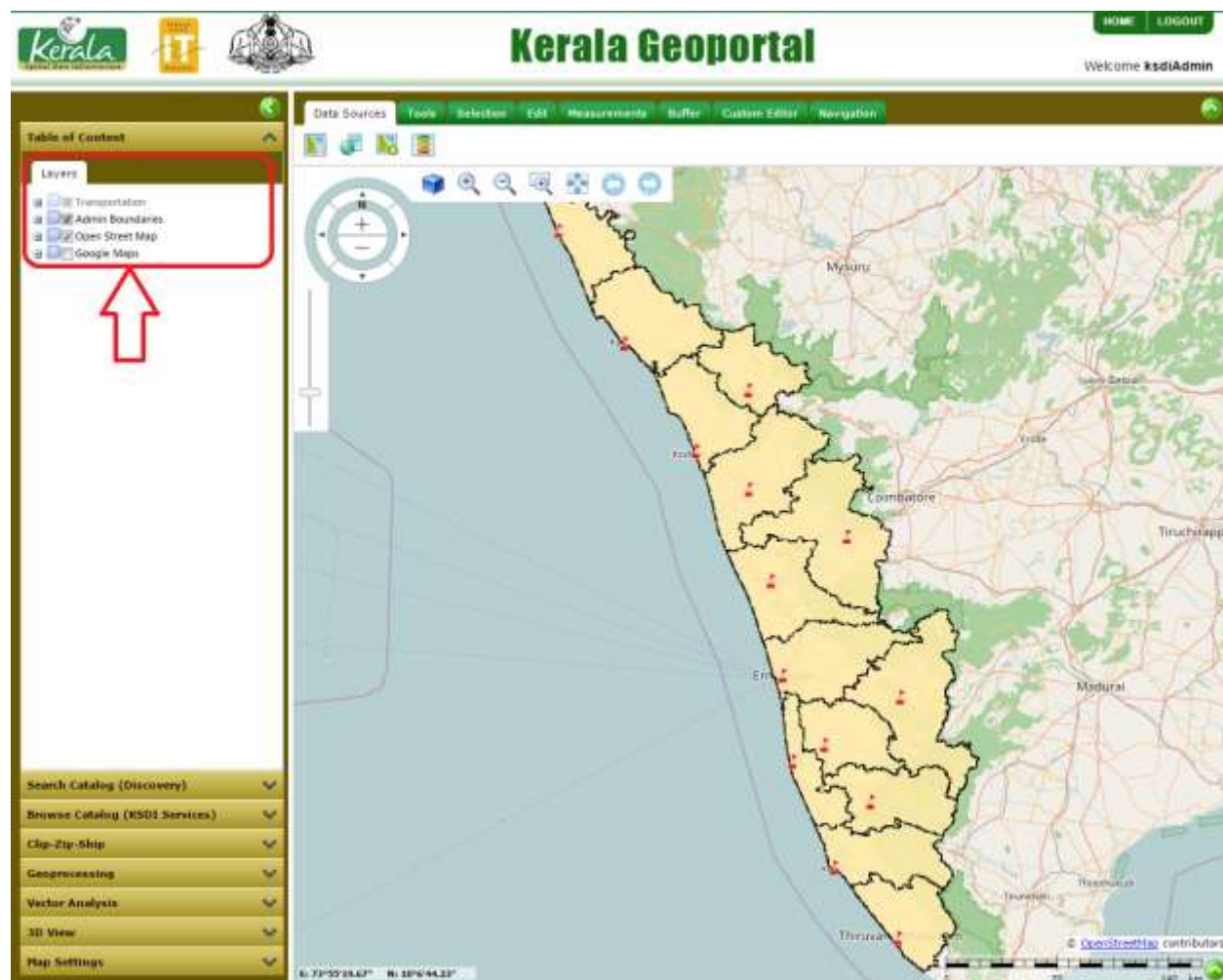


Figure 38: Layers Main Page

1. The user has to select the options from the left side bar window as shown in the **Error! Reference source not found.**
2. On selecting/checking the options in left side bar of the window it displays the selected option categories

5.8. Data Sources

5.8.1. Data Sources

This feature displays all the existing data sources of the application.

The following **Figure 39** illustrates the display of all available 'Data Sources' of the application.

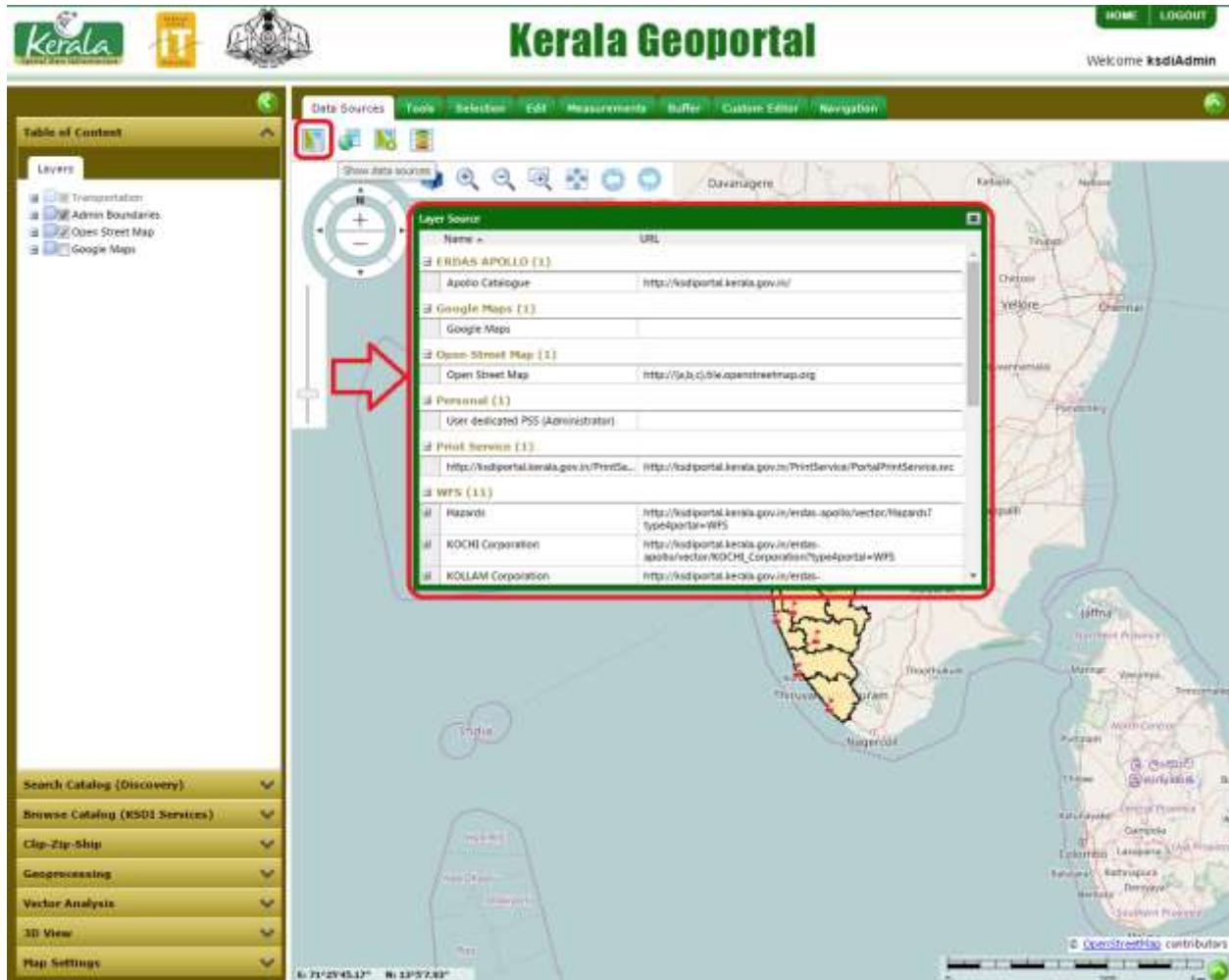


Figure 39: Displaying existing Data Sources

1. Please follow the path Map Viewer→Data Sources, please click on the first option, on clicking, it displays a pop-up window, where it displays the list of all existing Data Sources within the application as shown in the **Figure 39**

5.8.2. New Data Source

This feature helps the user to add a new data source from system defined data.

The following **Figure 40** illustrates the creation of 'New Data Source' to the application.

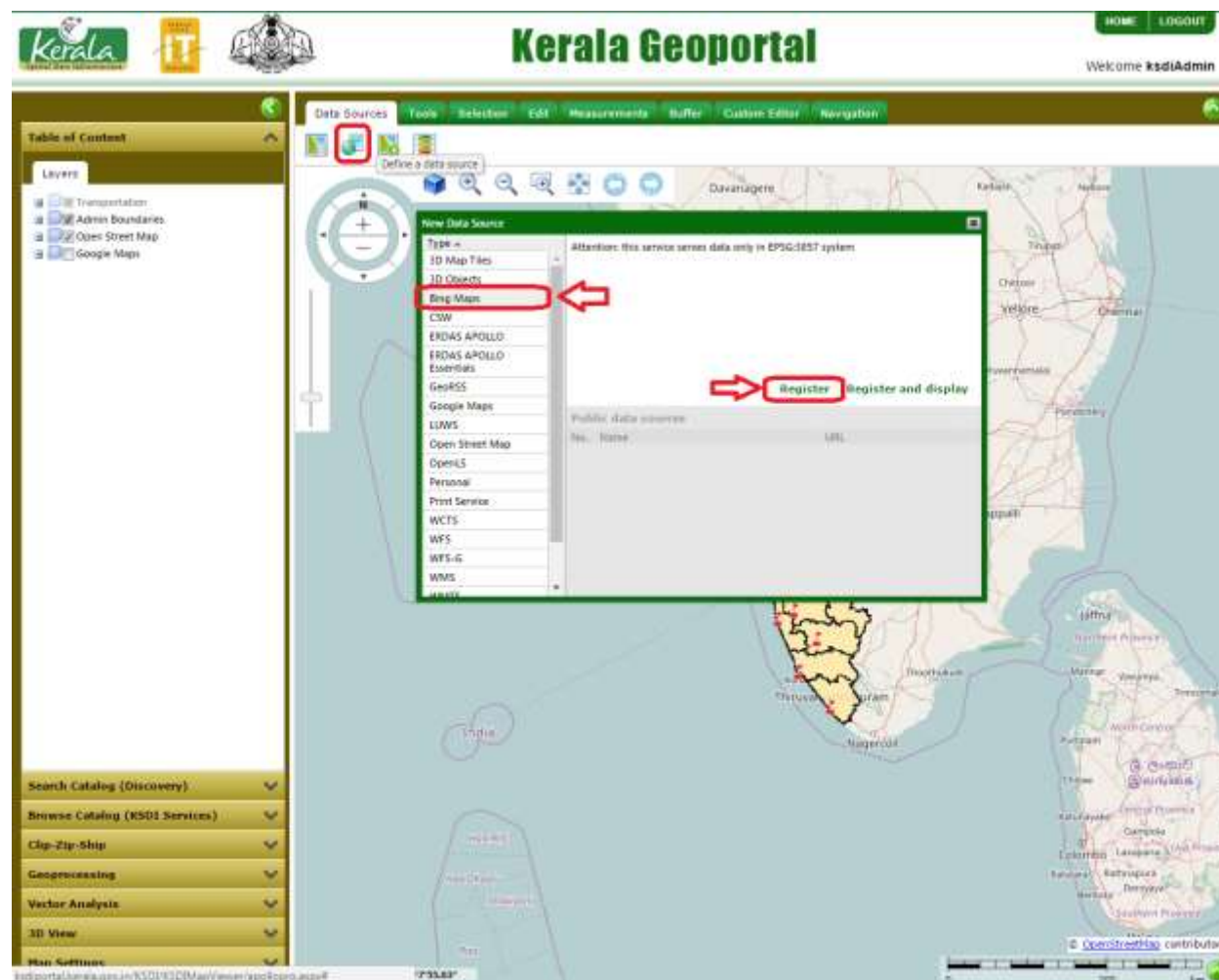


Figure 40: Creation of New Data Source

1. Please follow the path Map Viewer→Data Sources, please click on the second option, on clicking, it displays a pop-up window, where the user has to select from the list displayed on the left side of the window, shown in the **Figure 40**
2. After selecting the option, please click on the register button to add that option to the existing Data Sources

5.8.3. Display Maps

This feature helps the user to display the Map in the desired format such as 'Open Street Map', 'Admin Boundaries', 'Transportation'

The following **Figure 41** illustrates Display Map feature.

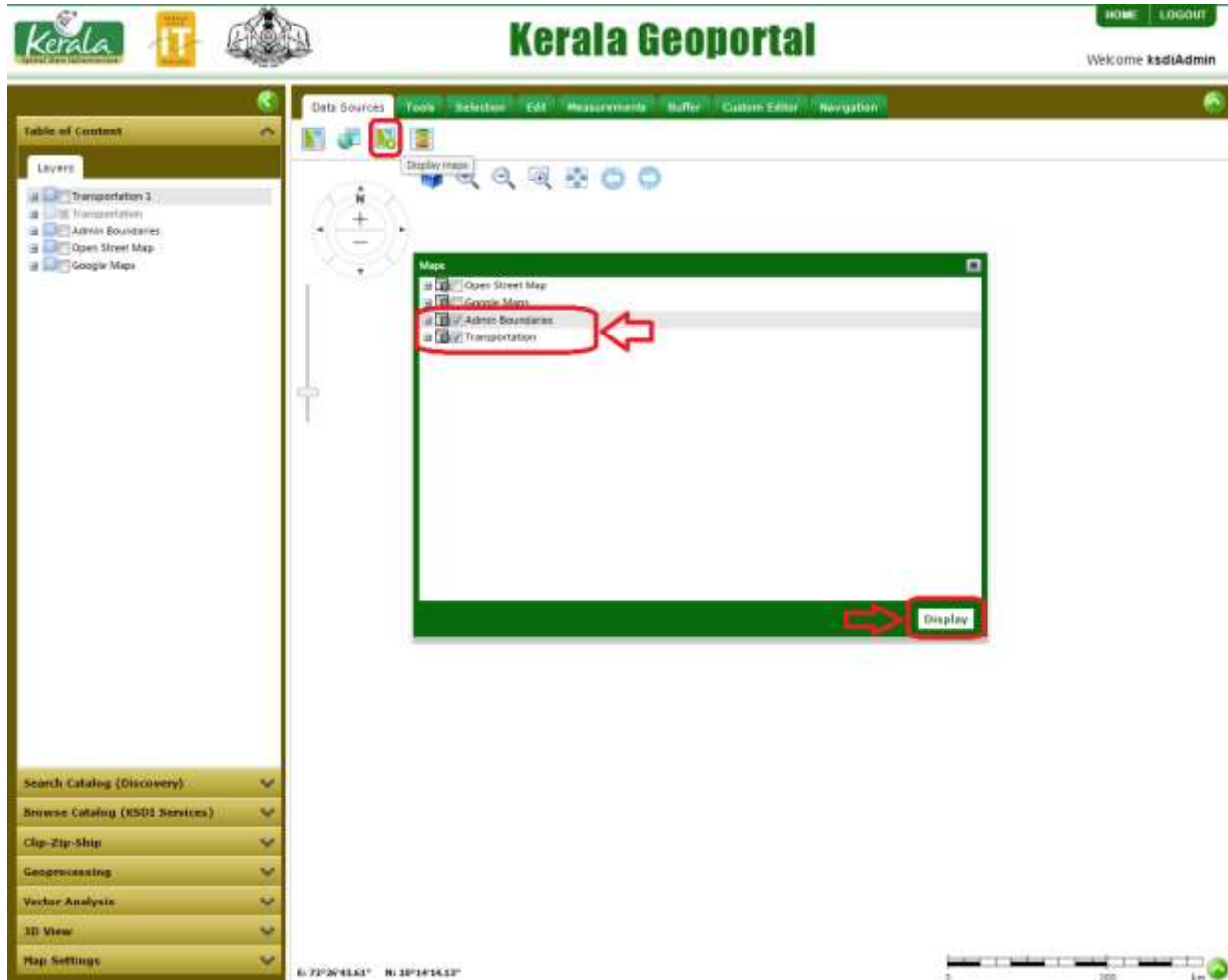


Figure 41: Display Map Selection Page (Transportation and Admin Boundaries)

1. Please follow the path Map Viewer→Display Maps, please click on the third option, on clicking, it displays a pop-up window as shown in the **Figure 41**, where the user has to select the option from different options
2. After selecting an option, the Map is being displayed in the specified option, Here, the user has selected 'Admin Boundaries and Transportation', so the result is being displayed in the background as the selected options as shown in the **Figure 42**

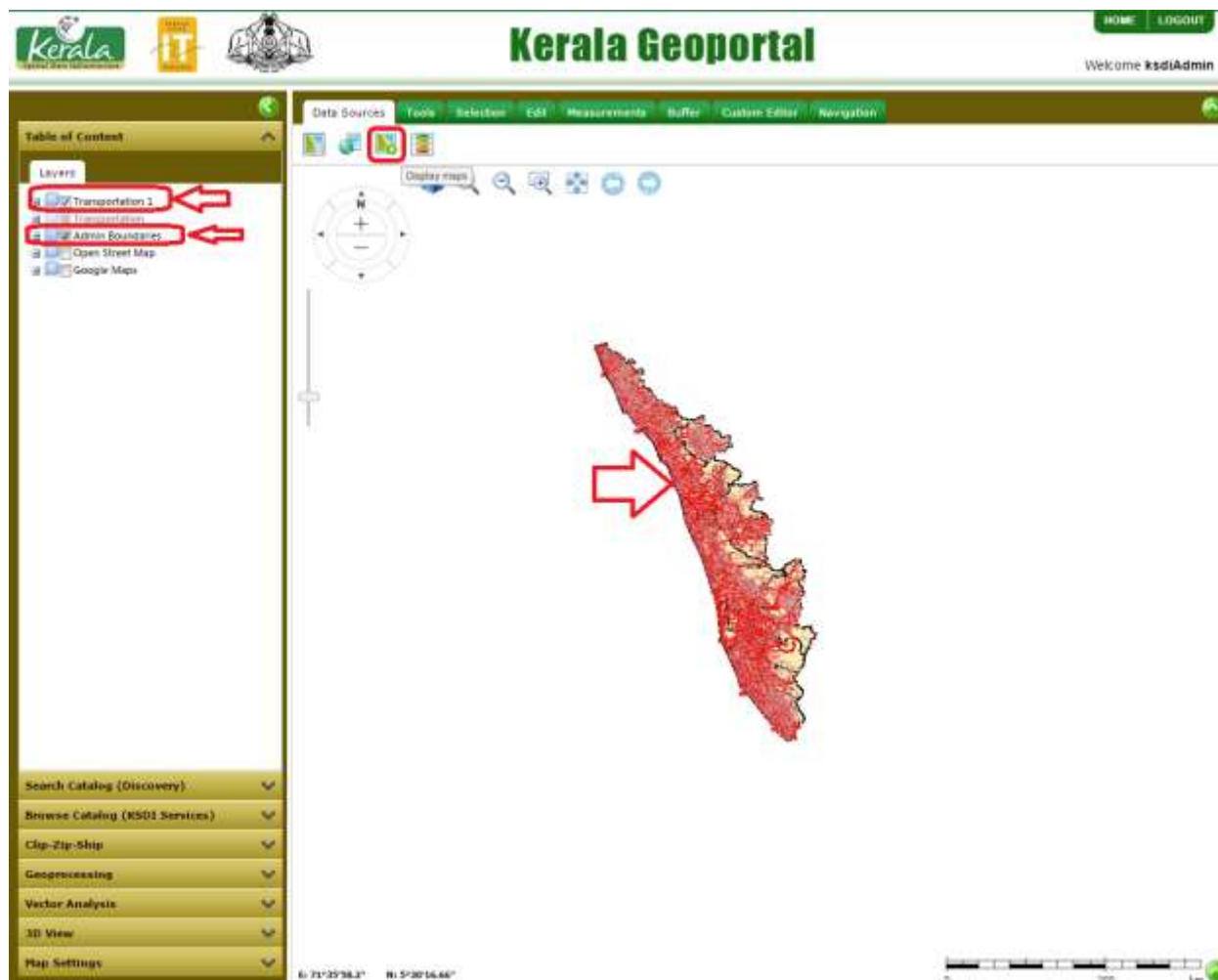


Figure 42: Display Map Result Page (Transportation and Admin Boundaries)

5.8.4. Display Feature Classes

This feature helps the user to select the feature classes from the list of different maps such as 'Open Street Map', 'KOCHI Corporation', 'Admin Boundaries', and etc.

Here in the below **Figure 43**, we selected/checked the option as 'Open Street Map', 'KOCHI Corporation', 'Admin Boundaries'.

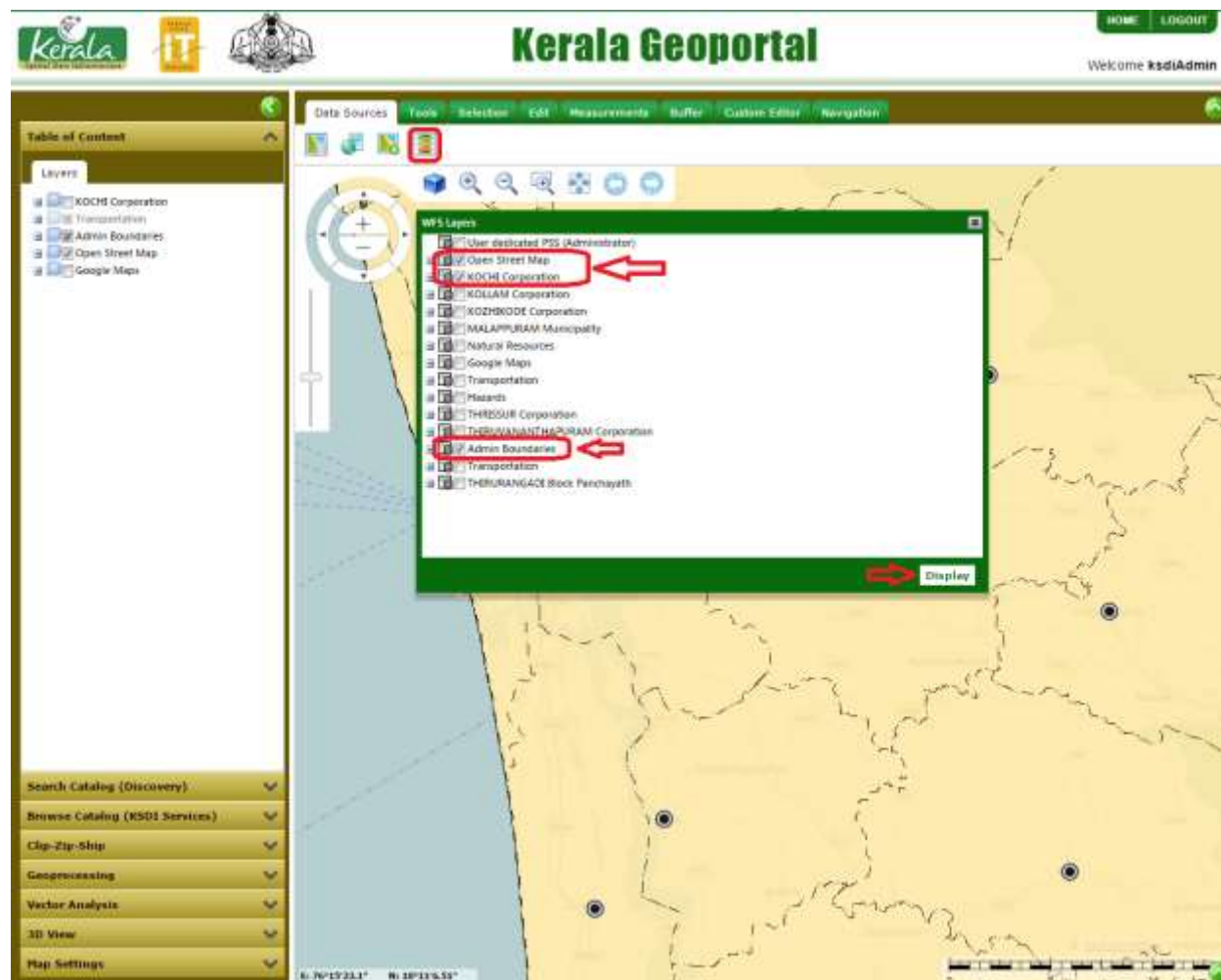


Figure 43: Display Feature Class Selection Page

1. Please follow the path Map Viewer→Display Feature Classes, please click on the sixth option, on clicking, it displays a pop-up widow, where the user has to select the option from different options
2. After selecting the option, Here, the user has selected 'Open Street Map', 'KOCHI Corporation', 'Admin Boundaries', now click on the 'Display', button, the result automatically displays in the background as Open Street view as shown in the **Figure 44**

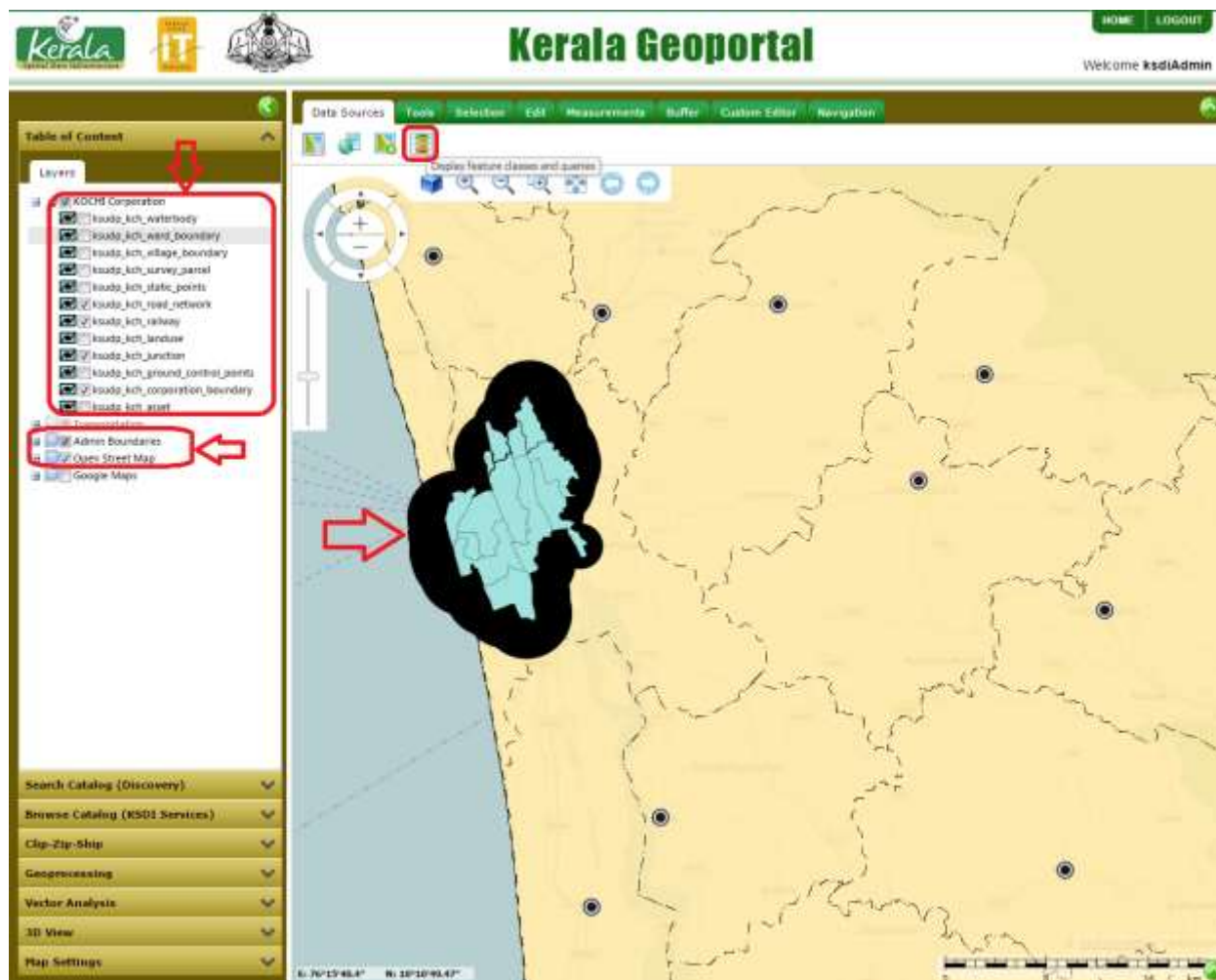


Figure 44: Display Feature Class Result Page

5.9. Tools

5.9.1. Feature Info

This feature helps the user to click and see the attribute information such as State Boundary, District Boundary and etc.

The following **Figure 45**, illustrates the selection page of Feature Info.

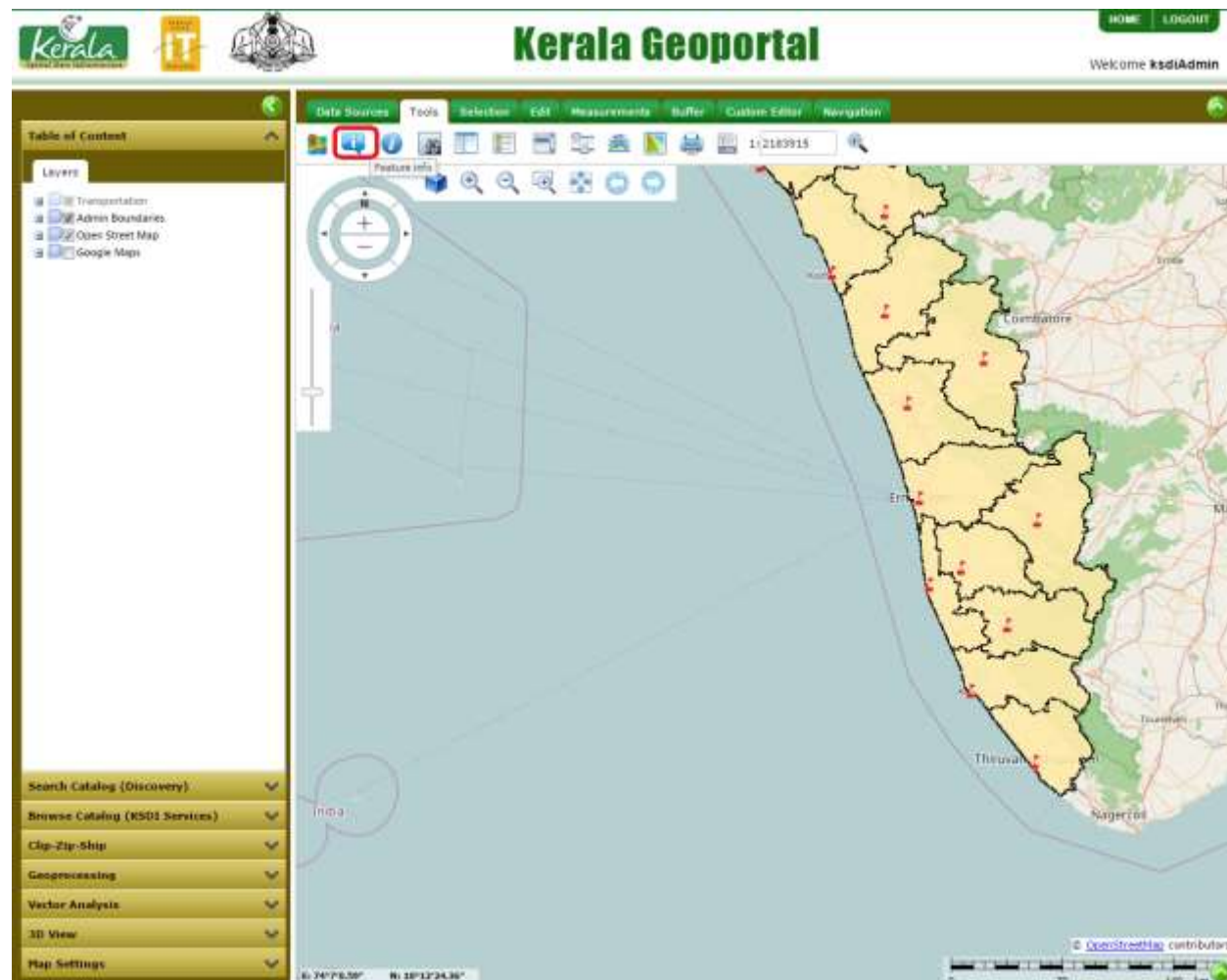


Figure 45: Feature Info Selection Page

1. Please follow the path Map Viewer→Tools→Feature Info, please click on the second option, and select a point on the map, on clicking, it displays a pop-up window, where it displays attribute features information such as State Boundary and District Boundary as shown in the **Figure 46**, **Figure 47**

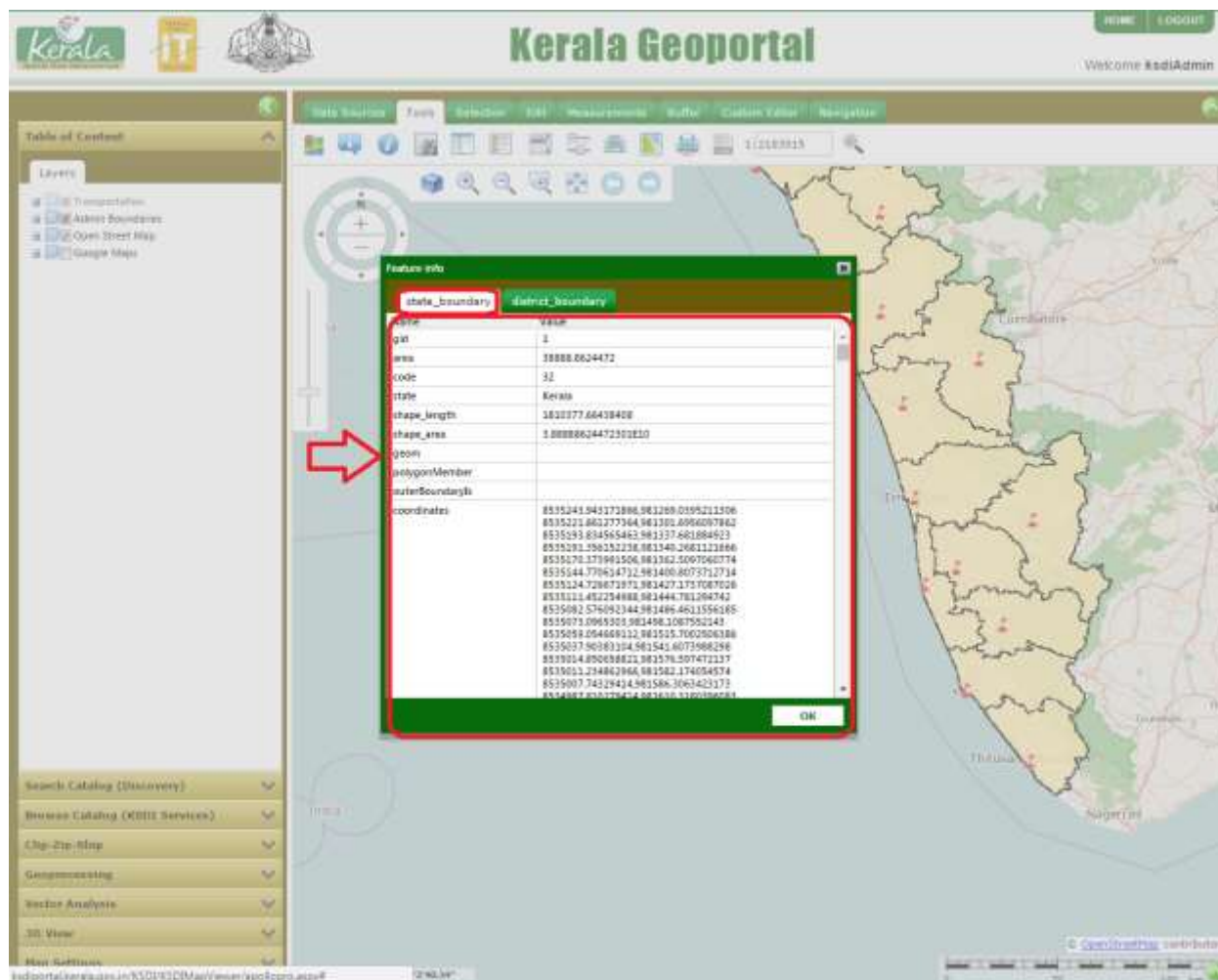


Figure 46: Feature Info Result Page (State Boundary)

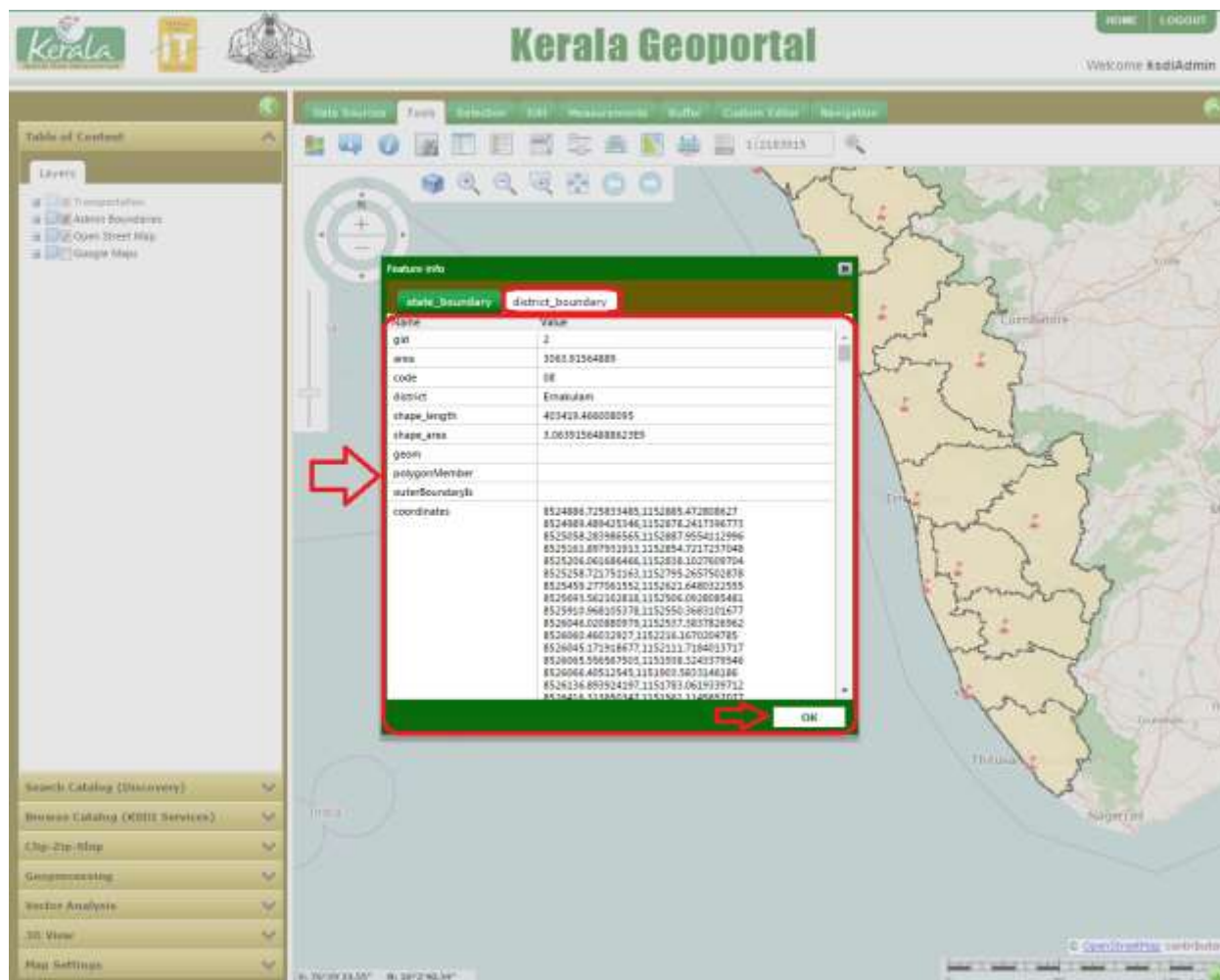


Figure 47: Feature Info Result Page (District Boundary)

5.9.2. Features Information

This feature helps the user to see attribute information and any related information linked. It displays information for all features on the selected location, where the users have to select layers from the drop down list.

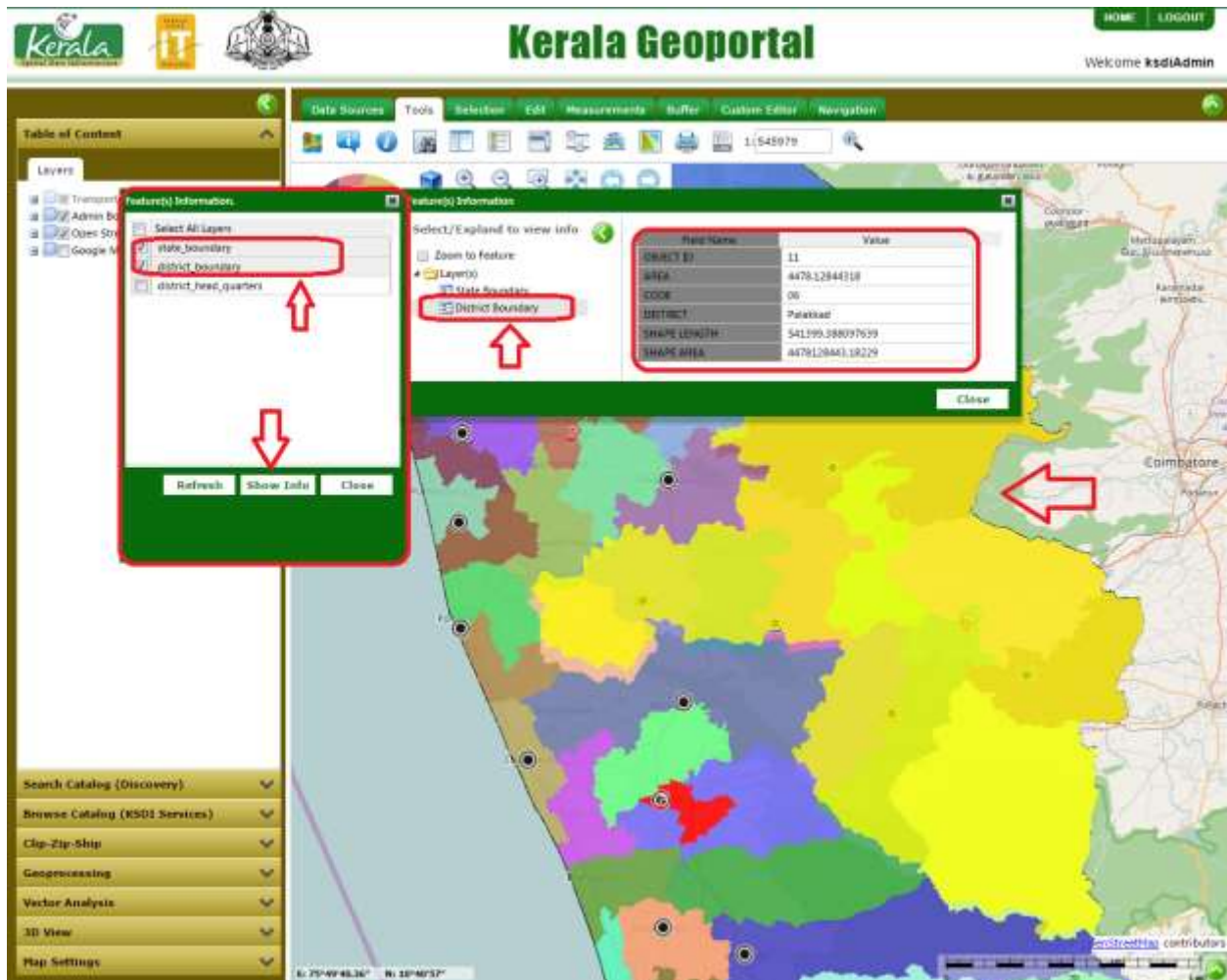


Figure 48: Tools (Features Information) Selection and Result Page

1. Please follow the path Map Viewer→Tools→ Feature(s) Information, please click on the third option, on clicking, it displays a pop-up window, where the user has to click on the 'Refresh' button as shown in the **Figure 48**
2. On clicking the refresh button, the list of layers is displayed as shown in the **Figure 48****Error! Reference source not found.**, and select all layers and click on 'Show Info', button, a cursor will be displayed on the map, where the user has to select any feature to see the detailed information of the selected object and the selected object will be highlighted in yellow color as shown in the **Figure 48****Error! Reference source not found.**

5.9.3. Overview

This feature helps the user to see an overview of total Kerala Map at a glance.

The following **Figure 49** illustrates 'Tool', 'Overview', option.

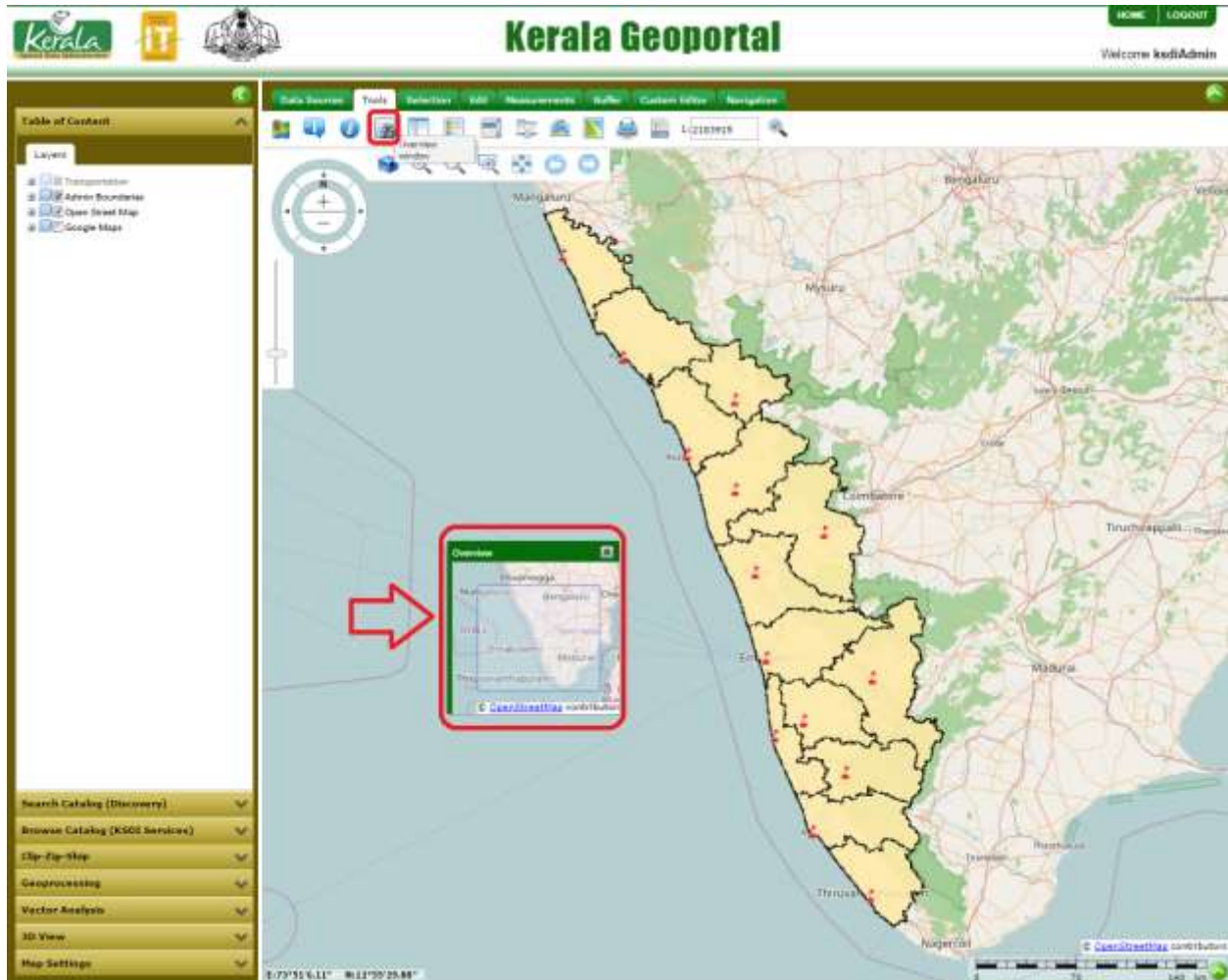


Figure 49: Tools (Overview)

1. Please follow the path Map Viewer→Tools→ Overview, please click on the fourth option, on clicking, it displays a pop-up window, where the user is able to see an overview of the Kerala Map

5.9.4. Data Window

This feature helps the user to select the attributes and add those attributes to clipboard as shown in the **Figure 50**

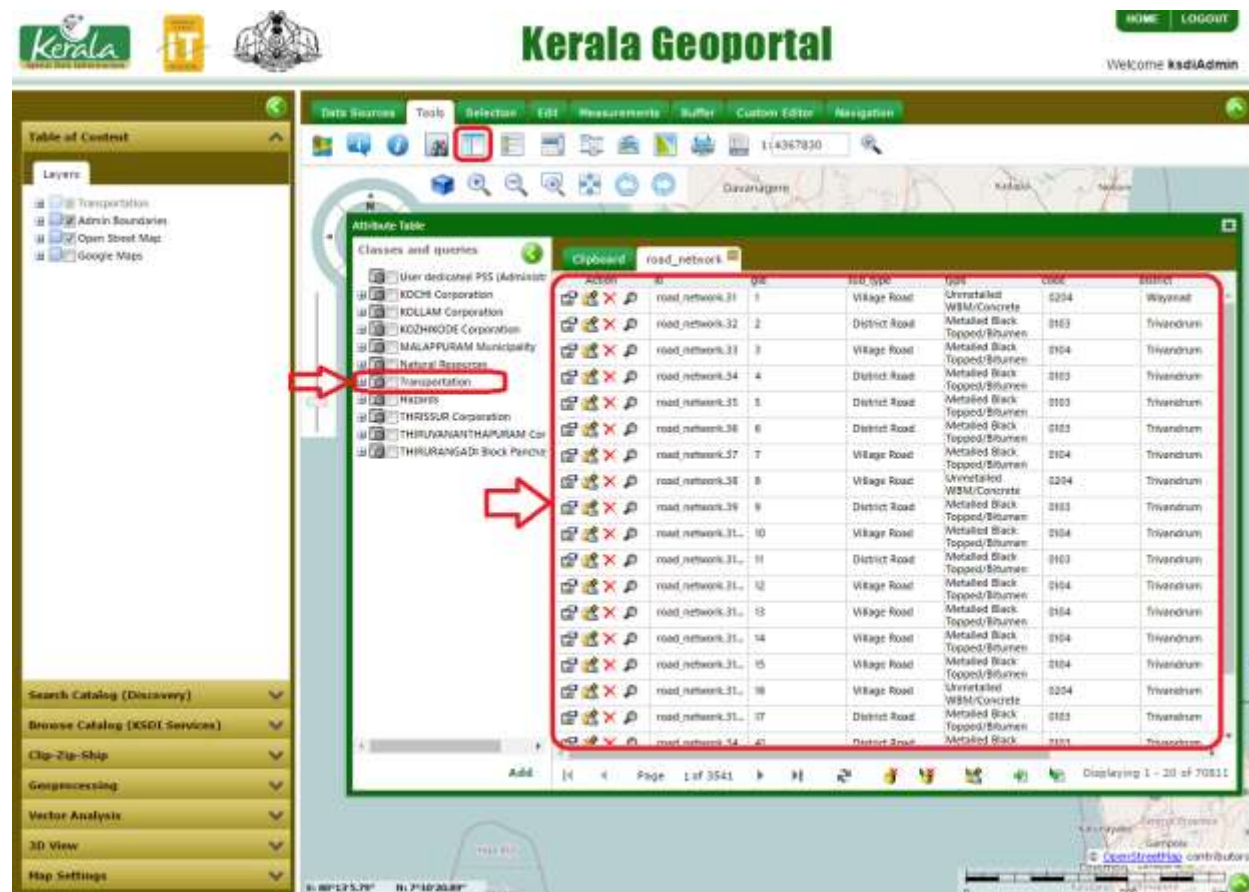


Figure 50: Tools (Data Window)

1. Please follow the path Map Viewer→Tools→Data Window, please click on the fifth option, on clicking, it displays a pop-up window, where the user has to select the desired attribute layer and add it to the clipboard as shown in the **Figure 50**

5.9.5. Legend

It helps the user to check what kind of legends were used for different types of attributes.

The following **Figure 51** illustrates 'Tool', 'Legend', option.

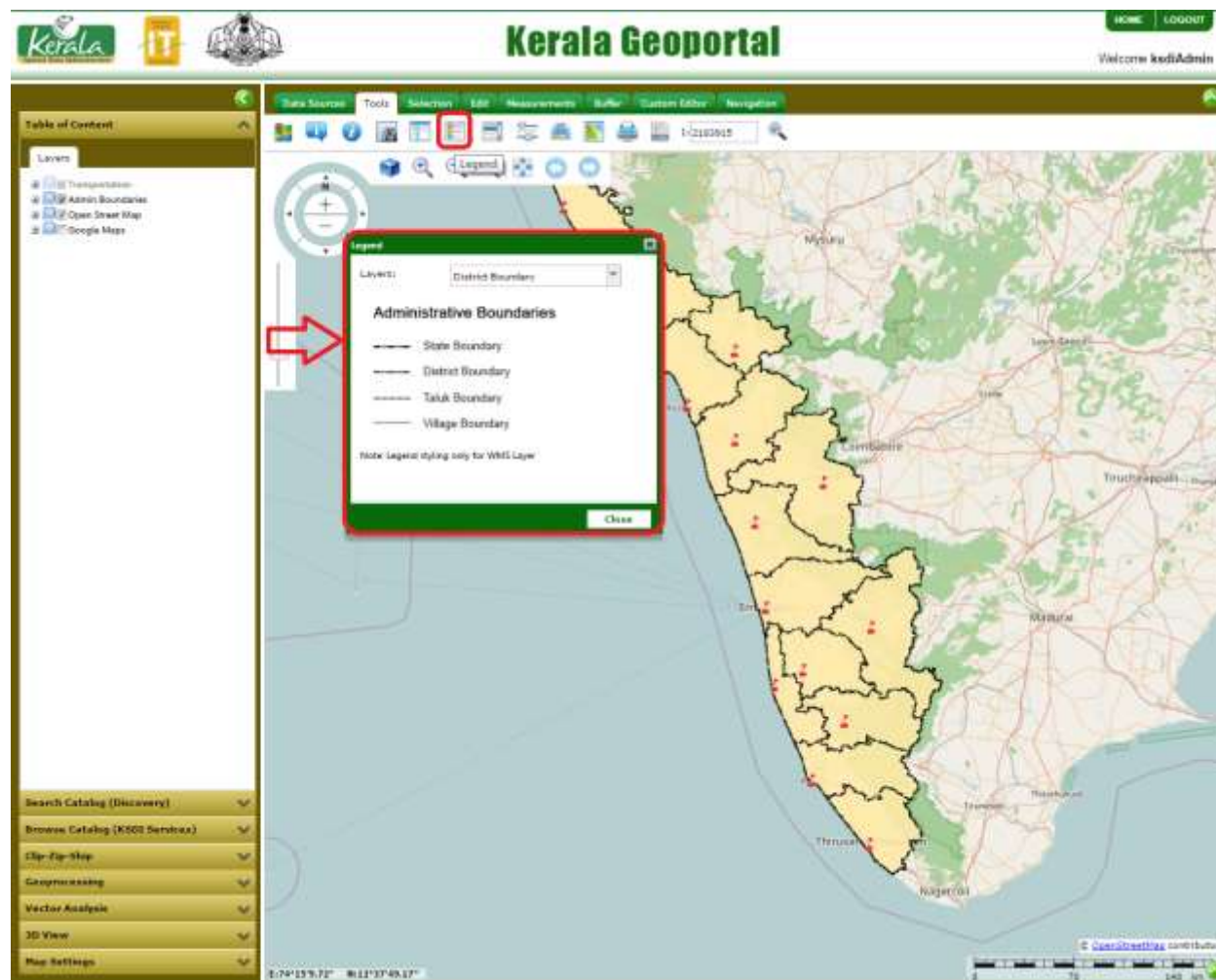


Figure 51: Tools (Legend)

1. Please follow the path Map Viewer→Tools→Legend, please click on the sixth option, on clicking, it displays a pop-up window, where the user has to select the value of Legend to see the related icons as shown in the **Figure 51**

5.9.6. Metadata

This feature helps the user to see the metadata related detailed data for a selected object.

The following **Figure 52** illustrates 'Tool', 'Metadata', option.

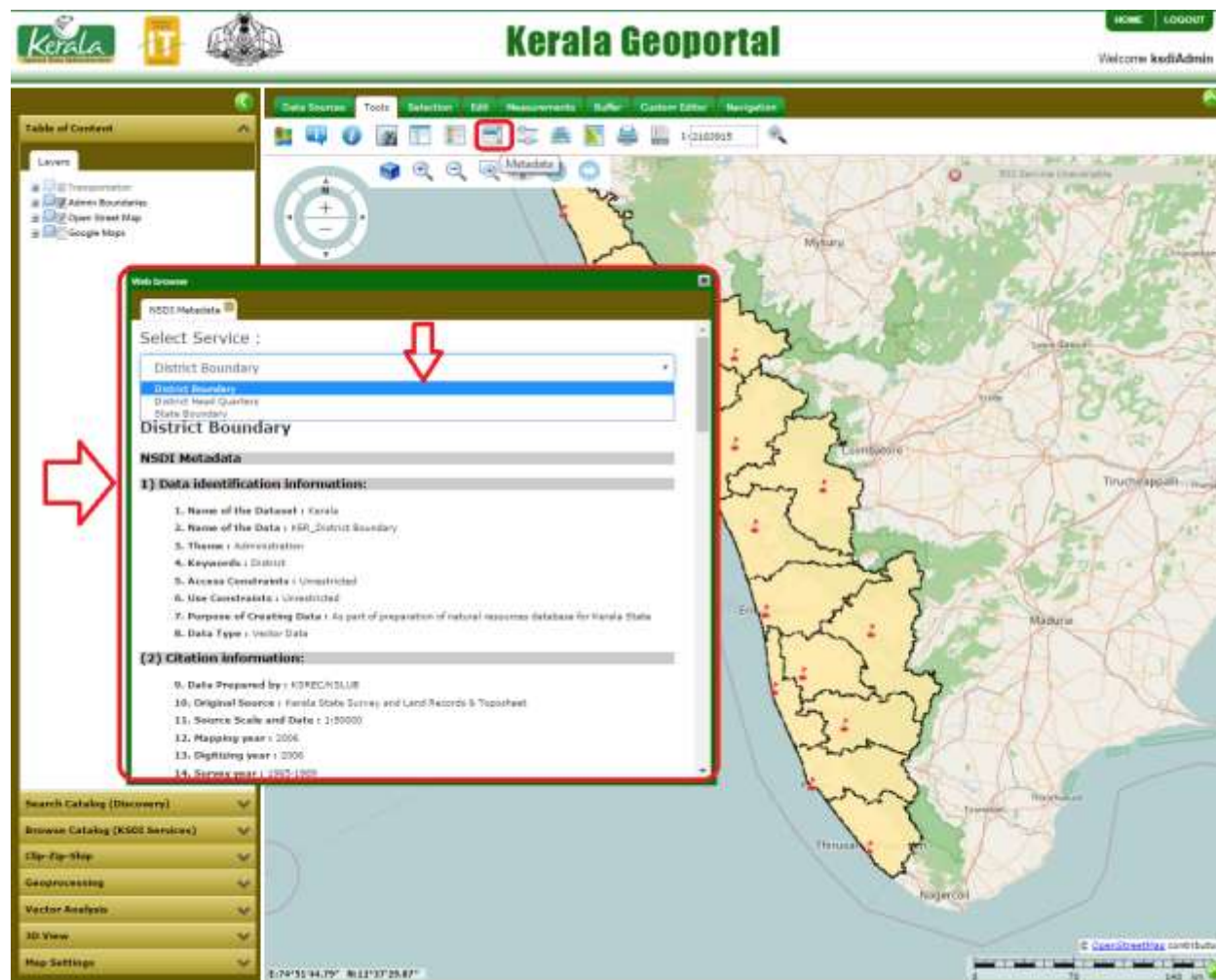


Figure 52: Tools (Metadata)

1. Please follow the path Map Viewer→Tools→Metadata, please click on the seventh option, on clicking, it displays a pop-up window, where the user has to select the value of Metadata to see related data as shown in the **Figure 52**

5.9.7. Scale Bands Configuration

This feature helps the user to configure the Scale Bands for Map Services and Map Layers.

The following **Figure 129Figure 53** illustrates 'Tool', 'Scale Bands Configuration', option.

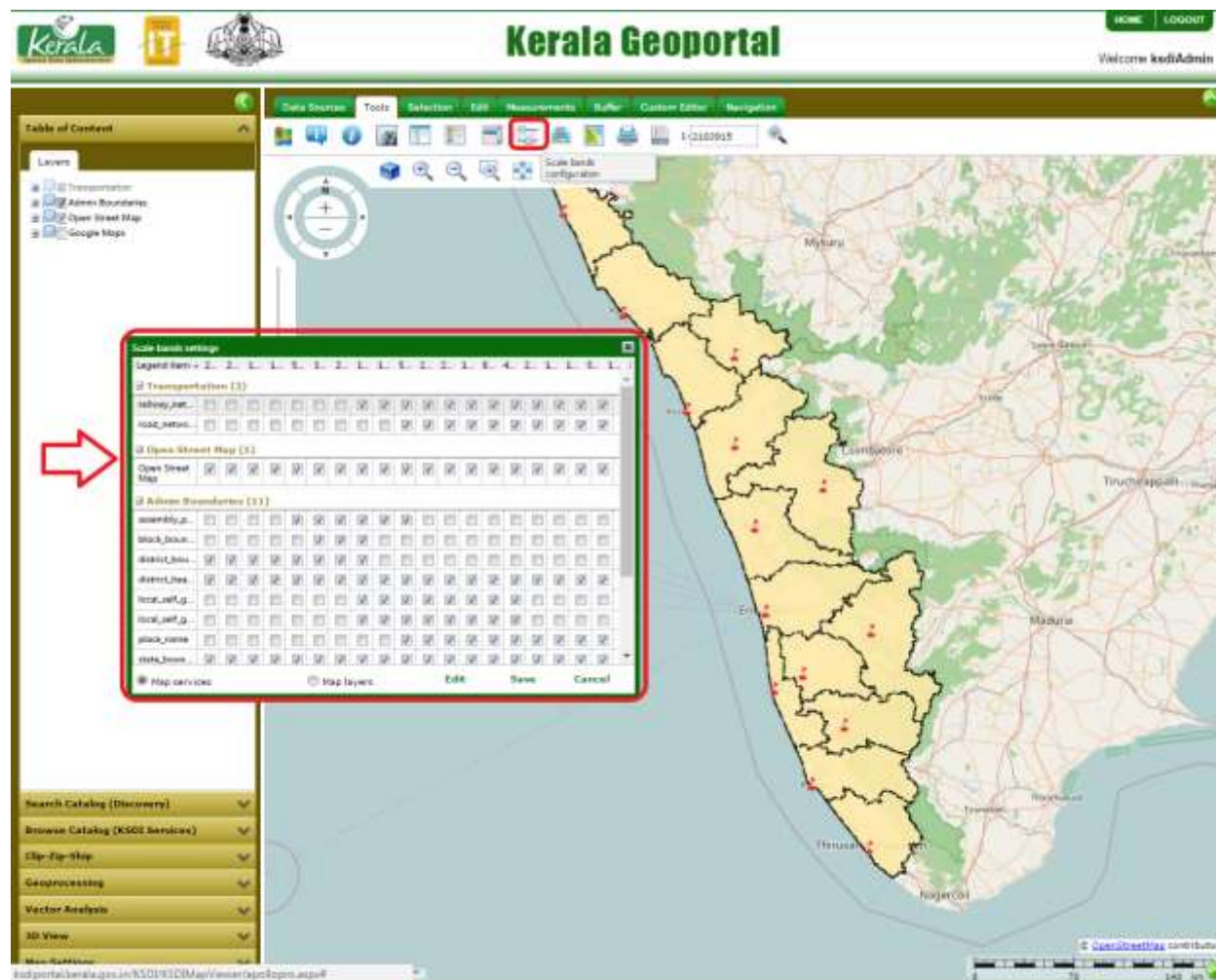


Figure 53: Tools (Scale Bands Configuration)

1. Please follow the path Map Viewer→Tools→Scale Bands Configuration, please click on the eighth option, on clicking, it displays a pop-up window, where the user has to check the value of Scale Bands for both Map Services and Map Layers as shown in the **Figure 53**

5.9.8. User Maps

This feature helps the user to download the User Maps and use it accordingly in two formats namely '. gpw', and '. gpm'.

5.9.8.1. Workspace Creation/Selection

The following **Figure 129** **Figure 54** illustrates 'Tool', 'Workspace', option.

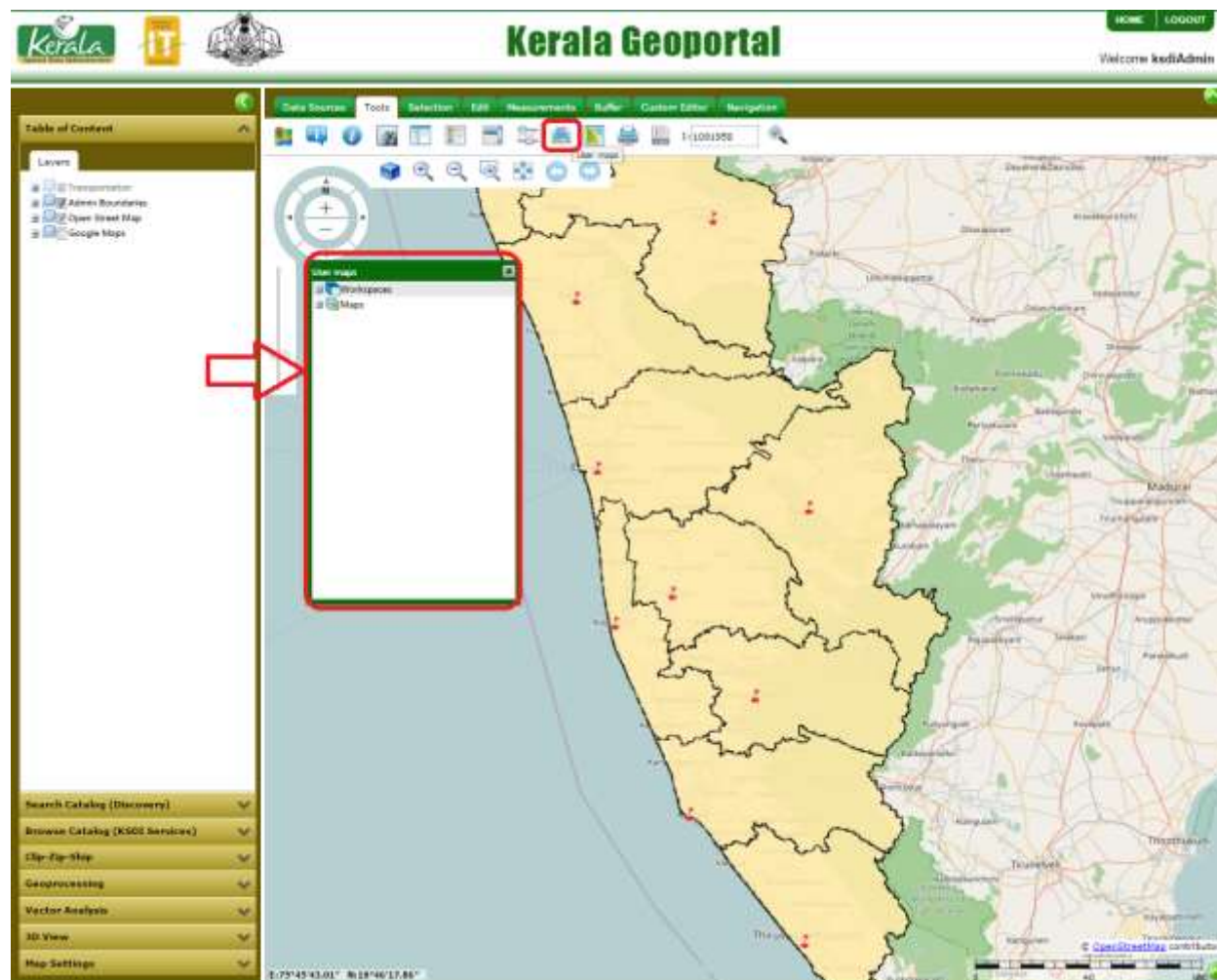


Figure 54: User Maps Main Page

1. Please follow the path Map Viewer→Tools→User Maps, please click on the ninth option, on clicking, it displays a pop-up window with two values shown as 'Workspaces', and 'Maps'.
2. Now, Hover the mouse on the Workspaces and click on the 'Add', button to create a new Workspace as shown in the below **Figure 55**
3. Now enter the label of the map as 'KSDI Test' as shown in the below **Figure 56**
4. Please click on the 'Download', button as shown in **Figure 56**
5. For opening a Workspace, please click on 'Add', button and select the option as 'From gpw file...',

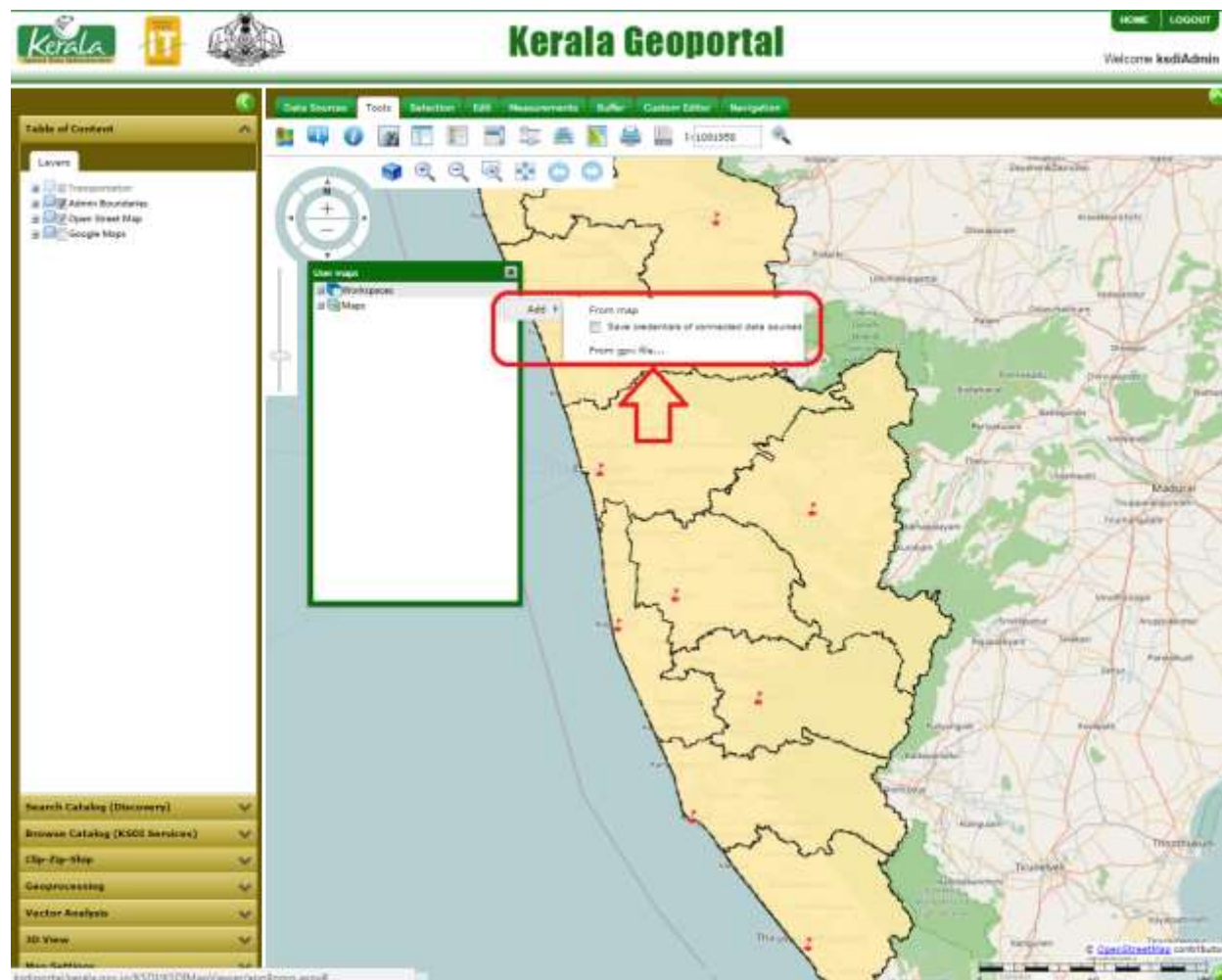


Figure 55: Creation of new Workspace

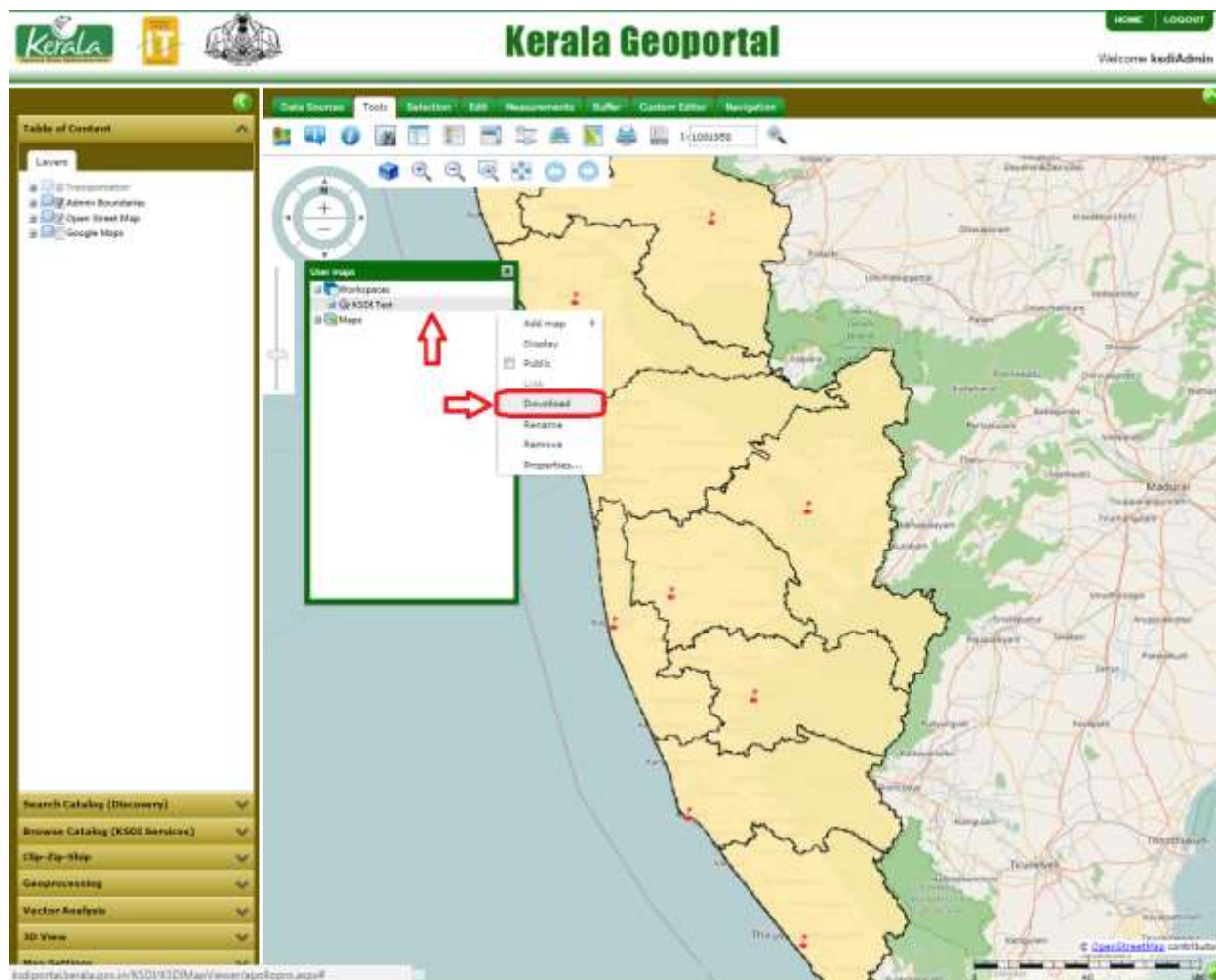


Figure 56: Workspace Download page

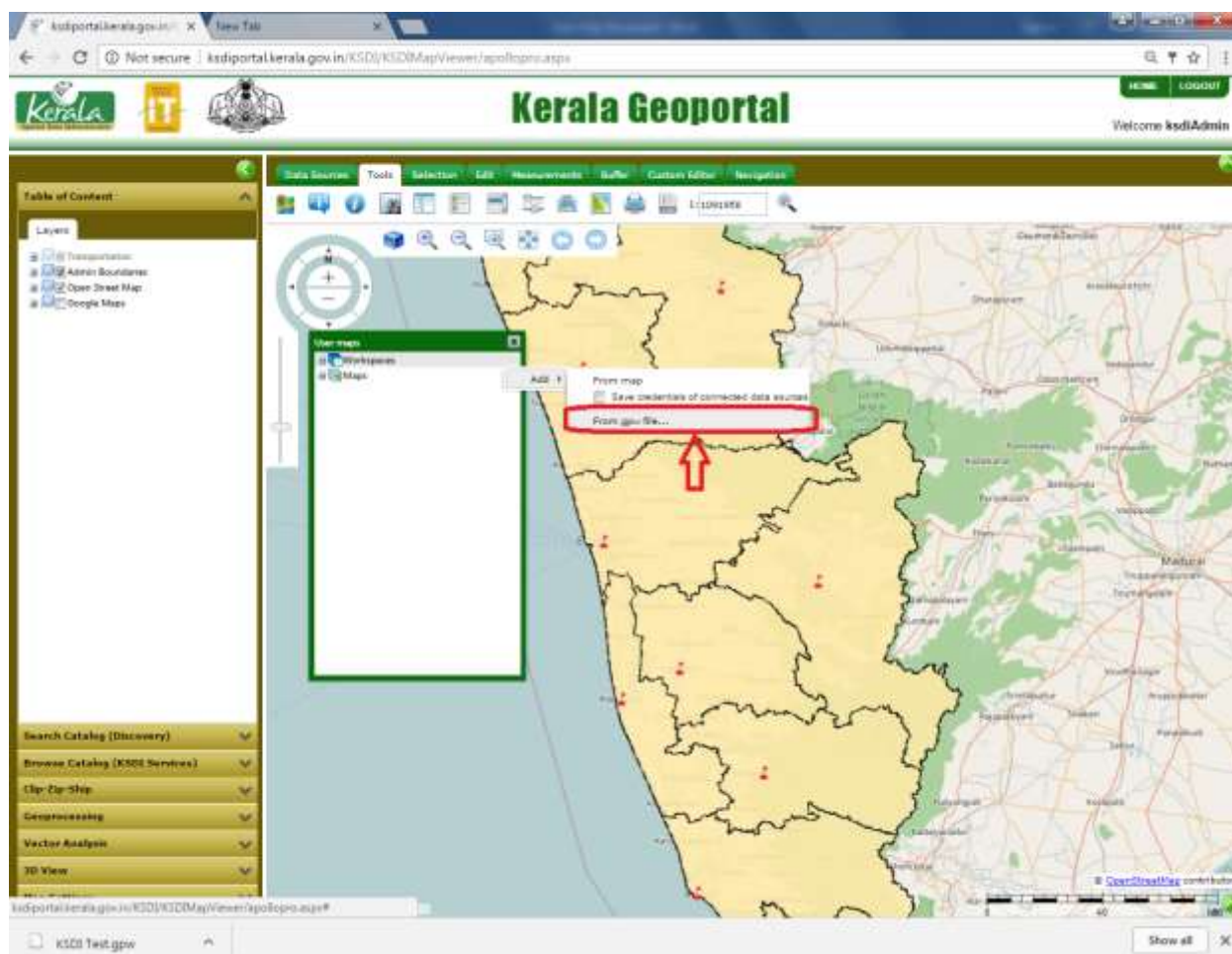


Figure 57: Workspace Loading

6. After selecting the path as shown in **Figure 58**, click on the 'Send', button to load the selected map

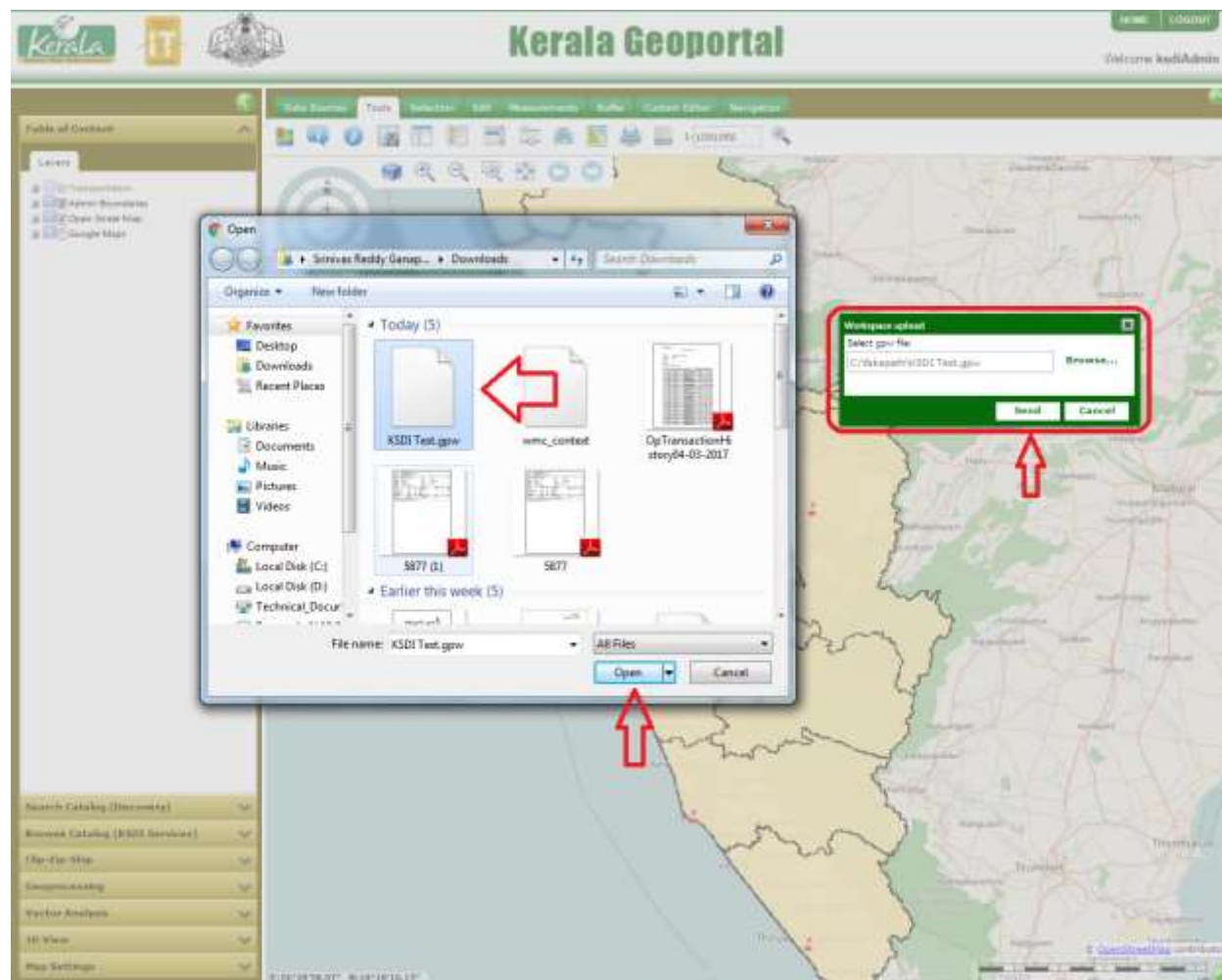


Figure 58: Selecting the Workspace

5.9.8.2. Maps Creation/Selection

The following **Figure 59** illustrates 'Tool', 'Maps', option.

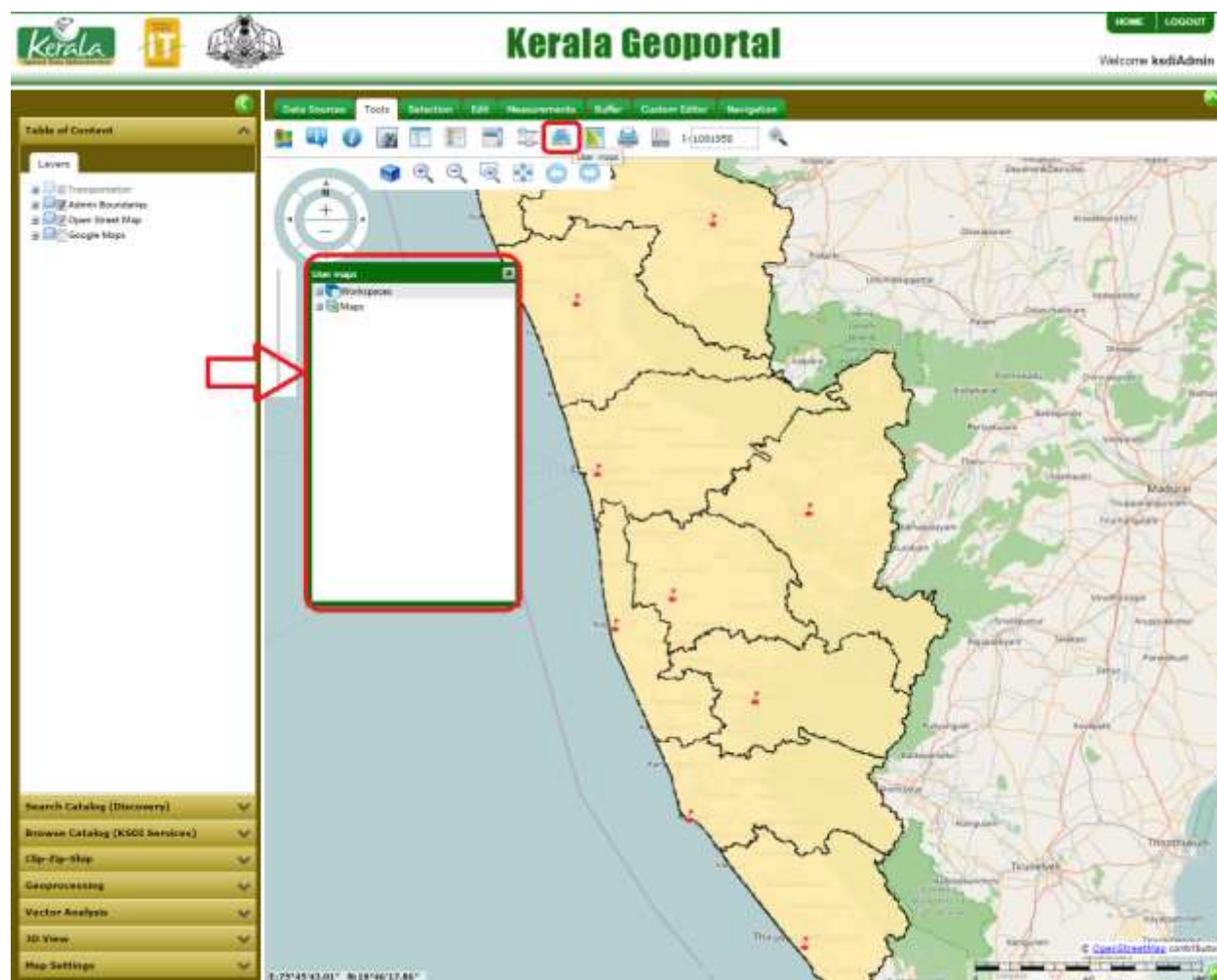


Figure 59: Maps Main Page

1. Please follow the path Map Viewer→Tools→User Maps, please click on the fifth option, on clicking, it displays a pop-up window with two values shown as 'Workspaces', and 'Maps'.
2. Now, Hover the mouse on the Maps and click on the 'Add', button to create a new Workspace as shown in the above **Figure 59**
3. Now enter the label of the map as 'KSDI Map' as shown in the below Please click on the 'Download', button as shown in **Figure 61**
4. Please click on the 'Download', button as shown in **Figure 61**
5. For opening a Map, please click on 'Add', button and select the option as 'From gpm file...',

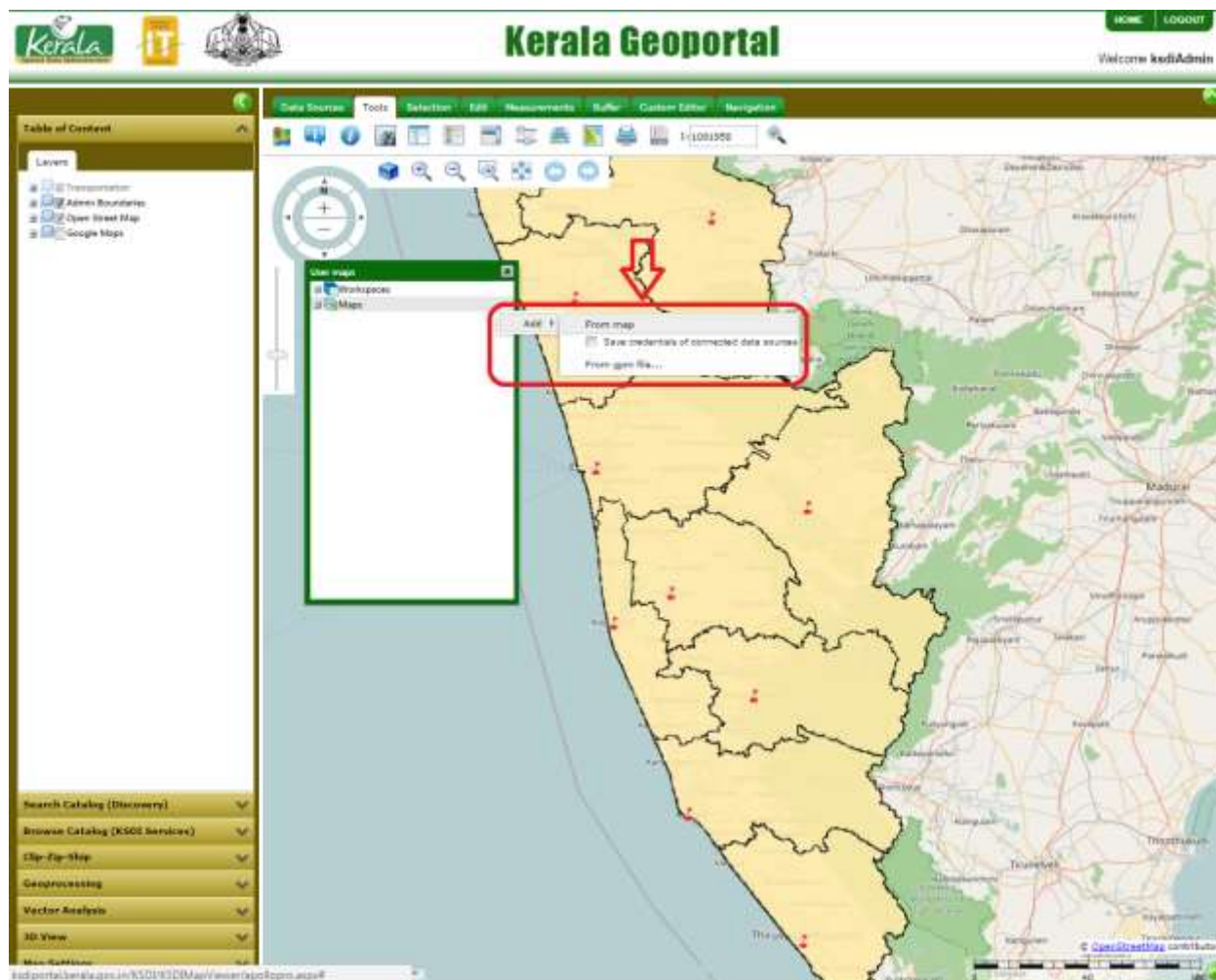


Figure 60: Creation of new Map

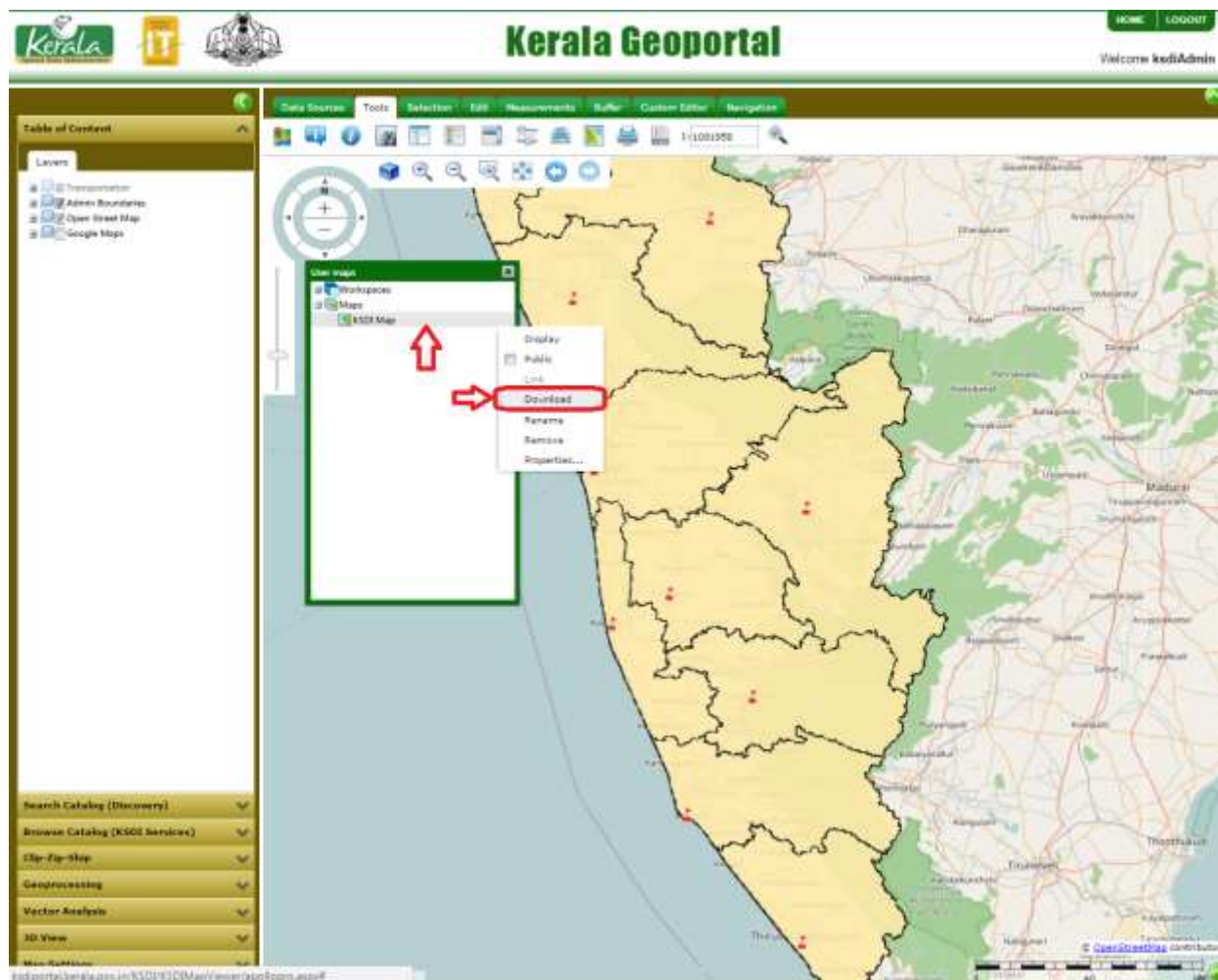


Figure 61: Downloading KSDI Map

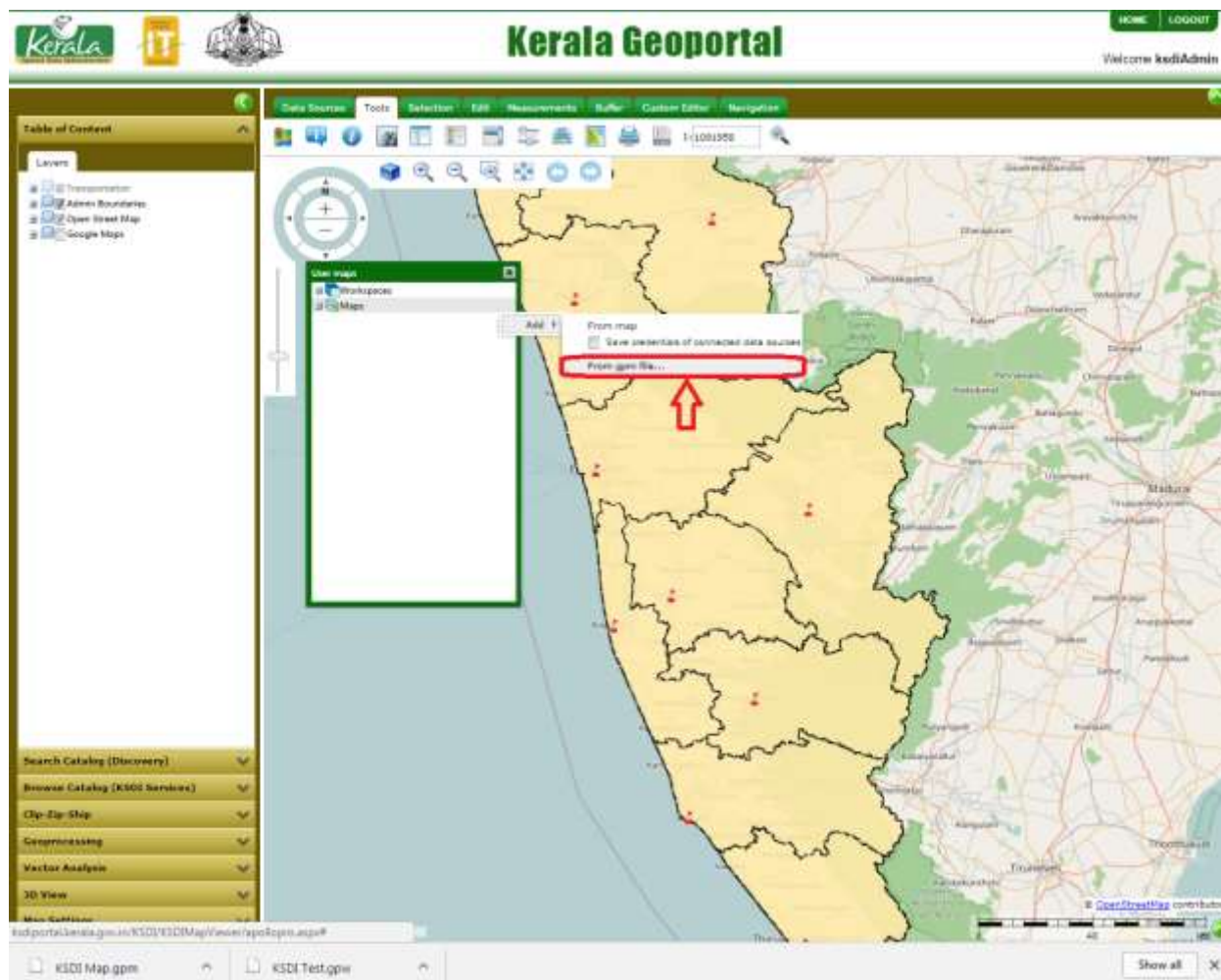


Figure 62: Map Loading

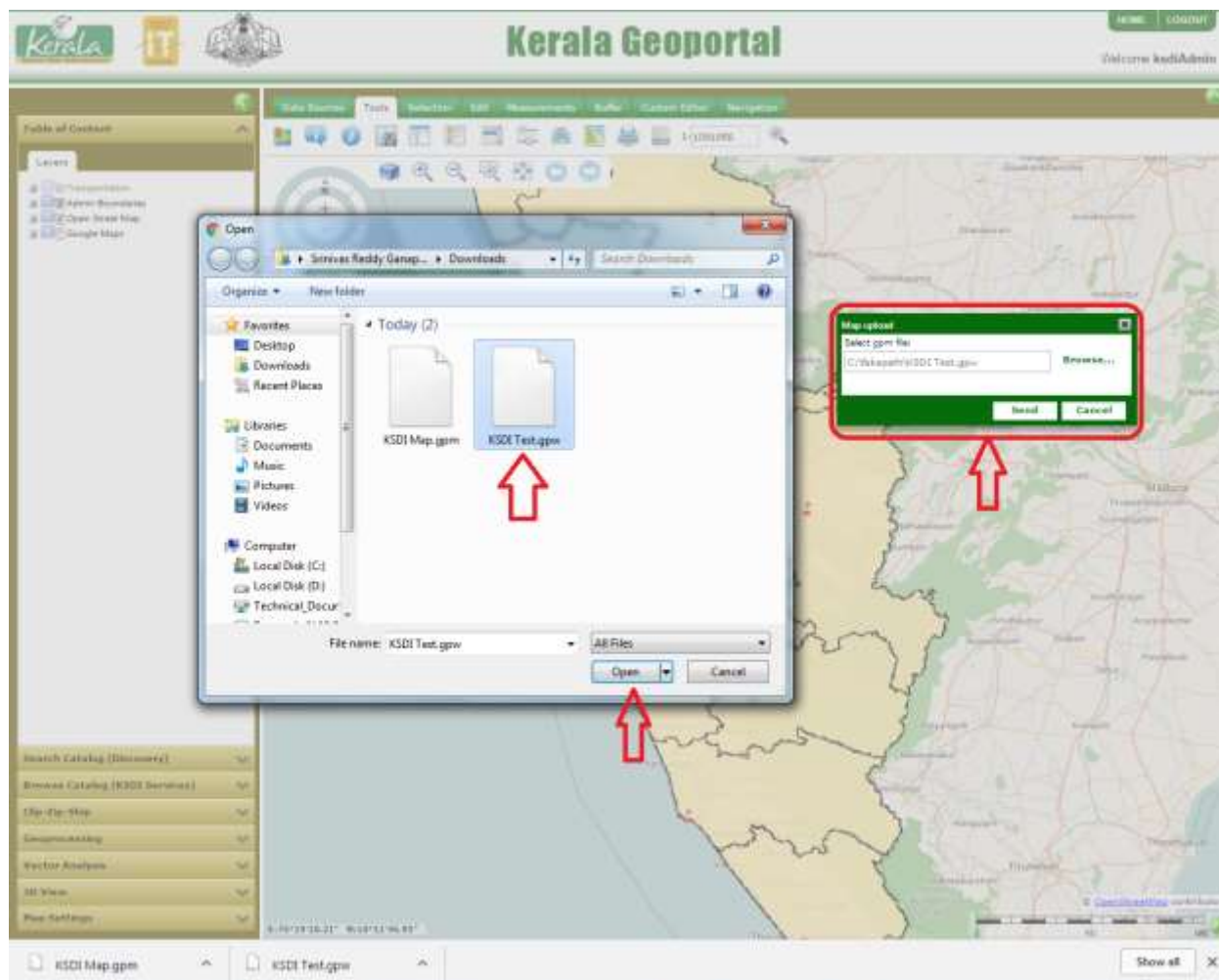


Figure 63: Selecting the Map

6. After selecting the path as shown **Figure 63** in click on the 'Send', button to load the selected map

5.9.9. Web Map Context

This feature helps the user to download a web user map in .xml format and can also load .xml map and displays on the existing map.

The following **Figure 64**, illustrates the Web Map Export functionality.

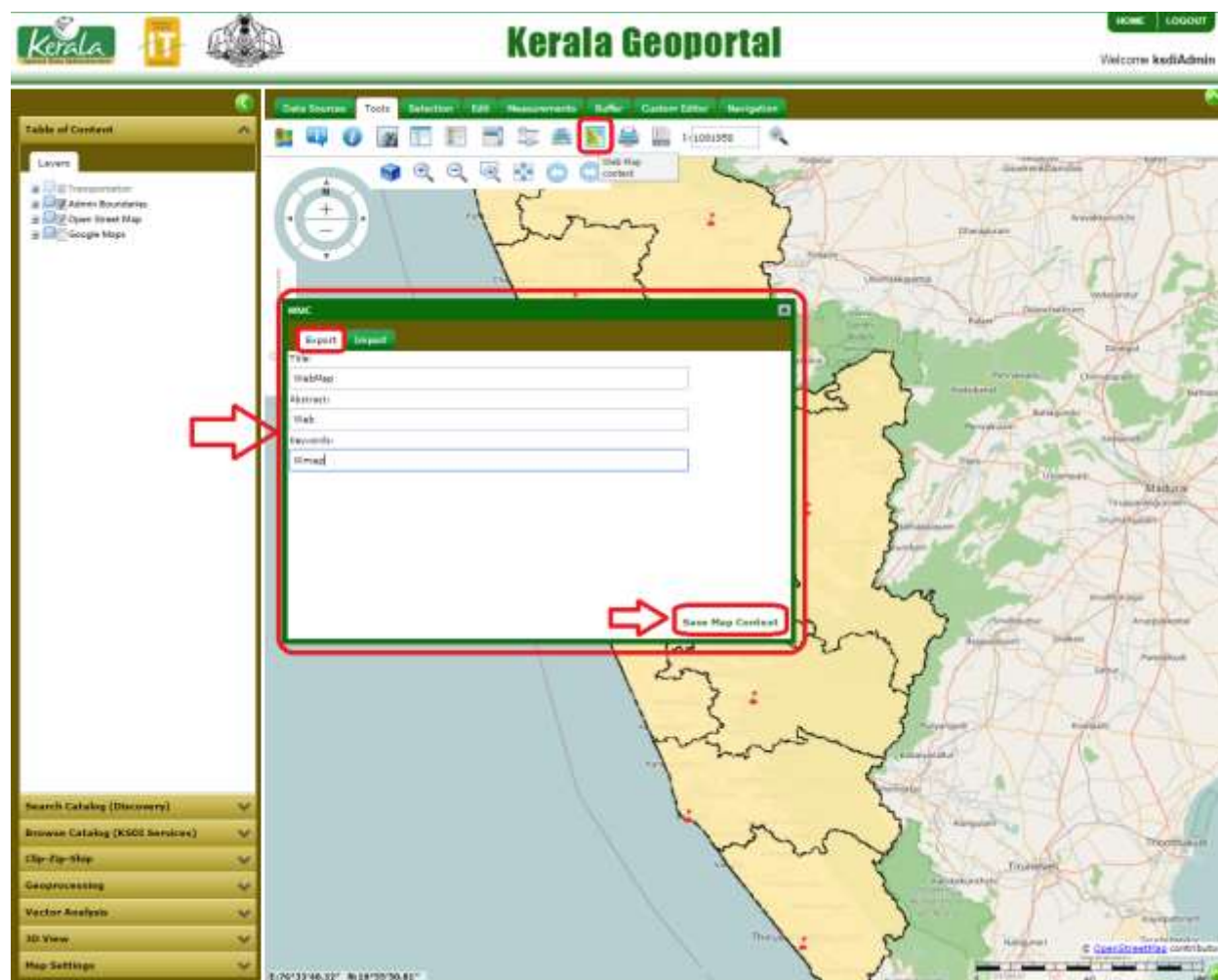


Figure 64: WebMap (Export)

1. Please follow the path Map Viewer→Tools→Web Map, please click on the tenth option, on clicking, it displays a pop-up window, where the user has to key in the details and click on the 'Save Map Context', as shown in the **Figure 64**, now the map is automatically downloaded, where it can be imported in the 'Import', sub-section.
2. Now, process of importing the downloaded file is shown in the **Figure 65**
3. Displaying the imported file is shown in the **Figure 66, Figure 67**

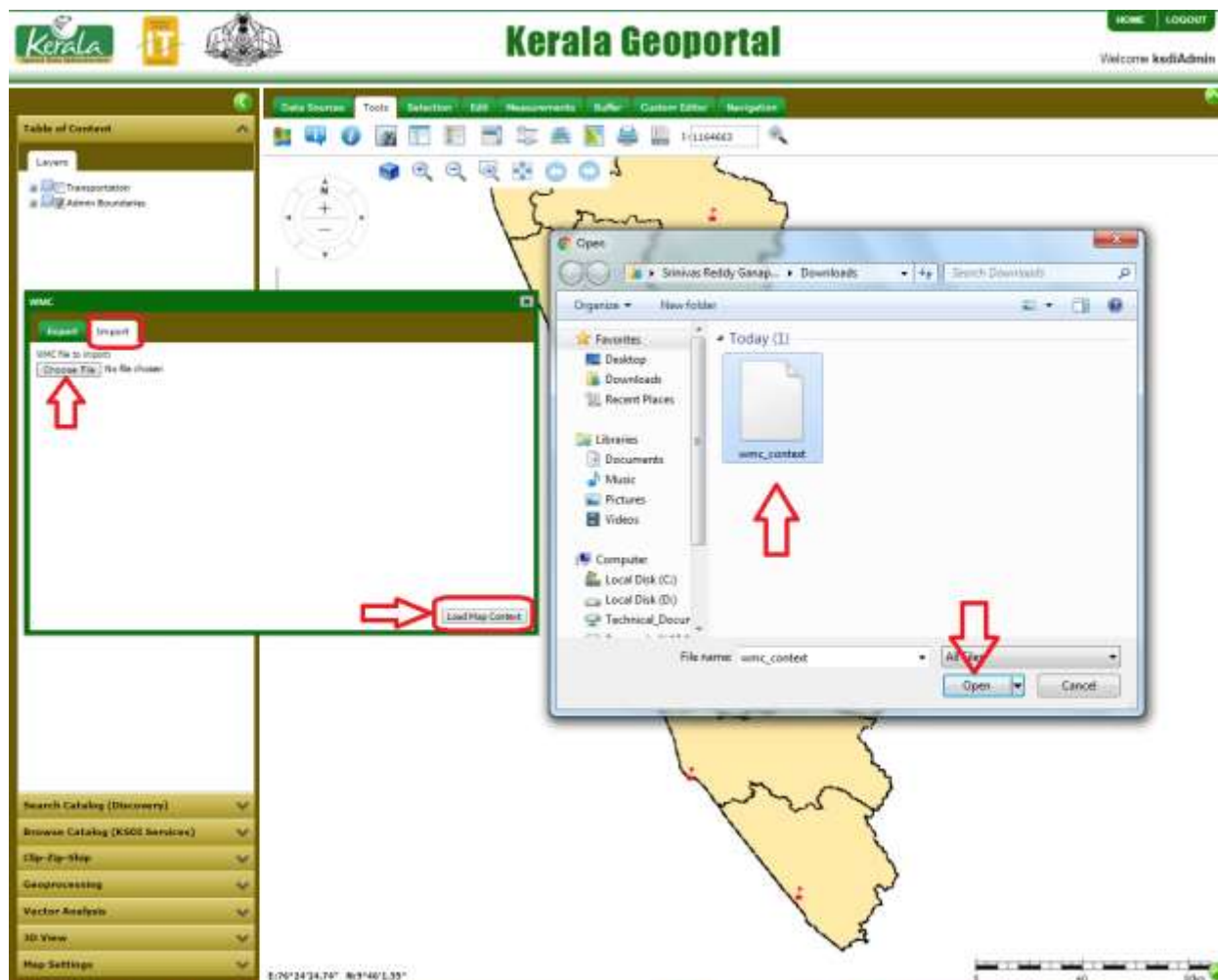


Figure 65: WebMap (Import)

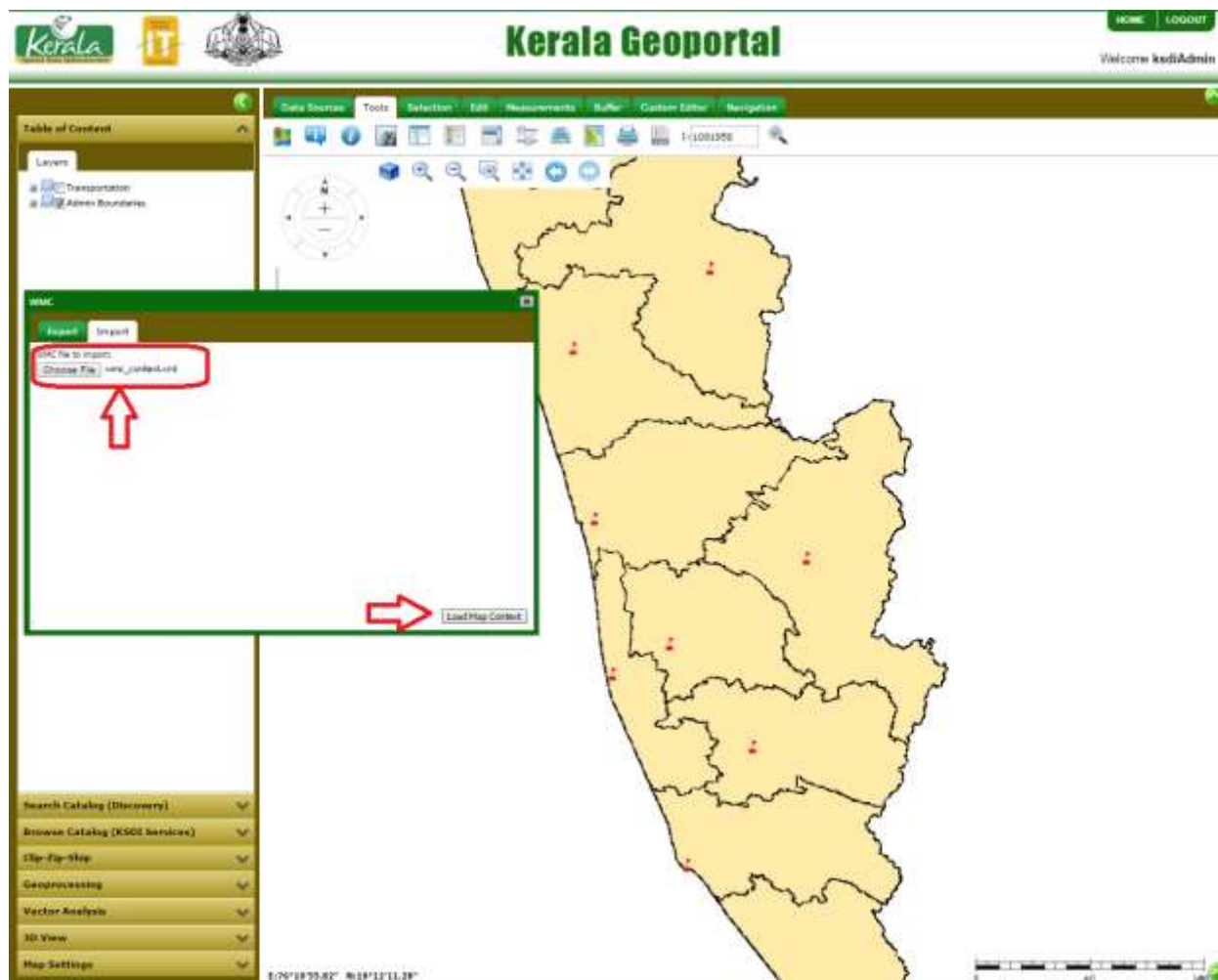


Figure 66: WebMap (Selecting downloaded WebMap)

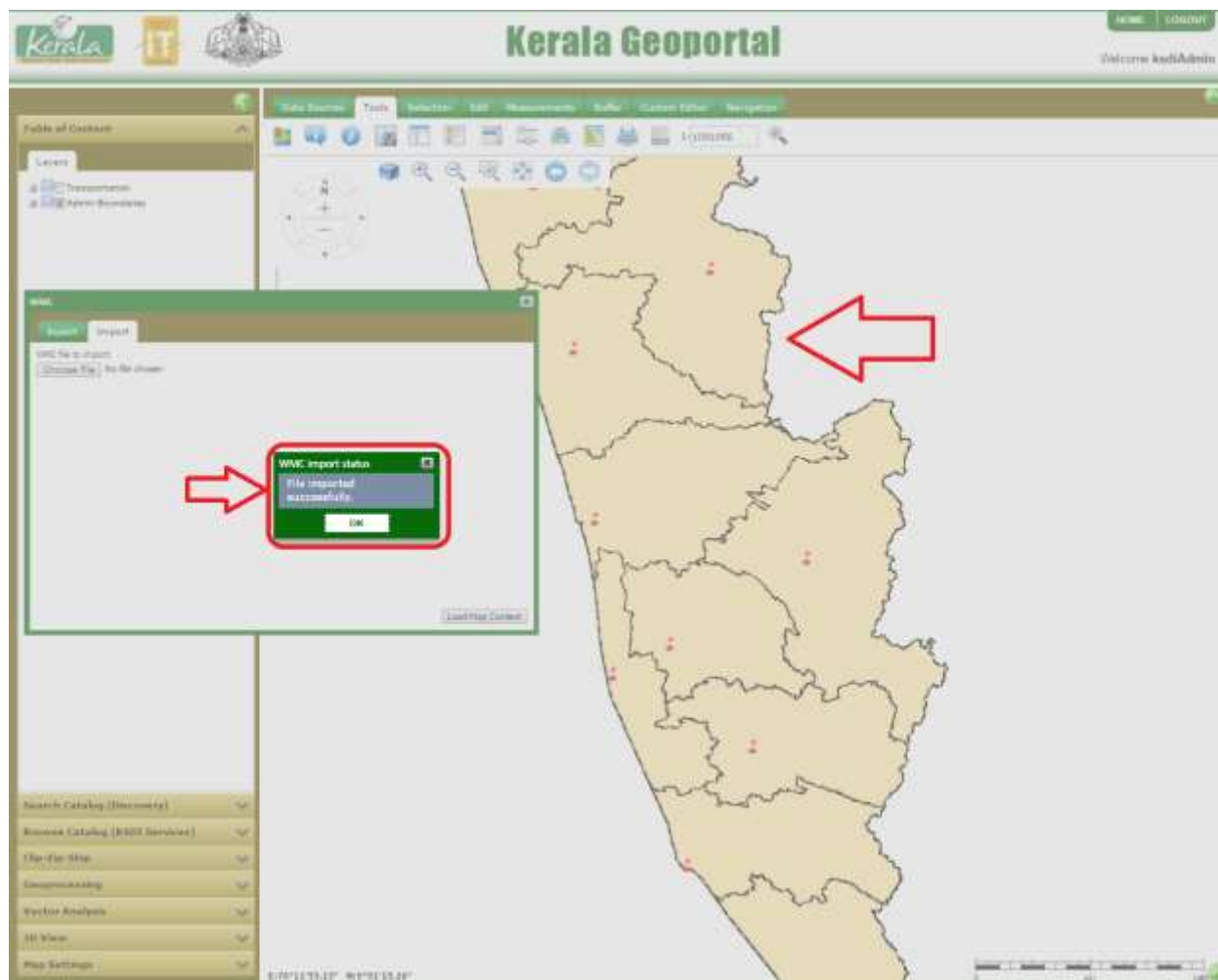


Figure 67: WebMap (Result Page)

5.9.10. Print Map

This feature helps the user to print the Map in different formats such as PDF, PNG, XPS, GIF, JPEG, TIFF, BMP, and selection of the printing template such as Landscape Template, Portrait Template, UKSDI Portrait Template, KSDI Landscape Template, user can also select the page size such as A0, A1, A2, A3, A4 and A5, user can also select the scale size such as 1000, 2000, till 2000000 lengths.

The below **Figure 68**, illustrates the Print Map feature

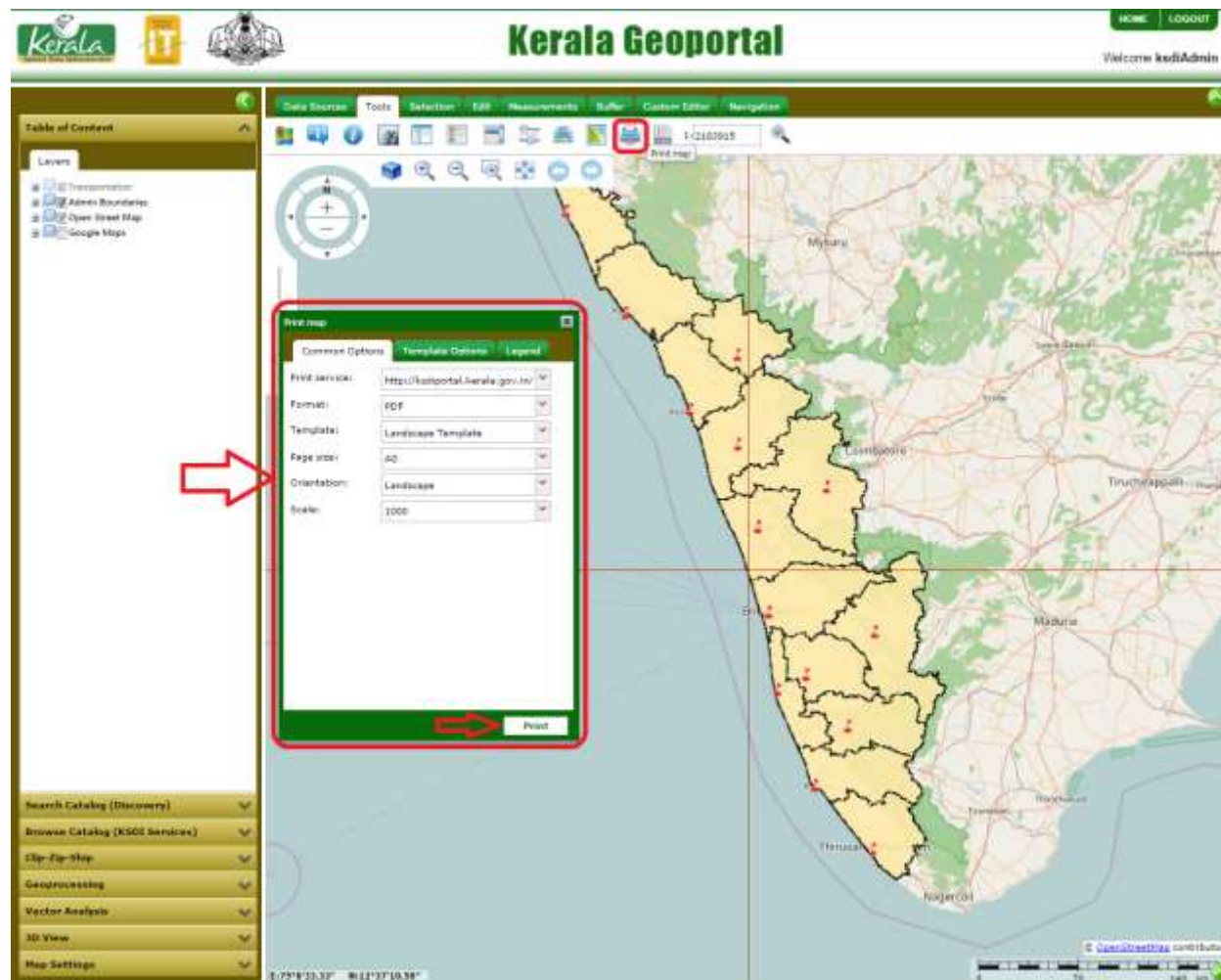


Figure 68: Print Map

1. Please follow the path Map Viewer→Tools→Print Map, please click on the eleventh option, on clicking, it displays a pop-up widow, where the user can select various options and select different sub features within the selected field

5.9.11. Notification History Window

This feature helps the user to see the notifications about the application and displays the Errors, Warnings, and Messages.

The below **Figure 69** illustrates Notification History feature.

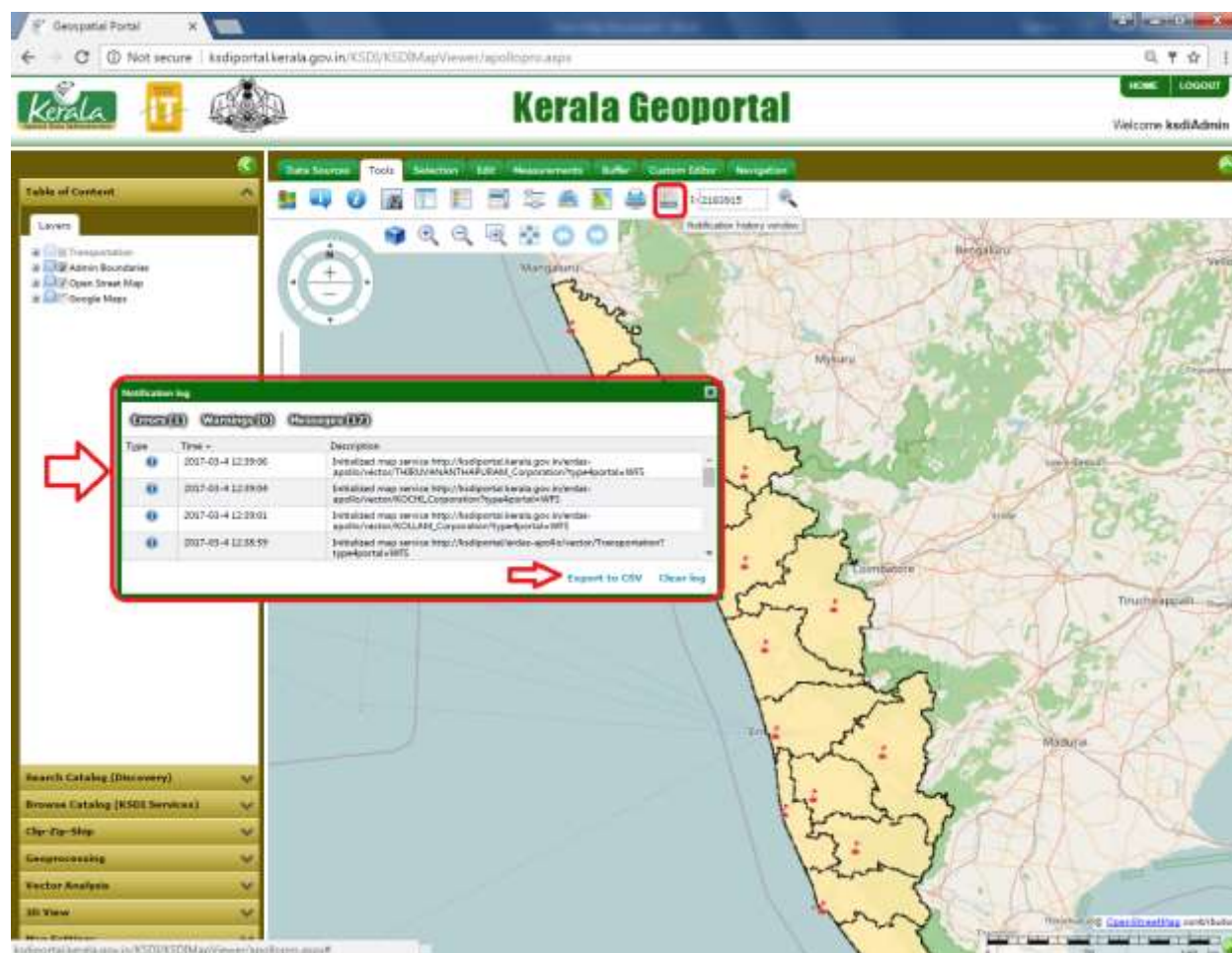


Figure 69: Tools (Notification History Window)

1. Please follow the path Map Viewer→Tools→Notification History Window, please click on the twelfth option, on clicking, it displays a pop-up widow, where the user can see the list of all errors, warnings, and messages.

5.9.12. Set the Map Scale

This feature helps user to set the scale and can enter his/her desired value as shown in the **Figure 70**.

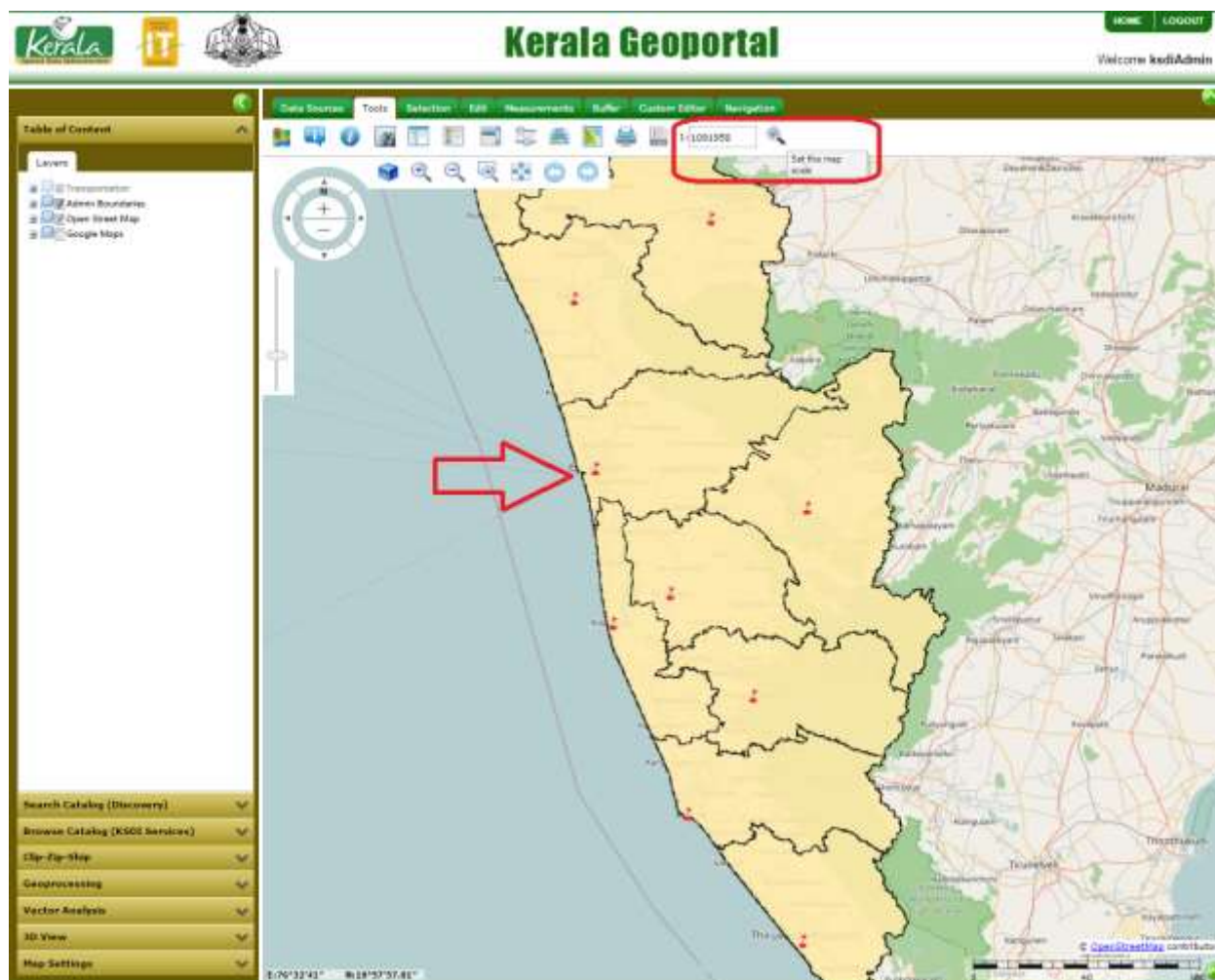


Figure 70: Tools (Set the Map Scale)

1. Please follow the path Map Viewer→Tools→Set the Map Scale, please click on the thirteen option, on clicking, where the user can key in the desired value as shown in the above **Figure 70**.

5.10. Selection Tool

This tool helps the user to select the feature from the map.

The following **Figure 71** illustrates the 'Selection Tool', option of Map Viewer.

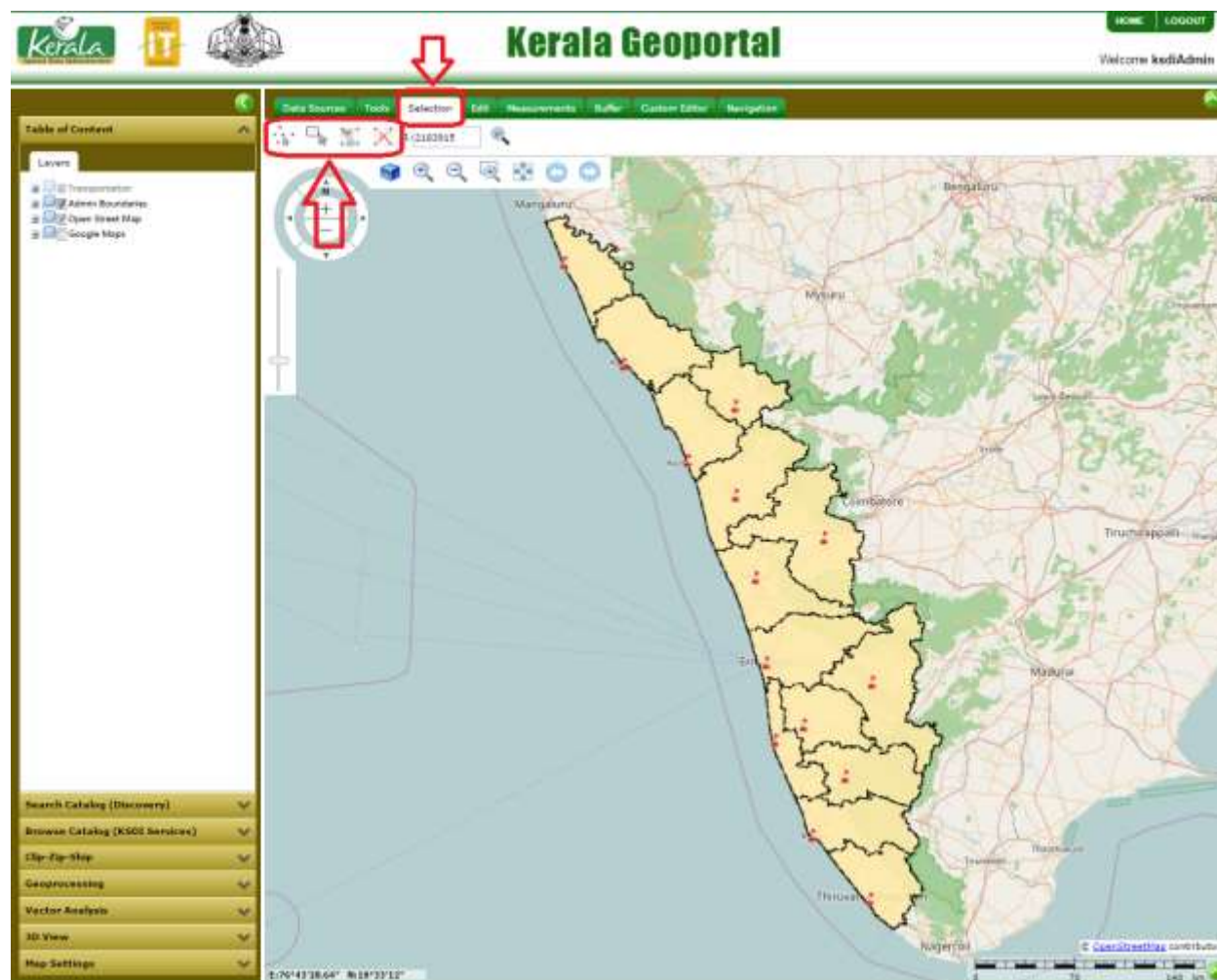


Figure 71: Selection Tool Main Page

5.10.1. Select features by Point

This option, selects all locatable objects in a designated point.

Please follow the path Map Viewer→Select Tool→Select features by point, please click on the first option 'Select features by Point', it selects the area and highlights it in the red color as selected area as shown in **Figure 71**

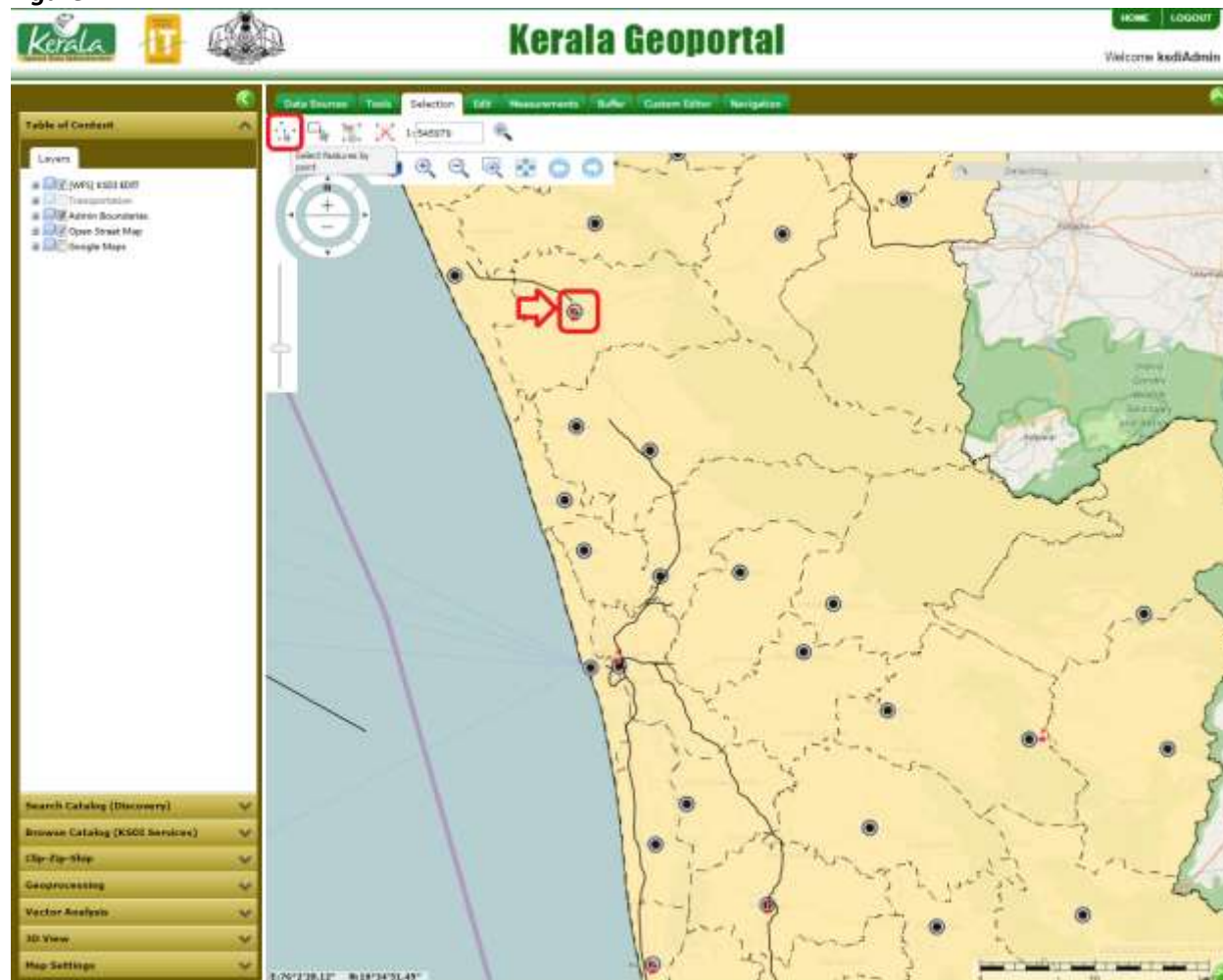


Figure 72: Selection Tool (Selection features by point)

5.10.2. Select features by Bounding Box (Bbox)

The following **Figure 73** illustrates the second option of 'Selection Tool', and selects all the locatable objects within the drawn rectangular geometry and intersecting with it.

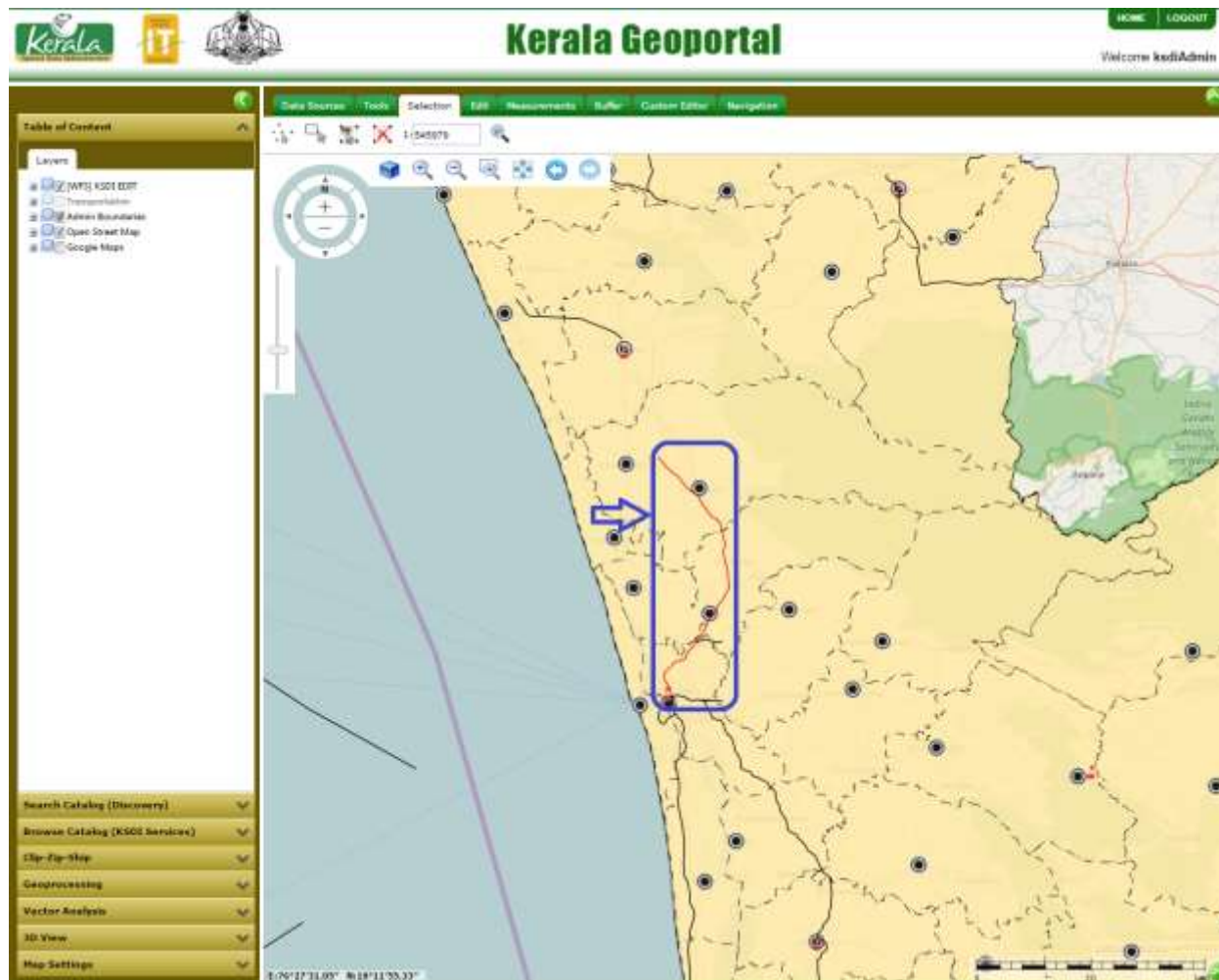


Figure 73: Selection Tool (Select features by Bounding Box)

5.10.3. Add to Clipboard

The following **Figure 74** illustrates the third option of 'Selection Tool', and add the selected features to the clipboard.

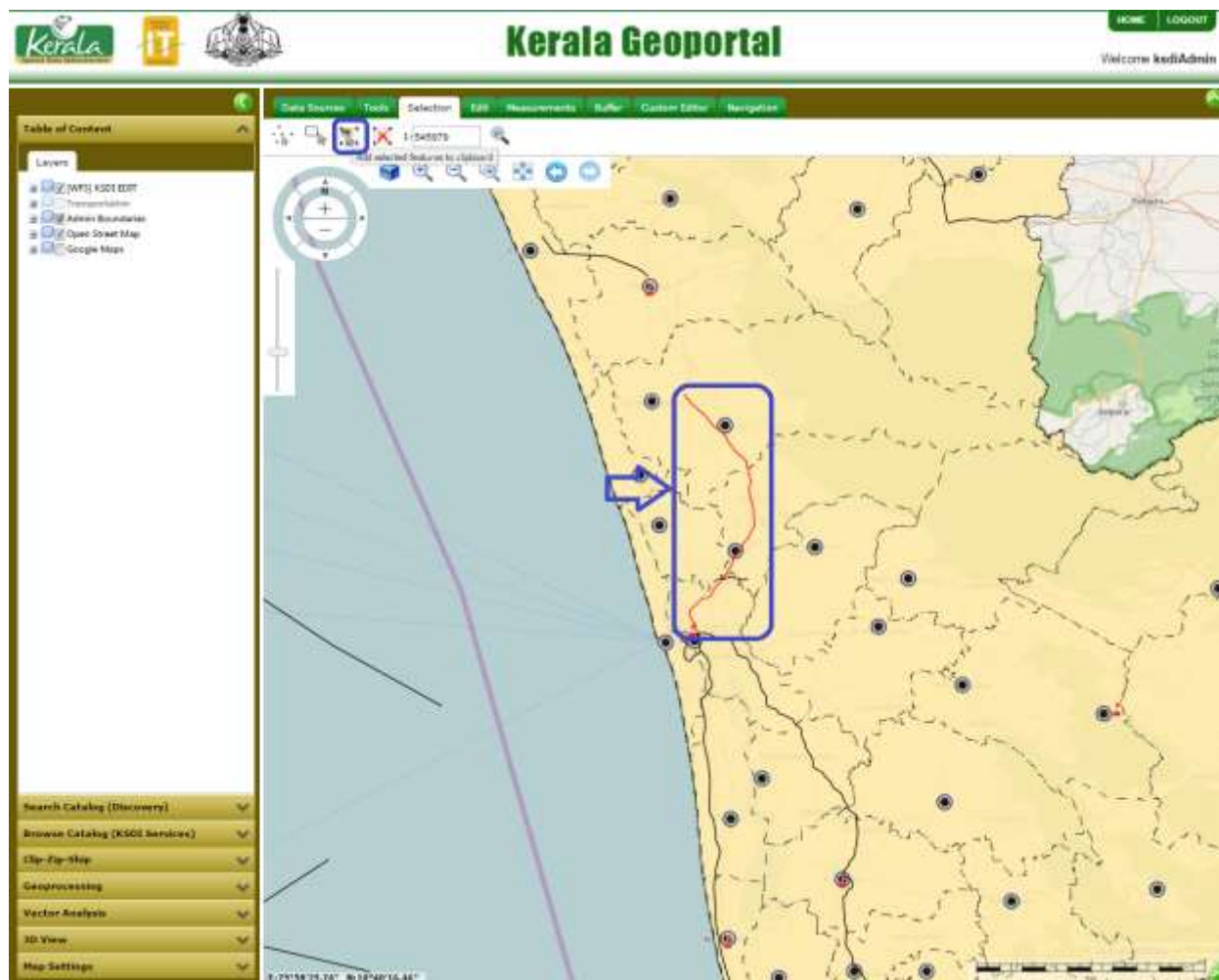


Figure 74: Selection Tool (Add to Clipboard)

1. In order to check the clipboard data, please click on the 'Tools→Data Window' section, a pop-up window is displayed as shown in the **Figure 75**
2. Please click on the first option of 'properties' data which displays the feature information of the selected data in a new pop-up window as shown in the **Figure 76**

The screenshot shows the Kerala Geoportal interface. The 'Add to Clipboard' dialog box is open, displaying a table with the following data:

id	name	geometry	area
ksdi_ksdi_corp...	KSDI_KSDI_Corporation_Secondary_3	LineString	96.137628609
ksdi_ksdi_corp...	KSDI_KSDI_Corporation_Secondary_4	LineString	174.203100740

A red arrow points to the 'Add to Clipboard' button at the bottom of the dialog box.

Figure 75: Add to Clipboard data

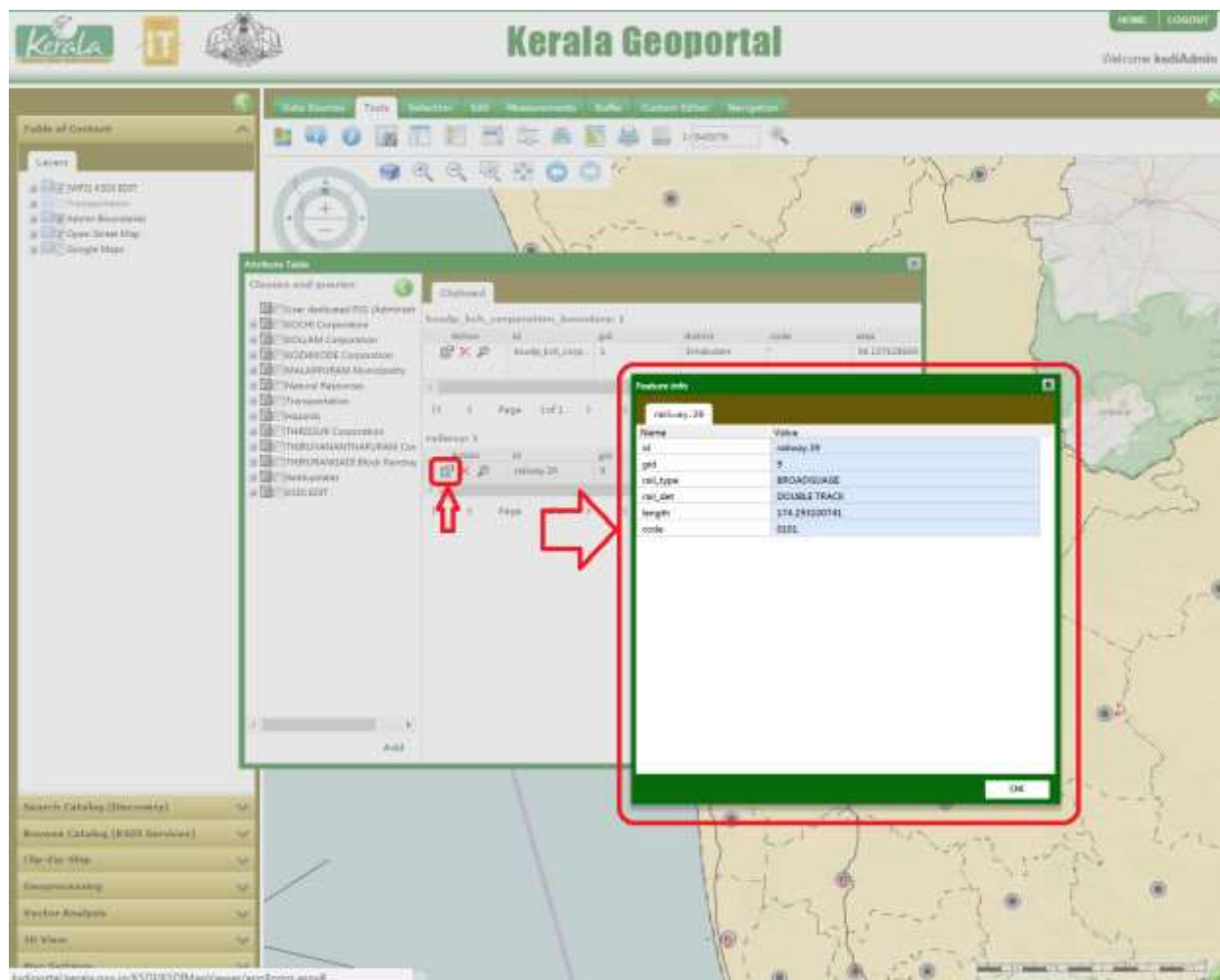


Figure 76: Feature information of selected data

5.10.4. Clear Selection

The following **Figure 77** illustrates the fourth option of 'Selection Tool', and removes all the selections from the map.

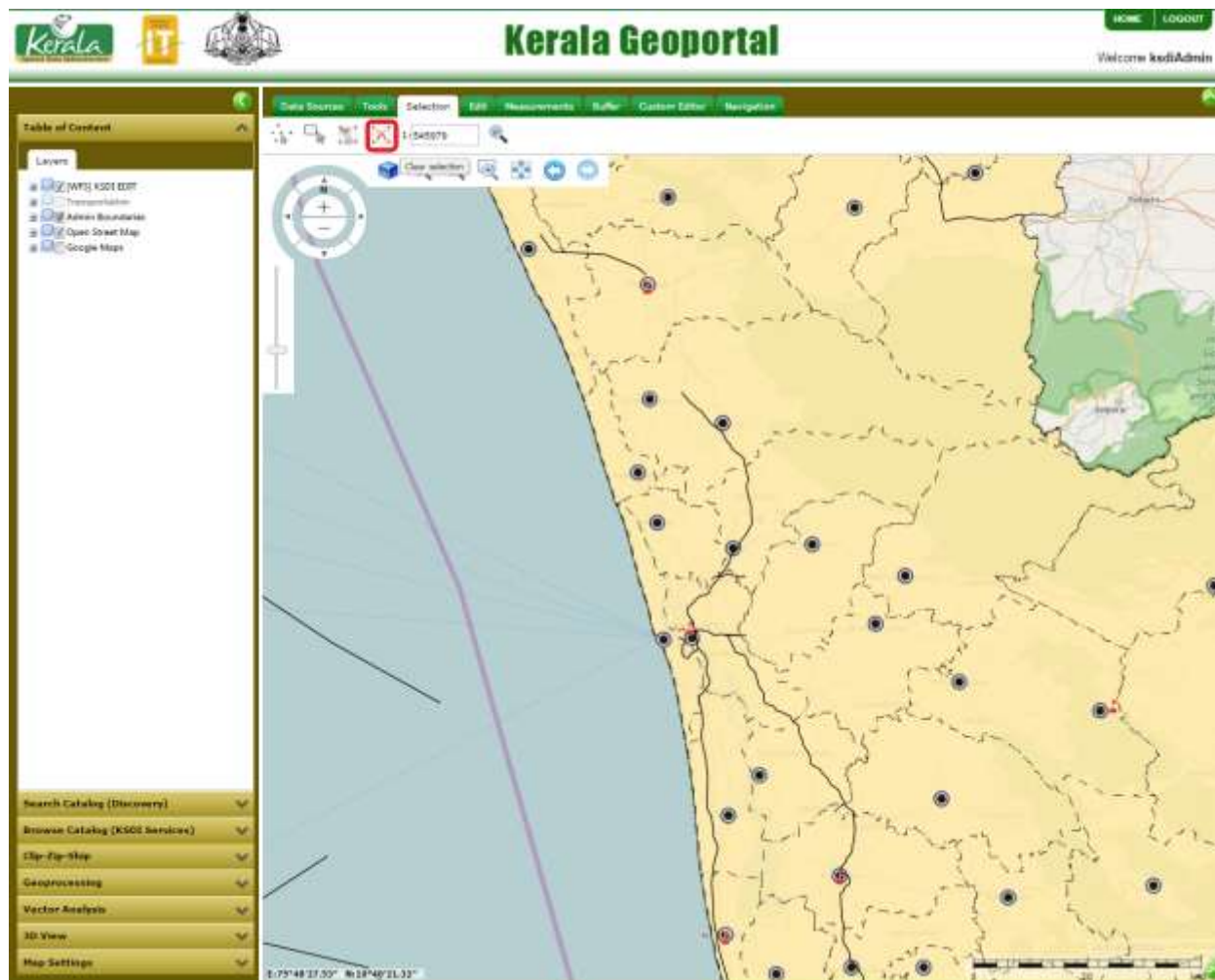


Figure 77: Section Tool (Clear Selection)

5.11. Edit

5.11.1. Insert

This feature helps the user to insert a line, polygon, point feature to the existing map area.

To add 'Insert', we need to set the catalog as shown in the **Figure 78**

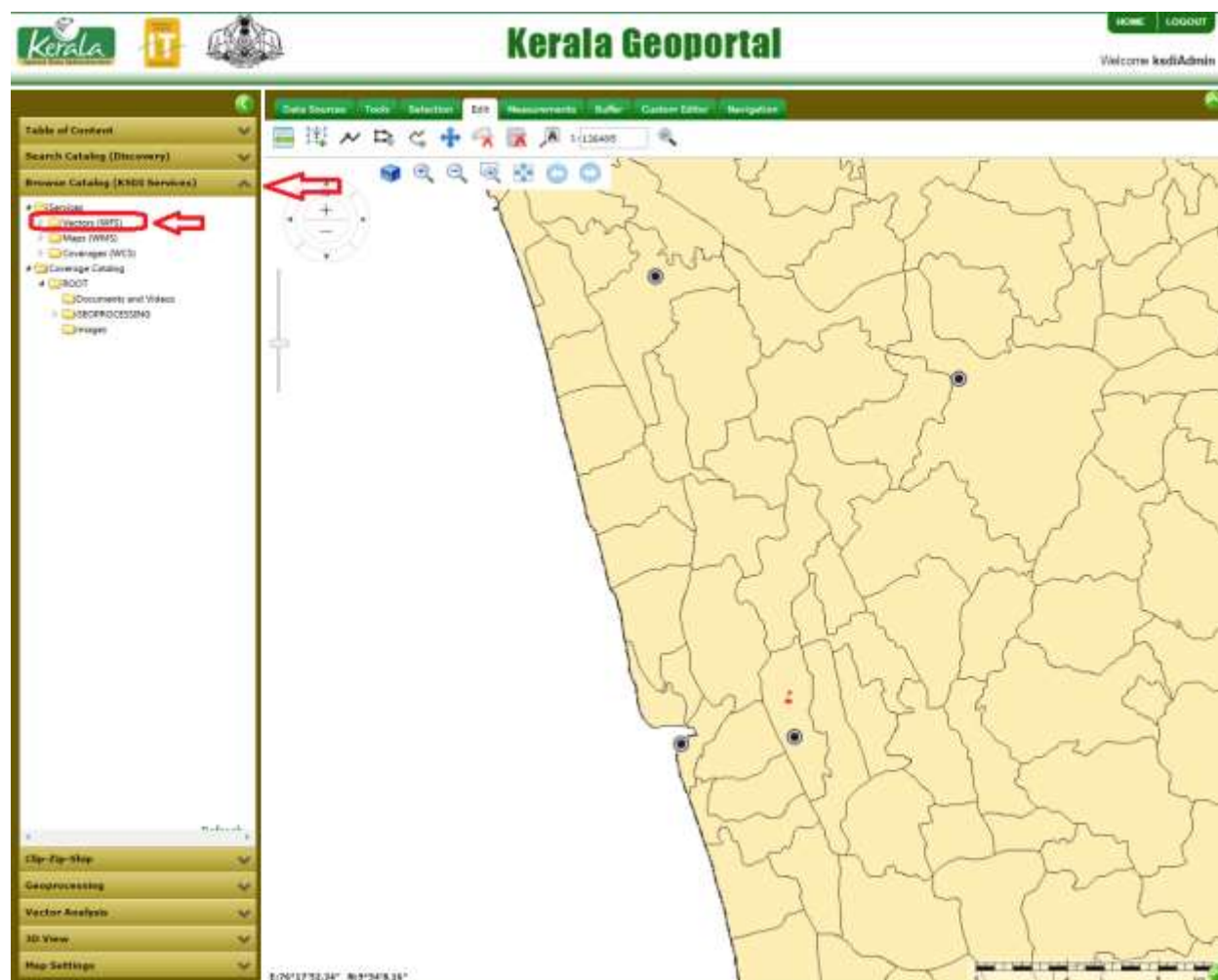


Figure 78: Browse Catalog – Vectors

1. Please follow the path Browse Catalog→Services→Vectors, please click on the fifth option, on clicking, it displays a pop-up window, where the user should select the options for generating the desired insertion on the existing vector map
2. After selecting the option as 'Vectors (WPS)', as shown in the **Figure 78** and select 'KSDI EDIT', option as shown in the **Figure 79**
3. A pop-up window is displayed as shown in **Figure 79**, now please click on the 'Result window', where the user should select an image as shown below **Figure 79**. After selecting the image, hover the mouse on 'Add to map', option and click on the 'Add as Vector', button as shown in **Figure 80**

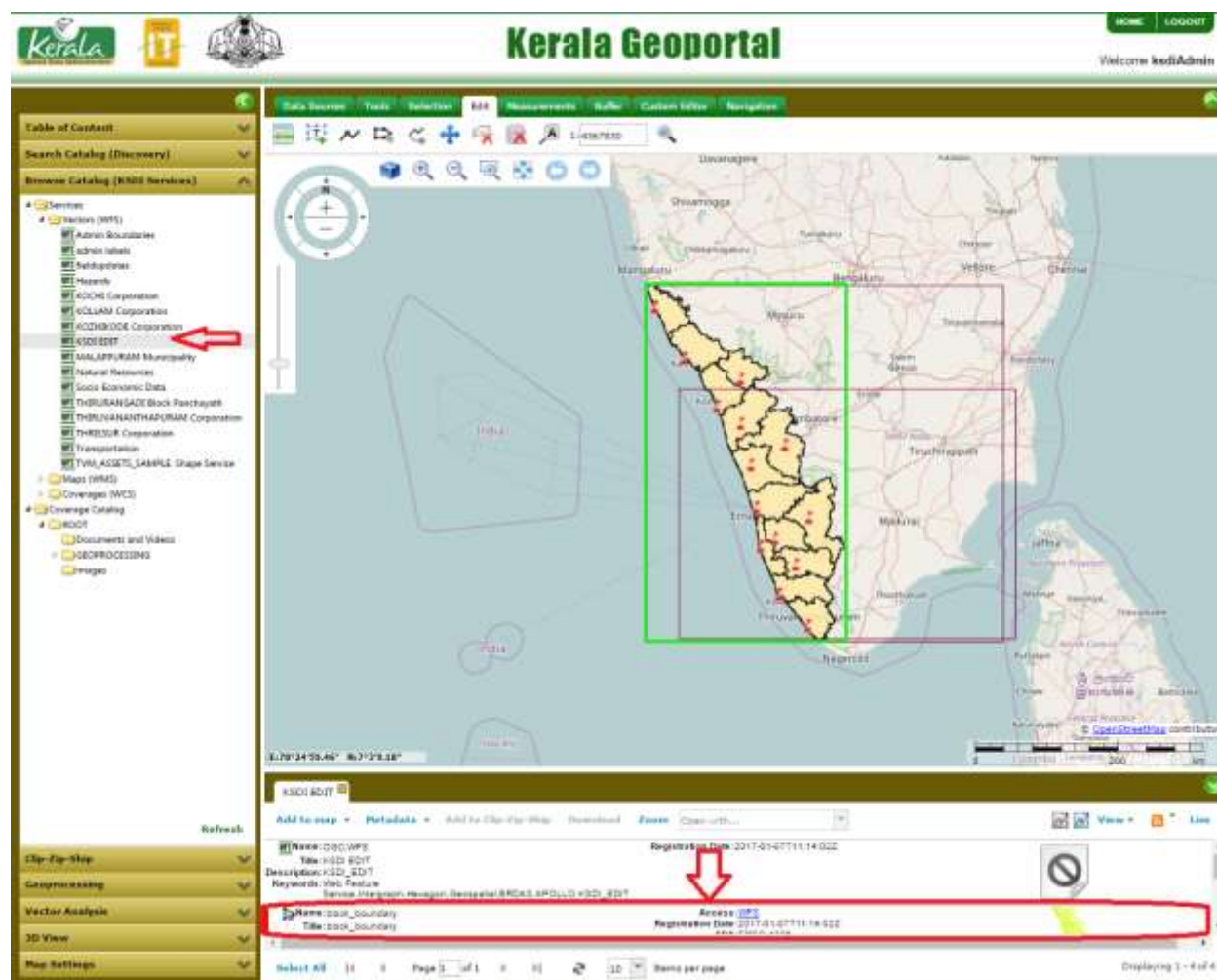


Figure 79: Selection of sub sections for KSDI EDIT Vector Map

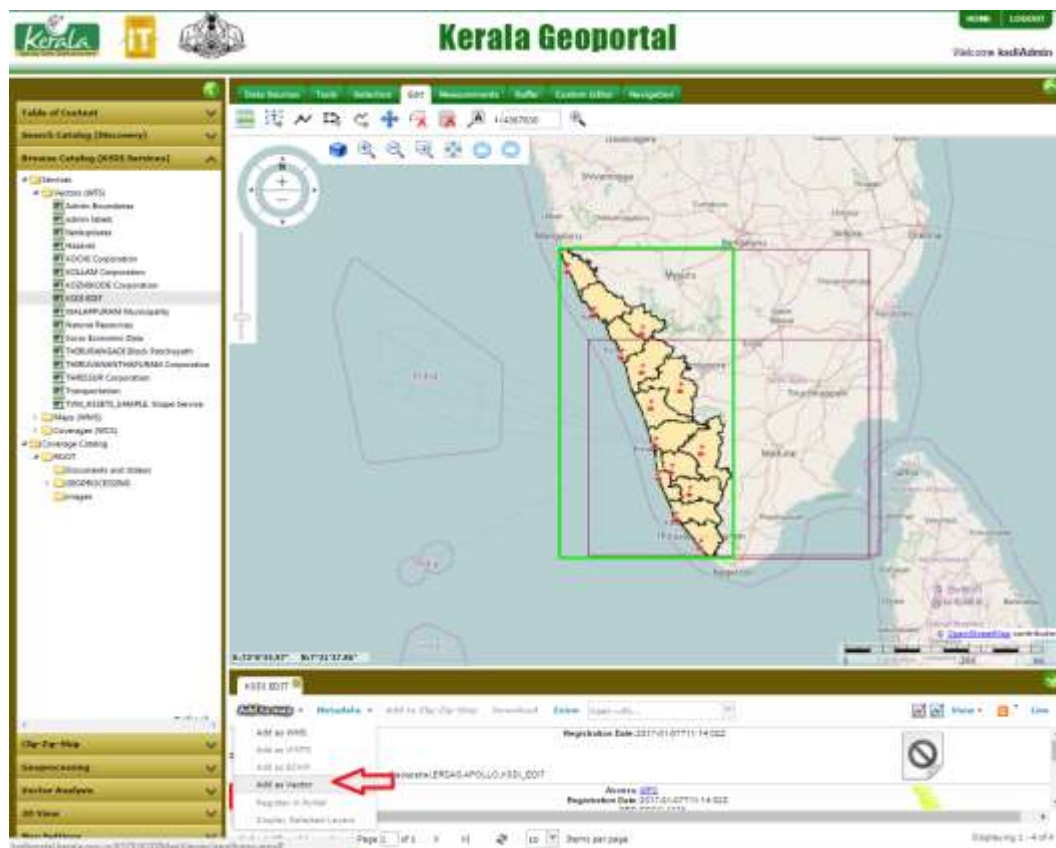


Figure 80: Adding of sub sections for KSDI EDIT Vector Map

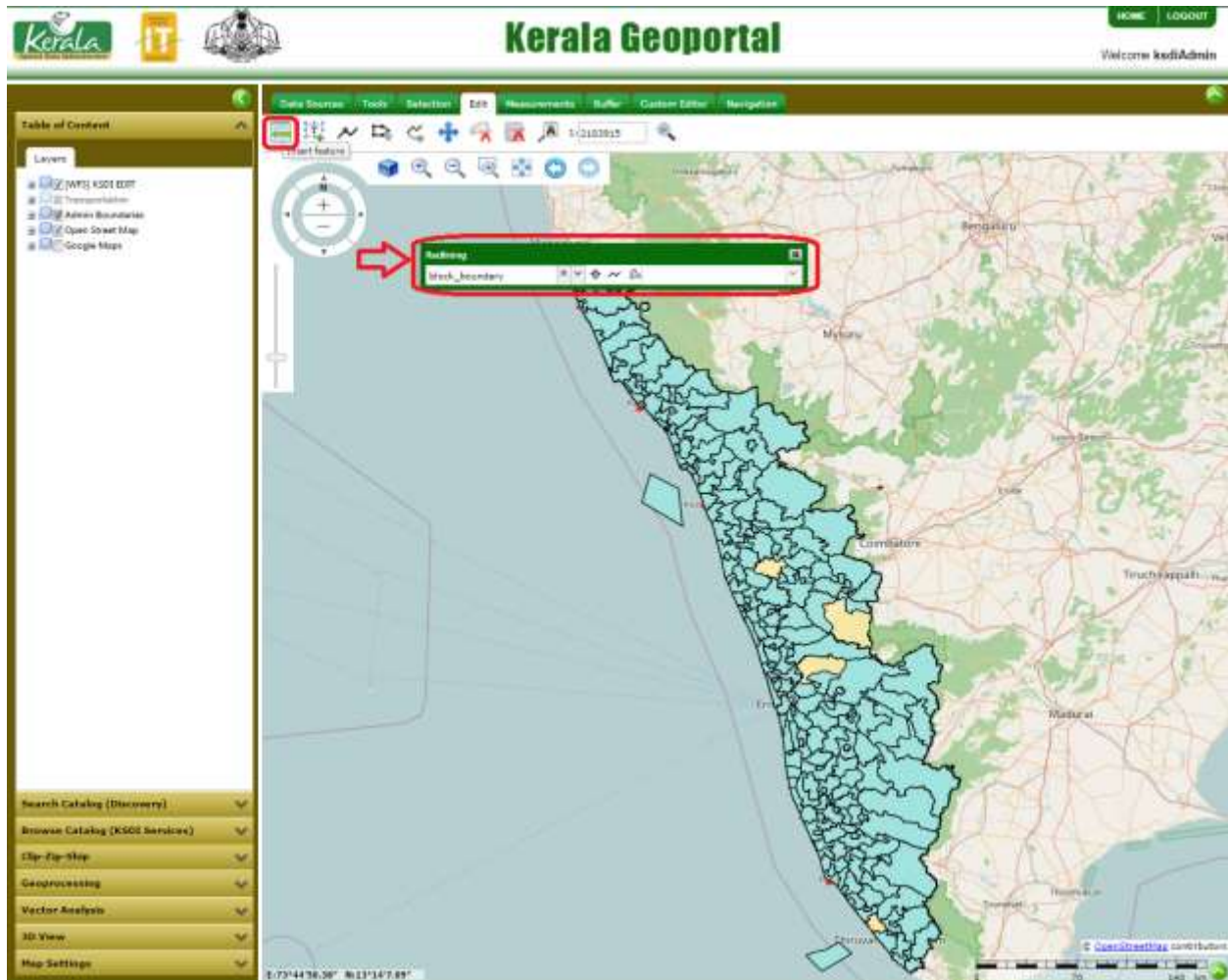


Figure 81: Insert Main Page

1. Once, the addition of vectors has been added, Now, to check whether the image has been added, please follow the path Map Viewer→Edit→ Insert, and click on the first option, on clicking, it displays a pop-up widow as shown in the **Figure 81**
2. Here, the user can select the options as shown in the **Figure 82**, here the user has selected 'block_boundary', as an option to draw a line on the existing map in order to insert that particular tracking route on the existing map as shown in the **Figure 83**.
3. After drawing a line, a pop-up window is displayed, where the user has to enter 'object id' as shown in the **Figure 84**
4. The added feature is being displayed as shown in the **Figure 85**



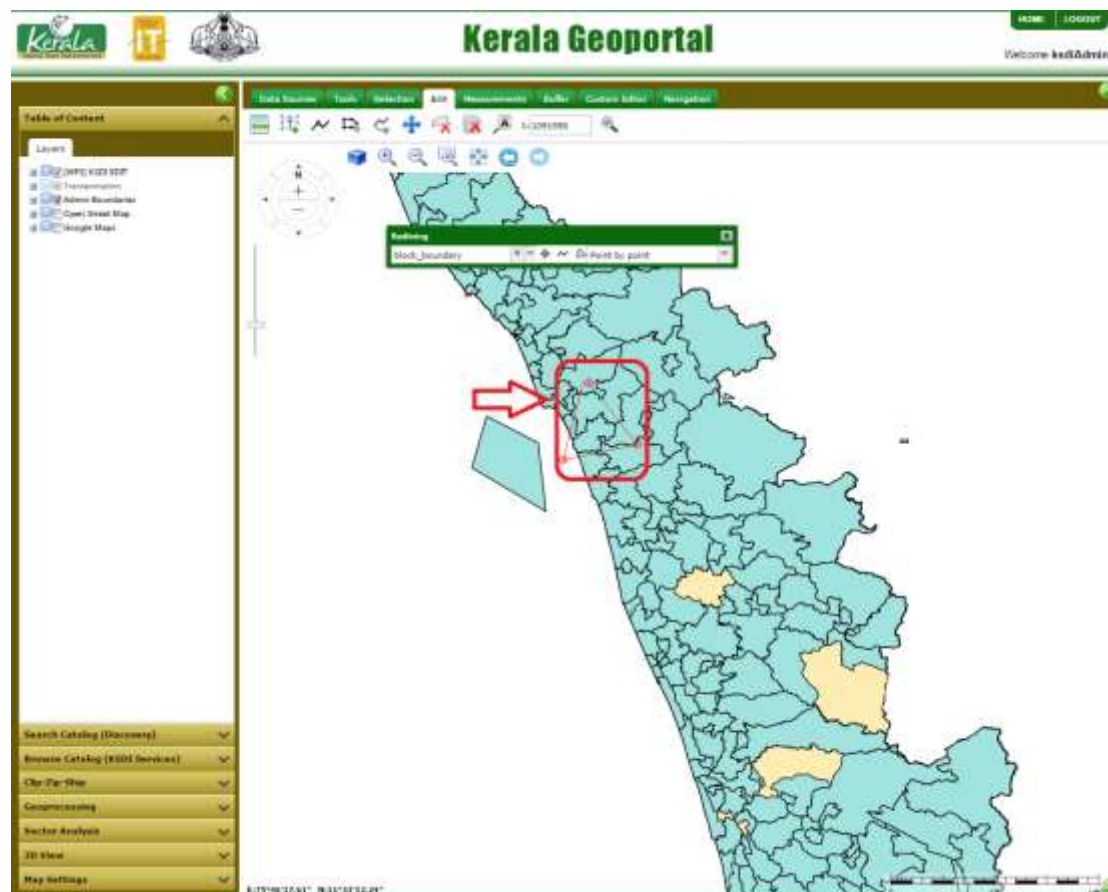


Figure 83: Inserting a line on the existing map

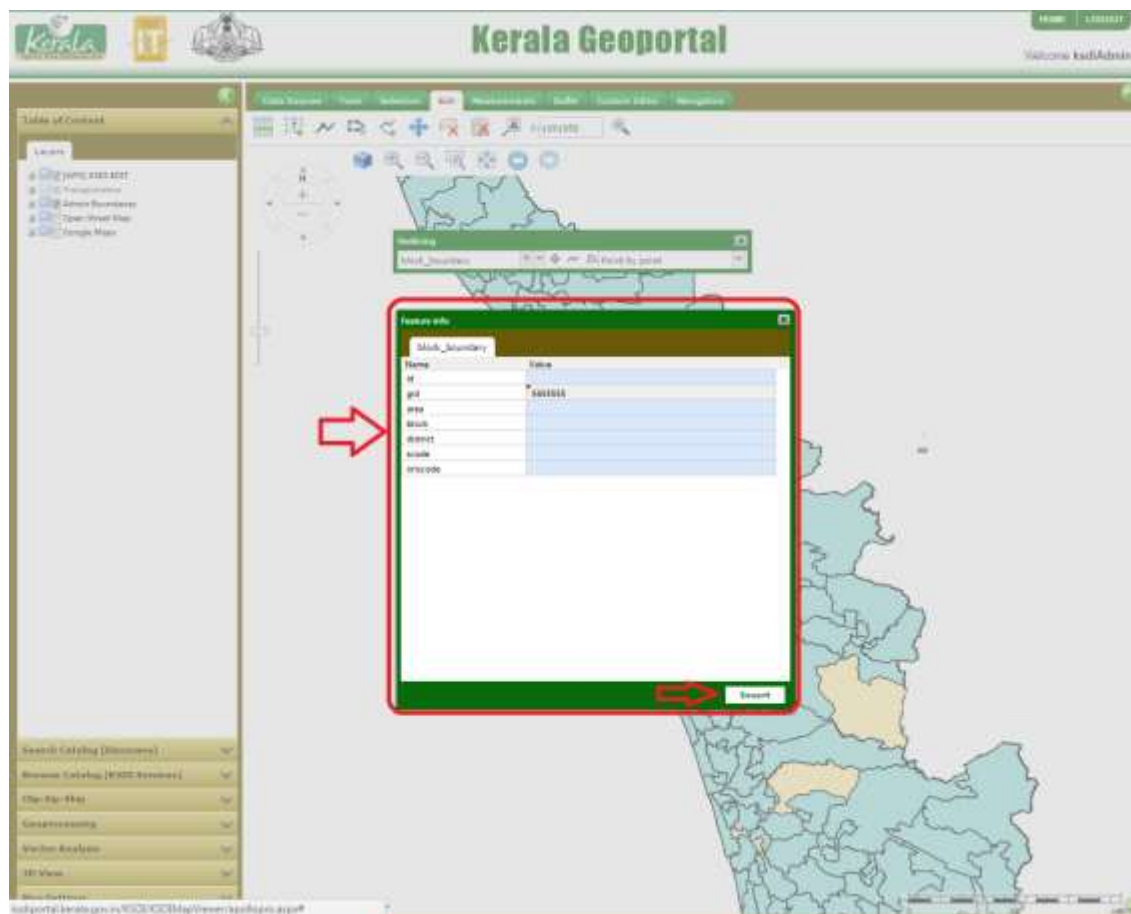


Figure 84: Entering the gid for inserted feature

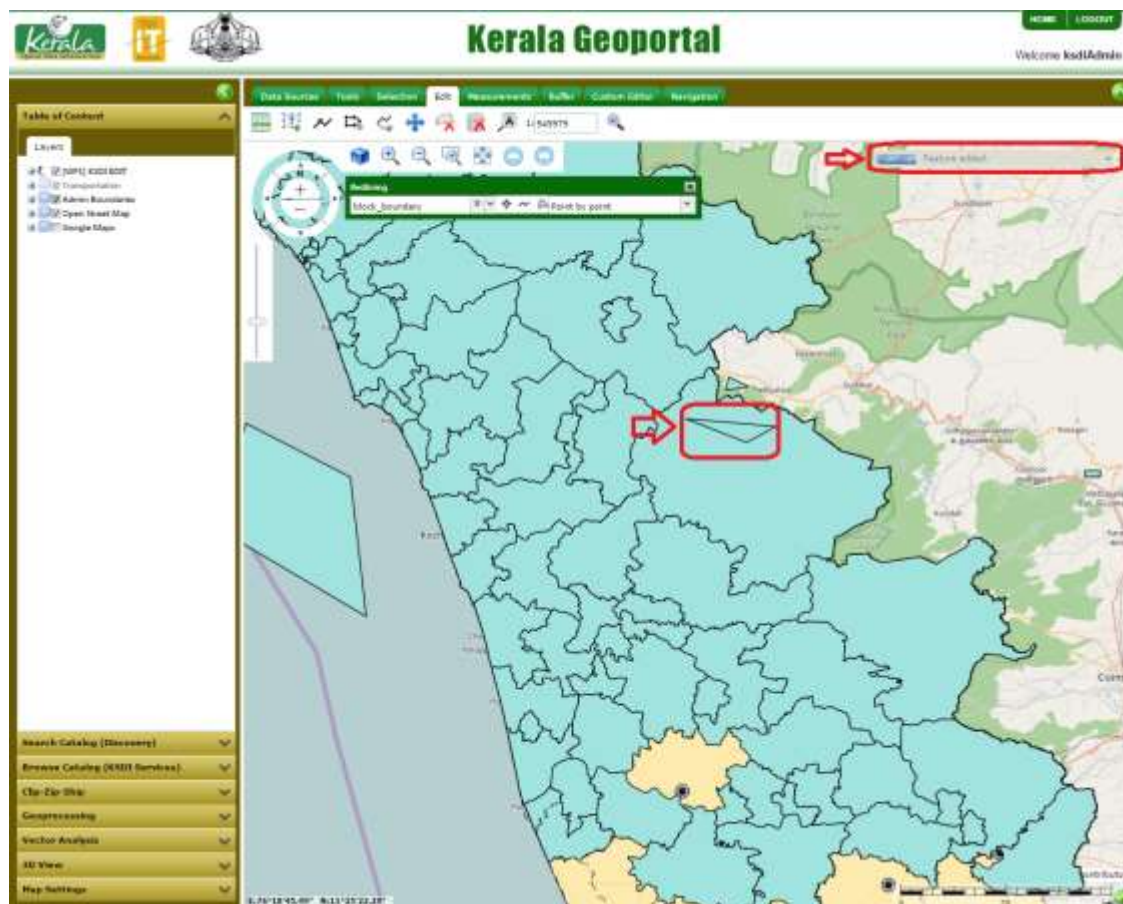



Figure 85: Inserted Tracking Route Feature Result Page

5.11.2. Insert Text

This feature allows the user to insert text on the map. Text on the map can be placed at any angle. The text feature class must be defined before you can insert text on the map.

To insert text on the map:

1. Select the **Insert text**  tool from the **Edit** tab. The **Insert text** dialog box appears.

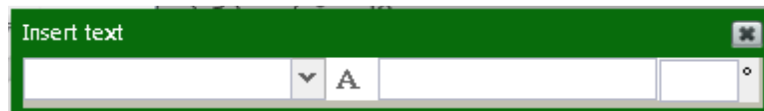


Figure 86: Insert Text Window

2. From the drop-down list, select the text feature class for which your text is to be inserted. Only text feature classes are visible in the drop-down list for the **Insert text** tool.
3. Type the text to be put on the map in the text field
4. Provide the text angle in the field next to the text field. The value for the angle is in degrees, and the angle is defined with a clockwise direction. To rotate in a counterclockwise direction, use negative values.
5. Click on the map to place text on the map. Optionally, provide values for text feature attributes if defined. Click Insert to add text on the map.
6. Click Close button on the Insert text dialog to close the dialog box. Right click to quit from the text inserting mode.

5.11.3. Snap

The Snap functionality lets you more easily insert features and edit geometry. During creating or editing geometry, elements of the created objects are attached to the objects from the selected feature class so that you can draw objects more precisely.

To activate Snap functionality:

1. Click  to display the Snap toolbar

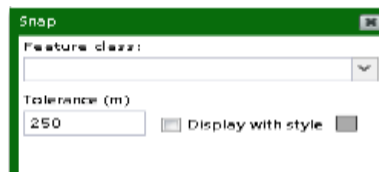


Figure 87: Snap Tool

- Expand the **PSS** layer, and select the feature class which will attach to elements of the created or edited objects.

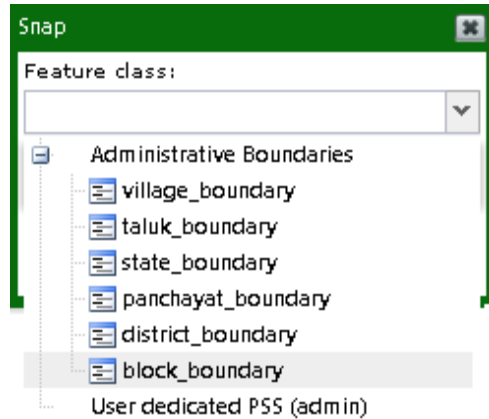



Figure 88: Snap Tool Selection

- In the **tolerance** field, type a distance within which **Snap** functionality will be active, and check **Display with style** to determine the style in which the classes will be displayed.

5.11.4. Edit Geometry

- Select a feature to be edited.
- Click **Edit geometry**  highlights and is marked with lines and red points
- Move the cross-hair cursor to the geometry. Red lines will appear. Move the cursor and click to define a new shape for the geometry.

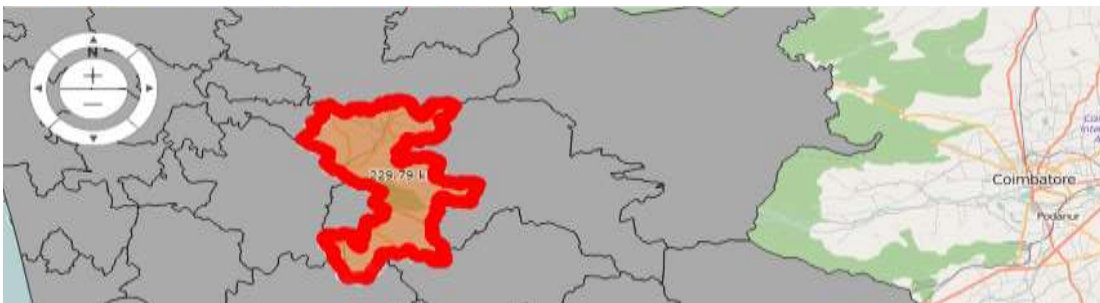


Figure 89: Edit Geometry Selection

4. Select **Move** point to change the point's location. The geometry shape changes.

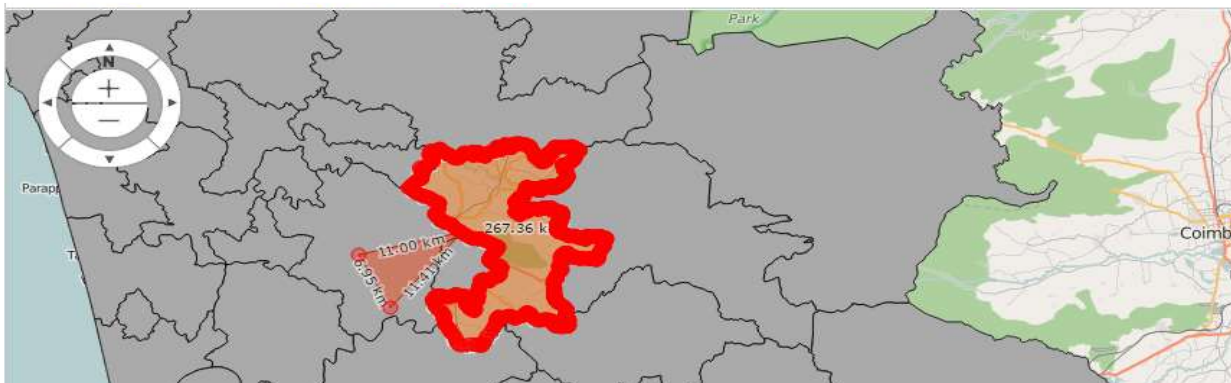



Figure 90: Edit Geometry (Move Point)

5. Select **Delete** point. The point is deleted.
6. Double click to end editing.


5.11.5. Continue Geometry

Continue geometry functionality is available only for geometries of the area type.

1. Click **Continue geometry**  in the edit tool bar.
2. After inserting the feature to the feature class.
3. Move the cursor on the newly created geometry and then on the base geometry
4. Both geometries are highlighted at the same time


5.11.6. Move Geometry

Move geometry functionality is used to move the single geometry feature. It applies to all the geometry feature.

1. Select the geometry on the map, then the geometry will be highlighted
2. Click Move Geometry  The geometry highlight color changes in the map window.
3. • Move the cursor over the geometry, press the left mouse button, and, keeping the mouse button pressed, move the geometry to the new position. Double click to finish.

5.11.7. Remove part of Geometry

To remove the selected features from database, follow the below steps.

1. Click to select the feature to be removed. Press CTRL + click to select more than one feature to delete.
2. Click **"Remove selected features from the database"**  Then the feature will be removed.

5.11.8. Insert marker/ Annotation

Adding, Editing or Deleting an Annotation

To add an annotation:


1. In the **Edit** tab, click the Insert marker/annotation button 
2. In the Choose service field, type the created service name.
3. In the Annotations Tab Class name field, type Annotation with corner.
4. In the Annotation text field, type the text to be viewed.
5. Click Draw annotation, and select two points on the map. A new object is added to the map.
6. In the Class name field, type Annotation with rounding.
7. In the Annotation text field, type parking.
8. Click Draw annotation, and select two points on the map. A new object is added to the map.



Figure 91: Insert marker/Annotation

To edit annotations:


- Using the example above, double click the annotation that has written.
- Change the name of the annotation.
- Change the class name

To delete annotations:

- Select the line to delete from the annotation.
- Click on **Remove** then the Annotation will be removed.

Adding or Deleting a Marker

To add a marker:

- In the **Edit** tab, click the Insert marker/annotation button 
- In the **Choose service** field, type the created service name.
- In the **Signs** field, drag and drop any sign on the map.
- On the **Pins** tab, select any pin and drag and drop it on the map.

To remove a pin or marker from the map:

- Select pin or marker.
- Click on Remove the marker will be removed.

5.12. Custom Editor

This tool helps the user to custom edit interactive distances and properties on the map.

The following **Figure 92** illustrates the 'Custom Editor', option of Map Viewer.

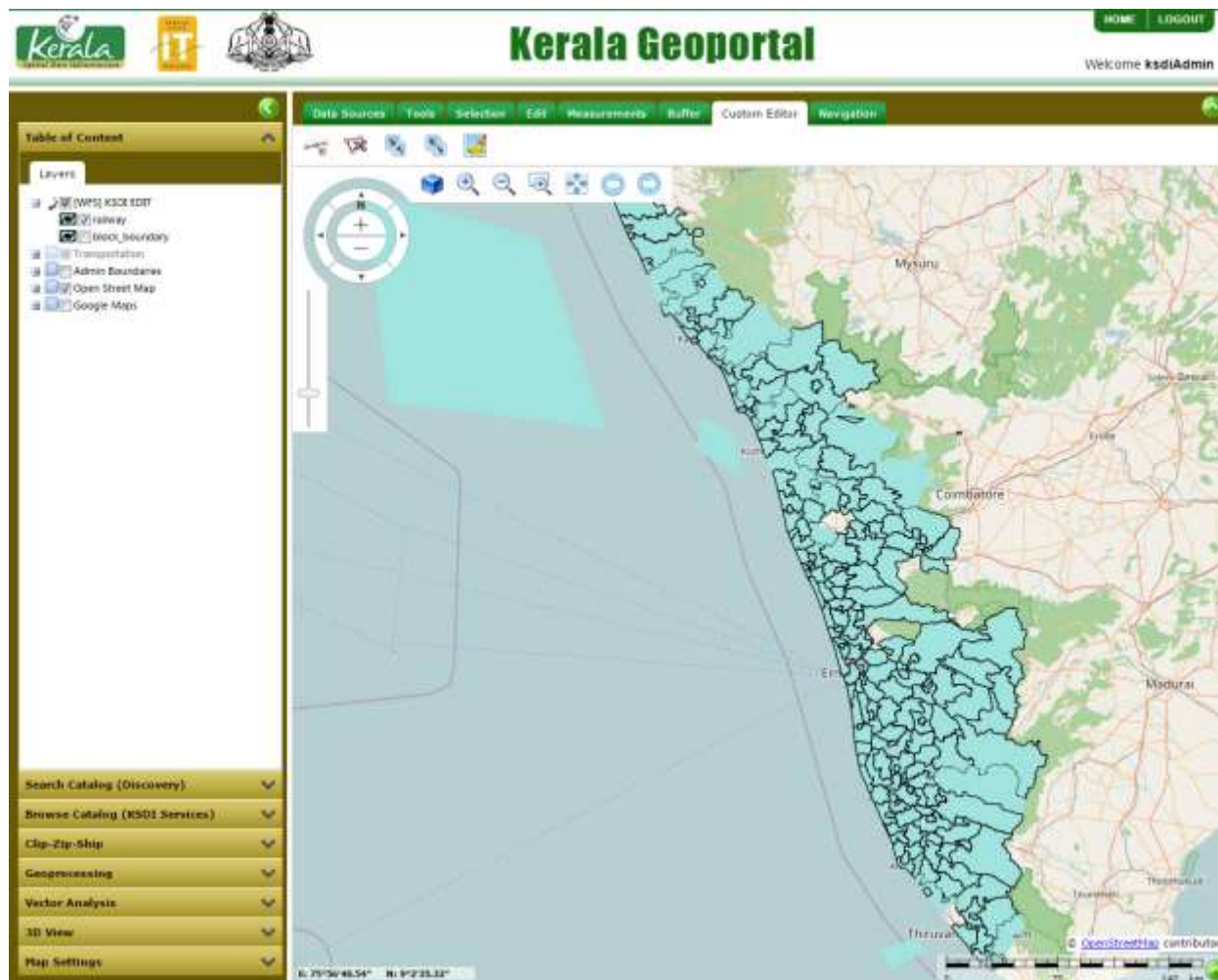


Figure 92: Custom Editor

1. Please follow the path Map Viewer → Custom Editor

5.12.1. Merge a Polygon

To split a polygon, we need to draw/insert a polygon using Edit→Insert option which is explained in **5.11.1** section.

The following **Figure 93** illustrates the main page of merge a polygon option of Custom Editor.

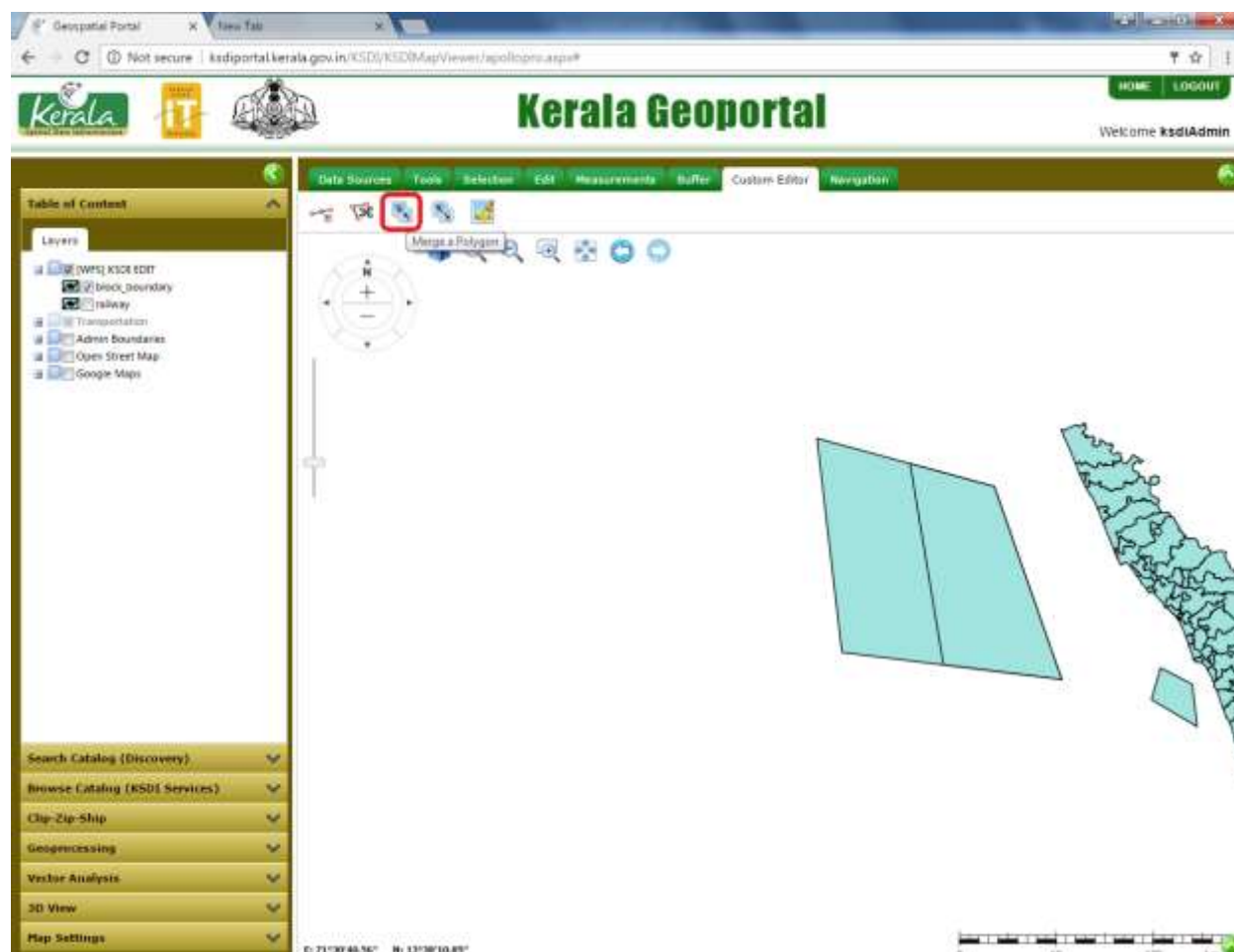


Figure 93: Merge a Polygon Main Page

1. Please follow the path Map Viewer→Custom Editor→Merge a Polygon, please click on the third option, next we need to select two polygons and features to merge as shown in the **Figure 94**
2. It processes the Polyline and displays a divided Polygon with a line in between the polygons as shown in the **Figure 95**

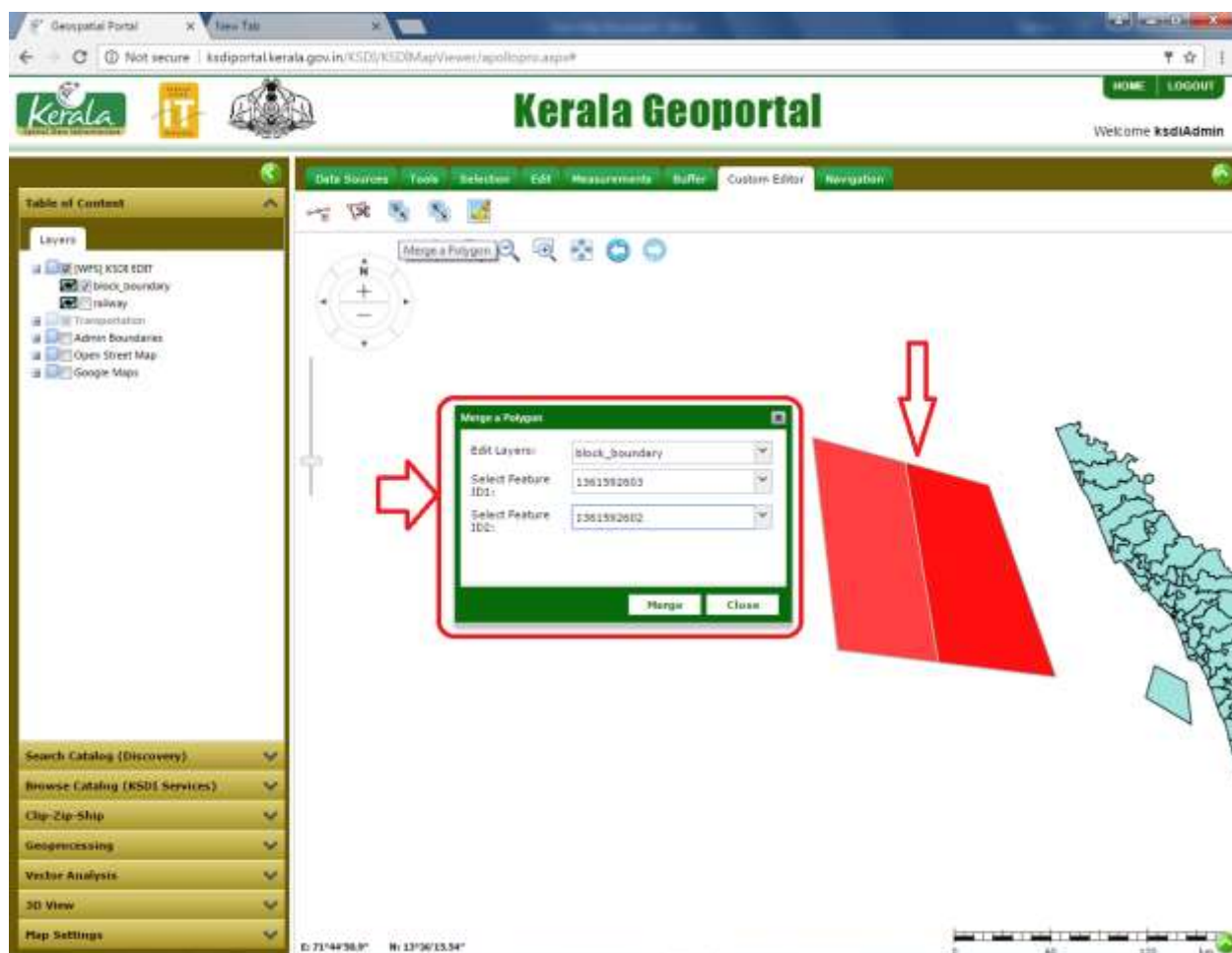


Figure 94: Merge a Polygon Selection Page

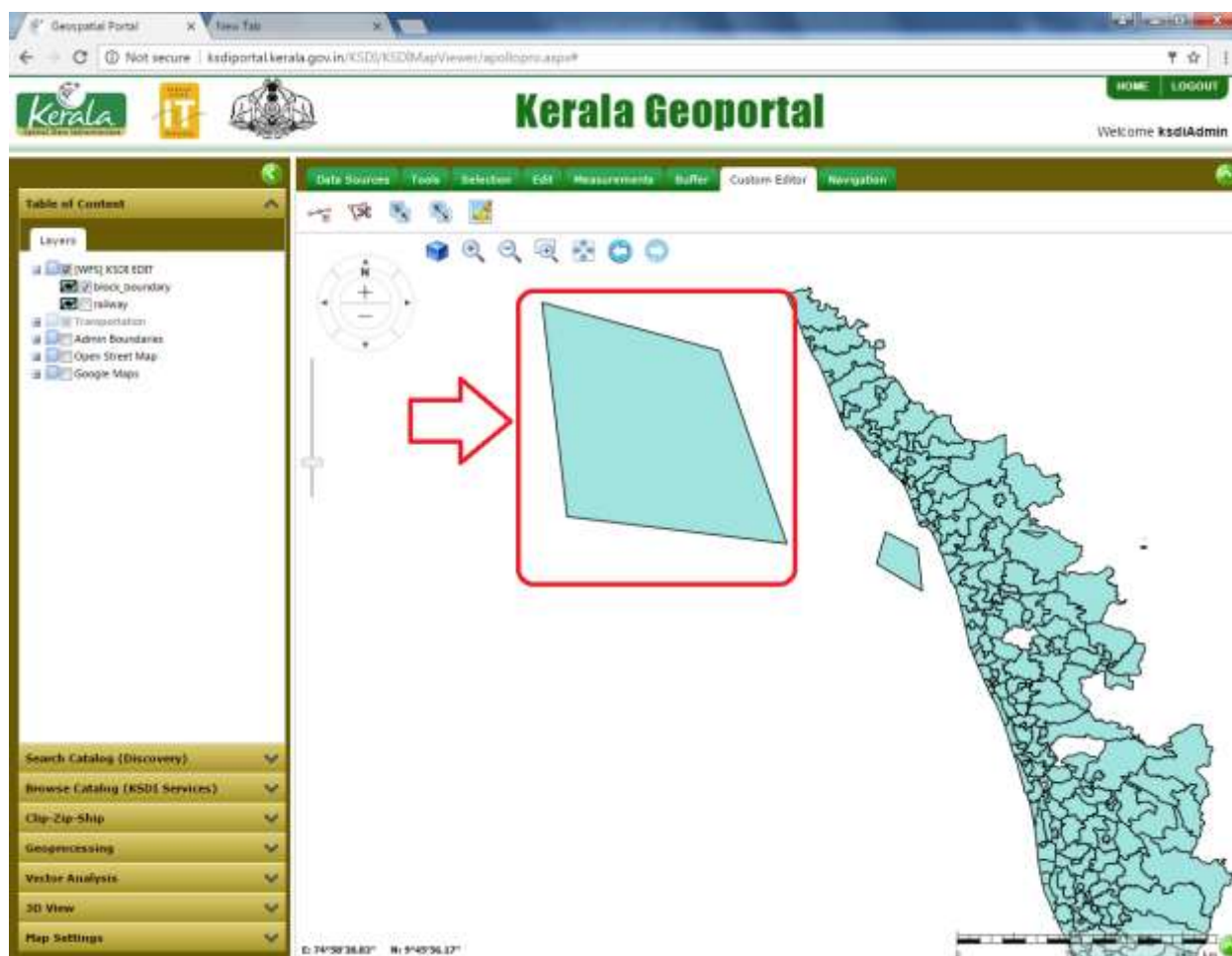


Figure 95: Merge a Polygon Result Page

5.12.2. Split a Polygon

To split a polygon, we need to draw/insert a polygon using Edit→Insert option which is explained in **5.11.1** section.

The following **Figure 96** illustrates the main page of Split a polygon option of Custom Editor.

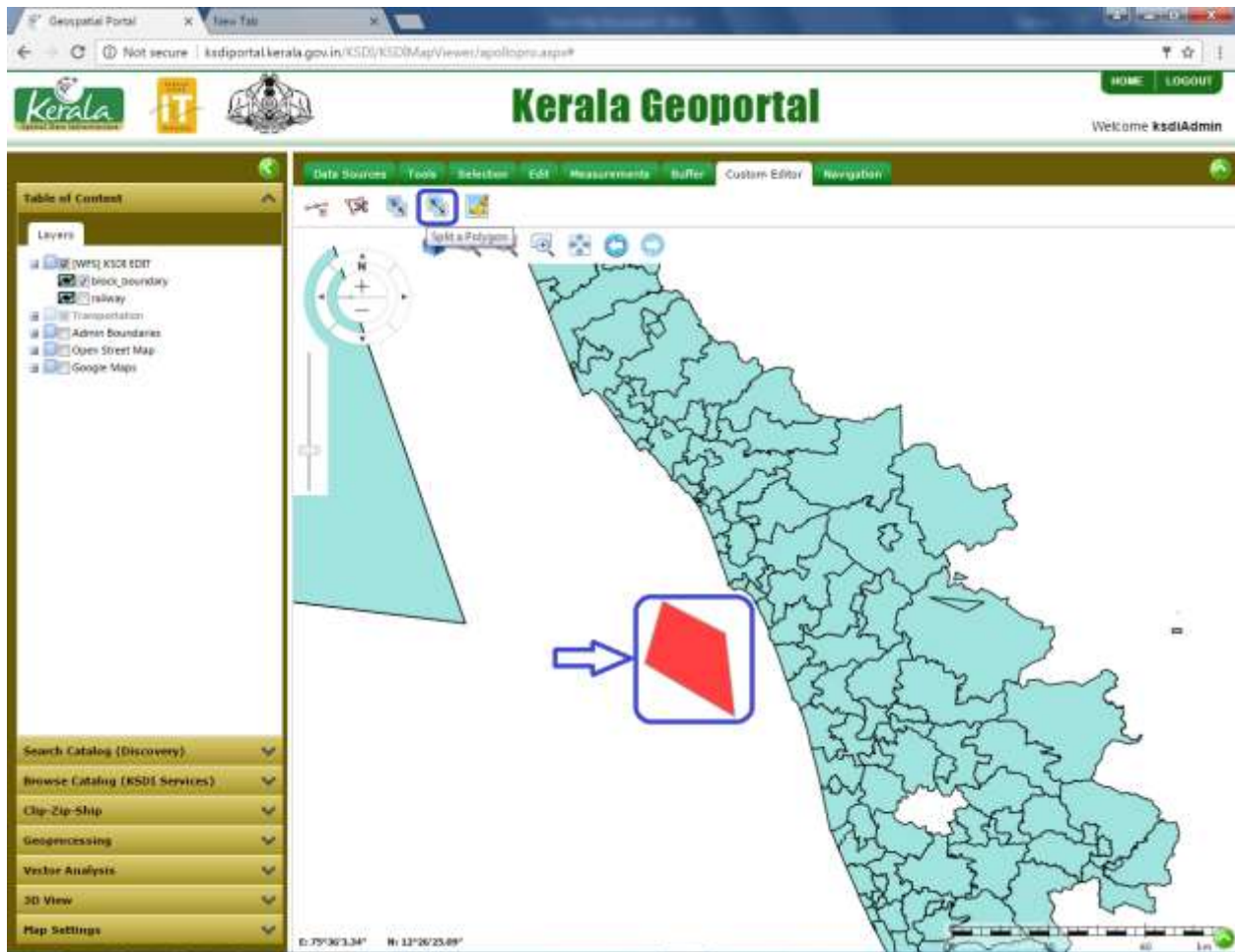


Figure 96: Split a Polygon Main Page

3. Please follow the path Map Viewer→Custom Editor→Split a Polygon, please click on the fourth option, next we need to draw a polyline as shown in the **Figure 97**
4. It processes the Polyline and displays a divided Polygon with a line in between the polygons as shown in the **Figure 98**

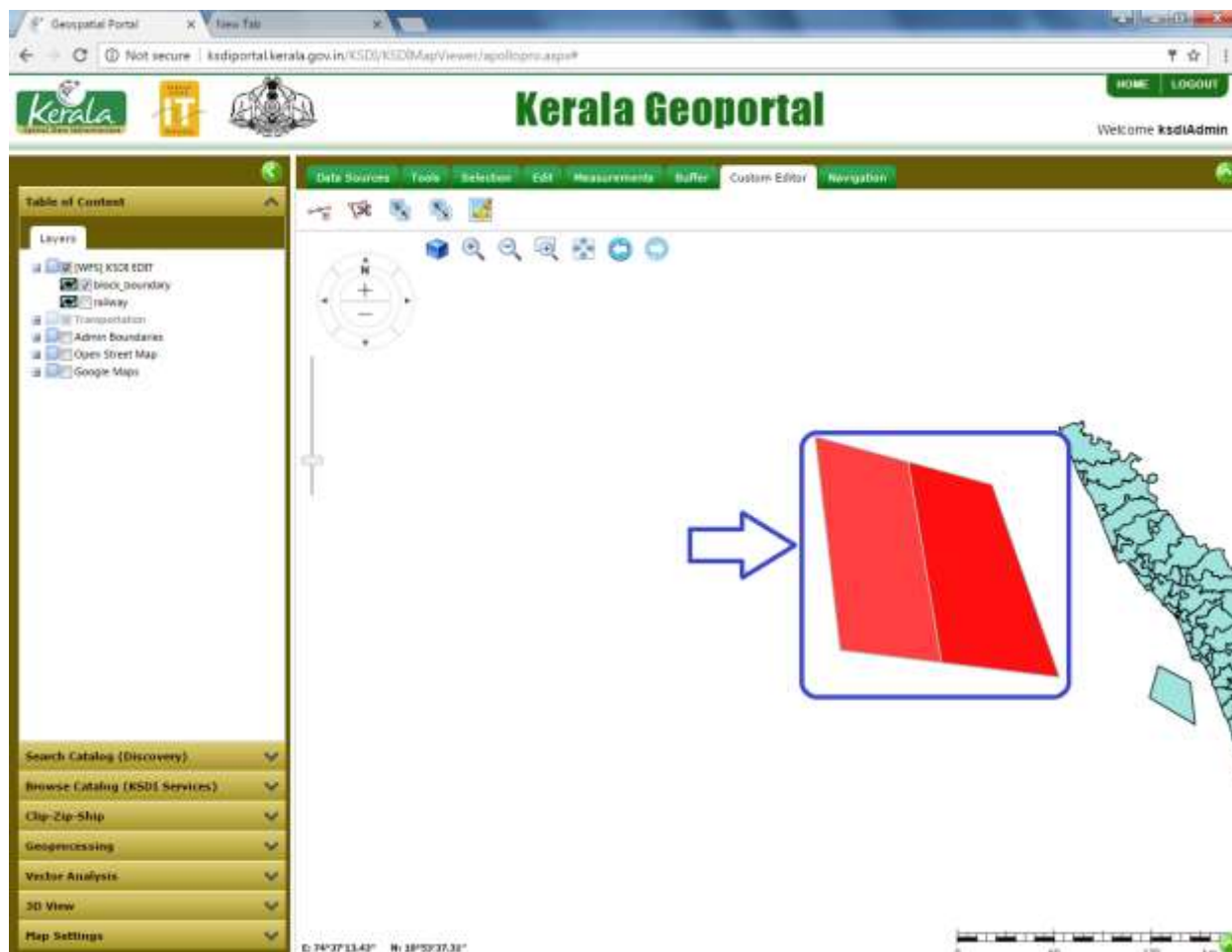


Figure 97: Split a Polygon Selection Page

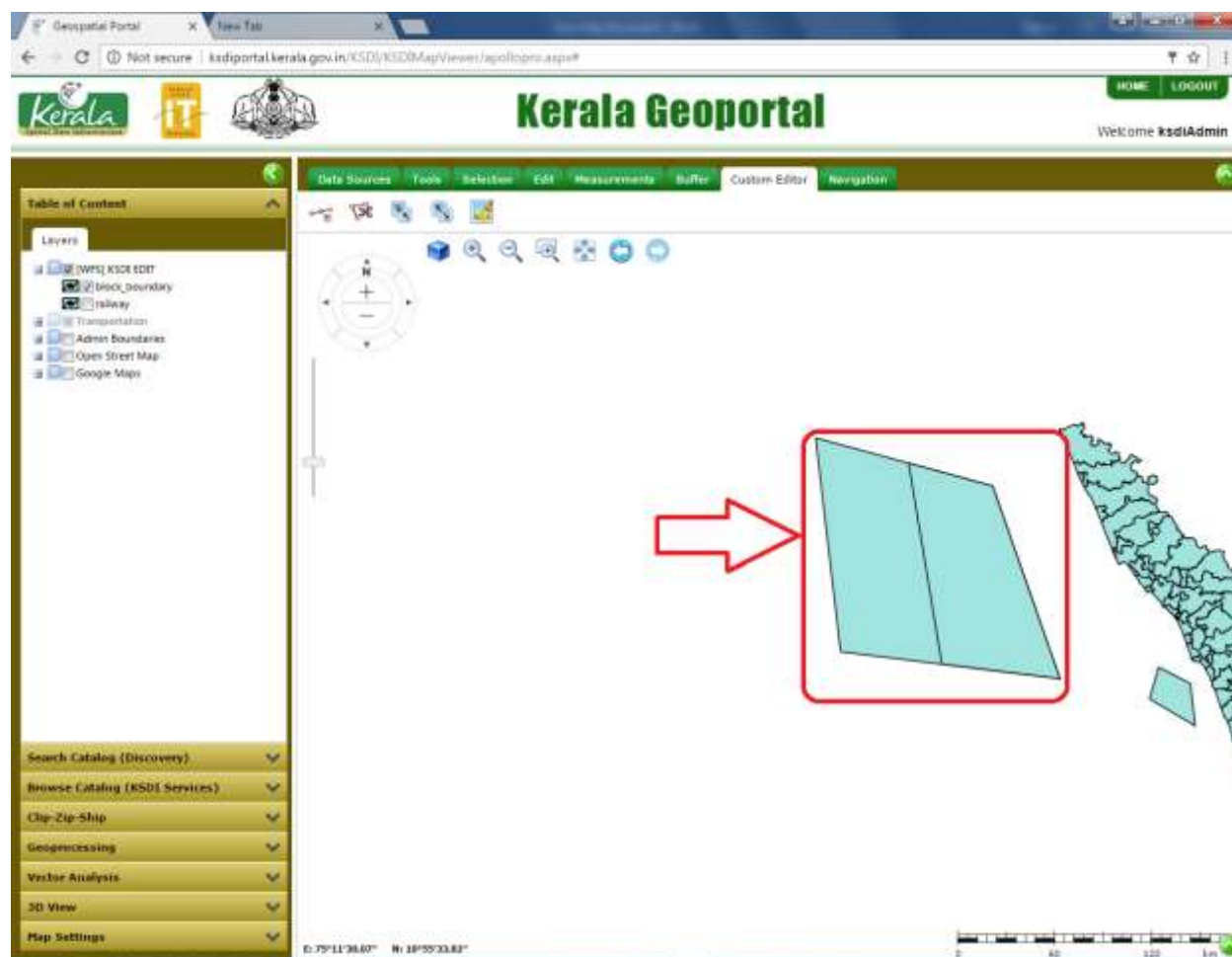


Figure 98: Split a Polygon Result Page

Note: Just like Merging and Breaking the Polygon, we can Merge the line and break the linear feature

5.13. Measurements

This tool helps the user to display interactive distances and properties on the map.

The following **Figure 99** illustrates the 'Measure Area/Length, option of Map Viewer.

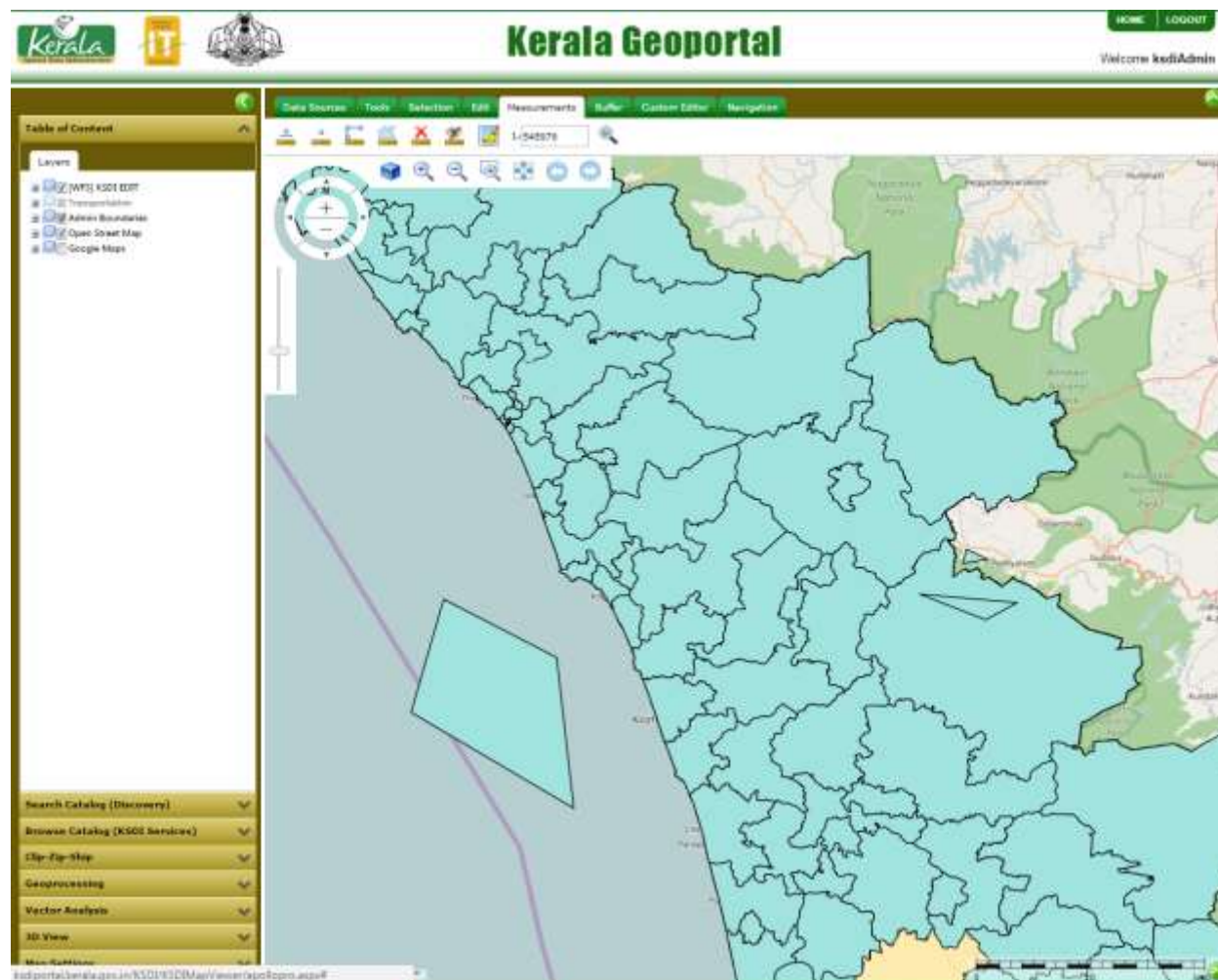


Figure 99: Measure Area/Length Main Page

1. Please follow the path Map Viewer→Measurements please click on the first option 'Measure Point', it displays a pointer to select an area on the map as shown in the **Figure 100**

5.13.1. Measure Point

The following **Figure 100** illustrates the first option of Measure Area/Length and displays the selected point on the map.

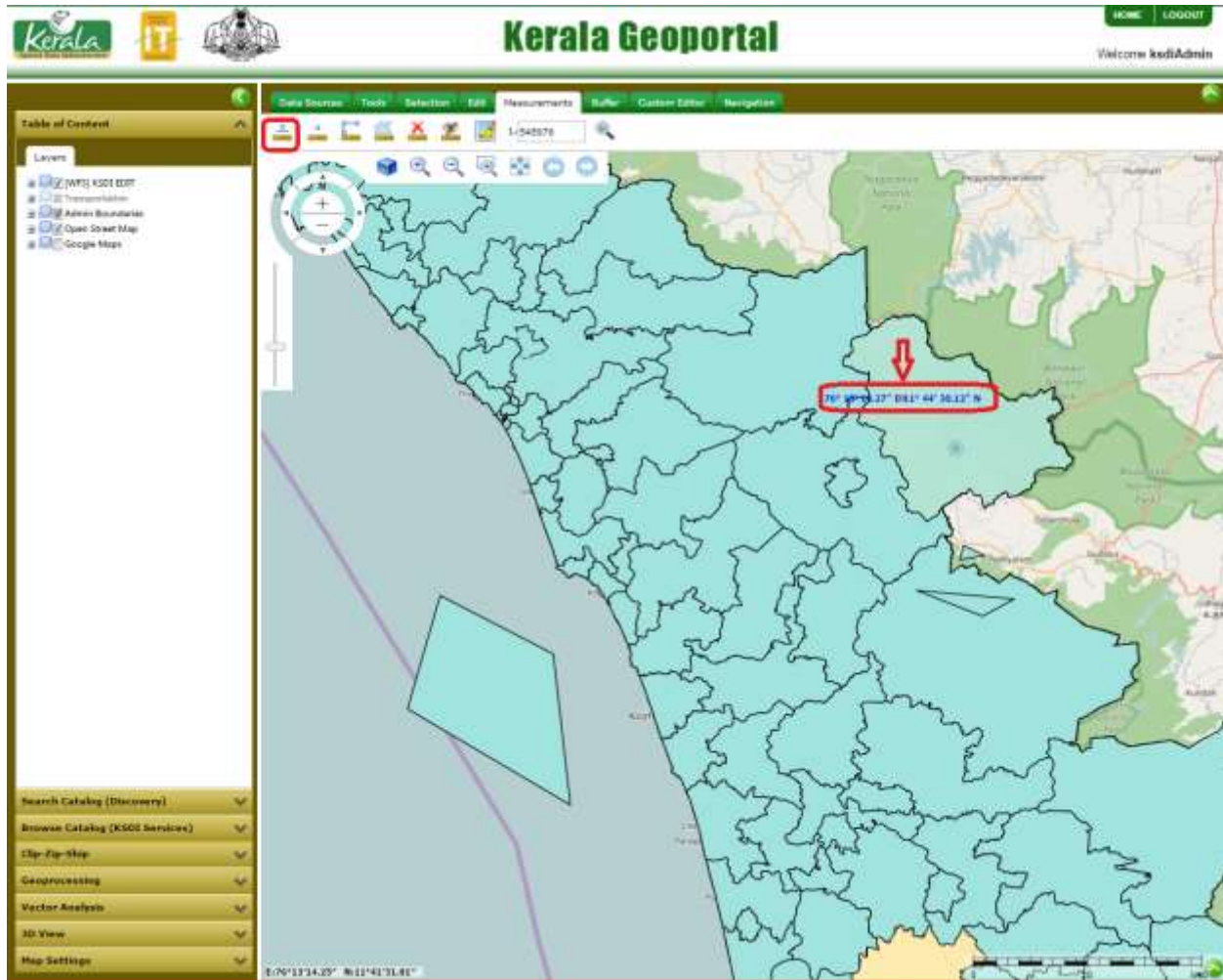


Figure 100: Measure Point

1. Please follow the path Map Viewer→Measurements→Show Coordinates in DMS, please click on the first option 'Show Coordinates in DMS', it displays a pointer to select an area on the map as shown in the **Figure 100**

5.13.2. Show Coordinates

The following **Figure 101** illustrates the second option of Measurements, 'Show Coordinates', and enables the user to display the selected coordinate.

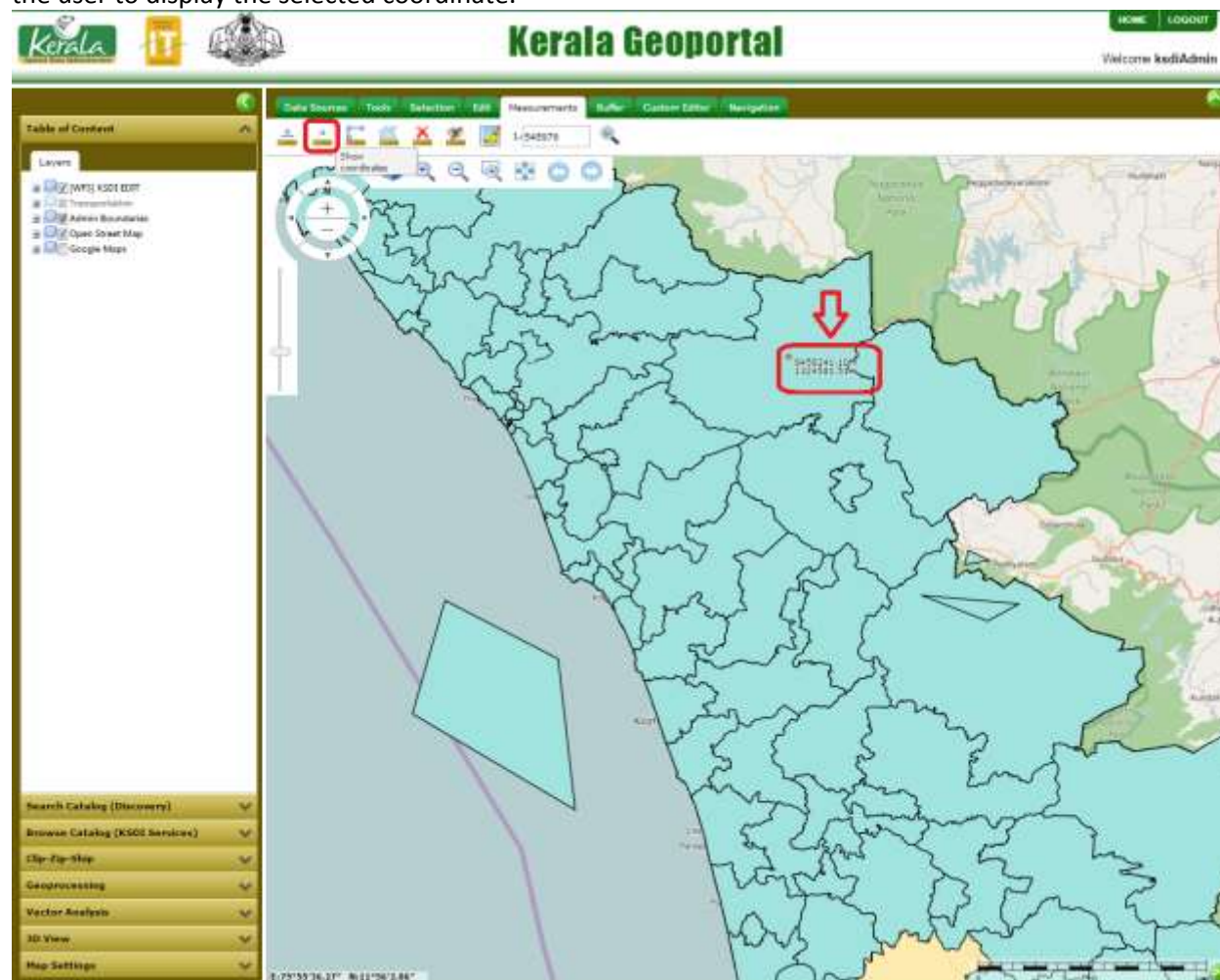


Figure 101: Show Coordinates Main Page

1. Please follow the path Map Viewer→Measurements→Show Coordinates, please click on the second option, it displays a pointer as shown in the **Figure 101**, where the user has to select the point to display the coordinates.

5.13.3. Measure Distance

The following **Figure 102** illustrates the third option of Measurements, 'Measure Distance', and enables the user to measure the distance between two or more points on the map.

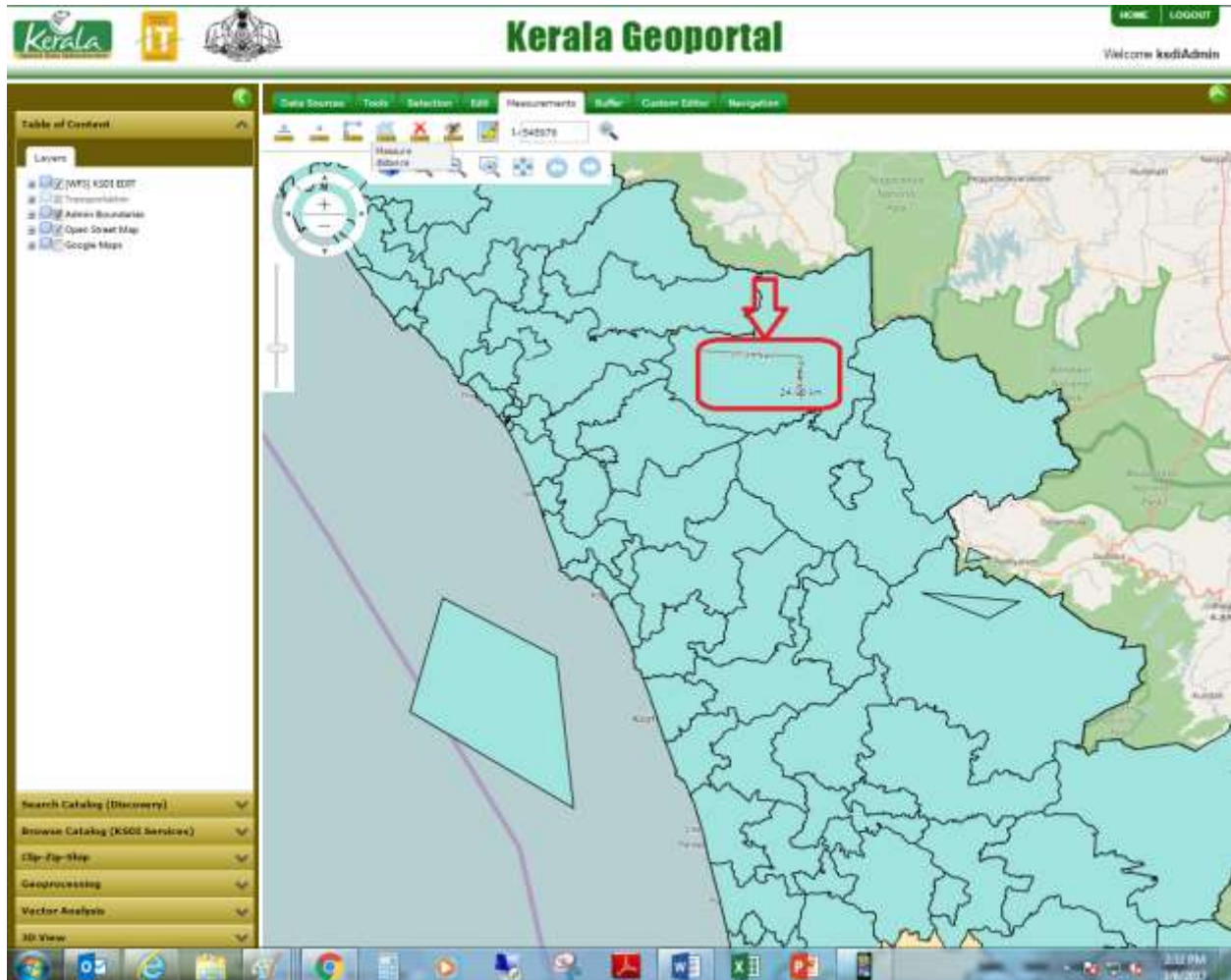


Figure 102: Measure Distance

1. Please follow the path Map Viewer→Measurements→Measure Distance, please click on the third option, it displays a pointer as shown in the **Figure 102**, where the user should select the points/draw the points in order to calculate the distance between the selected points.

5.13.4. Measure Area

The following **Figure 103** illustrates the third option of Measurements, 'Measure Area', and enables the user to measure the polygon area & perimeter on the map.

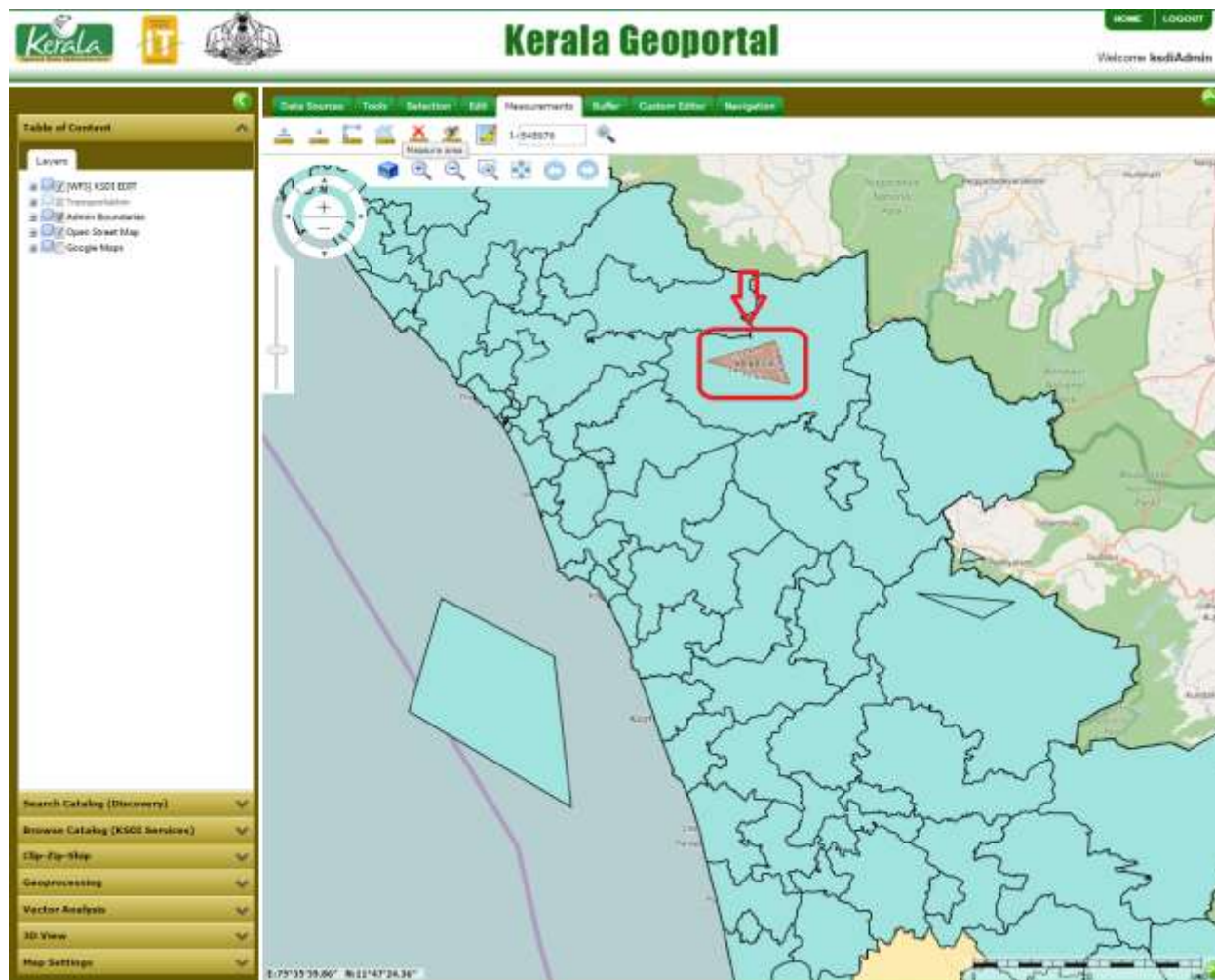


Figure 103: Measure Area Main Page

1. Please follow the path Map Viewer→Measurements→Measure Area, please click on the fourth option, it displays a pointer as shown in the **Figure 103**, where the user should select the points/draw the points to calculate the distance between the selected points.

5.13.5. Clear Measures

The following **Figure 104** illustrates the fifth option of Measurements, 'Clear Measures', and enables the user to clear all the measurements from the map.

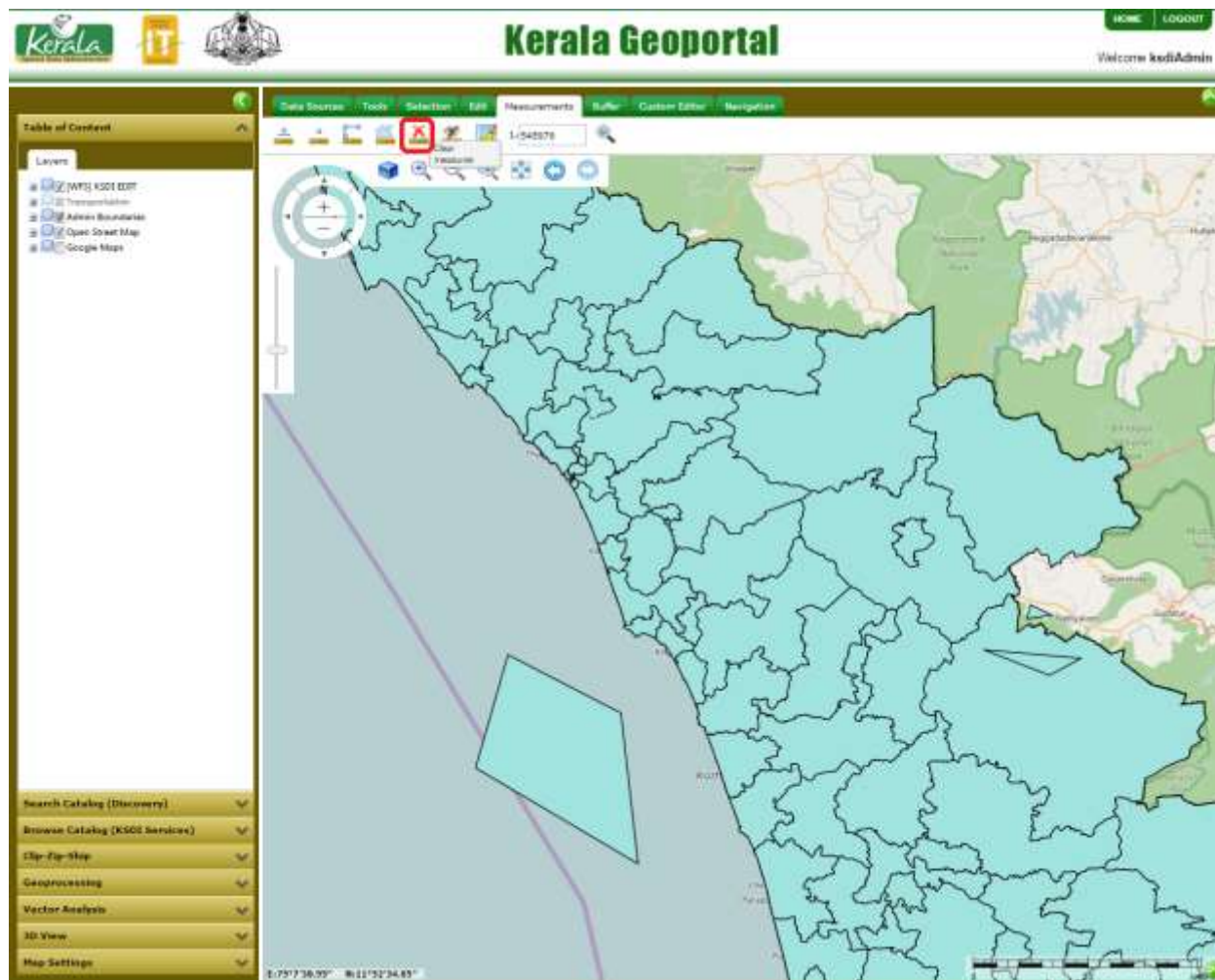


Figure 104: Clear Measures

1. Please follow the path Map Viewer→Measurements→Clear Measures, please click on the fifth option, on clicking, it clears all the measurements and the data associated to it as shown in the above figure

5.13.6. Show/Hide Measurements

The following **Figure 105** illustrates the sixth option of Measurements, 'Show/Hide Measurements', and enables the user to show/hide the variety of labels with the values for the measured objects.

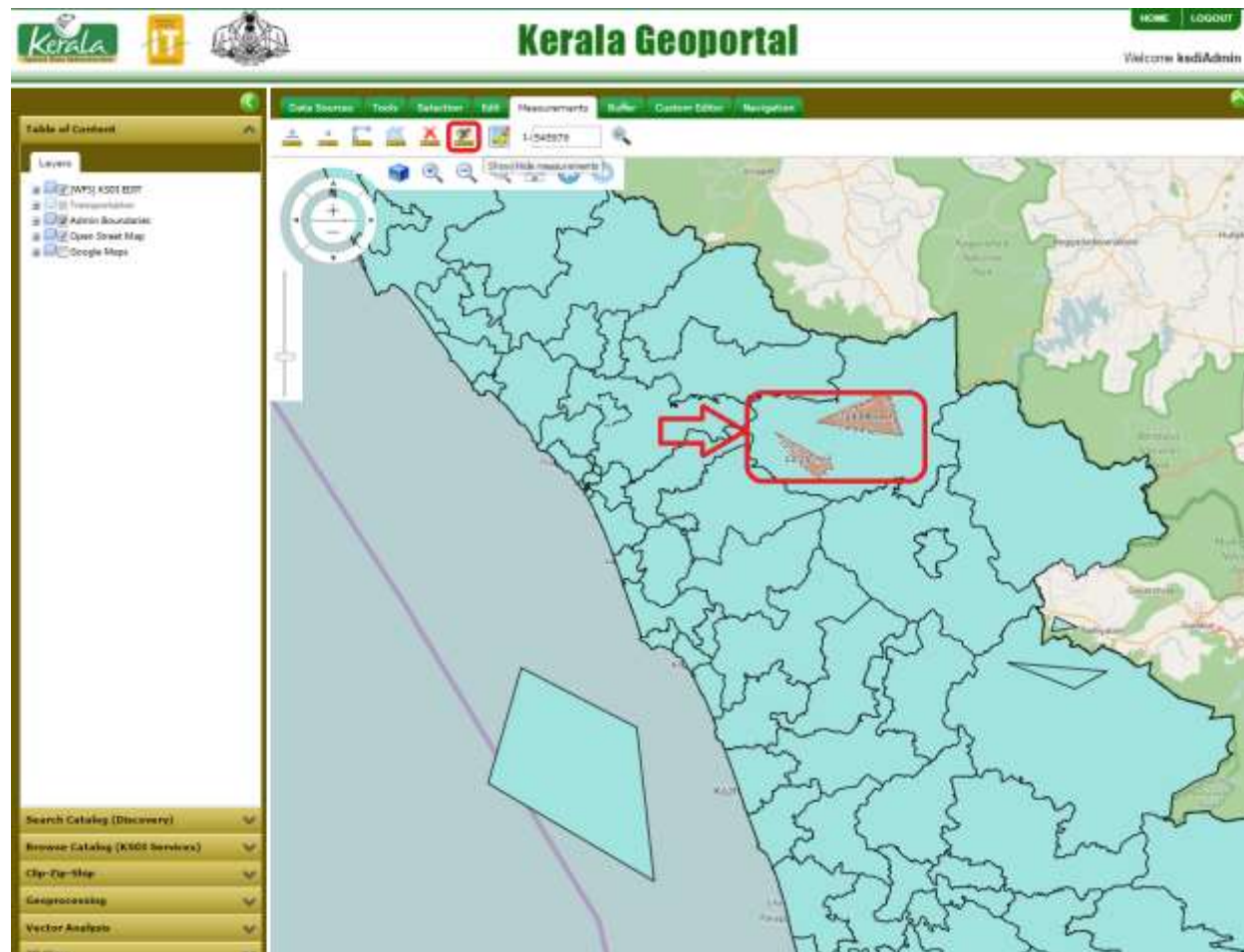


Figure 105: Measurement Hide/Show Page

1. Please follow the path Map Viewer→Measurements→Show/Hide Measurements, please click on the sixth option, on clicking, it clears all the measurements and the data associated
2. When user clicks on the Show/Hide Measurements, it hides the measurements value as shown in the **Figure 106**

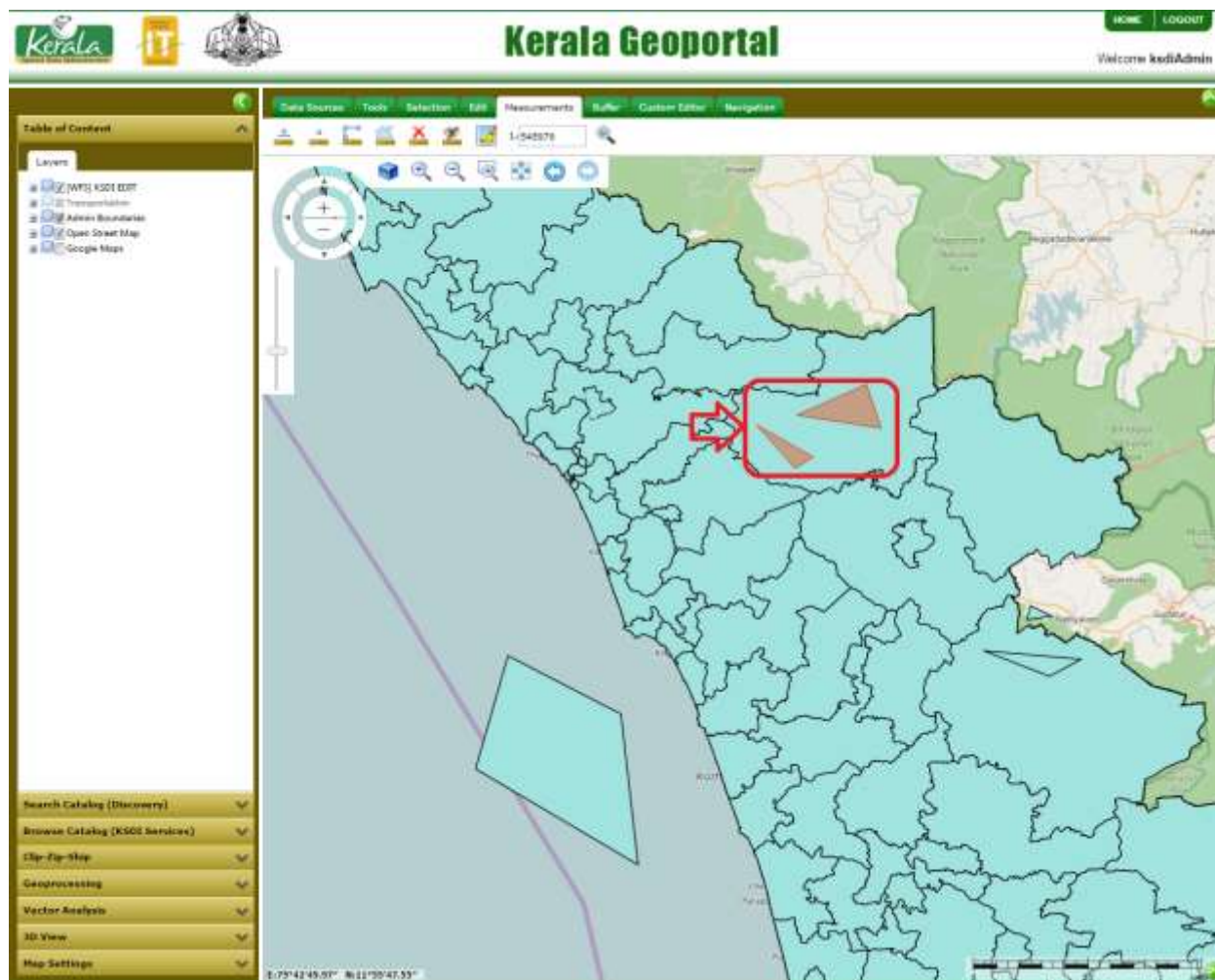


Figure 106: Measurement Hide/Show Result Page

5.13.7. Coordinates Clear

The following **Figure 107** illustrates the seventh option of Measurements, 'Coordinates Clear', and enables the user to clear all the coordinates from the map.

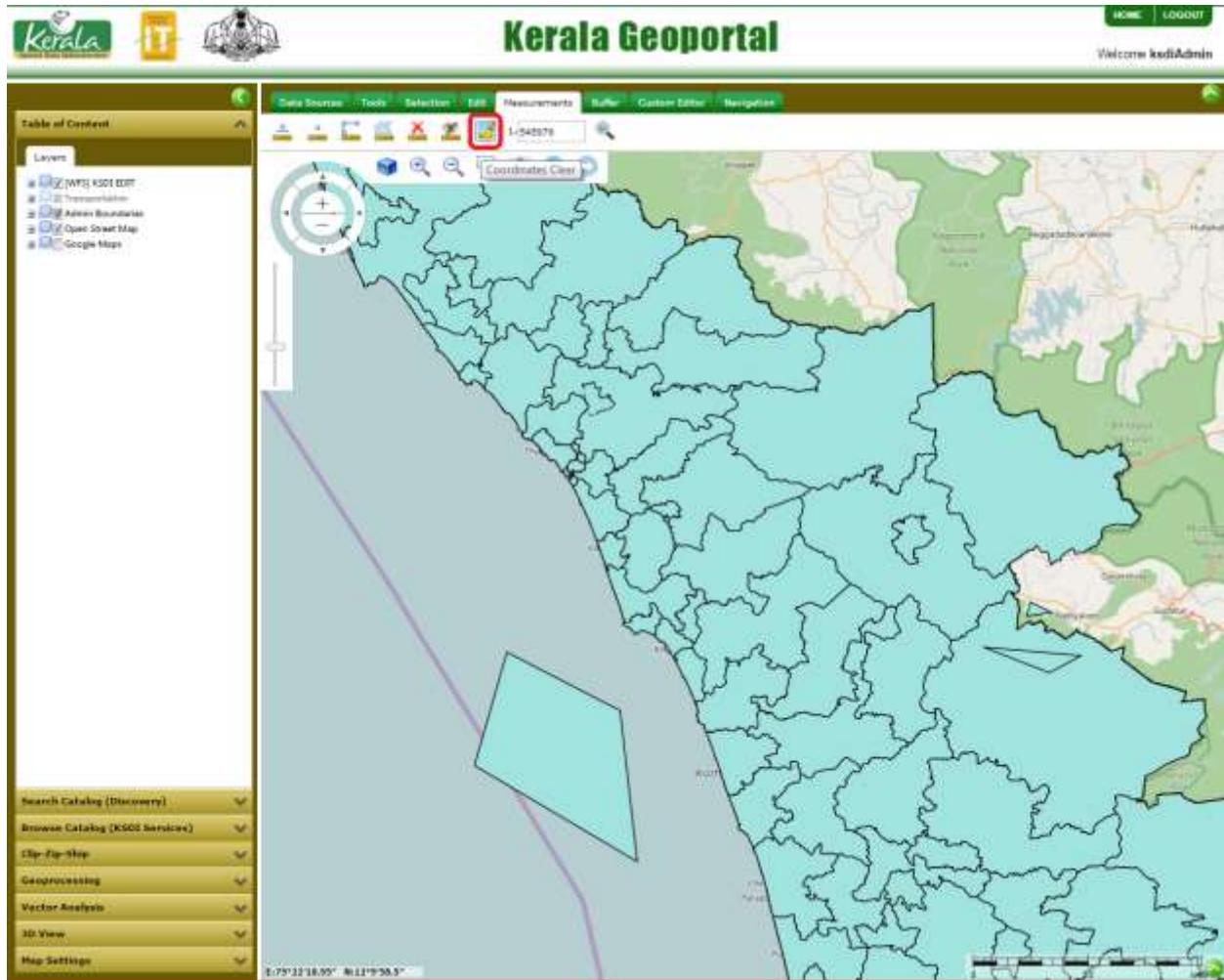


Figure 107: Coordinates Clear

1. Please follow the path Map Viewer→Measurements→Coordinates Clear, please click on the seventh option, on clicking, it clears all the coordinates and the data associated to it as shown in the above **Figure 107**

5.14. Buffer Tools

A buffer in GIS is a zone around a map feature measured in units of distance. A buffer is an area defined by the bounding region determined by a set of points at a specified maximum distance from all nodes along segments of an object.

5.14.1. Buffer Point

It helps the user to draw a buffer point and can select the units such as Feet, Meter, Kilometer, and Miles.

The following **Figure 108** illustrates the first option of 'Buffer Tool'.

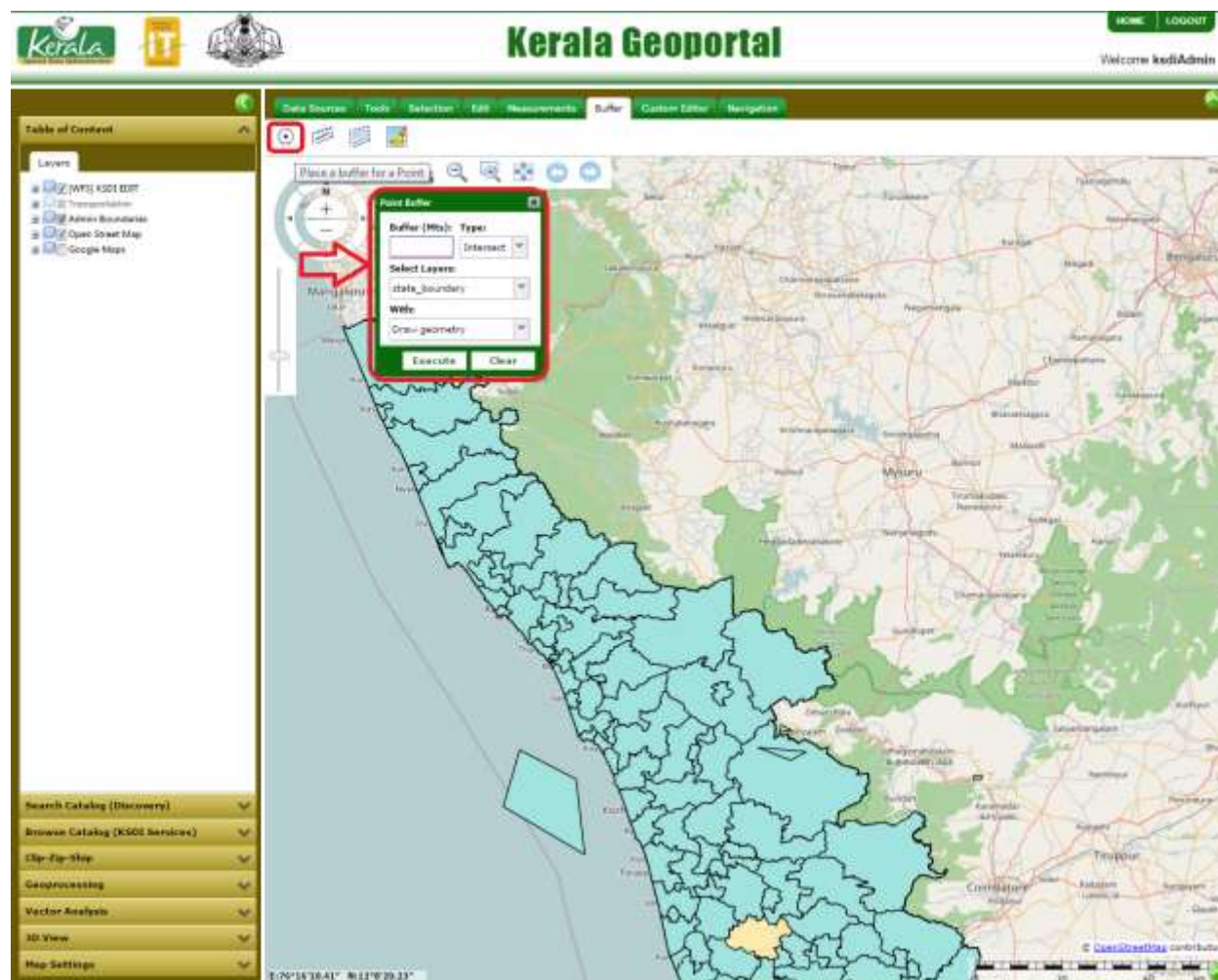


Figure 108: Buffer Tools (Buffer Point)

1. Please follow the path Map Viewer→Buffer Tools→Buffer Point, please click on the first option, on clicking, a pop-window is displayed, where the user need to select an option from the drop-down box as shown in the above screen
2. After selecting an option, and key in the details for e.g. '1000', now click on the 'Execute', button as shown in the **Figure 109**

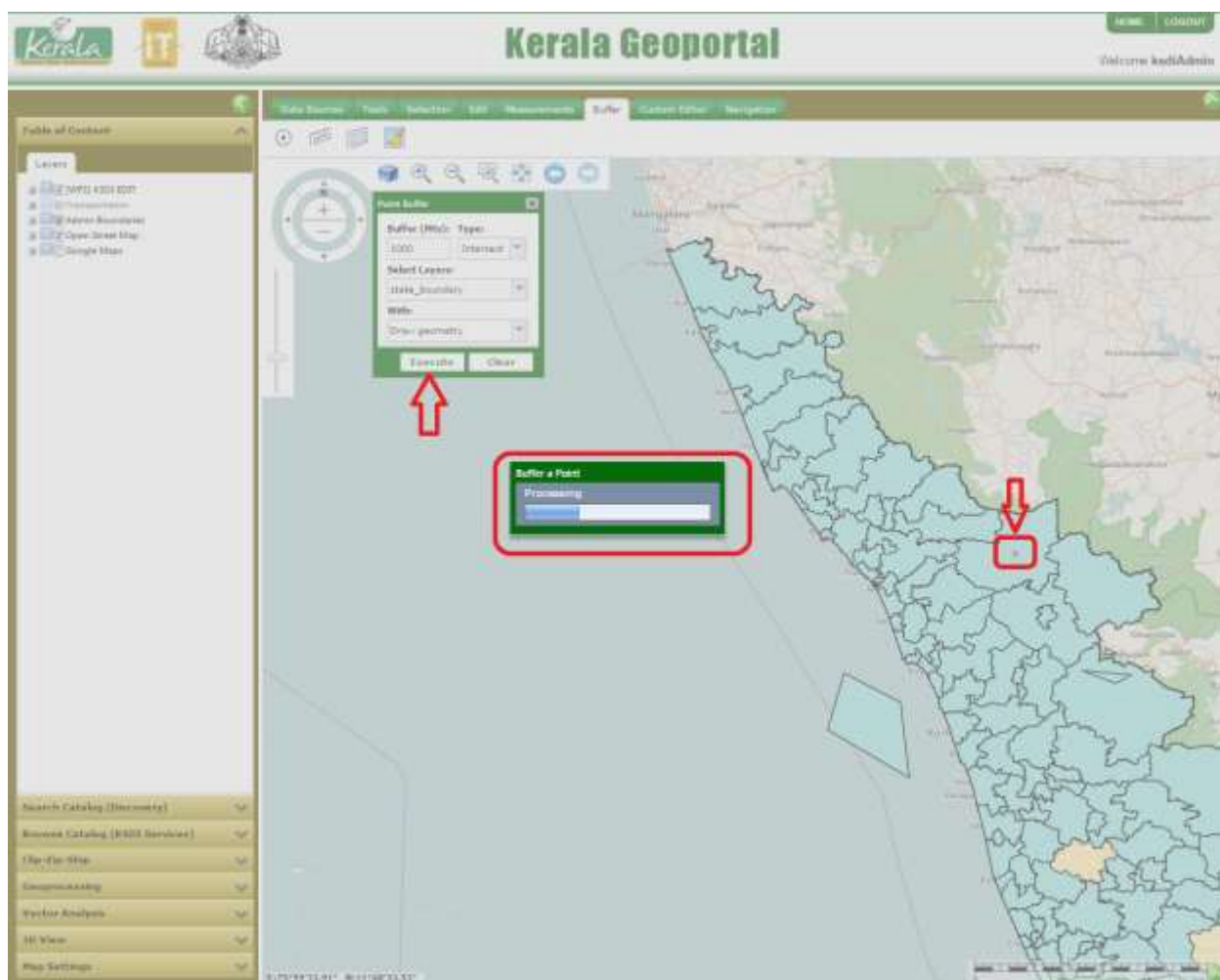


Figure 109: Buffer Point Selection Page

3. Now, draw a point/select an area on the map to draw the buffer point as shown in the **Figure 109**
4. After drawing/selecting an area a pop-window is displayed showing the Result of the Buffer Point, where the user can select different type of results and download the respective result in '.rar' file as shown in the **Figure 110**

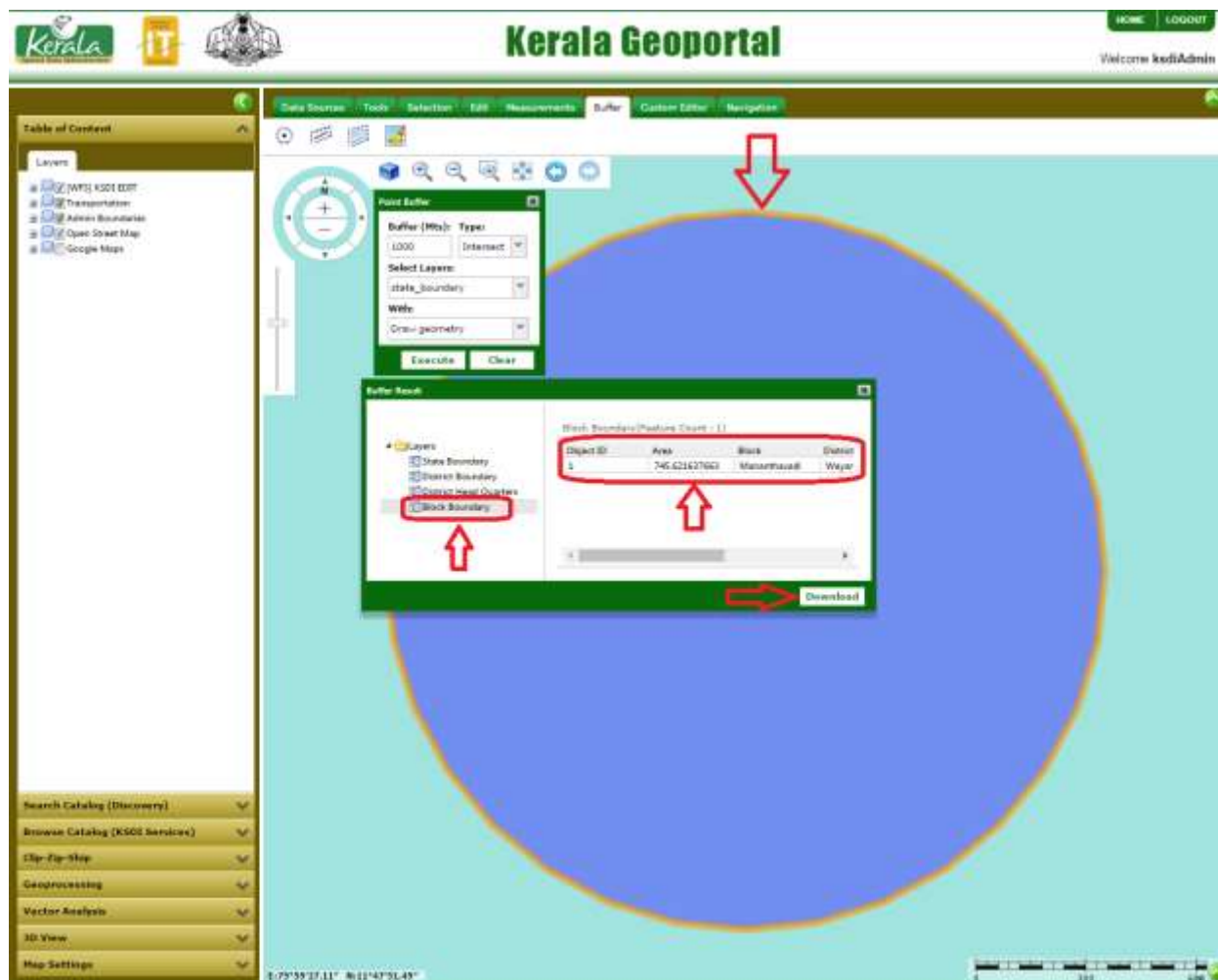


Figure 110: Buffer Point Result Page

5.14.2. Buffer Polyline

1. Please follow the path Map Viewer→Buffer Tools→Place a Buffer for Polyline, please click on the second option, on clicking, a pop-window is displayed, where the user need to select an option from the drop-down box as shown in the below **Figure 111**
2. After selecting an option, and key in the details for e.g. '1000', now click on the 'Draw', button as shown in the **Figure 112**
3. Now, draw a point/select an area on the map to draw the buffer polyline as shown in the **Figure 112**
4. After drawing/selecting an area a pop-window is displayed showing the Result of the Buffer Polyline, where the user can select different type of results and download the respective result in '.rar' file as shown in the **Figure 113**

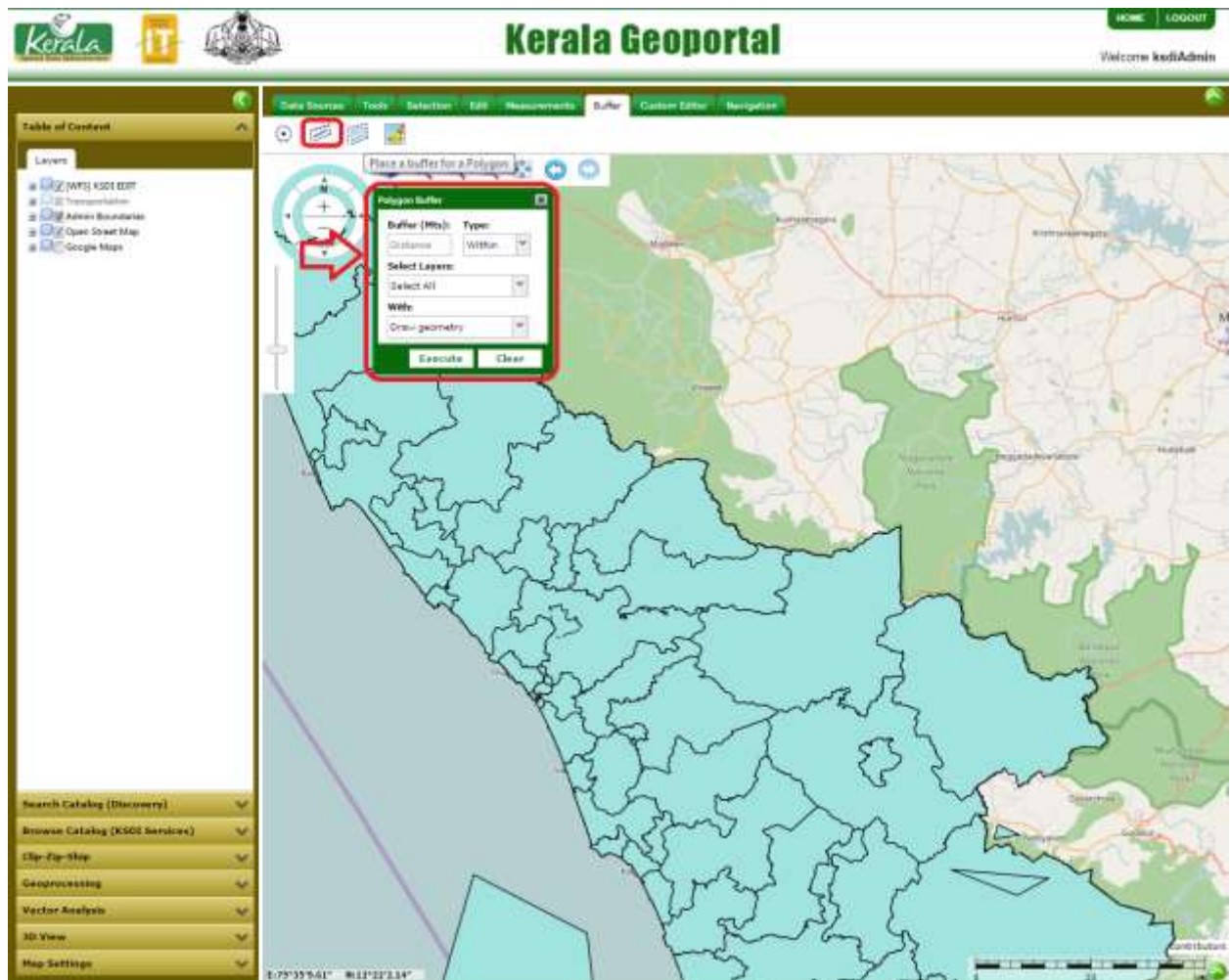


Figure 111: Buffer Tools (Buffer Polyline)

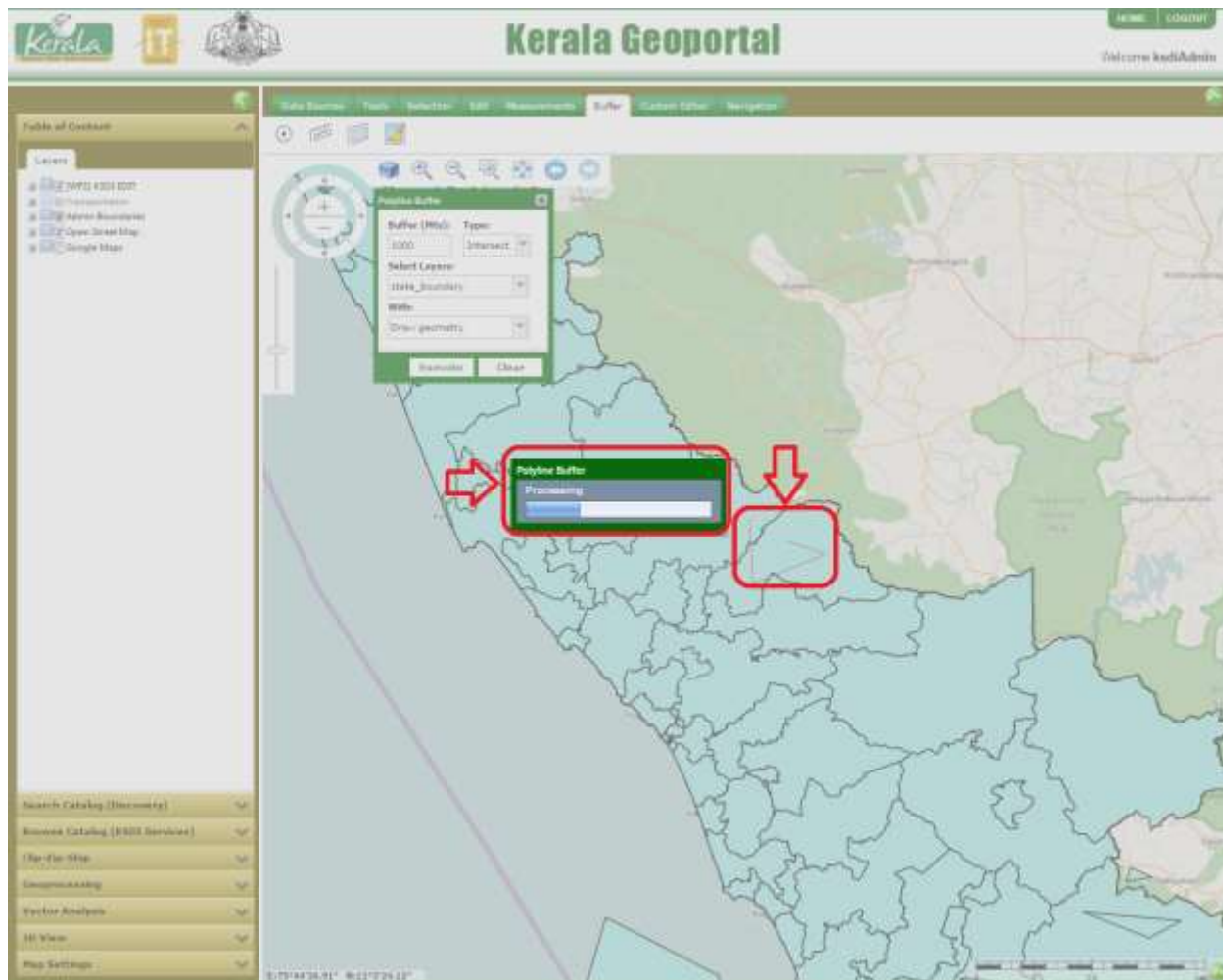


Figure 112: Buffer Polyline Selection Page

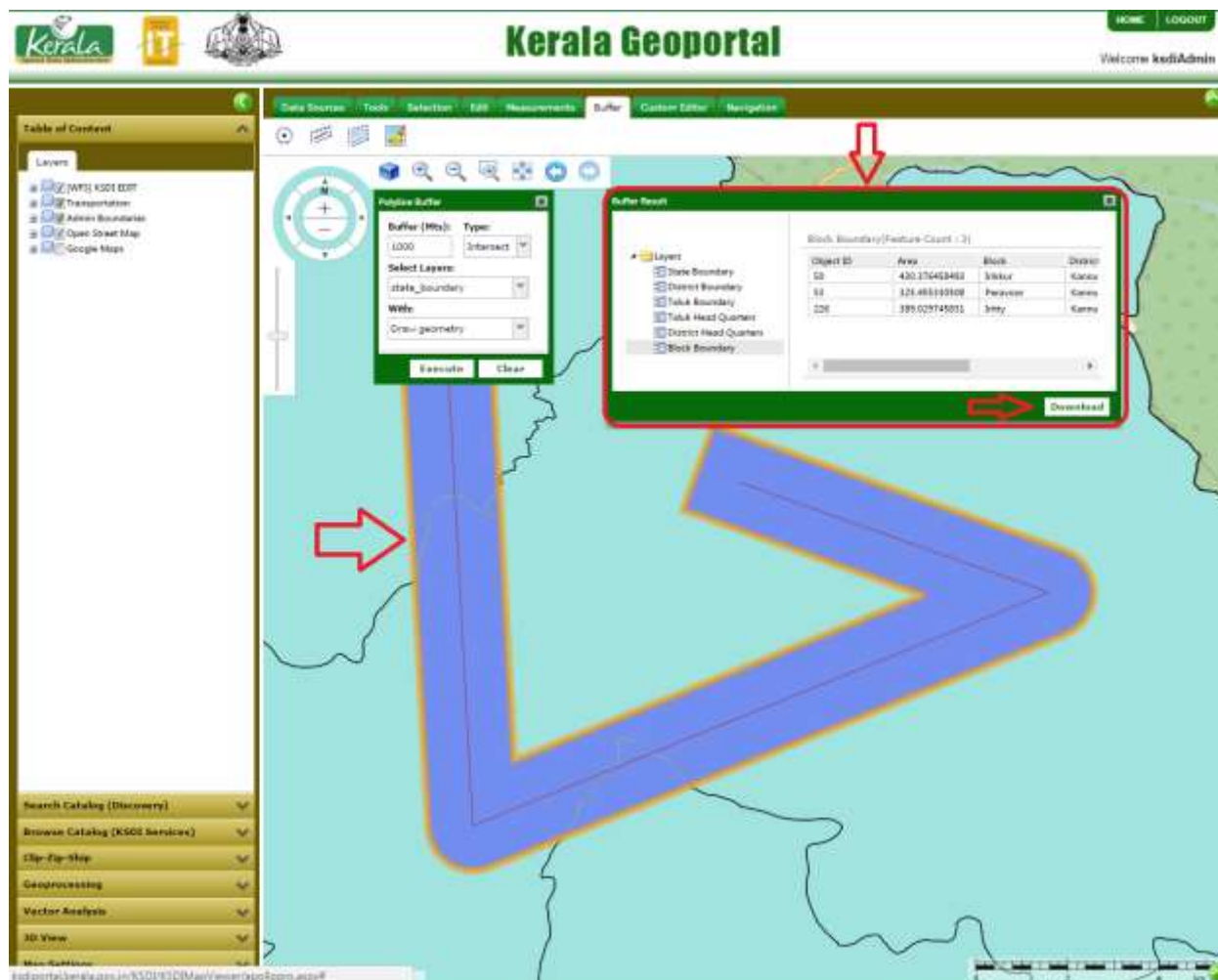


Figure 113: Buffer Polyline Result Page

5.14.3. Buffer Polygon

1. Please follow the path Map Viewer→Buffer Tools, please click on the third option, on clicking, a pop-window is displayed, where the user need to select an option from the drop-down box as shown in the below **Figure 114**
2. After selecting an option, and key in the details for e.g. '1000', now click on the 'Draw', button as shown in the **Figure 115**
3. Now, draw a point/select an area on the map to draw the buffer polygon as shown in the **Figure 115**
4. After drawing/selecting an area a pop-window is displayed showing the Result of the Buffer Polygon, where the user can select different type of results and download the respective result in '.rar' file as shown in the **Figure 116**

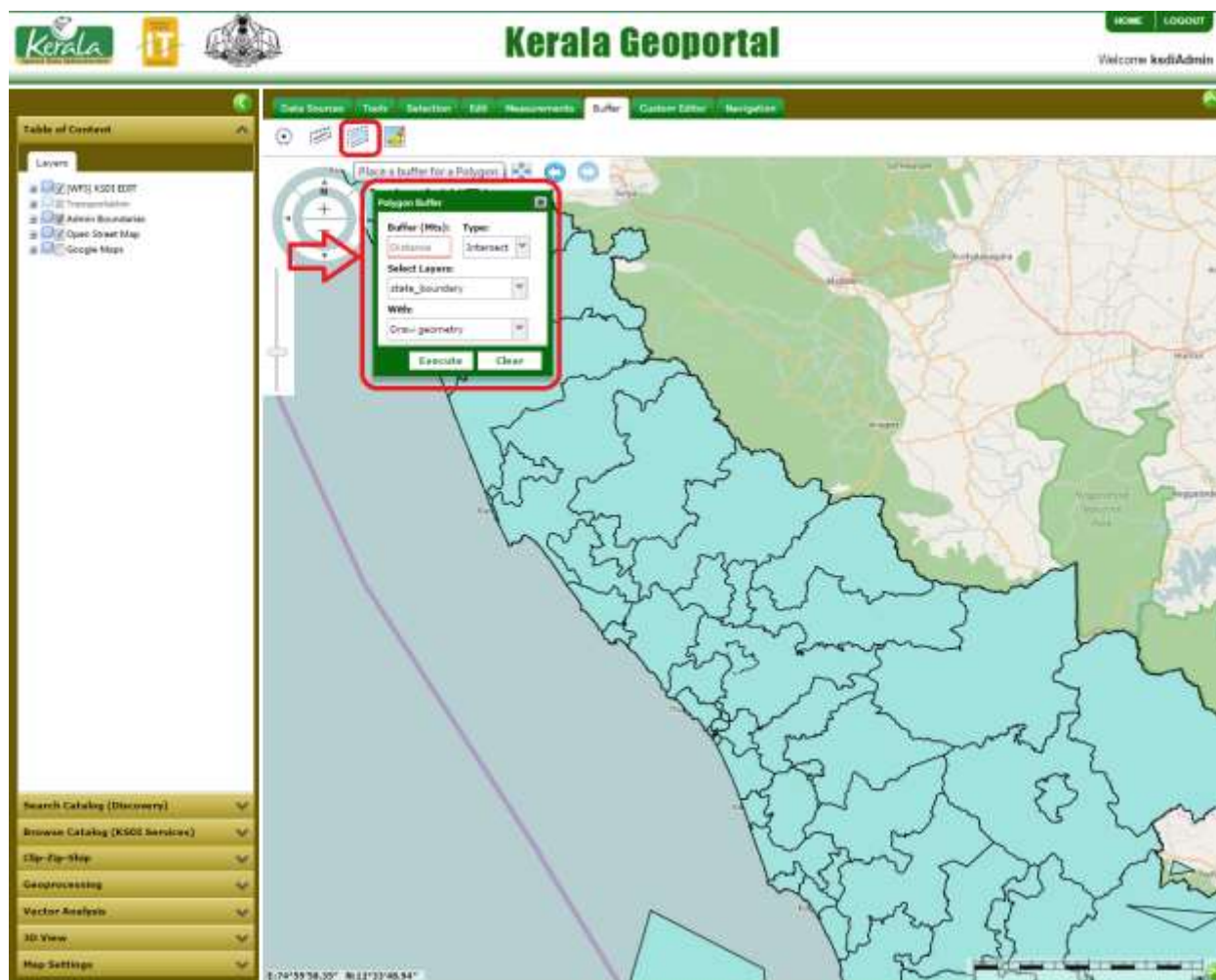


Figure 114: Buffer Tools (Buffer Polygon)

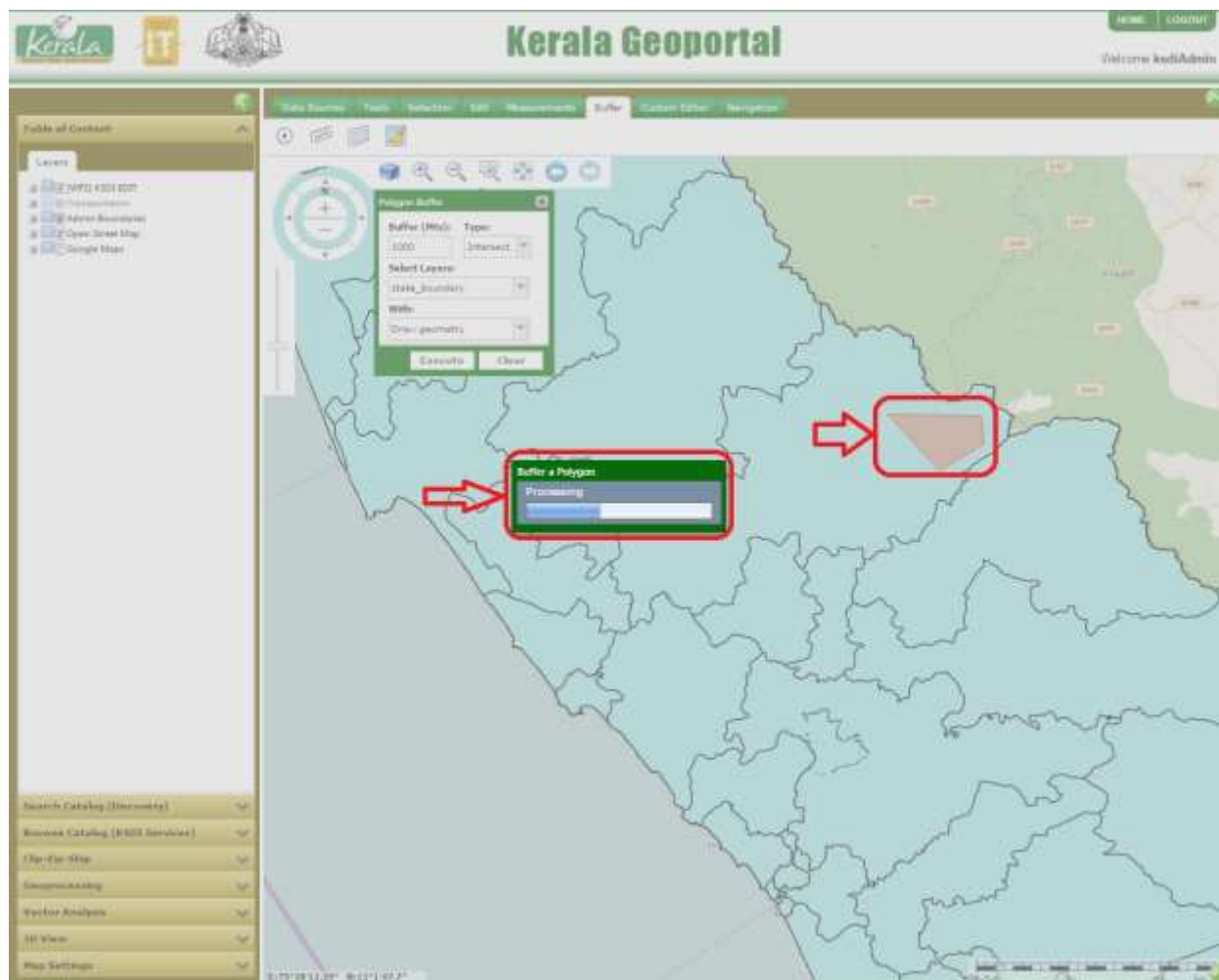


Figure 115: Buffer Polygon Selection Page

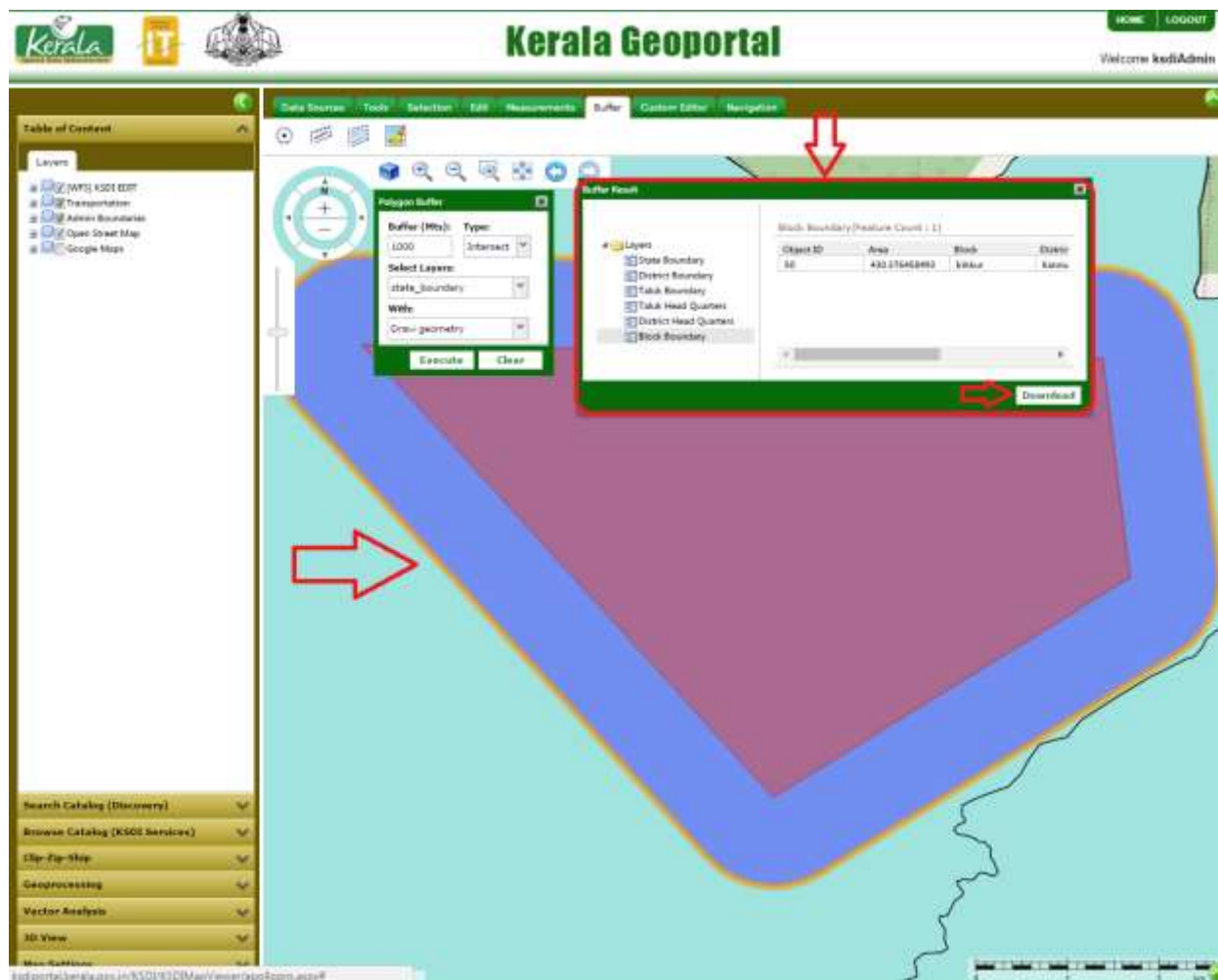


Figure 116: Buffer Polygon Result Page

5.14.4. Clear Graphics

The following **Figure 117** illustrates the fourth option of Buffer Tools, 'Clear Graphics', and enables the user to clear all the graphics which were drawn earlier and displays a clean map.

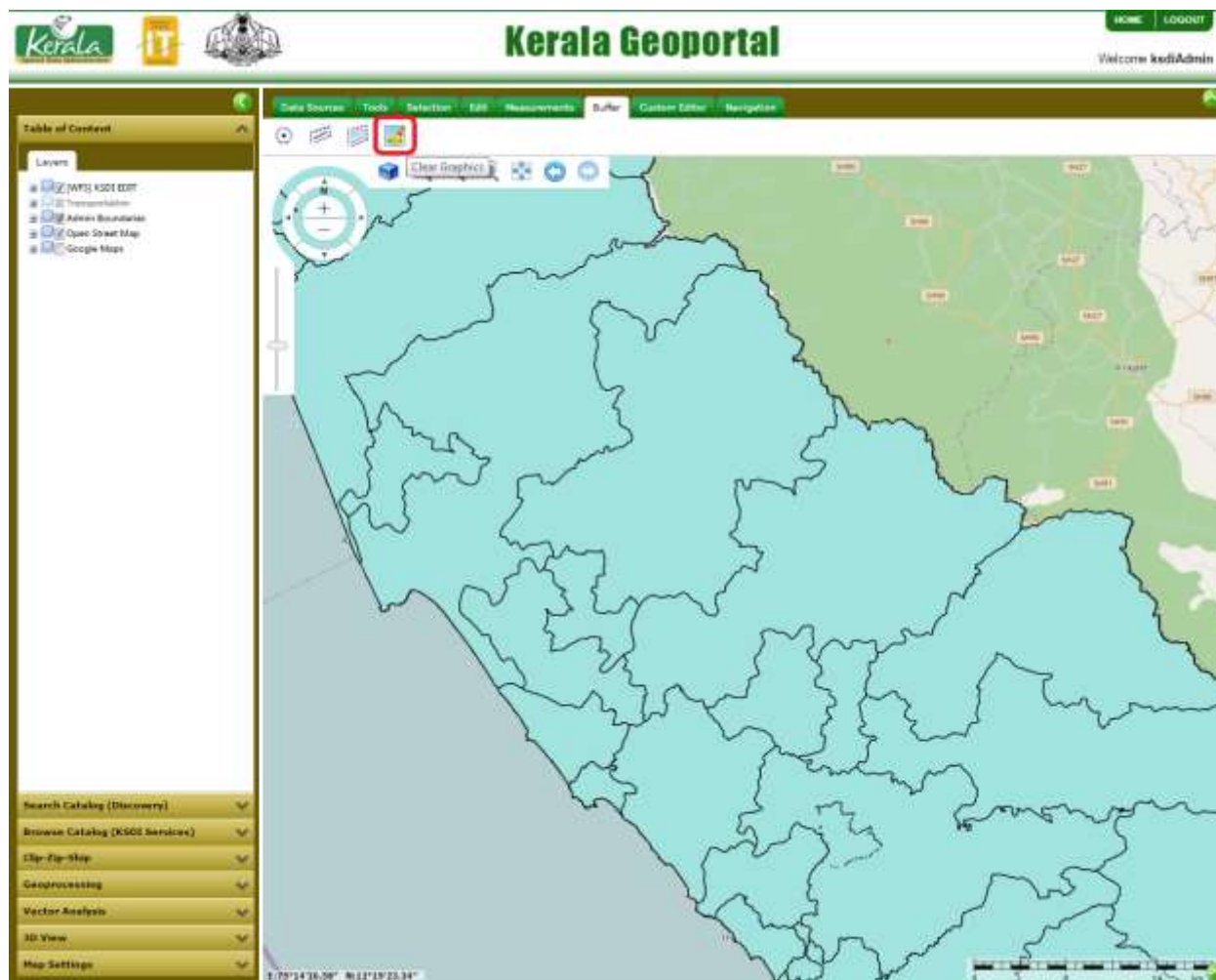


Figure 117: Buffer Tools (Clear Graphics)

5.15. Navigation Tools

This feature helps the user to navigate to desired navigation points and here, we have different navigation options.

The following **Figure 118** illustrates the 'Navigation Tools', option of Map Viewer.

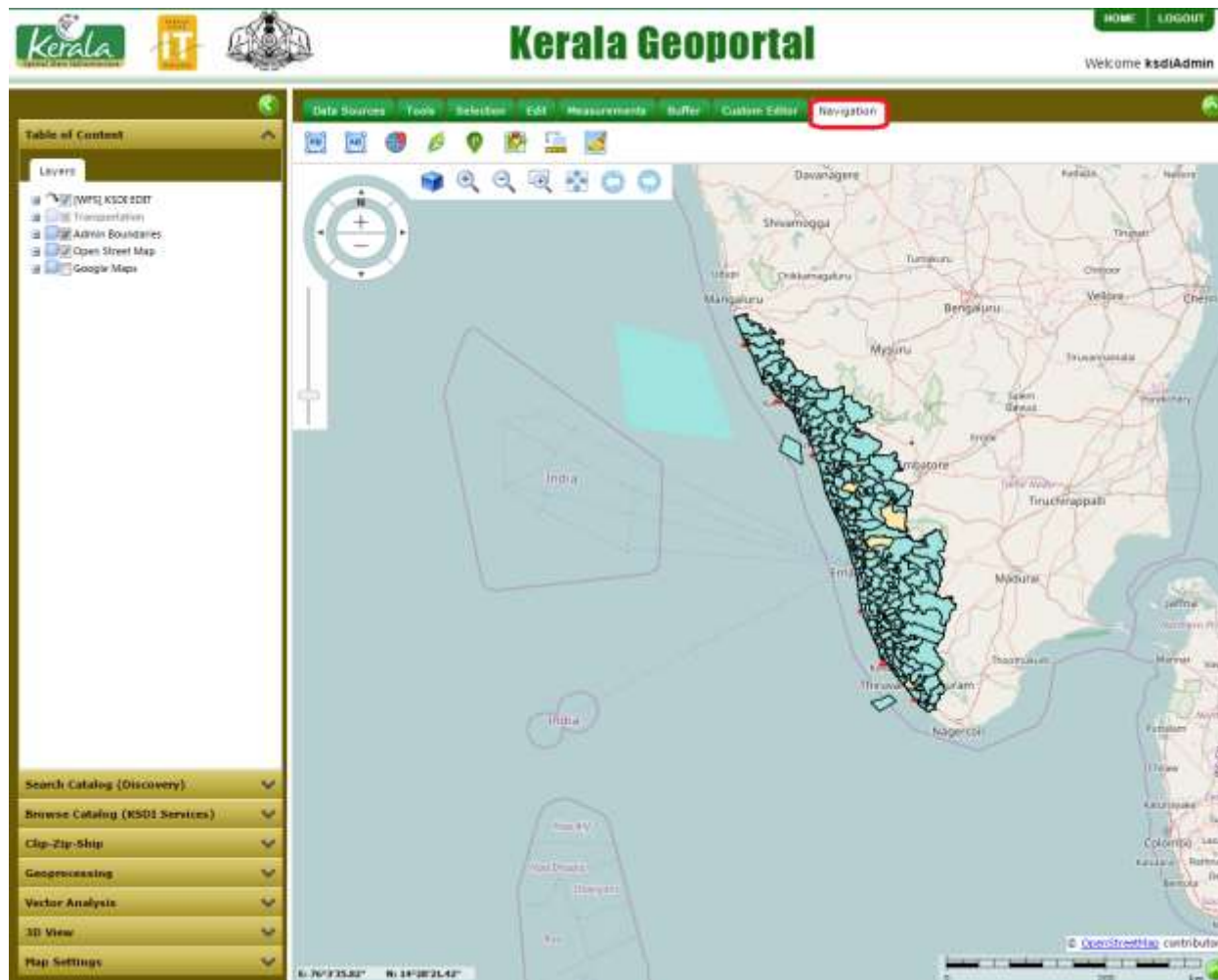


Figure 118: Navigation Tool Main Page

1. Please follow the path Map Viewer→Navigation Tools

5.15.1. Revenue Boundary (RB)

This feature helps the user to navigate to the desired location by selecting the District Name, Taluk Name and Village Name.

The following **Figure 119** illustrates the first option of 'Navigation Tool', 'Revenue Boundary'.

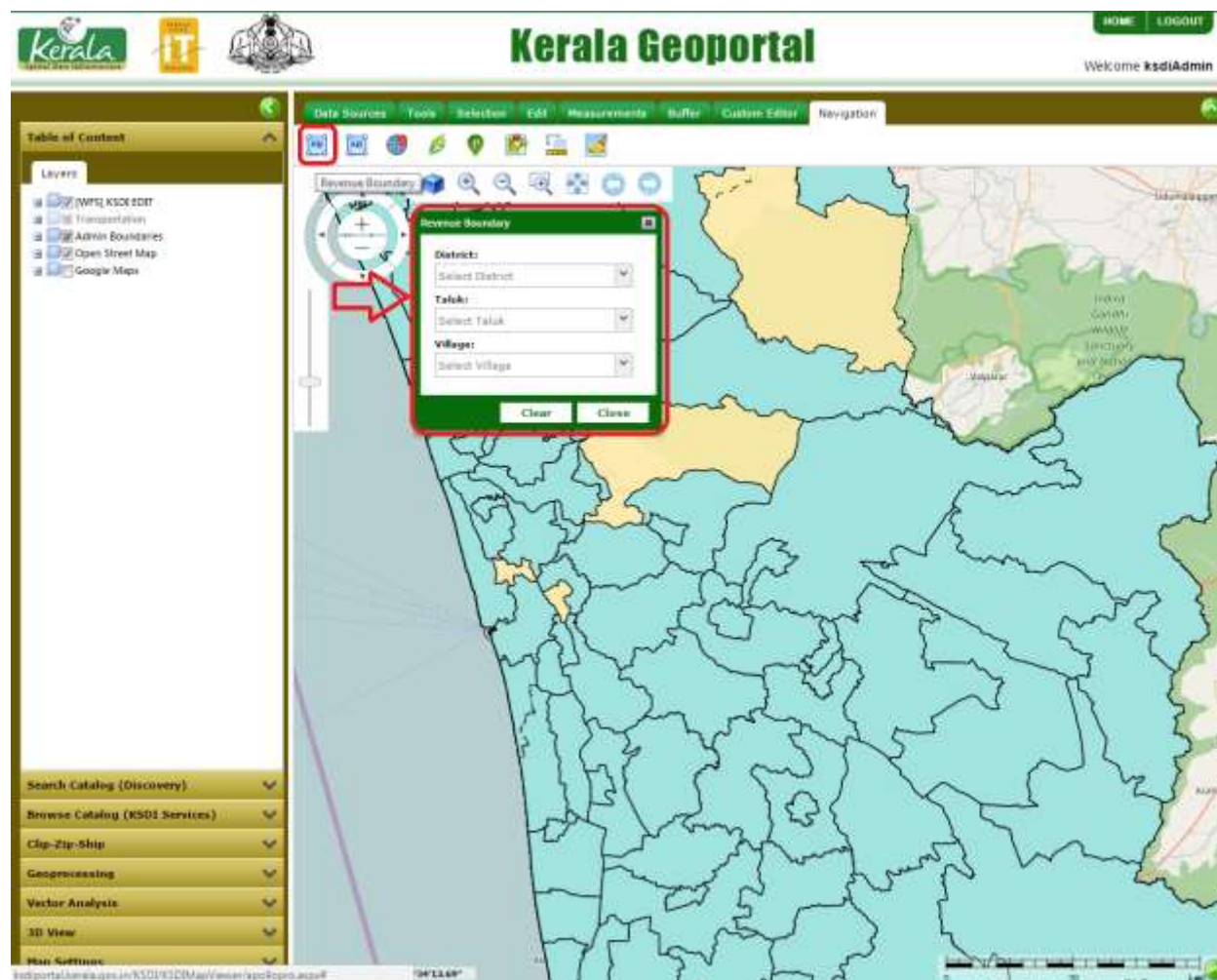


Figure 119: Navigation Tools (Revenue Boundary Main Page)

1. Please follow the path Map Viewer→Navigation Tools→Revenue Boundary, please click on the third option, on clicking, it displays a pop-up window, where the user must select district name, taluk name and village name as shown in the **Figure 120**
2. After entering the required details as shown in **Figure 120**, it displays the selected area on the map which is in Green border as shown in the **Figure 120**

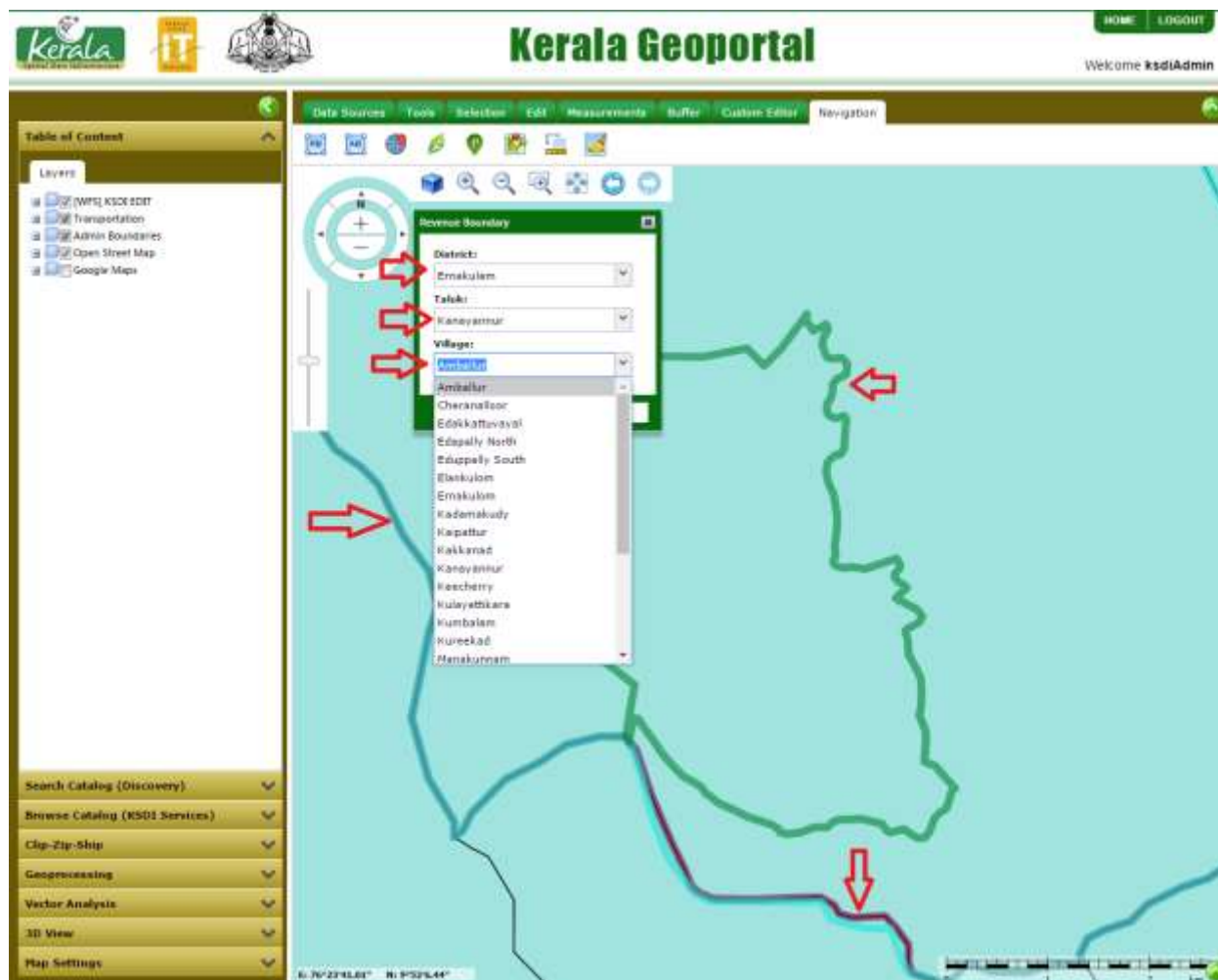


Figure 120: Revenue Boundary Result Page

5.15.2. Admin Boundary (AB)

This feature helps the user to navigate to the desired location by selecting the District Name, Block Name and LSGB Name.

The following **Figure 121** *Error! Reference source not found.* Figure 123 illustrates the second option of 'Navigation Tool', 'Admin Boundary'.

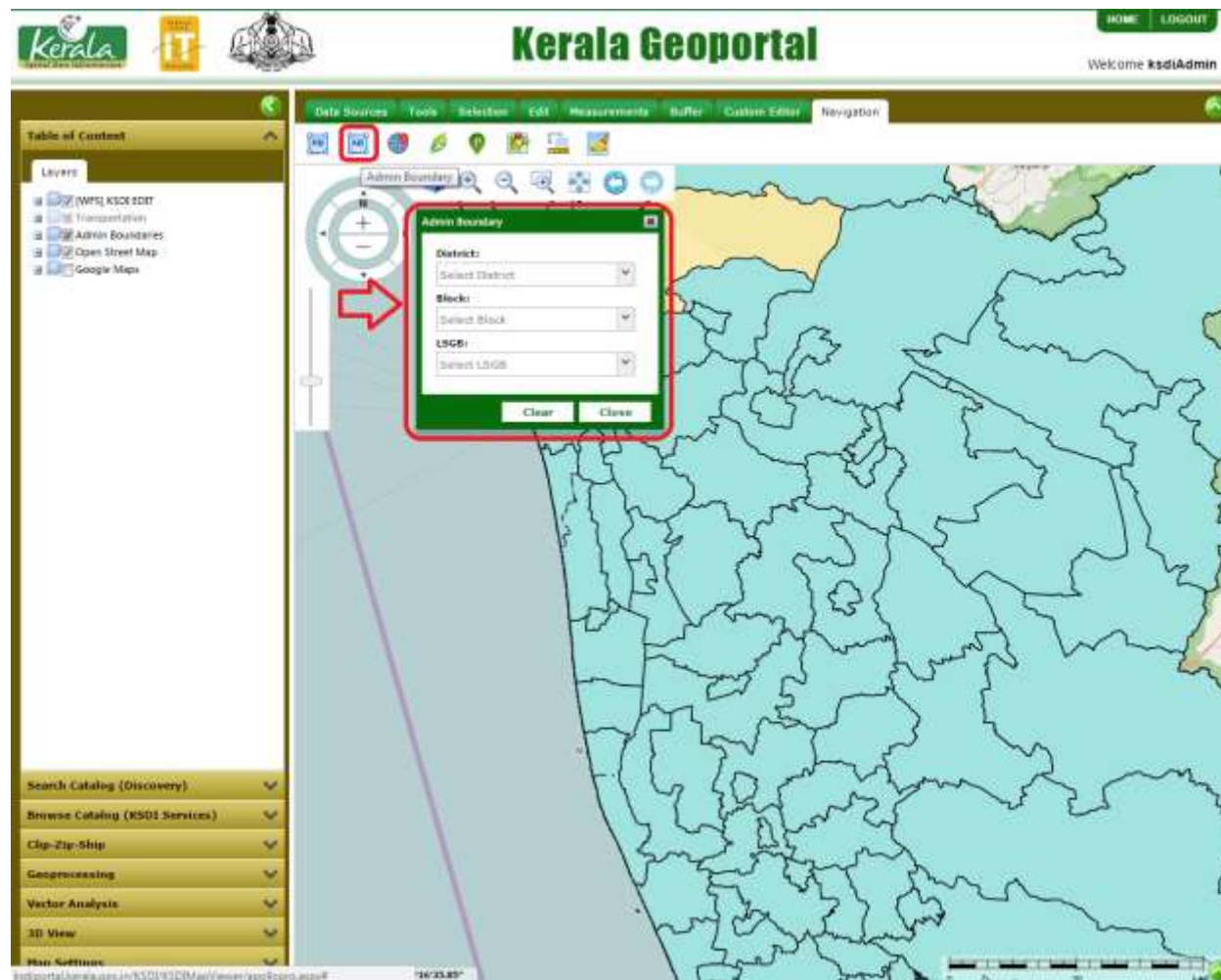


Figure 121: Navigation Tools (Admin Boundary)

1. Please follow the path Map Viewer→Navigation Tools→Admin Boundary, please click on the second option, on clicking, it displays a pop-up window, where the user must select district name, block name and LSGB name
2. After entering the required details as shown in **Figure 122**, it displays the selected area on the map based on the as shown in the **Figure 122**

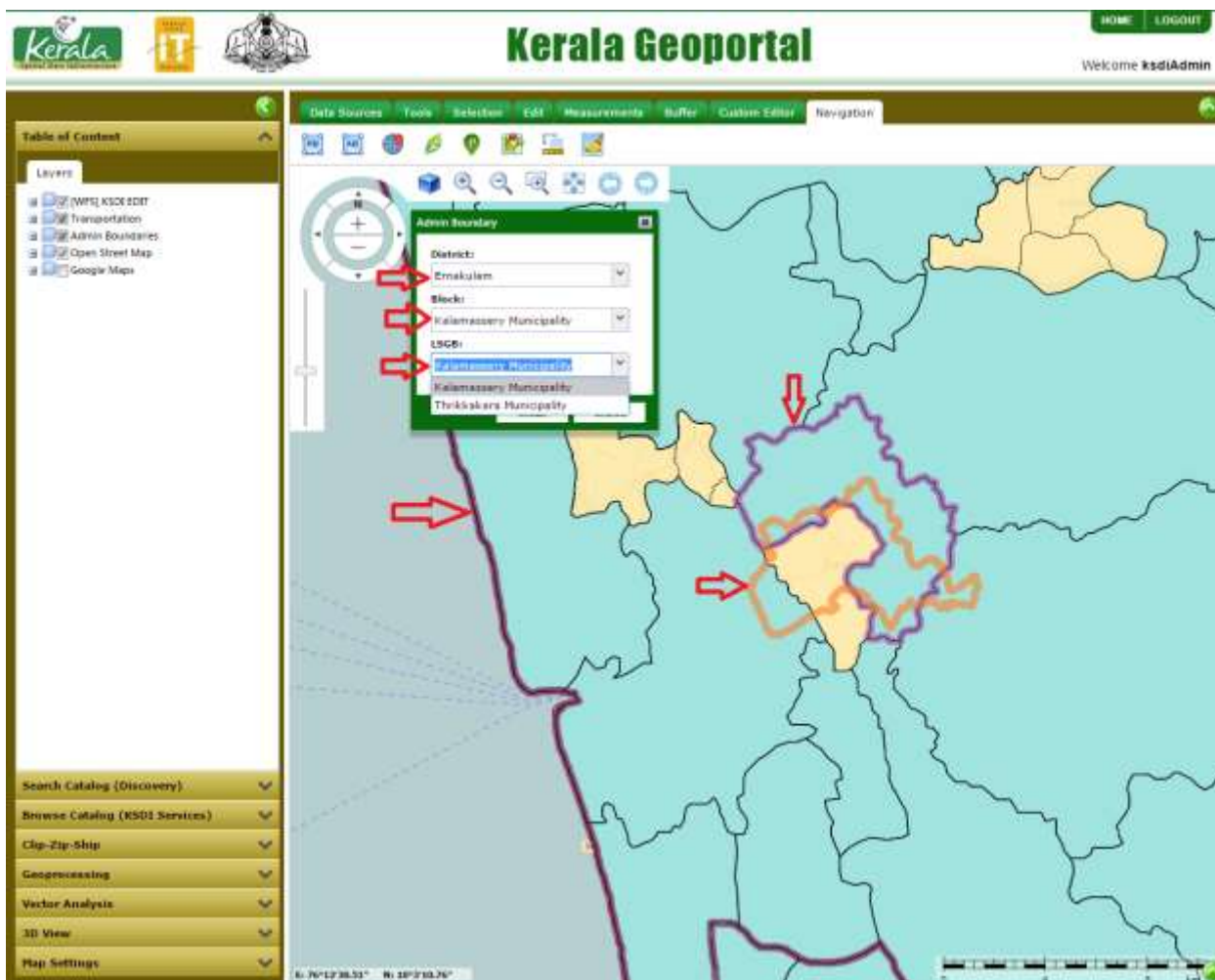


Figure 122: Admin Boundary Result Page

5.15.3. Goto Latitude/Longitude

This feature helps the user to navigate to the desired location by entering Longitude and Latitude coordinates.

The following **Figure 123** illustrates the third option of 'Navigation Tool', 'Goto Latitude/Longitude'.

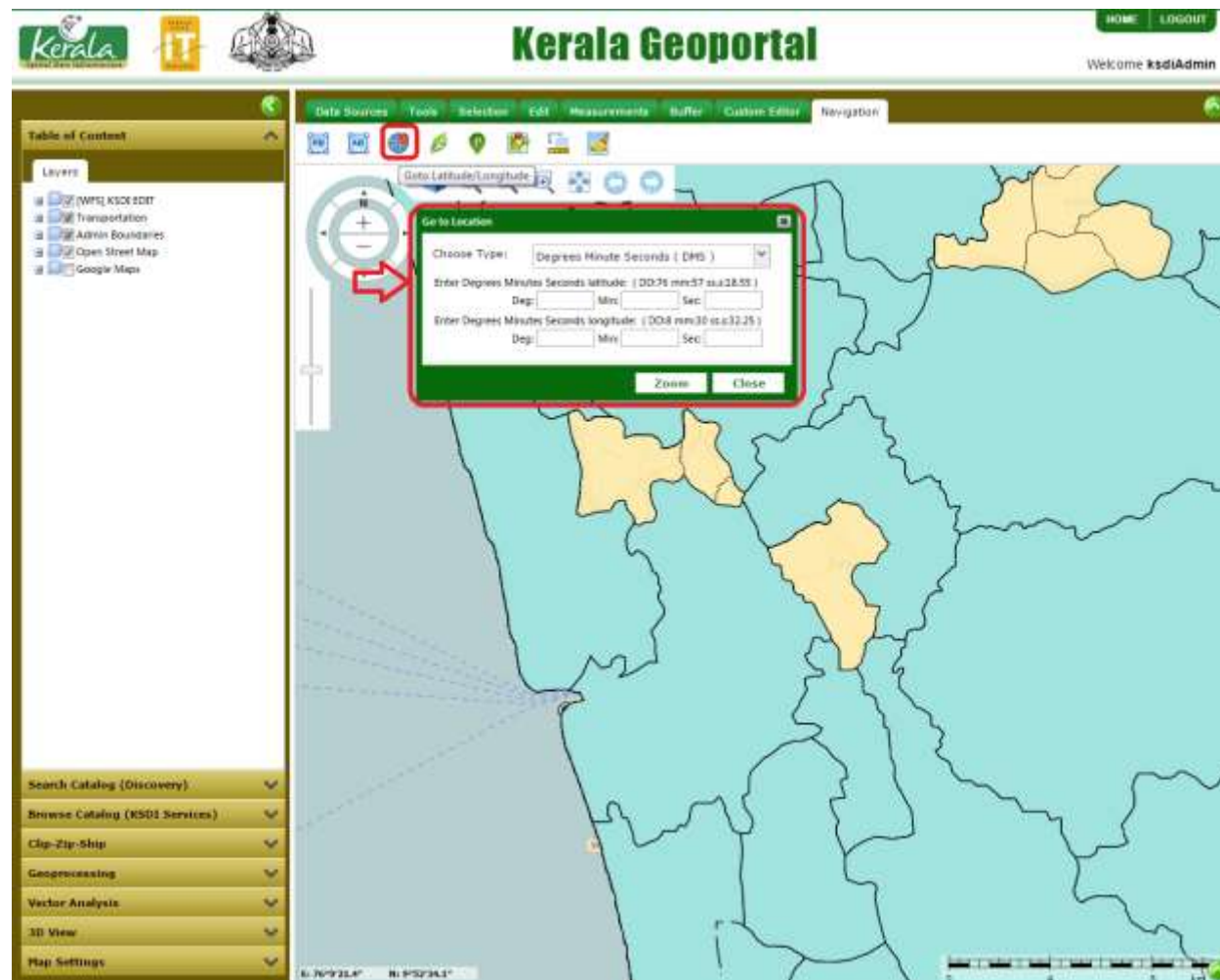


Figure 123: Navigation Tools (Go to Latitude/Longitude Main Page)

1. Please follow the path Map Viewer→Navigation Tools→Goto Latitude/Longitude, please click on the third option, on clicking, it displays a pop-up window, where the user should key in the details of Longitude and Latitude as shown above
2. After entering the required details, please click on the 'Zoom', button, it redirects to the desired location as shown in the **Figure 124**

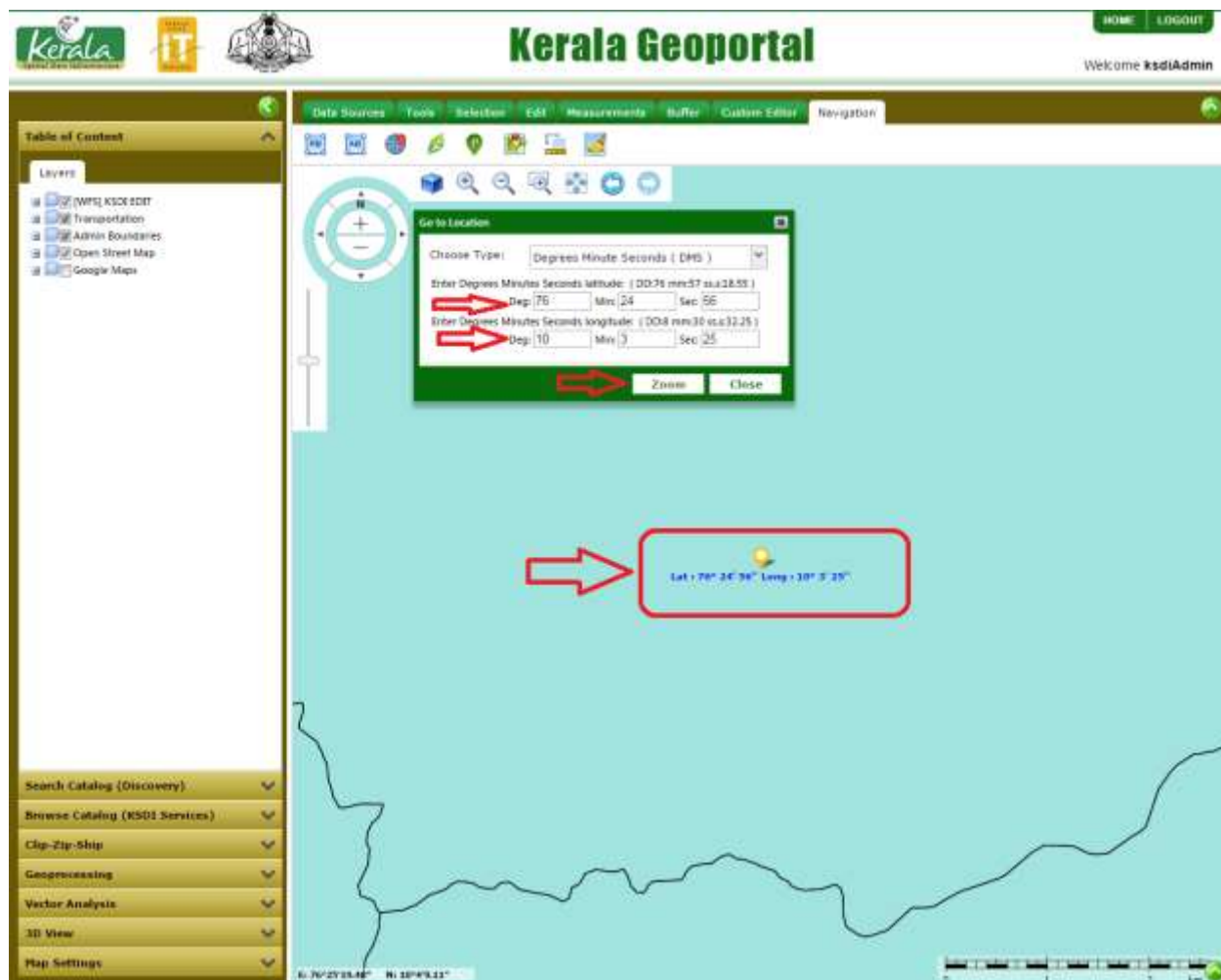


Figure 124: Go to Latitude/Longitude Result Page

5.15.4. LSGB

This feature helps the user to see the data of the watershed features that are covered through the state.

The following **Figure 125** illustrates the fourth option of 'Navigation Tool', 'LSGB'.

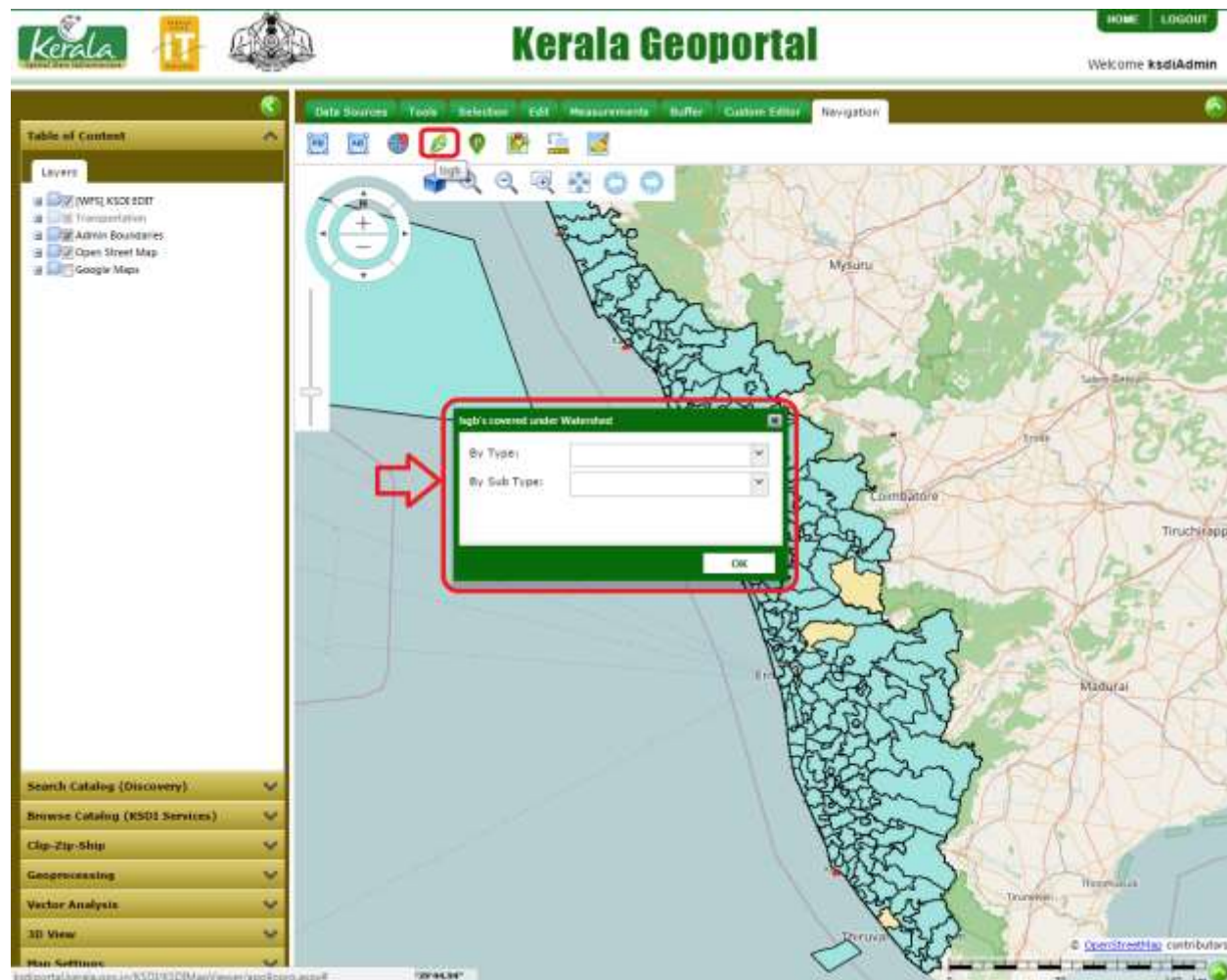


Figure 125: Navigation Tools (LSGB Main Page)

1. Please follow the path Map Viewer→Navigation Tools→LSGB, please click on the fourth option, on clicking, it displays a pop-up window, where the user should key in the details of By Type and By Sub Type
2. After entering the required details, please click on the 'OK', button, it redirects to the desired location as shown in the **Figure 126**

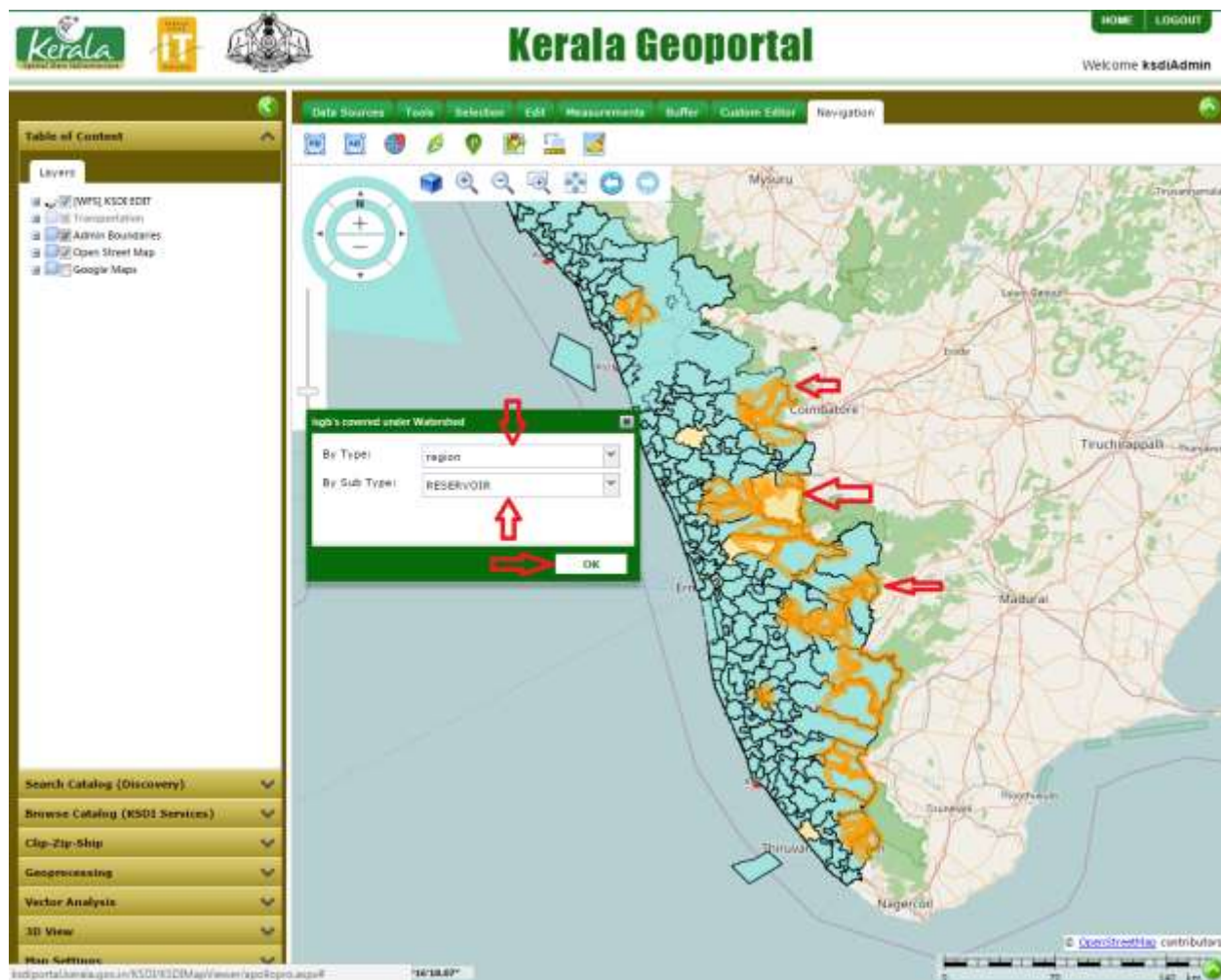


Figure 126: LSGB Result Page

5.15.5. Go to Place Name (P)

This feature helps the user to navigate to the desired location by selecting the Place Name from the drop-down box/type the place to enter the name

The following **Figure 127** illustrates the fifth option of 'Navigation Tool', 'Go to Place Name'.

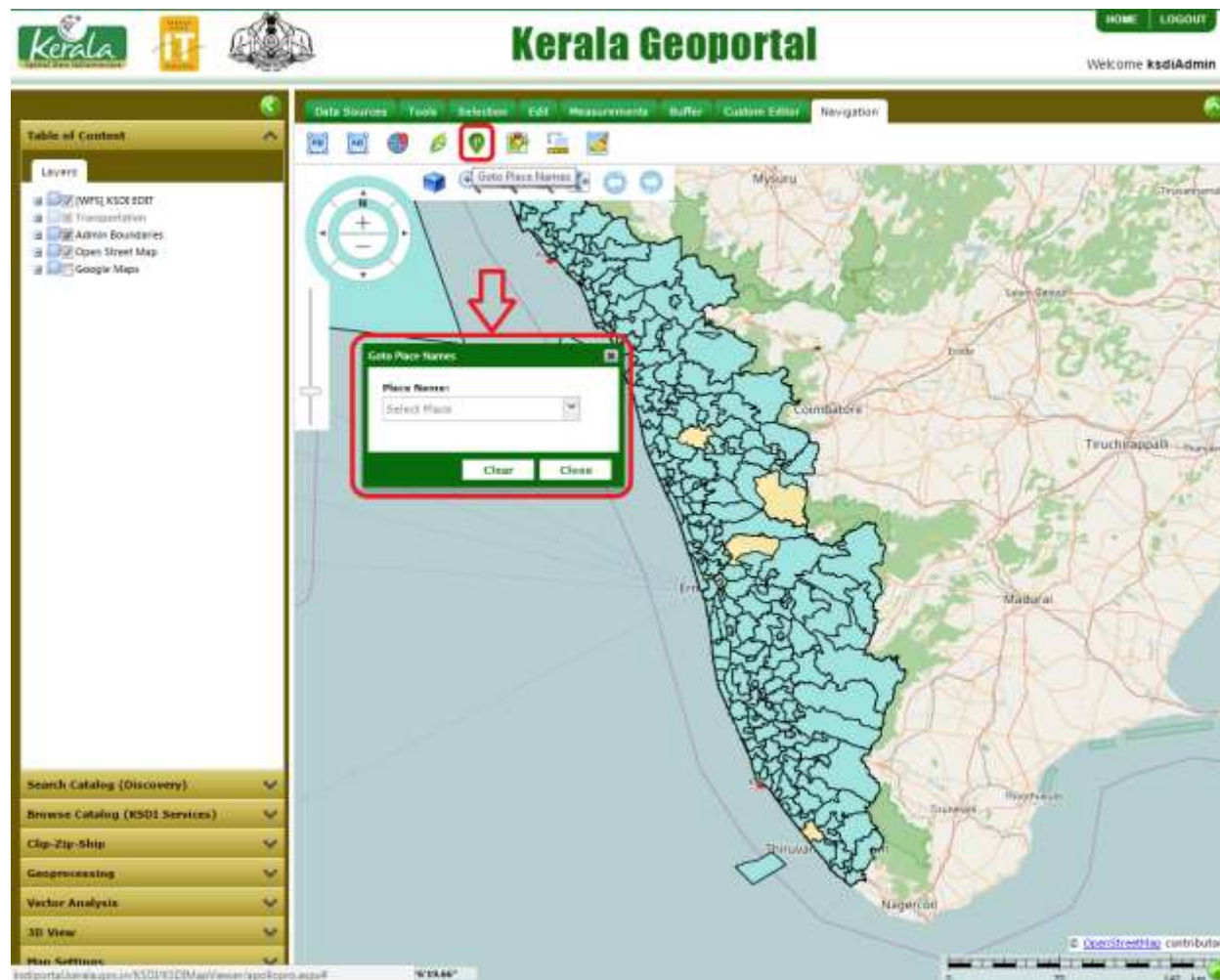


Figure 127: Navigation Tools (Go to Place Name)

1. Please follow the path Map Viewer→Navigation Tools→ Go to Place Names, please click on the fifth option, on clicking, it displays a pop-up window, where the user should select place name, as shown in the **Figure 127**
2. After entering the required details as shown in **Figure 128**, it displays the selected area on the map as shown in the **Figure 128**

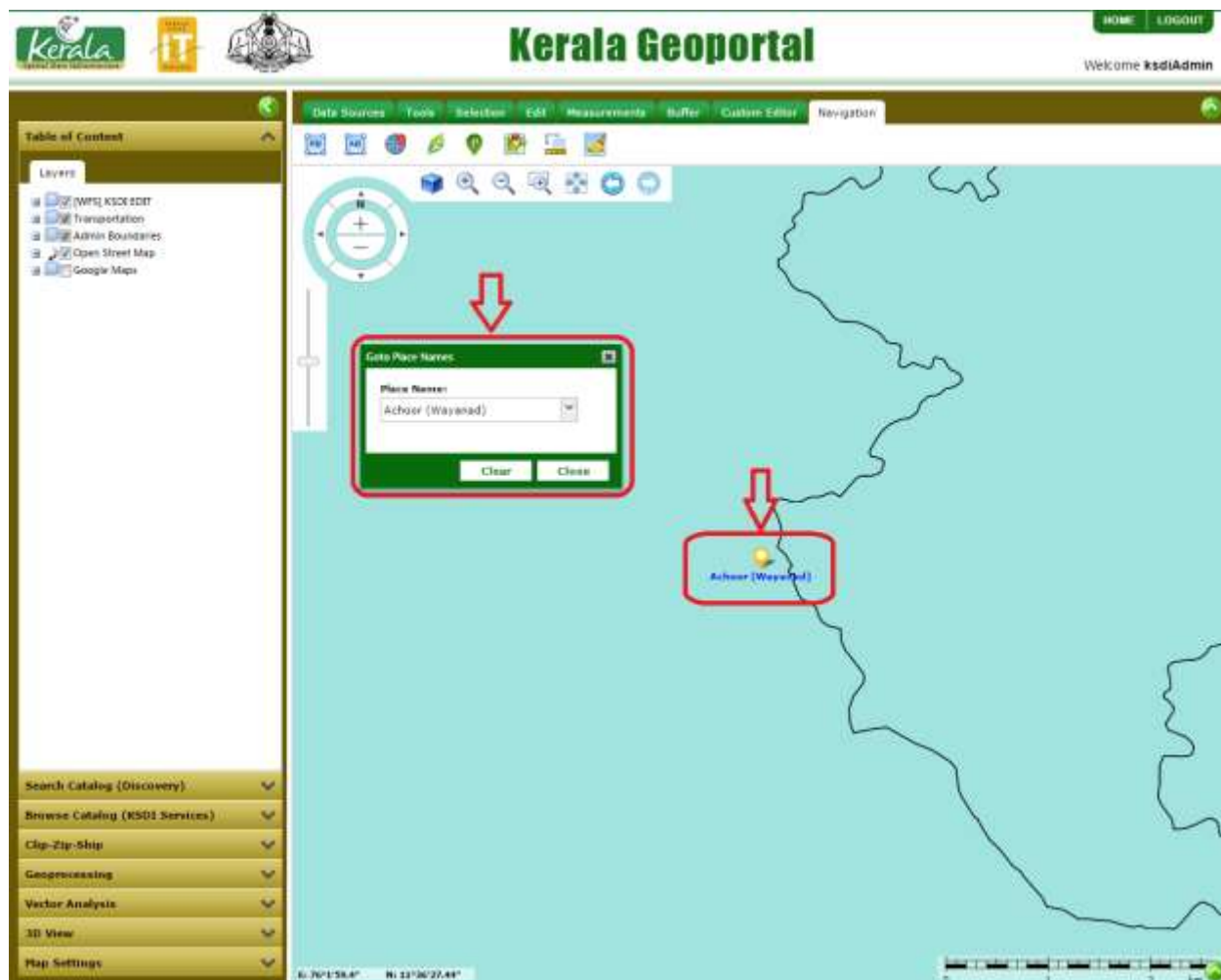


Figure 128: Go to Place Name Result Page

5.15.6. Find Route

This feature helps the user to select the route map from one location to other location.

The following **Figure 129** illustrates 'Navigation Tool', 'Show Route', option.

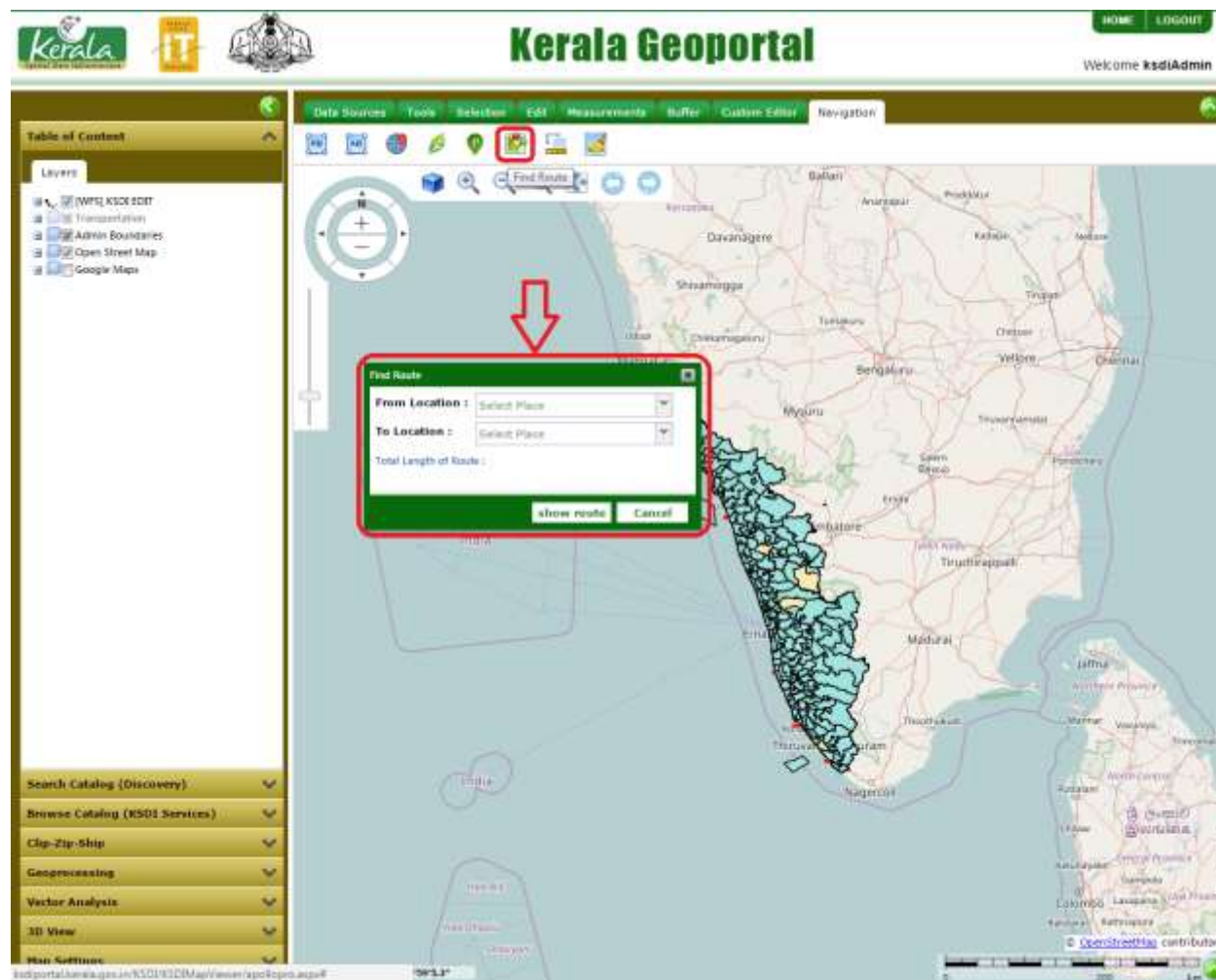


Figure 129: Navigation Tools (Find Route)

1. Please follow the path Map Viewer→Navigation Tools→Find Route, please click on the sixth option, on clicking, it displays a pop-up window, where the user should select the value of from Location and to Location from drop down boxes to fetch the route map
2. After selecting the required details as shown in **Figure 130**, please click on 'Show Route', button it displays the route map as shown in the **Figure 130**

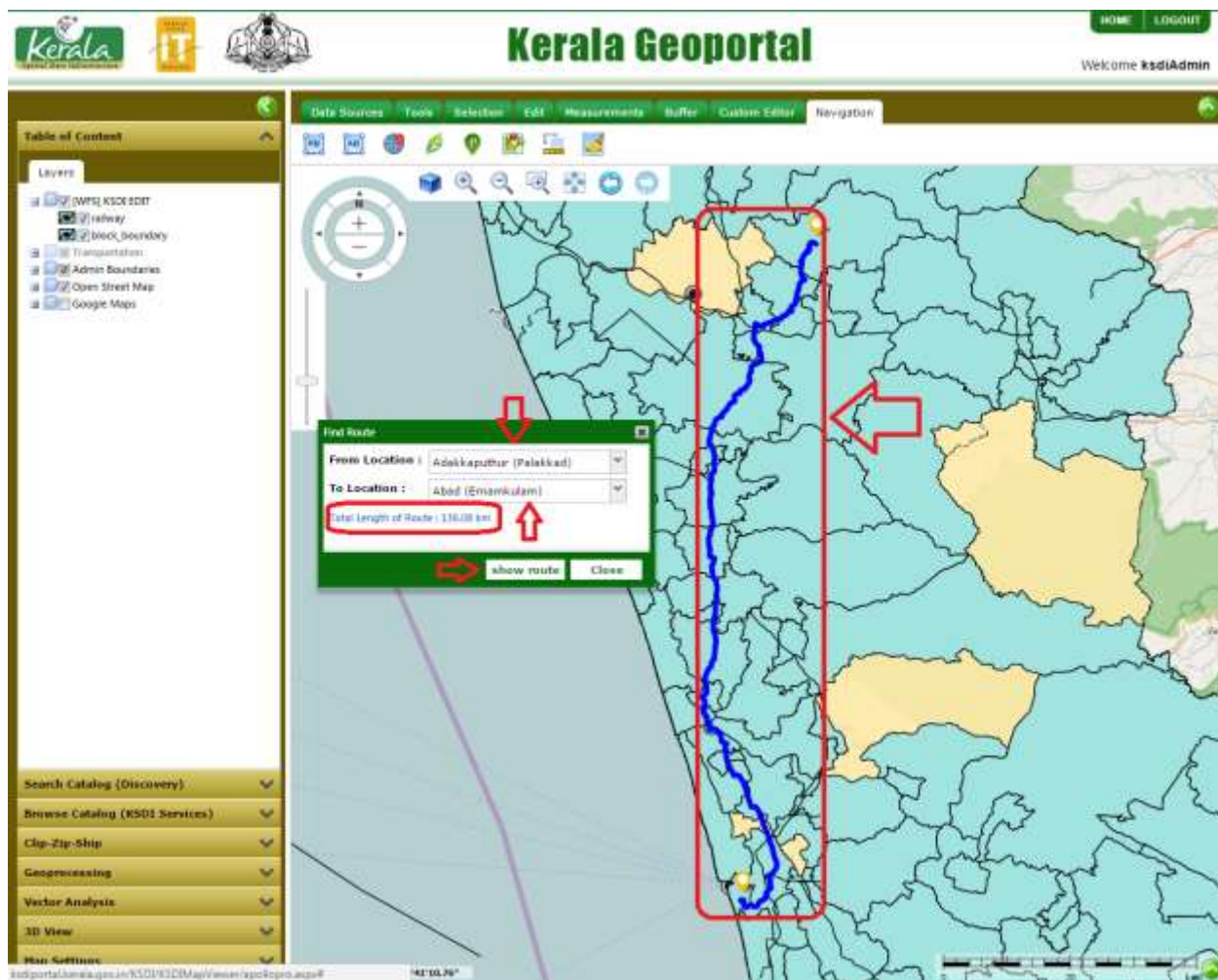


Figure 130: Find Route Result Page

5.15.7. Feature Length/Area

This feature helps the user to display the length of the selected feature.

The following **Figure 131** illustrates 'Navigation Tool', 'Feature Length/Area', option.

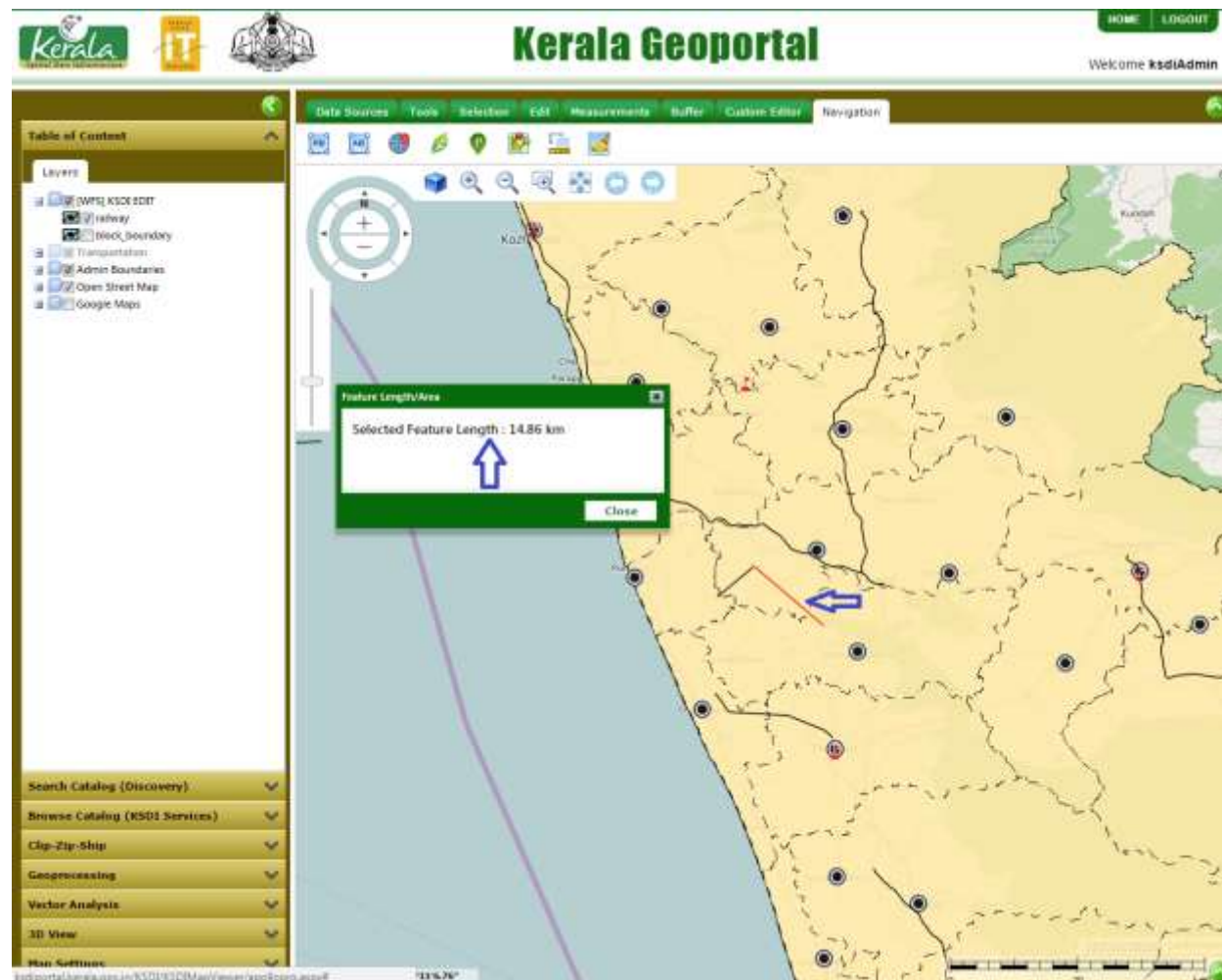


Figure 131: Navigation Tools (Feature Length/Area)

1. Please follow the path Map Viewer→Navigation Tools→Feature Length/Area, please select a feature to measure the length of the selected area as shown in the **Figure 131**

5.16. Search Catalog

This feature helps the user to search the features of Map Catalog with different variables such as District, Block, Tehsil etc.

The following **Figure 132** illustrates Search Catalog feature.

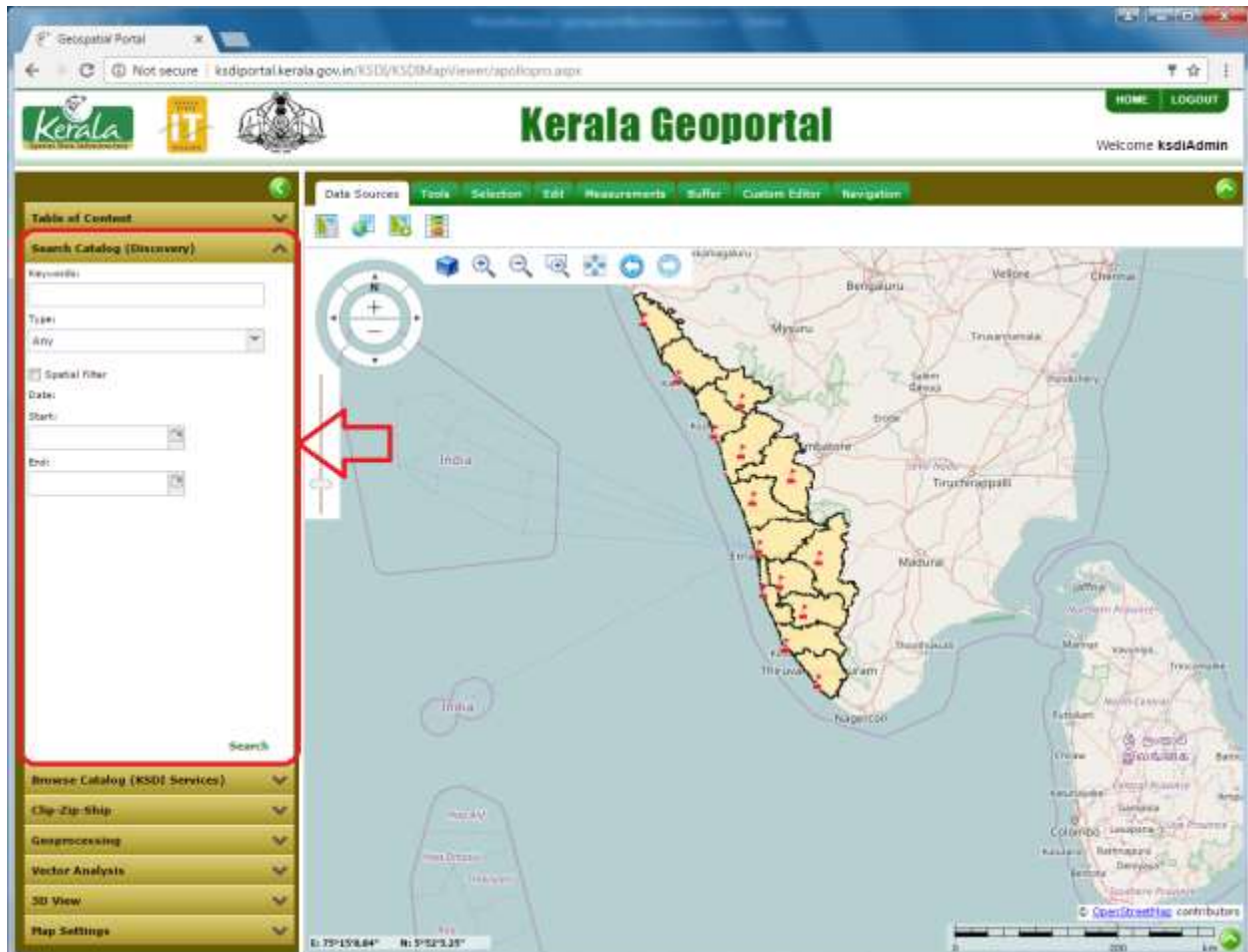


Figure 132: Search Catalog Main Page

1. Please follow the path Map Viewer→Search Catalog, on clicking, it displays a pop-up window, where the user should enter the keyword name and select the Type of the Catalog and click on the 'Search', button
2. After keying the data, in the below window, which is the Result Window, the data is displayed as shown in the **Figure 133**

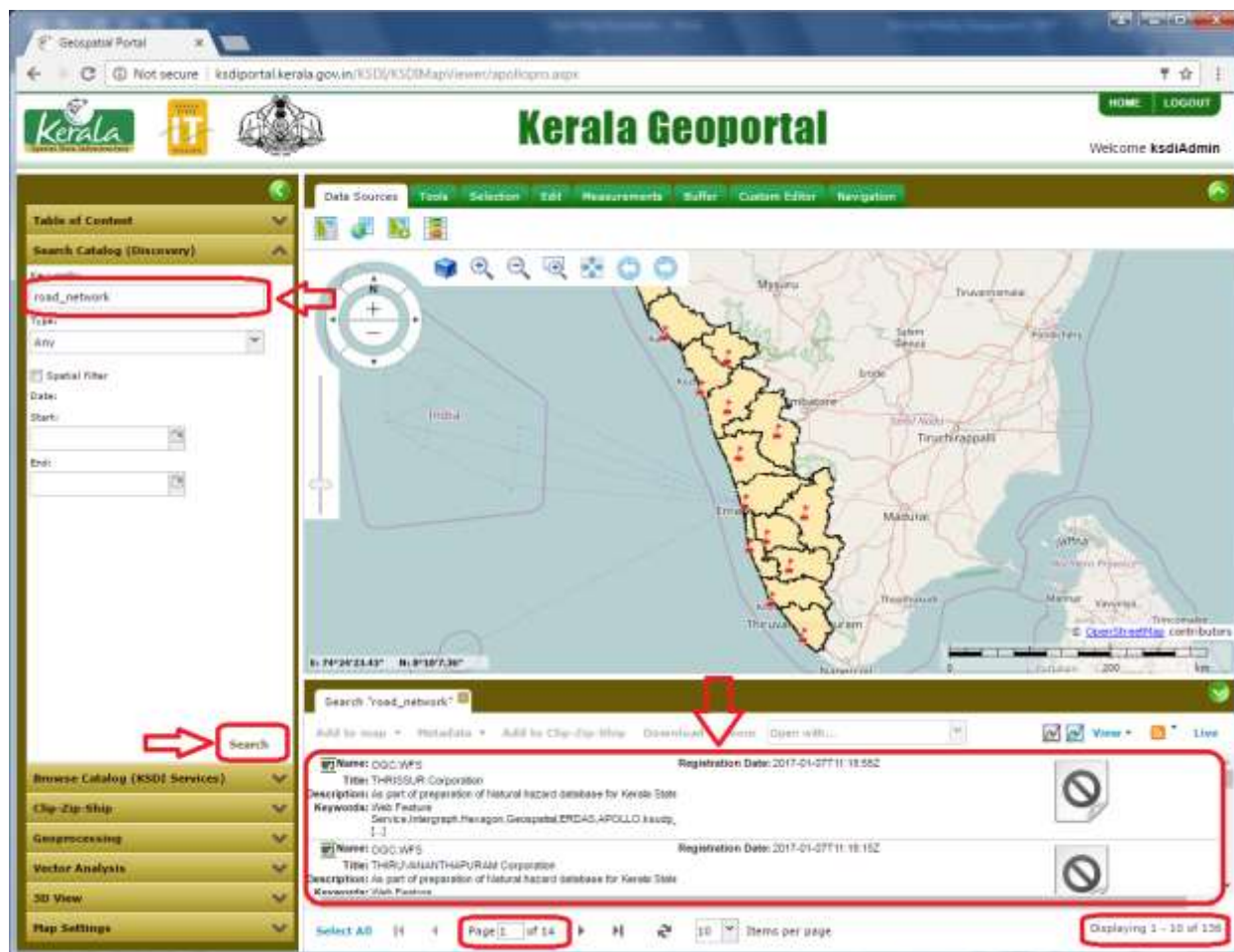


Figure 133: Search Catalog Result Page

5.17. Browse Catalog

This feature helps the user to browse the existing features of Map Catalog within the different options such as Services and Coverage Catalog, which indeed has different sub-options to browse the catalog.

The following **Figure 134** illustrates Browse Catalog feature.

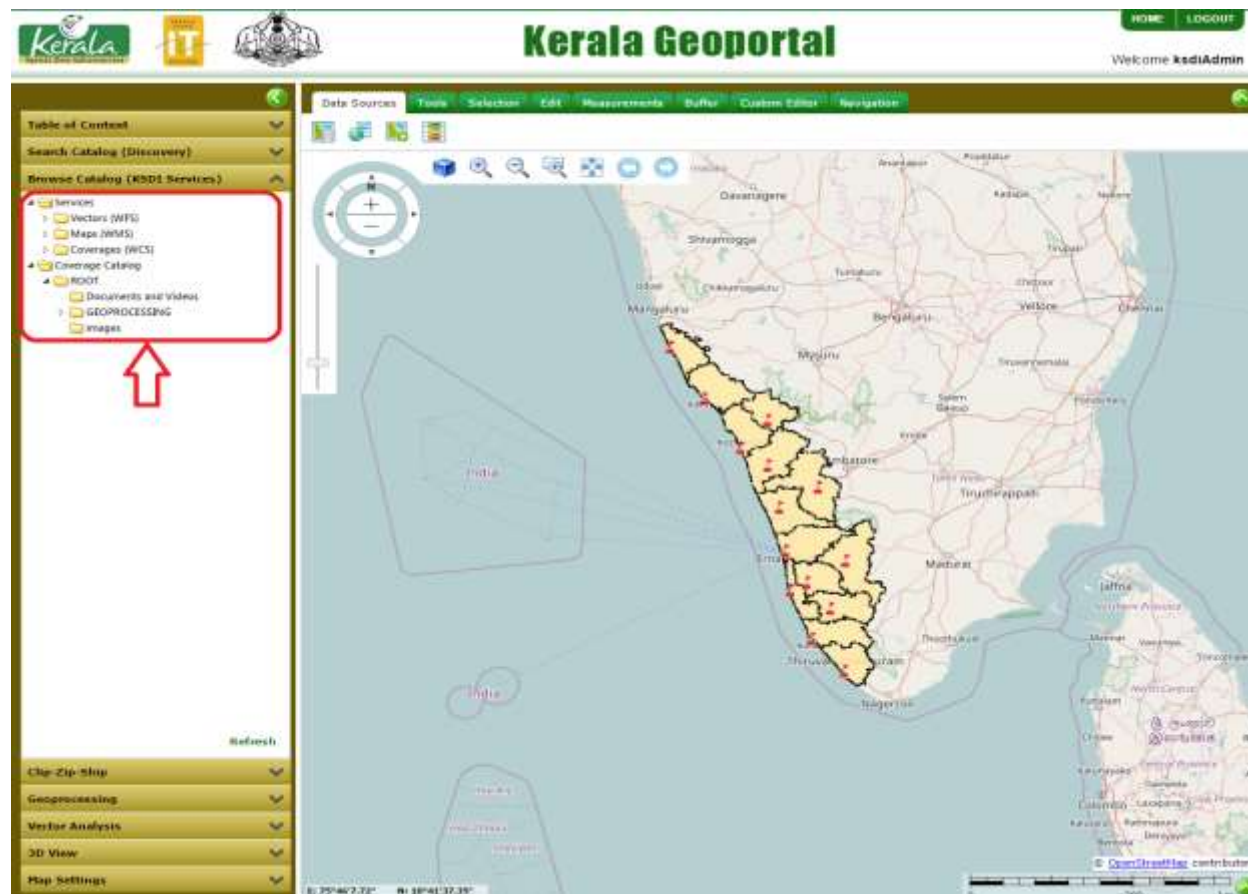


Figure 134: Browse Catalog Main Page

1. Please follow the path Map Viewer→Browse Catalog, on clicking, it displays a pop-up window, where the user should select the option from different options.
2. Here, the user can browse WFS and WMS Service catalogs and add them as layers to use different features of Map Viewer
3. After selecting the options, in the below window, which is the Result Window, the data is displayed as shown in the **Figure 134**



5.18. Clip-Zip-Ship

This feature helps the user to add a new vector map from the existing KSDI Map and displays the desired vector map area.

The following **Figure 136** illustrates the main page of ‘Geoprocessing’ list option, where the user should select the options to generate clip-zip-ship vector map.

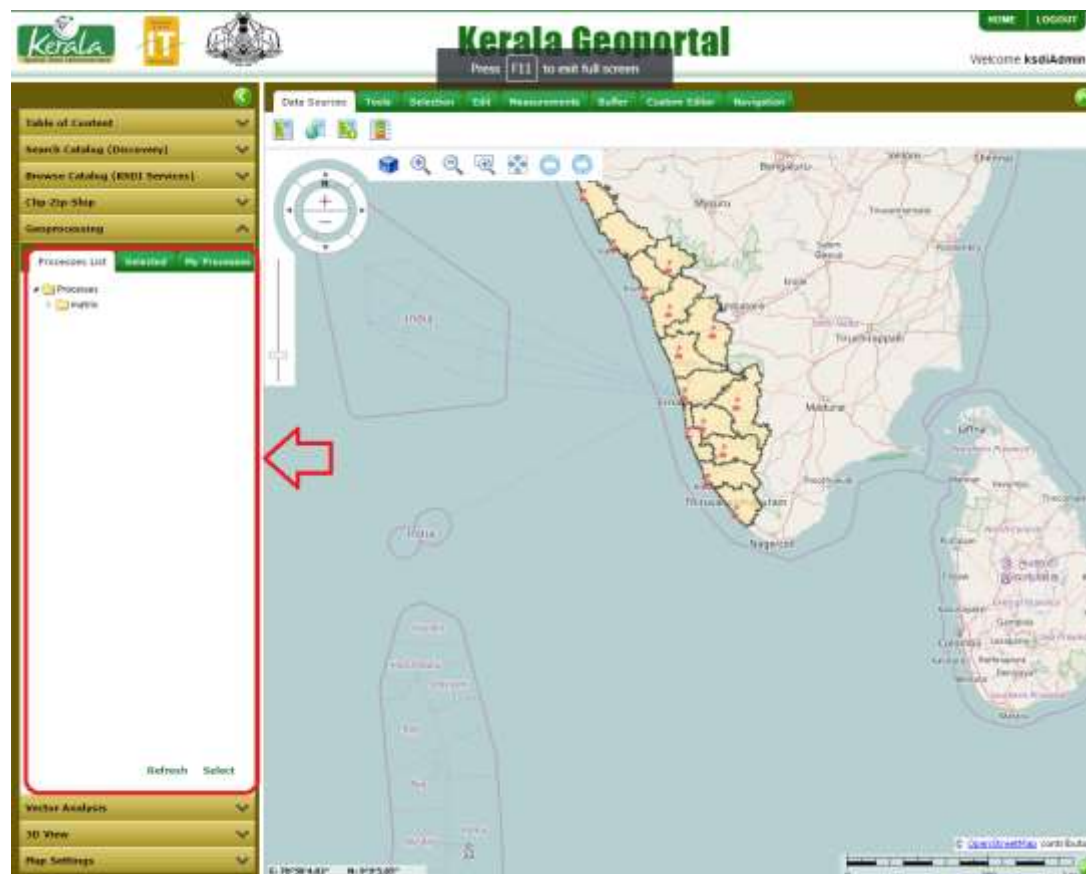


Figure 136: Geoprocessing Selection Page

1. Please follow the path Map Viewer→Geoprocessing, on clicking, it displays a pop-up widow, where the user should select the options for generating the desired clip-zip-ship vector map
2. After selecting the option as ‘painted_relief’, and click on the ‘select’, button
3. A new window is displayed as shown in **Figure 137**, now please click on the ‘Result window’, where the user should select an image as shown below.
4. After selecting the desired image, please click on the ‘Add to Clip-Zip-Ship’, button
5. Now, to check whether the image has been added, please follow the path Map Viewer→Clip-Zip-Ship, on clicking, it displays a pop-up widow, where it displays the selected image as shown in the **Figure 138**

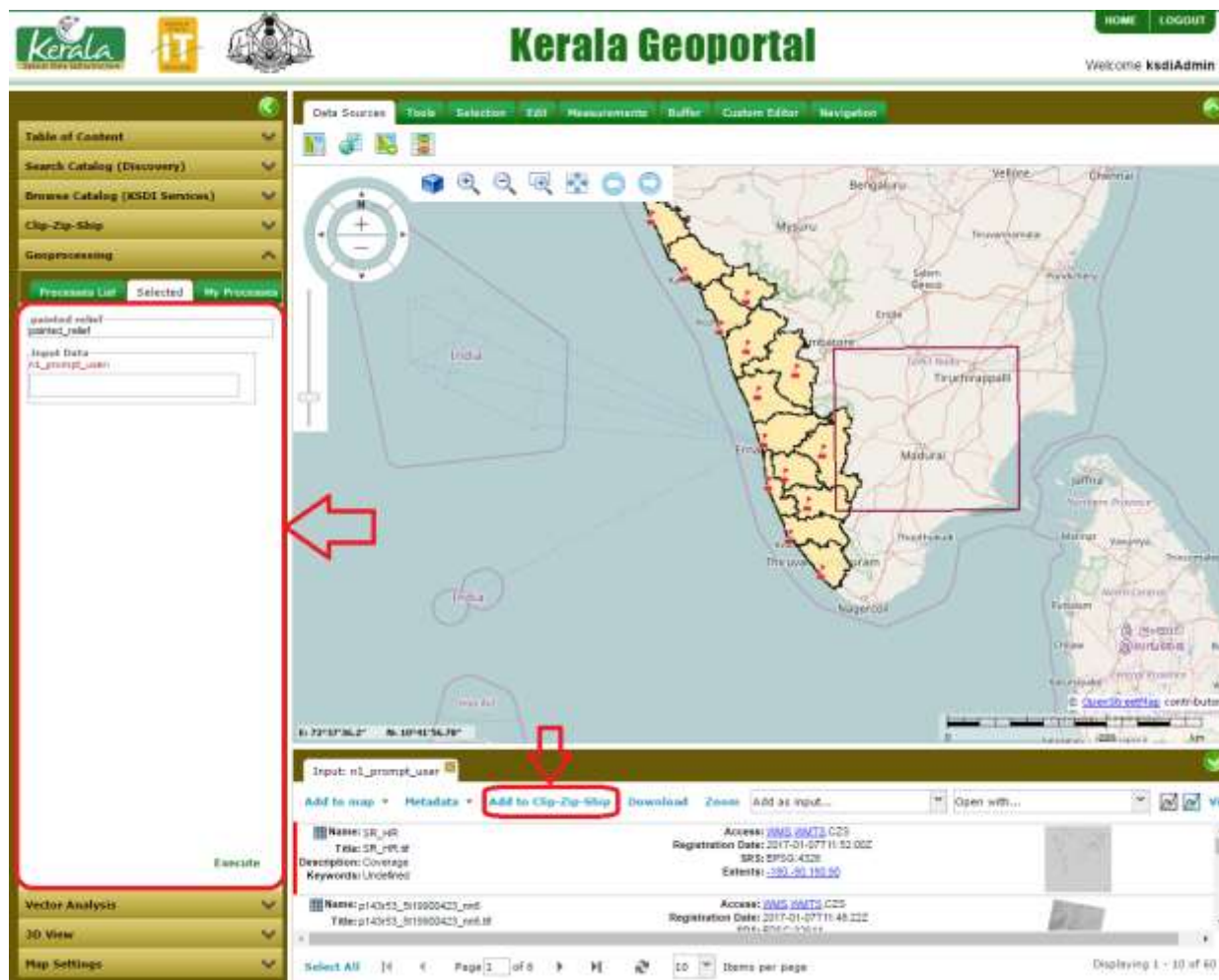


Figure 137: Geoprocessing Result Window

6. We have an option to send this image to the selected email id's, now key in the email id in the 'Email address', field to send the image to desired email id as shown in **Figure 138**
7. After, entering the required email address details, please click on the 'Submit', button
8. An email is triggered to the mentioned email id and a message is displayed as shown in the **Figure 139**

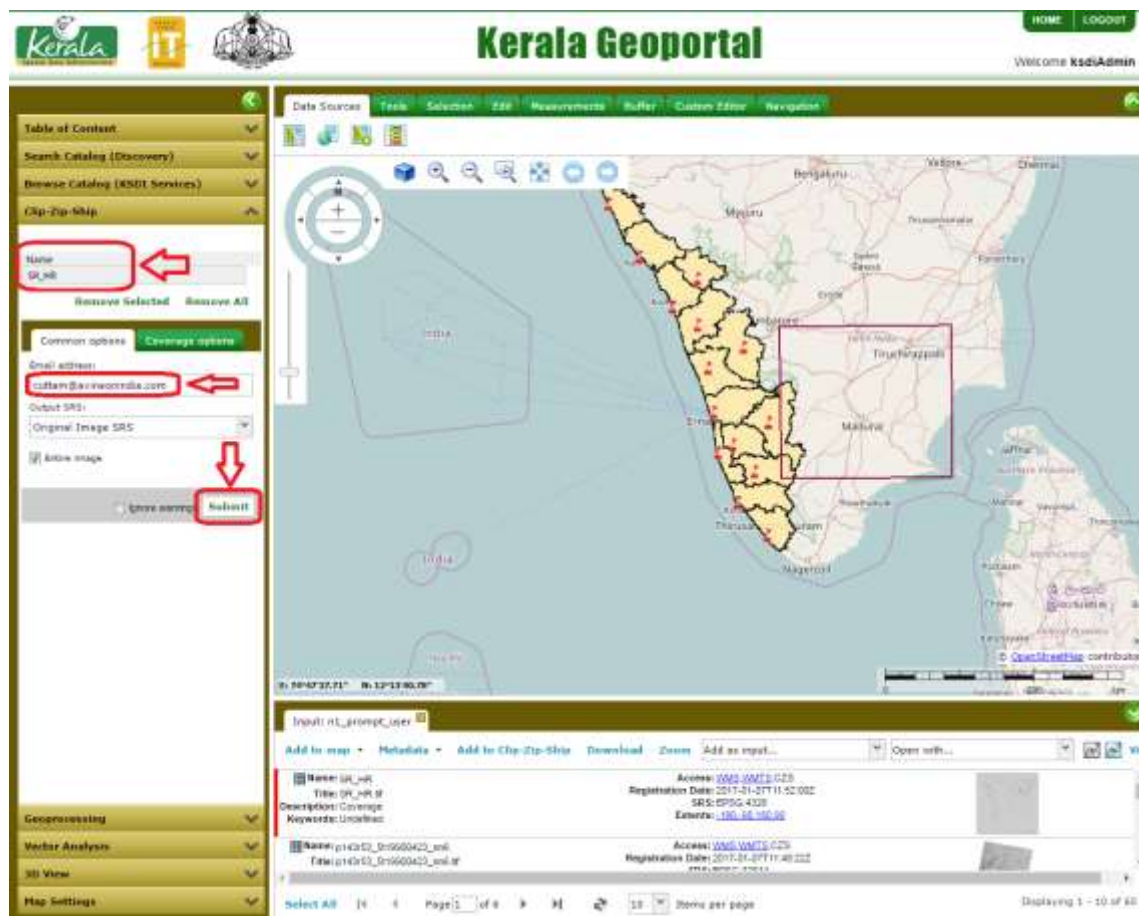


Figure 138: Clip-Zip-Ship Display Page

1. Now, open your mailbox and check for an email as shown in the **Figure 140, Figure 141**
2. Please download the files as shown in the **Figure 142**

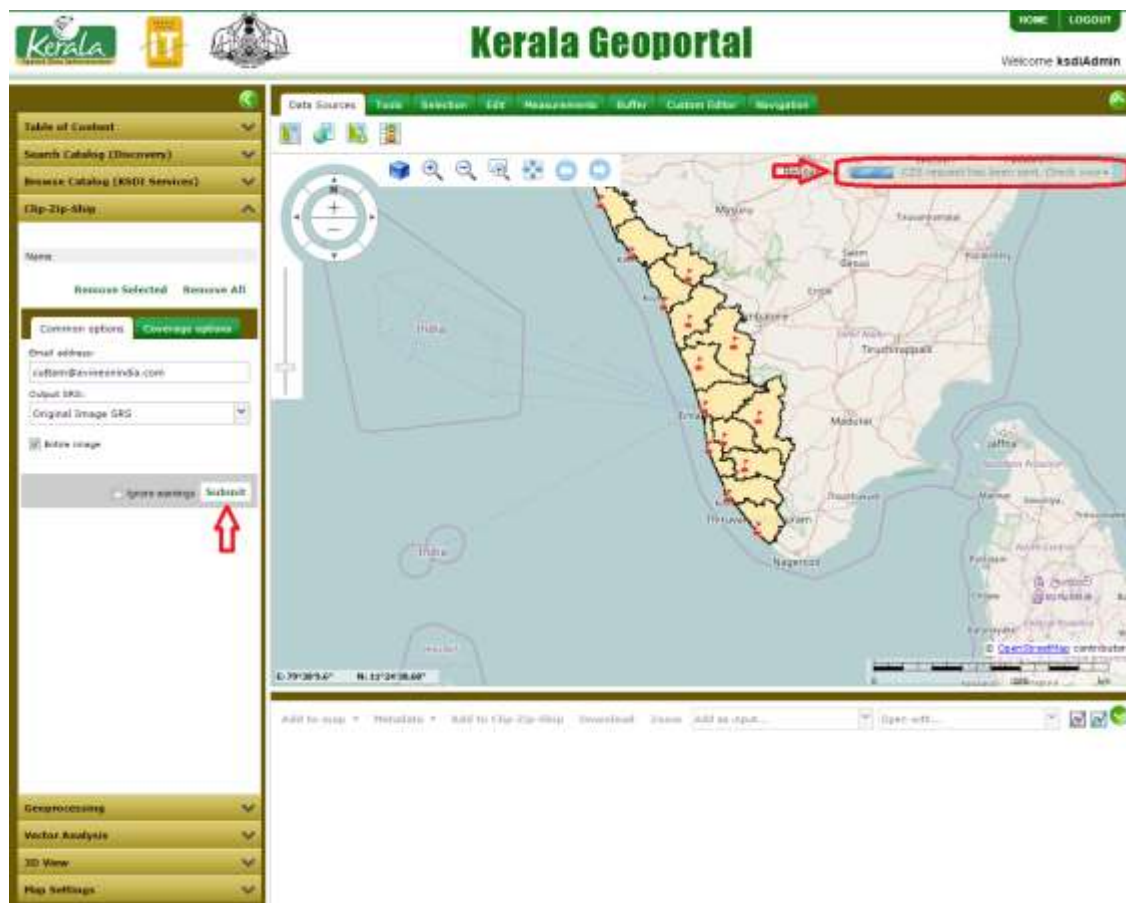


Figure 139: Clip-Zip-Ship Message Display Page

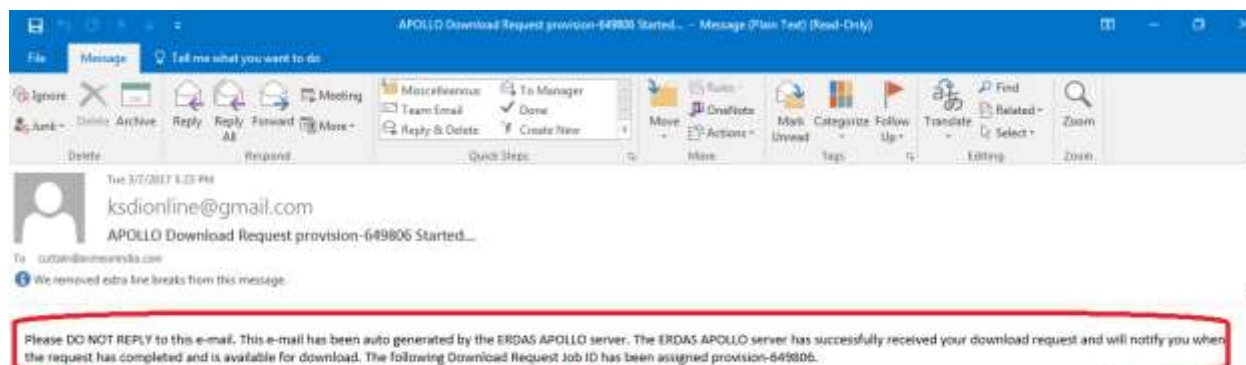


Figure 140: Mailbox Message

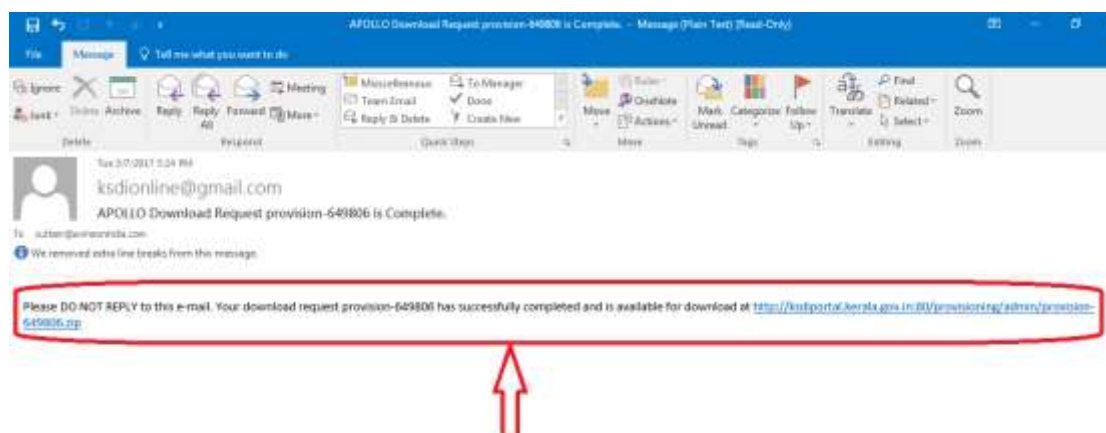


Figure 141: Mailbox Hyperlink Message





Name	Date modified	Type	Size
 provision-649806	3/7/2017 5:26 PM	WinRAR ZIP archive	399 KB
 quick_map_services-0.18.4	3/3/2017 12:34 PM	WinRAR ZIP archive	6,166 KB
 RadGridExport (19)	2/28/2017 5:09 PM	Microsoft Excel 97...	14 KB
 RadGridExport (18)	2/24/2017 10:52 AM	Microsoft Excel 97...	13 KB

Figure 142: Downloaded File

5.19. Geoprocessing

This feature helps the user to add Geoprocessing Map image to the existing UKSDI Map and displays the selected image on the existing map

The following **Figure 143** illustrates the selection of 'Geoprocessing map image'

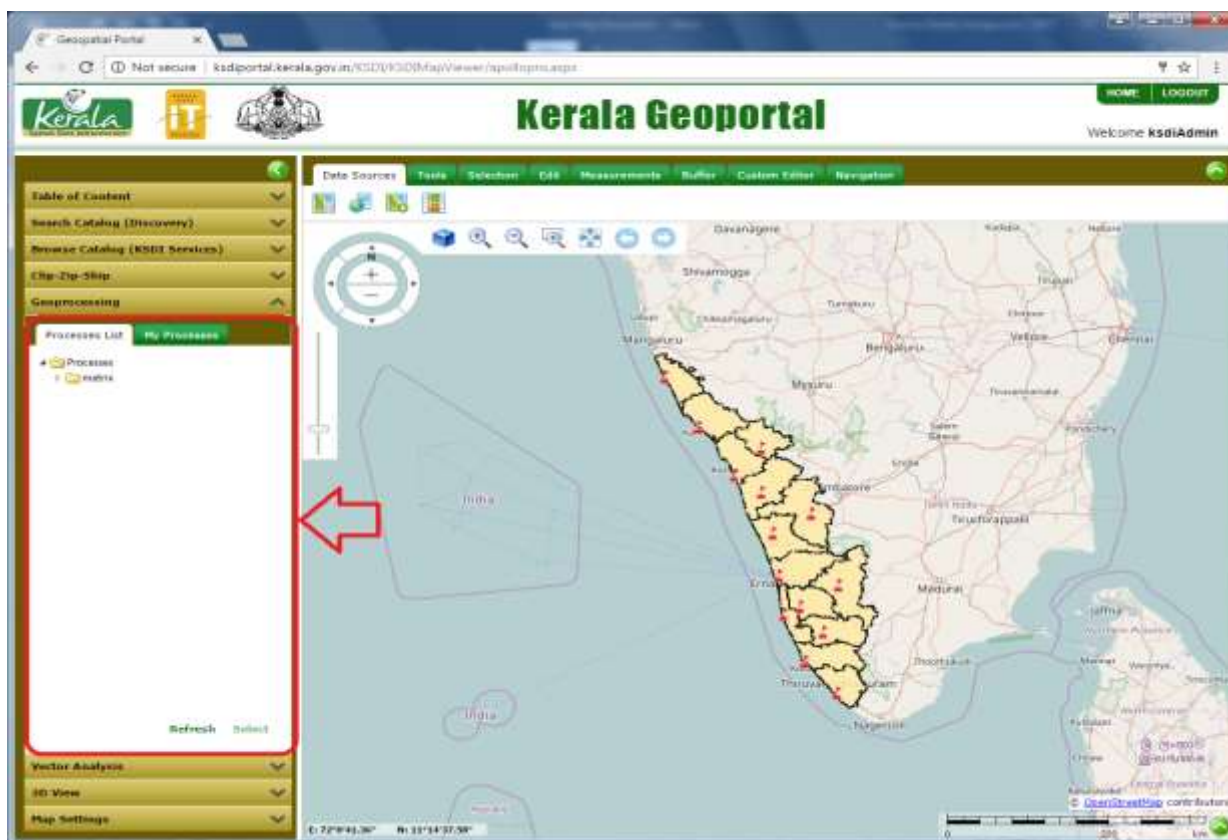


Figure 143: Geoprocessing Selection Page

1. Please follow the path Map Viewer→Geoprocessing, on clicking, it displays a pop-up window
2. After selecting the option as 'painted_relief', and click on the 'select', button
3. A pop-up window is displayed as shown in **Figure 144**, now please click on the 'Result window', where the user should select an image as shown below.
4. Please select the option as 'n1_prompt_user' from the drop-down list as shown in the below **Figure 144**
5. Now, please double click once the selection is done, and a new pop-window is displayed as shown in the **Figure 145**, and now click on the execute

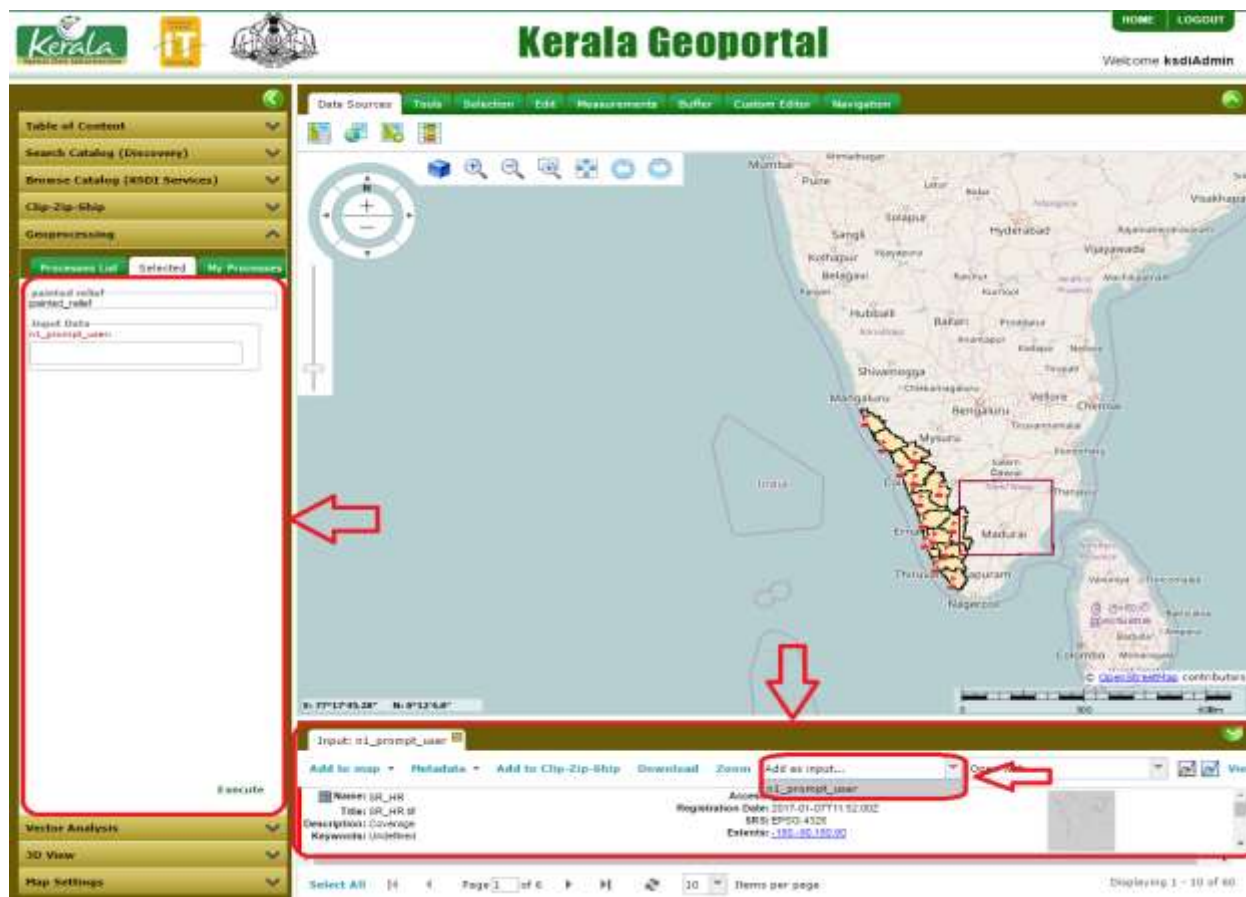


Figure 144: Geoprocessing image Selection Page

6. On clicking 'Execute', button, a pop-up window is displayed showing the image processing in the background as shown in the **Figure 146**, once it is done, please click on the 'Show Result', button to see the output of the image on the existing map.
7. Once selection is done, the user should add the image on clicking the option 'Add to Map', and select the sub-option as 'Add as WMS' as shown in the **Figure 147**
8. The result image is shown in the **Figure 147**

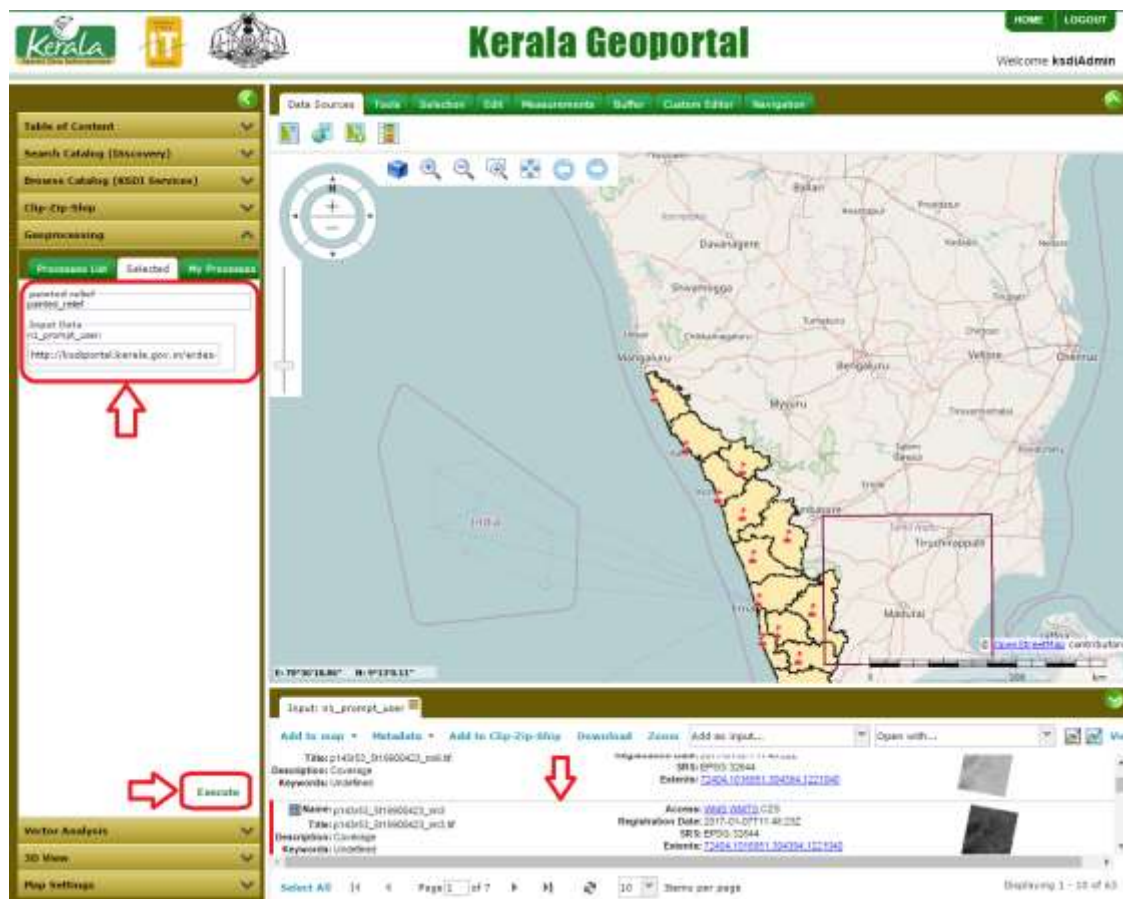


Figure 145: Geoprocessing image Selection Page 2

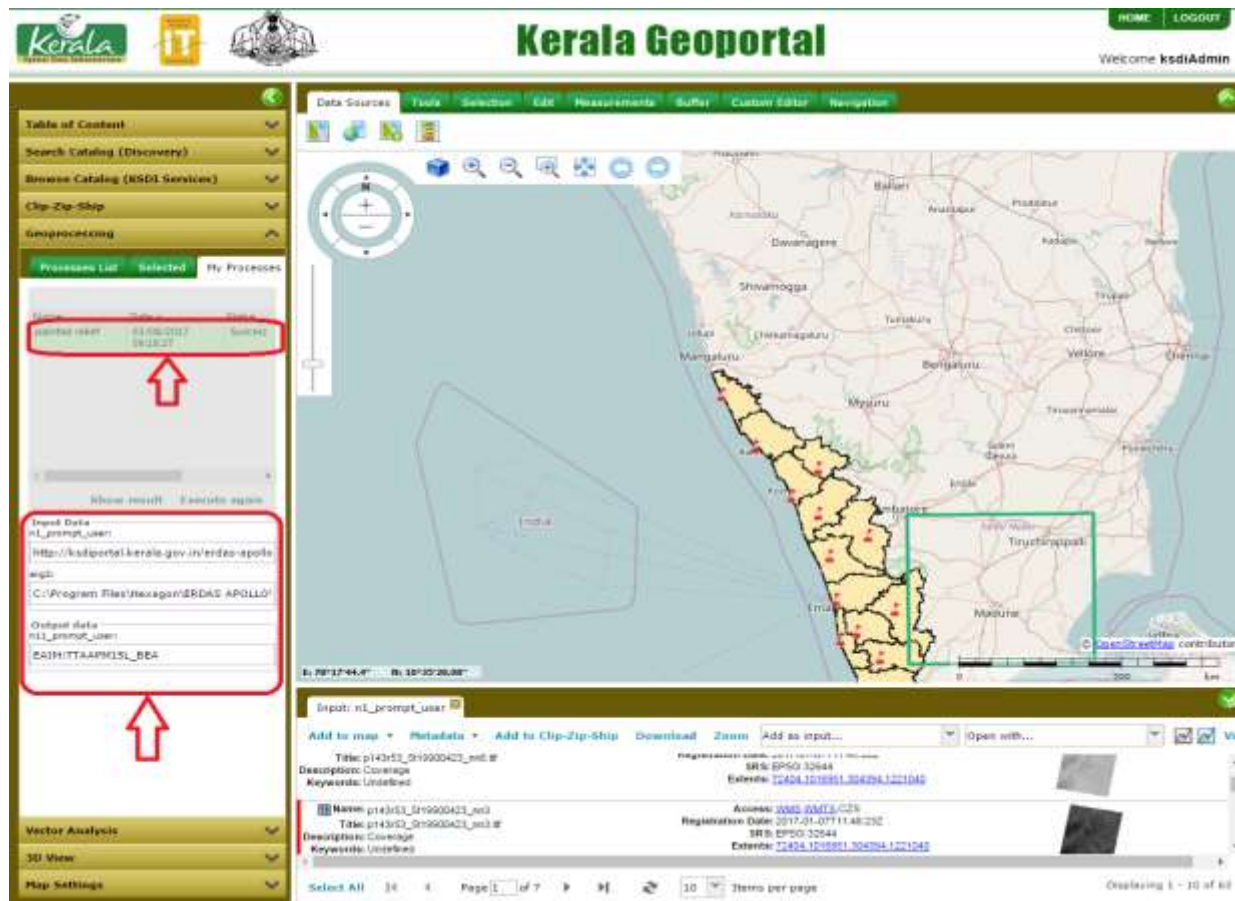


Figure 146: Geoprocessing – Processing the image

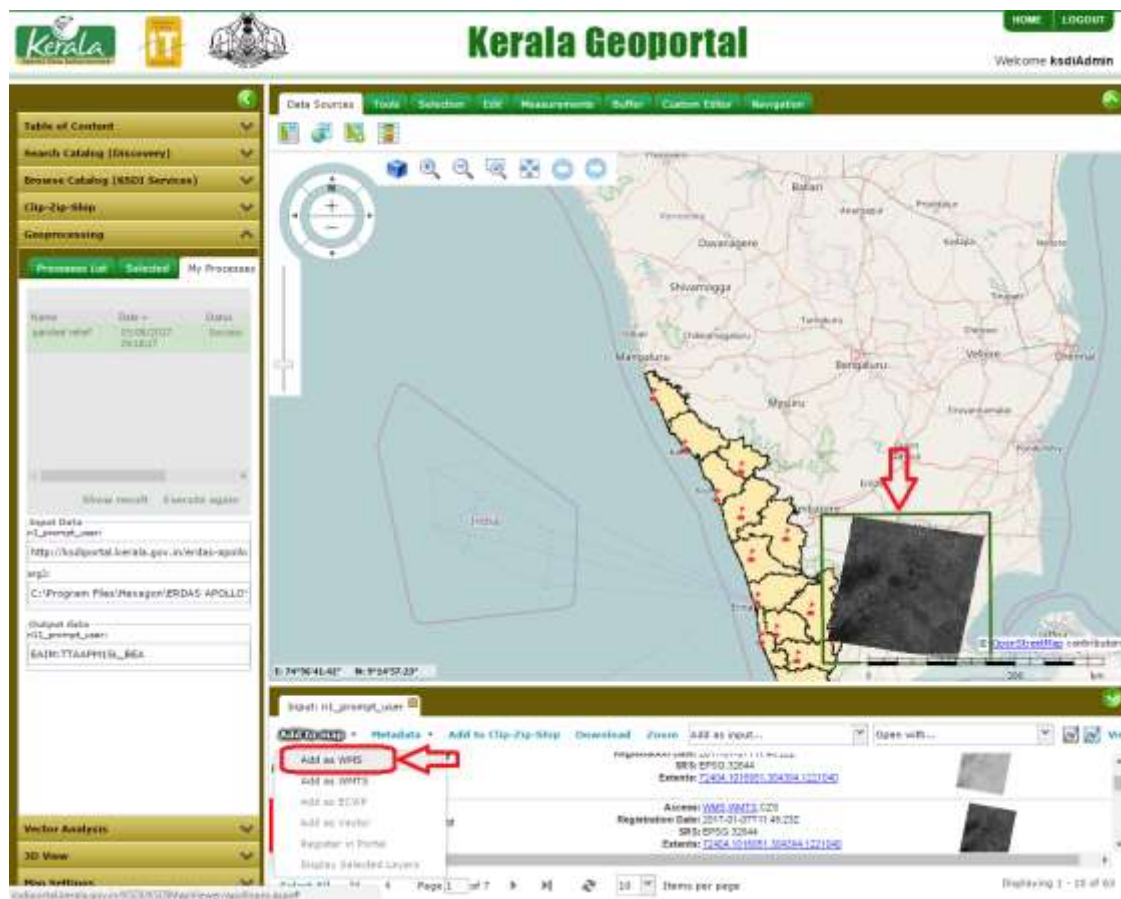


Figure 147: Geoprocessing – Result Image

5.20. Vector Analysis

This feature helps the user to add a new vector from the existing UKSDI Map and displays the desired vector map area.

The following **Figure 148** illustrates the selection of 'Vector' from existing to generate a new vector map.

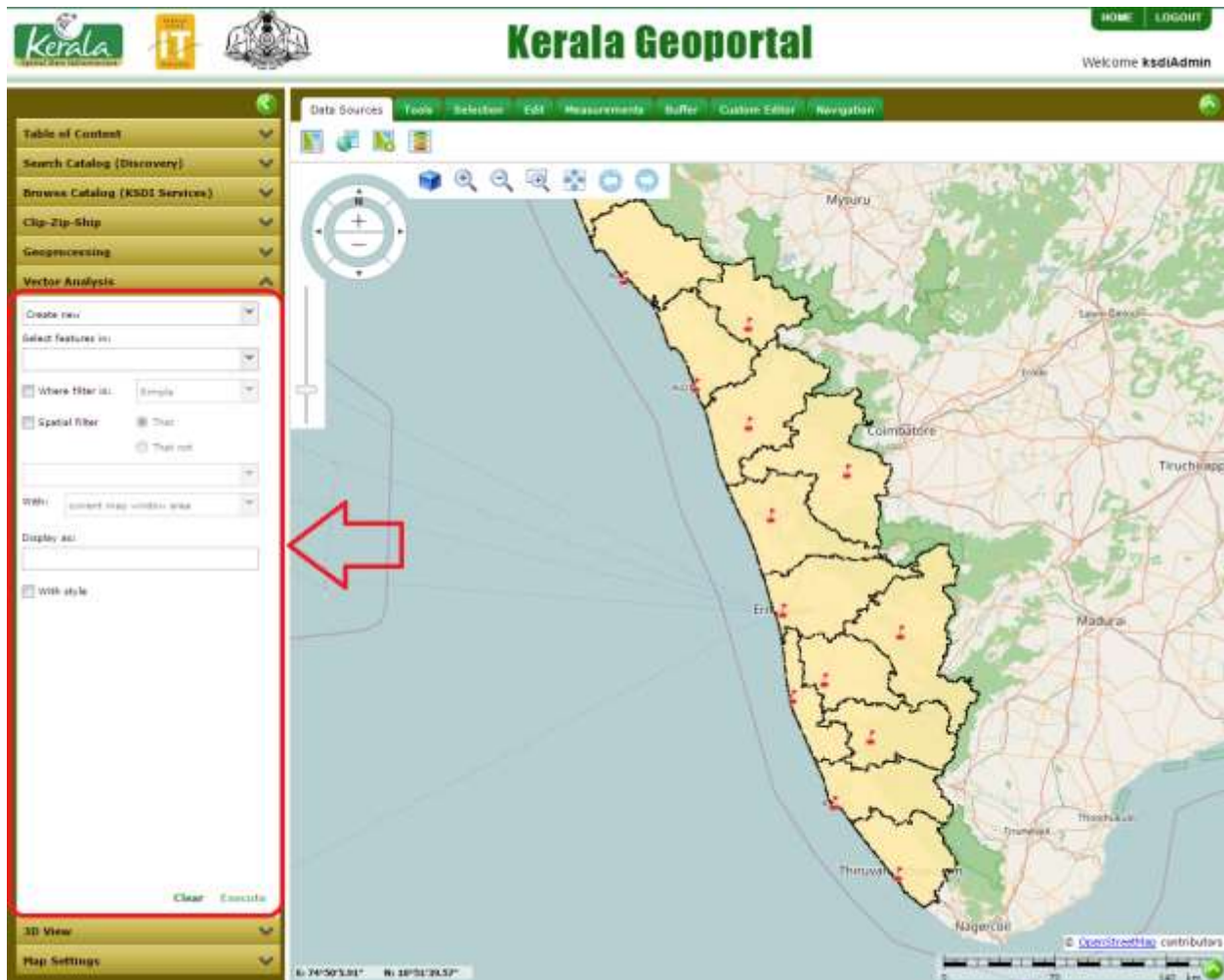


Figure 148: Vector Selection Page1

1. Please follow the path Map Viewer → Vector Analyses, on clicking, it displays a pop-up window, where the user should click on the 'THIRURANGADI Block Panchayath' to select the field name to map the vector and display it on the existing map.
2. After selecting the option, Here, the user has selected 'thirurangadi_block_boundary', on double clicking the field has been selected as shown in the **Figure 149**
3. Now, please check the 'where filter', option and key in the field values as shown in the **Figure 150**, and click on the 'Apply', button

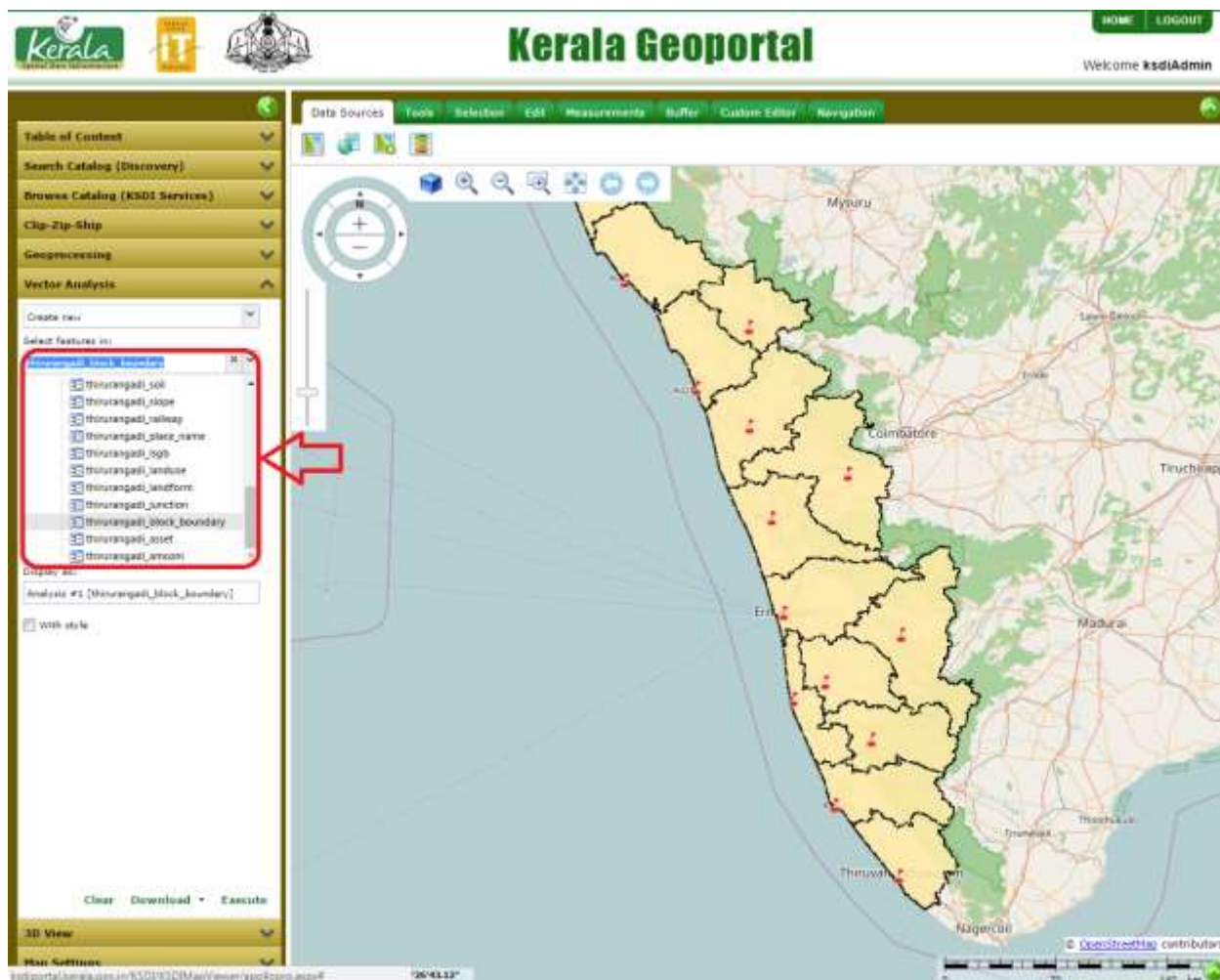


Figure 149: Vector selection Page2

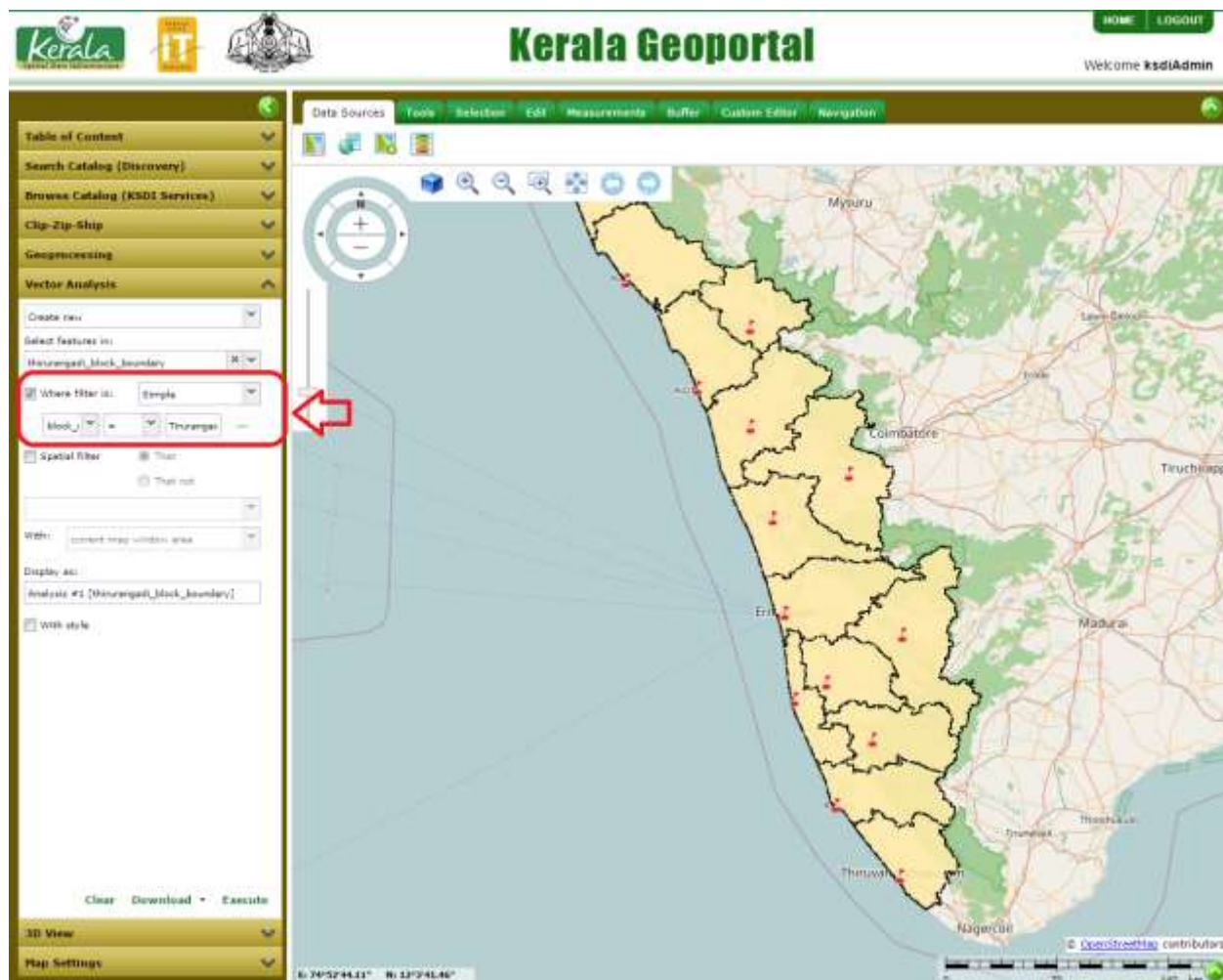


Figure 150: Vector where filter selection Page

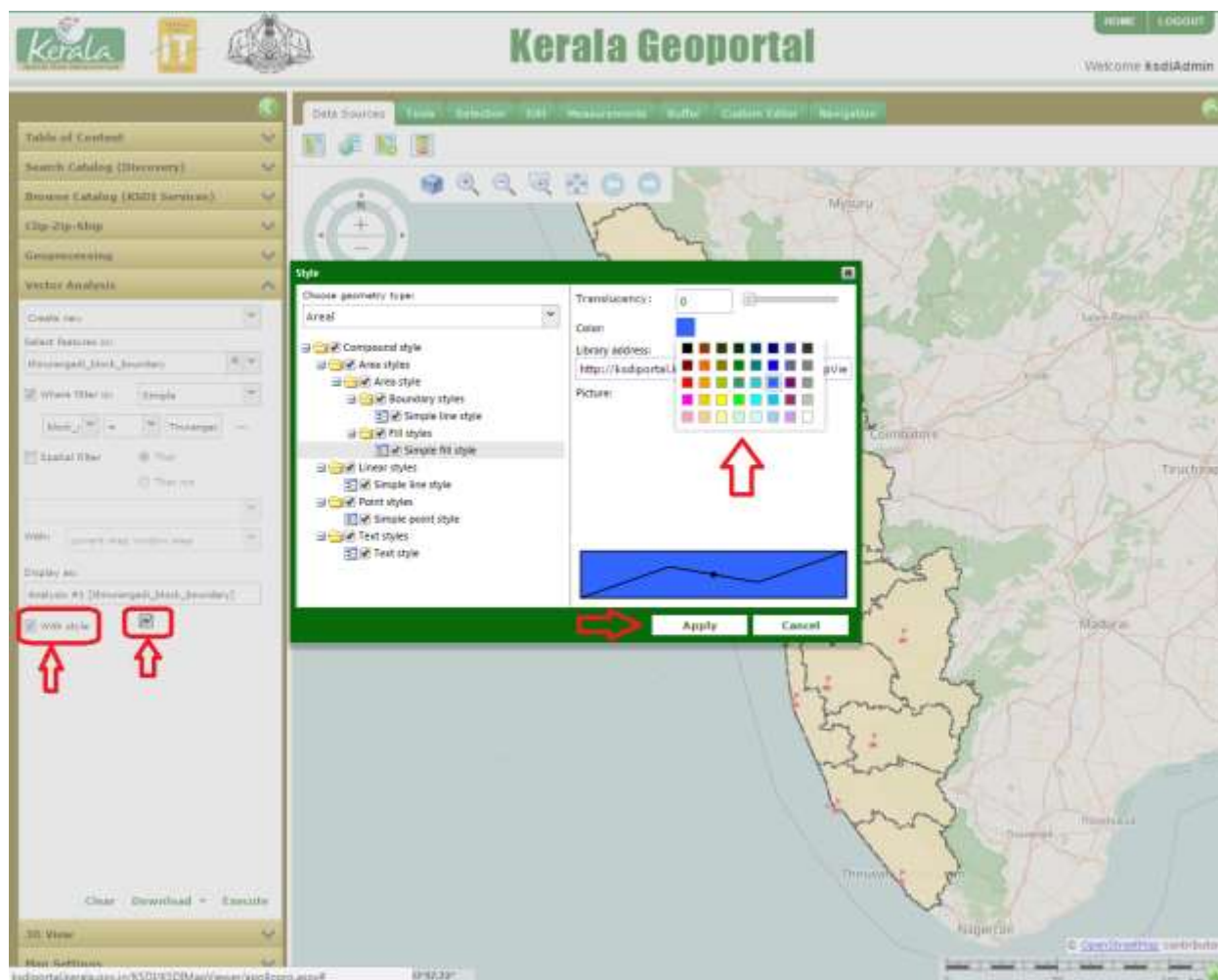


Figure 151: Vector Color Selection Page

4. Now, please check 'With style', and click on the colors option as shown in the **Figure 151**, where the user has an option select the color type as shown above, after selecting the color type, please click on the 'Apply' to see the vector map in desired color as shown in the **Figure 152**

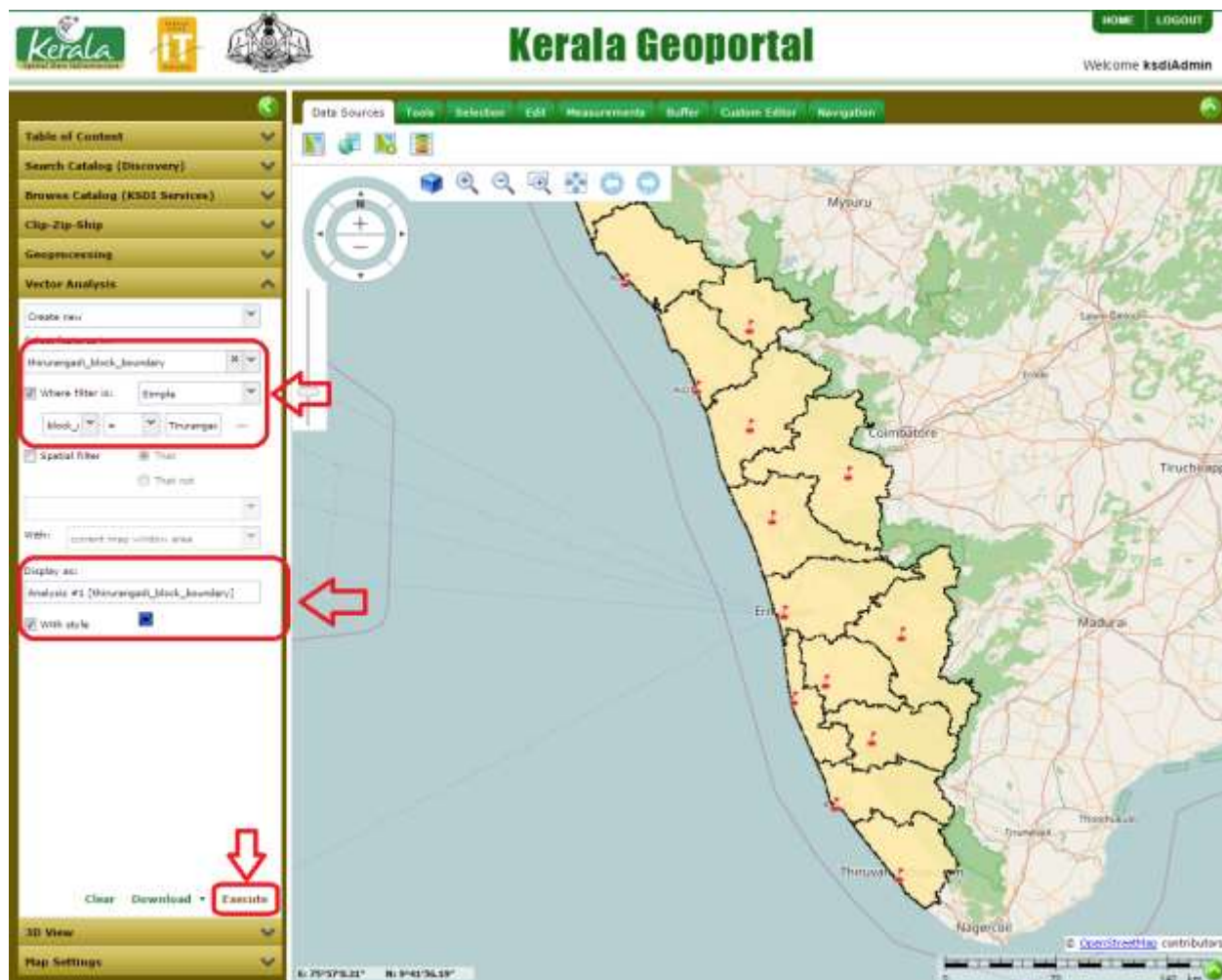


Figure 152: Vector Execution Page

- Once all the selections are done, please click on the 'Execute', button to display the desired vector map on the existing map as shown in the **Figure 153**

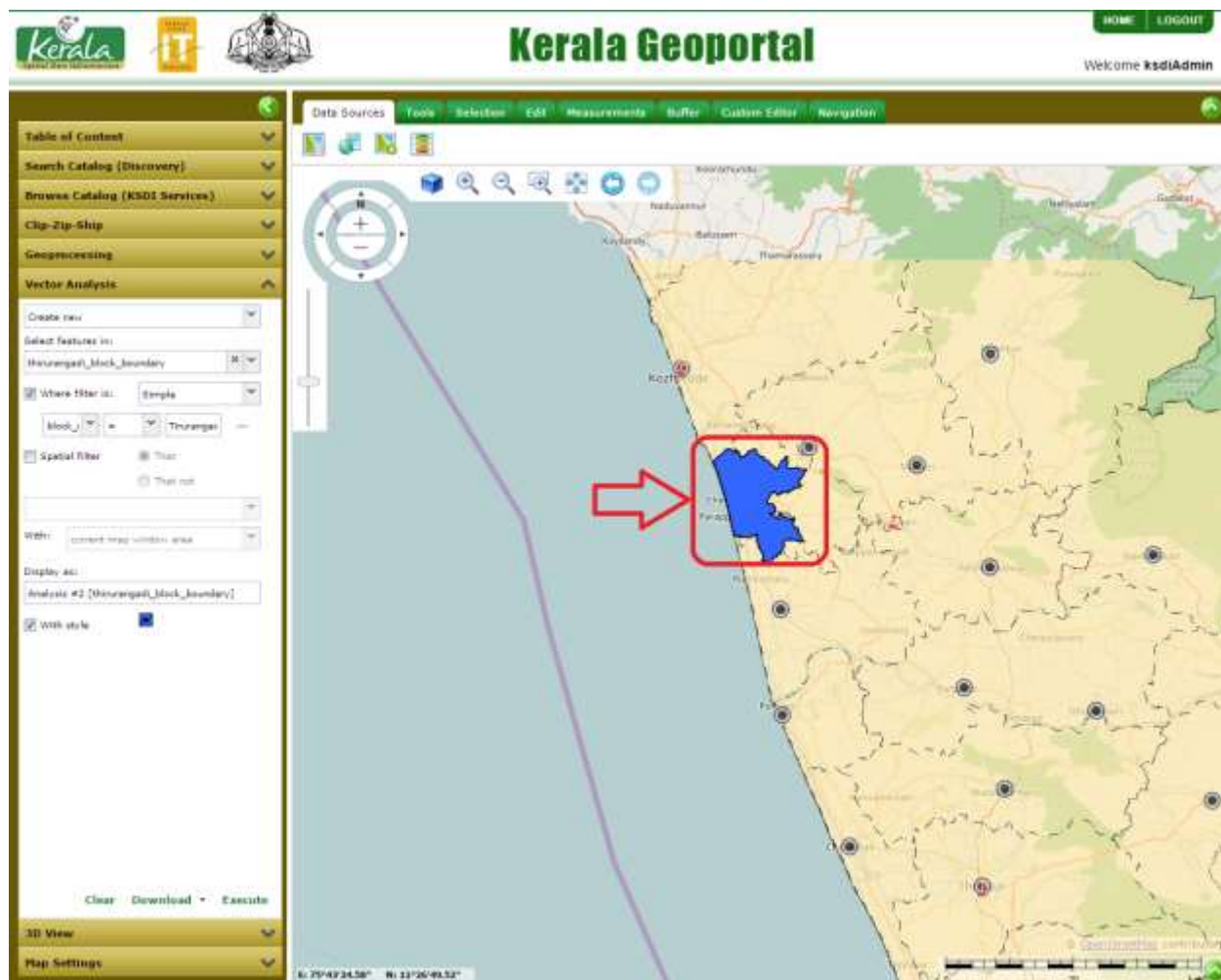


Figure 153: Vector Result Page

5.21. Map Settings

This feature provides the user with settings for displaying the map.

The following **Figure 154** illustrates the Map Settings main page.

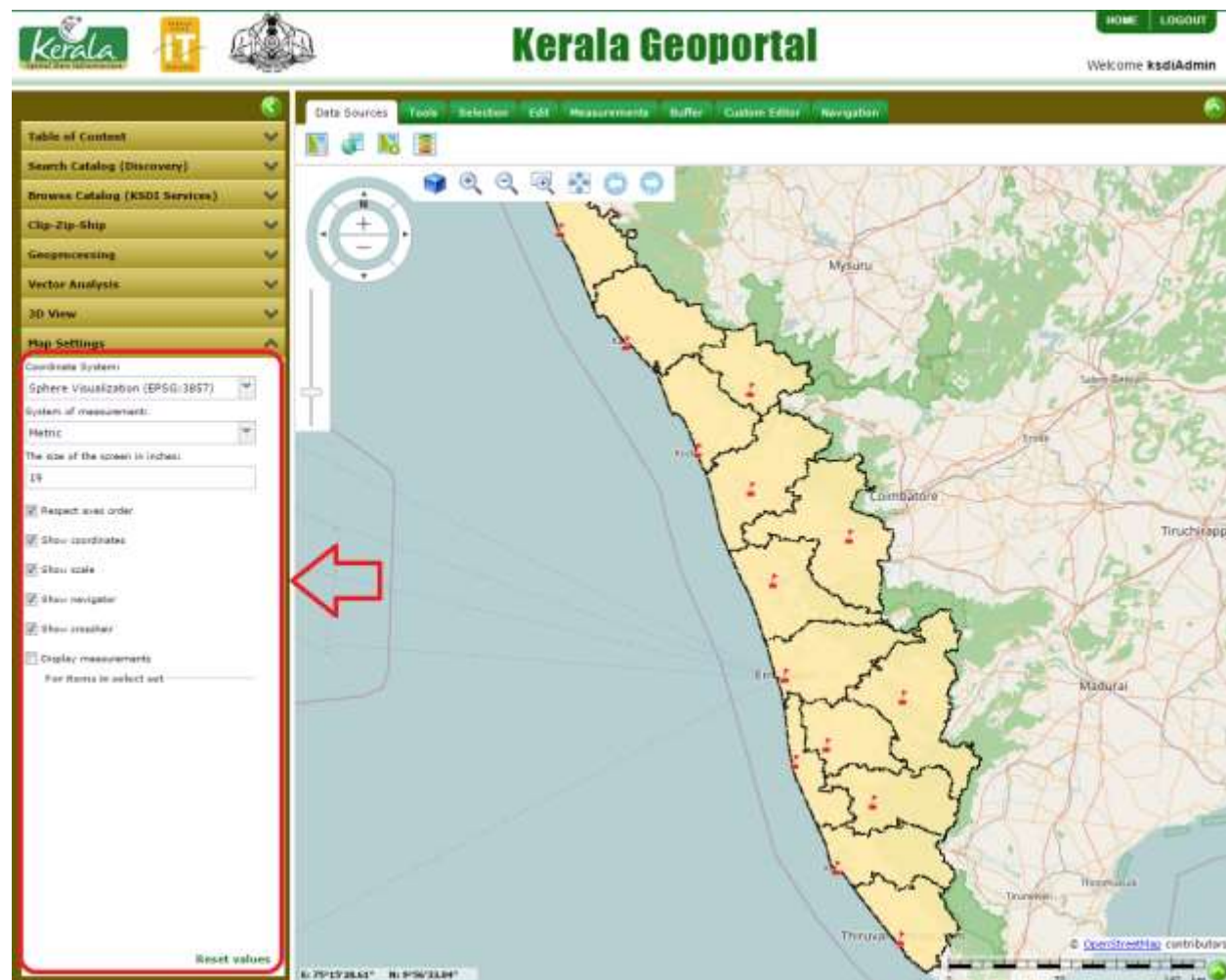


Figure 154: Map Settings Main Page

1. Please follow the path Map Viewer→ Map Settings, on clicking, it displays a new window, where the user can select the coordinate system for displaying the Map
2. After selecting the first option from the drop-down list as shown in the **Figure 155**

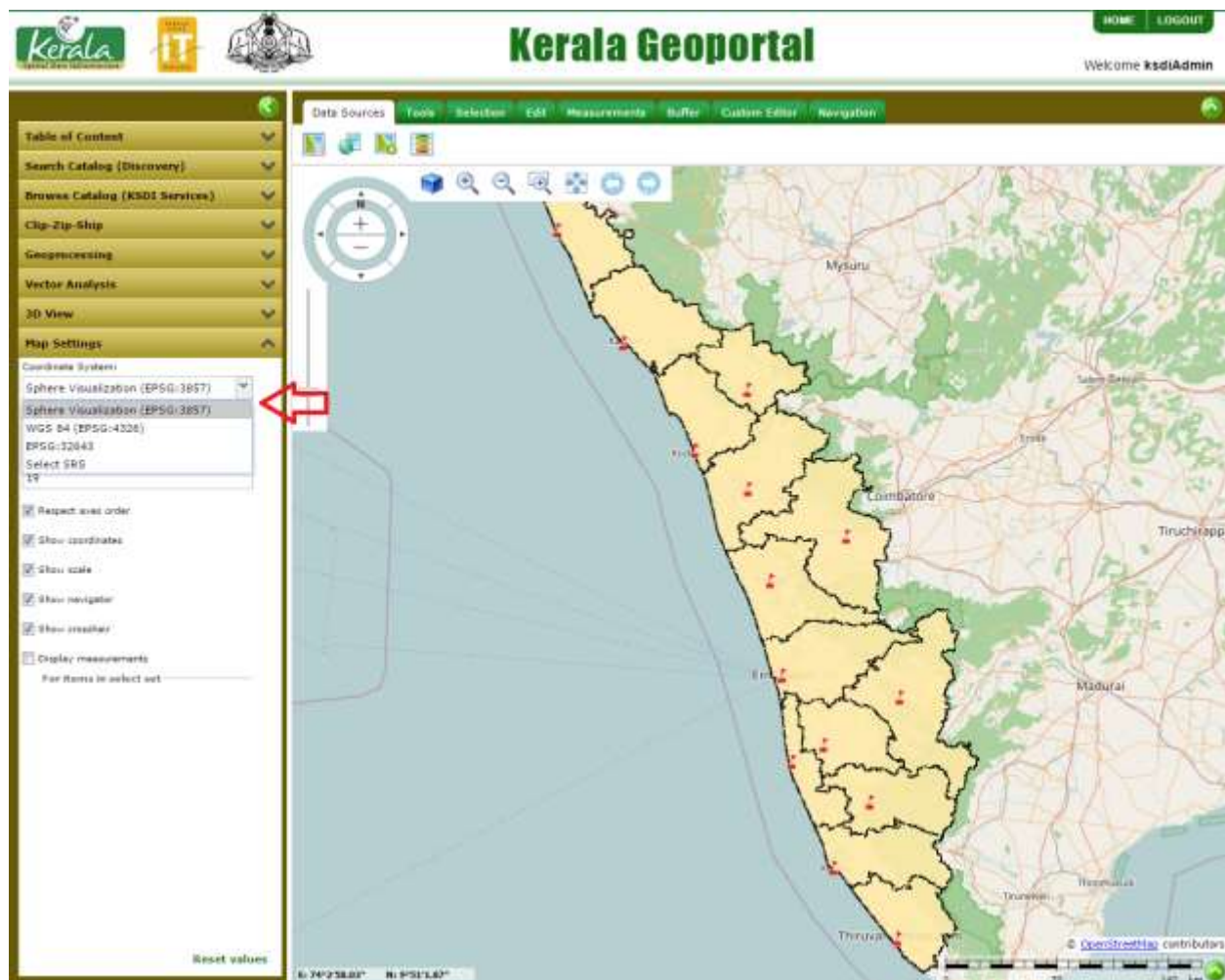
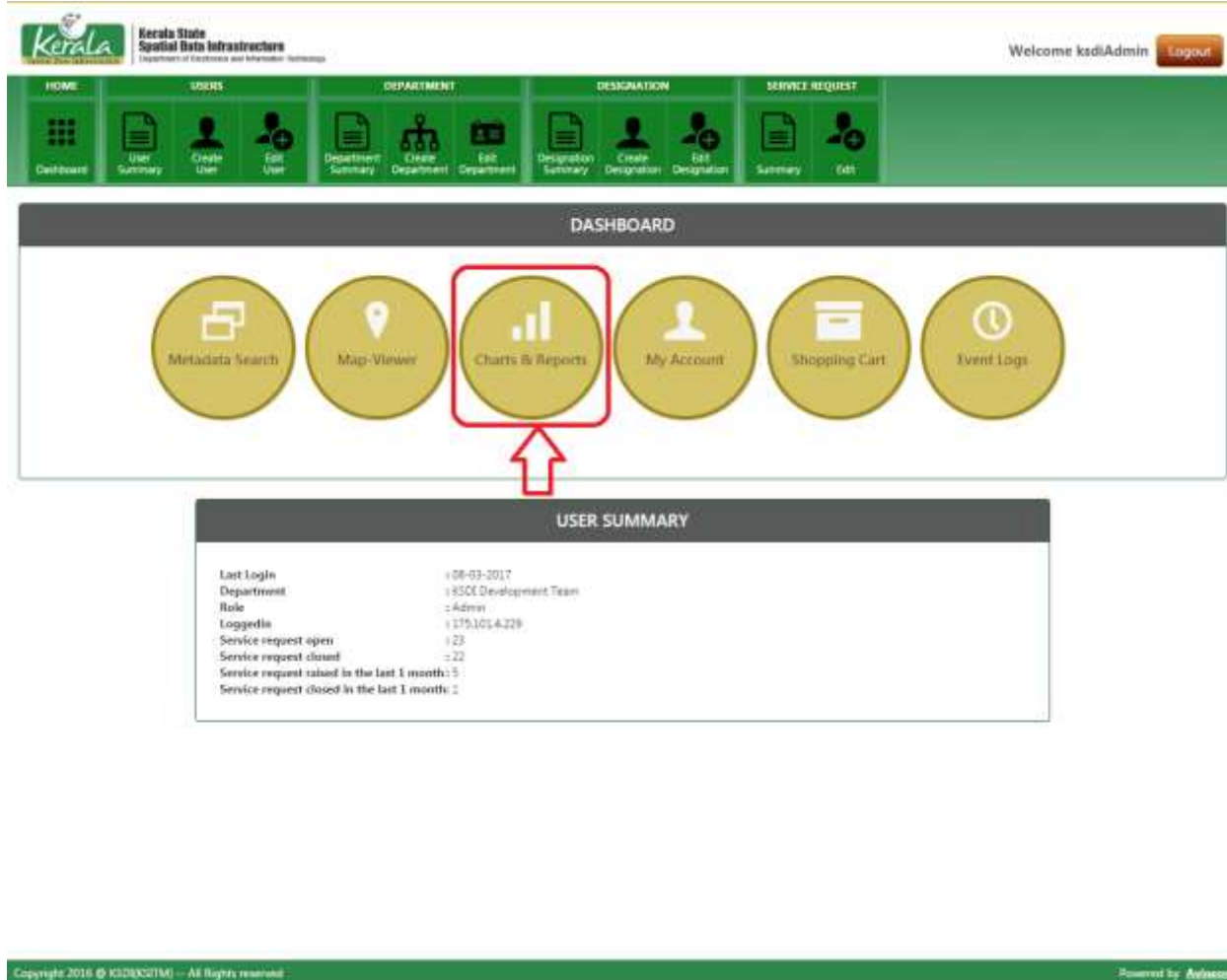


Figure 155: Coordinate System Selection

6. CHARTS & REPORTS

The Admin user can generate the charts by giving different inputs in the 'Inputs', section and can also download the report of that particular chart.



Dashboard Navigation:

- HOME: Dashboard
- USERS: User Summary, Create User, Edit User
- DEPARTMENT: Department Summary, Create Department, Edit Department
- DESIGNATION: Designation Summary, Create Designation, Edit Designation
- SERVICE REQUEST: Summary, Edit

DASHBOARD

- Metadata Search
- Map-Viewer
- Charts & Reports** (Highlighted)
- My Account
- Shopping Cart
- Event Logs

USER SUMMARY

Last login	08-03-2017
Department	ISDC Development Team
Role	Admin
LoggedIn	175.105.4.228
Service request open	23
Service request closed	22
Service request raised in the last 1 month	5
Service request closed in the last 1 month	1

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Figure 156: KSDI Charts & Reports Selection Page

The following **Figure 157** displays the main page of KSDI Charts.

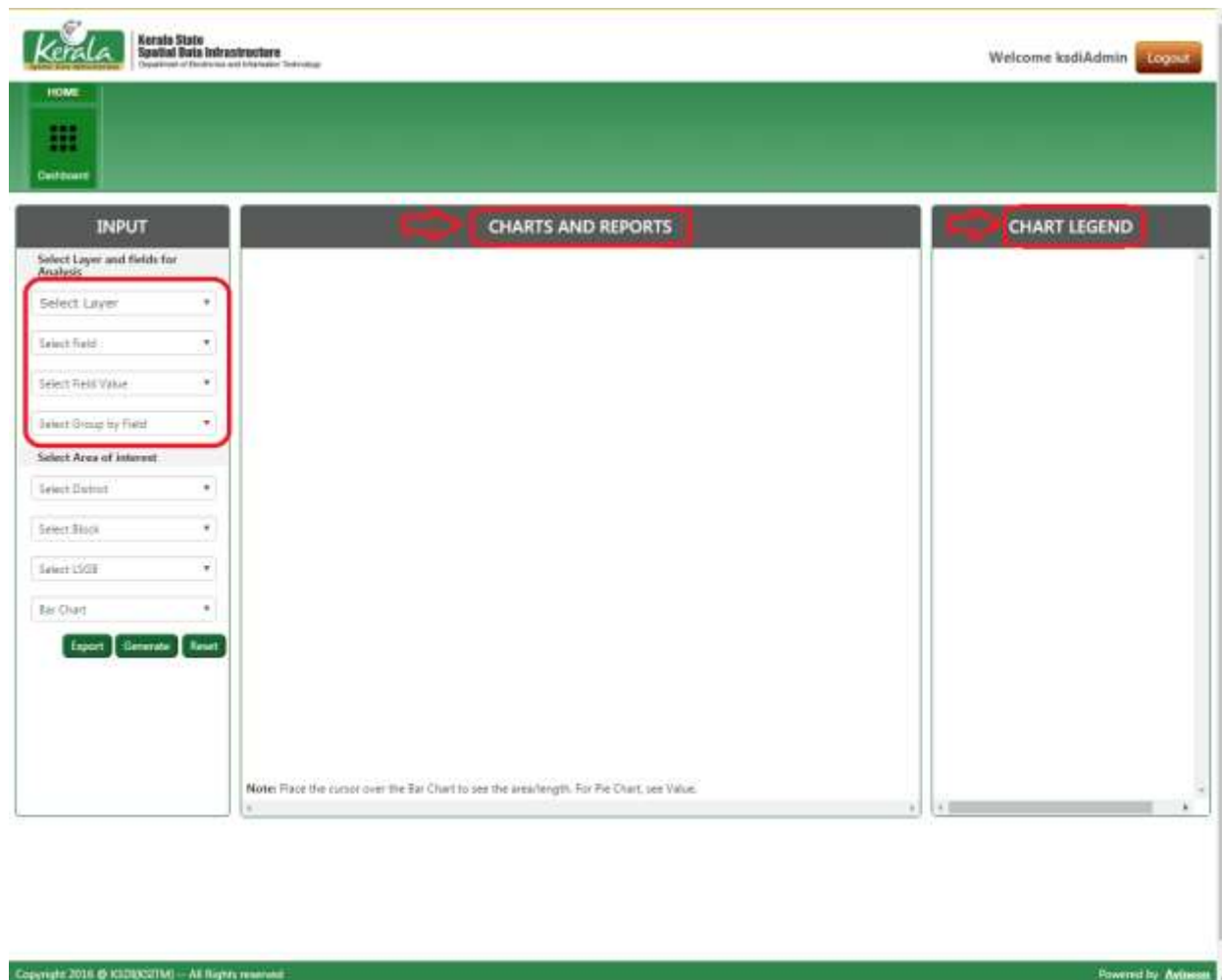


Figure 157: KSDI Charts Main Page

1. Please follow the path Home→ Charts, as shown in the **Figure 157**.
2. Please fill in the details of Layer, Field, Field value, Group by Field values, or you can even select few fields to generate the report as shown in the **Figure 158**
3. After selecting the fields values, please click on the 'generate', button, to generate the chart as shown in the **Figure 158**
4. The user can also export this chart in two formats as shown in the **Figure 159**, 'CSV', 'PNG' format.

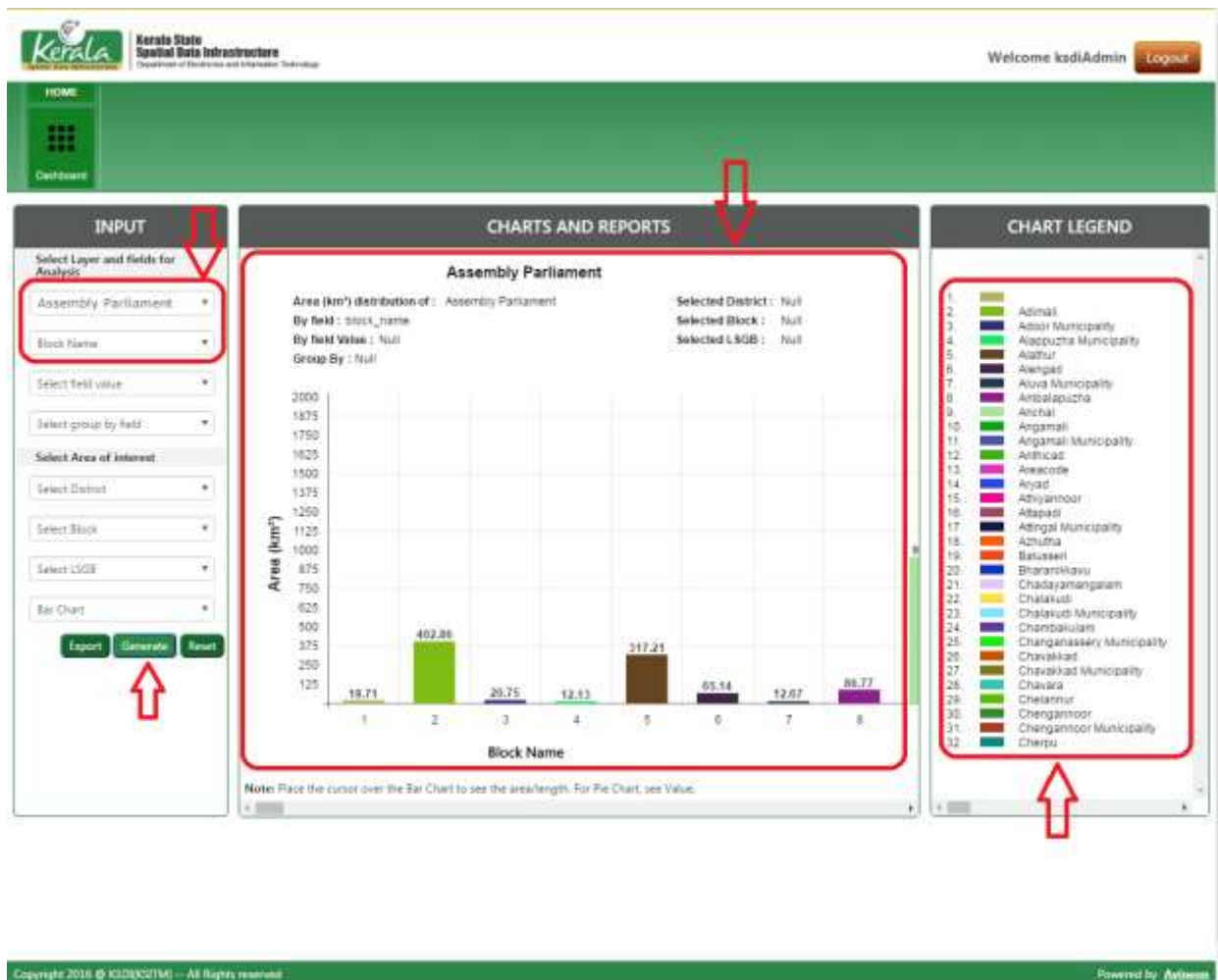


Figure 158: KSDI Charts Result Page

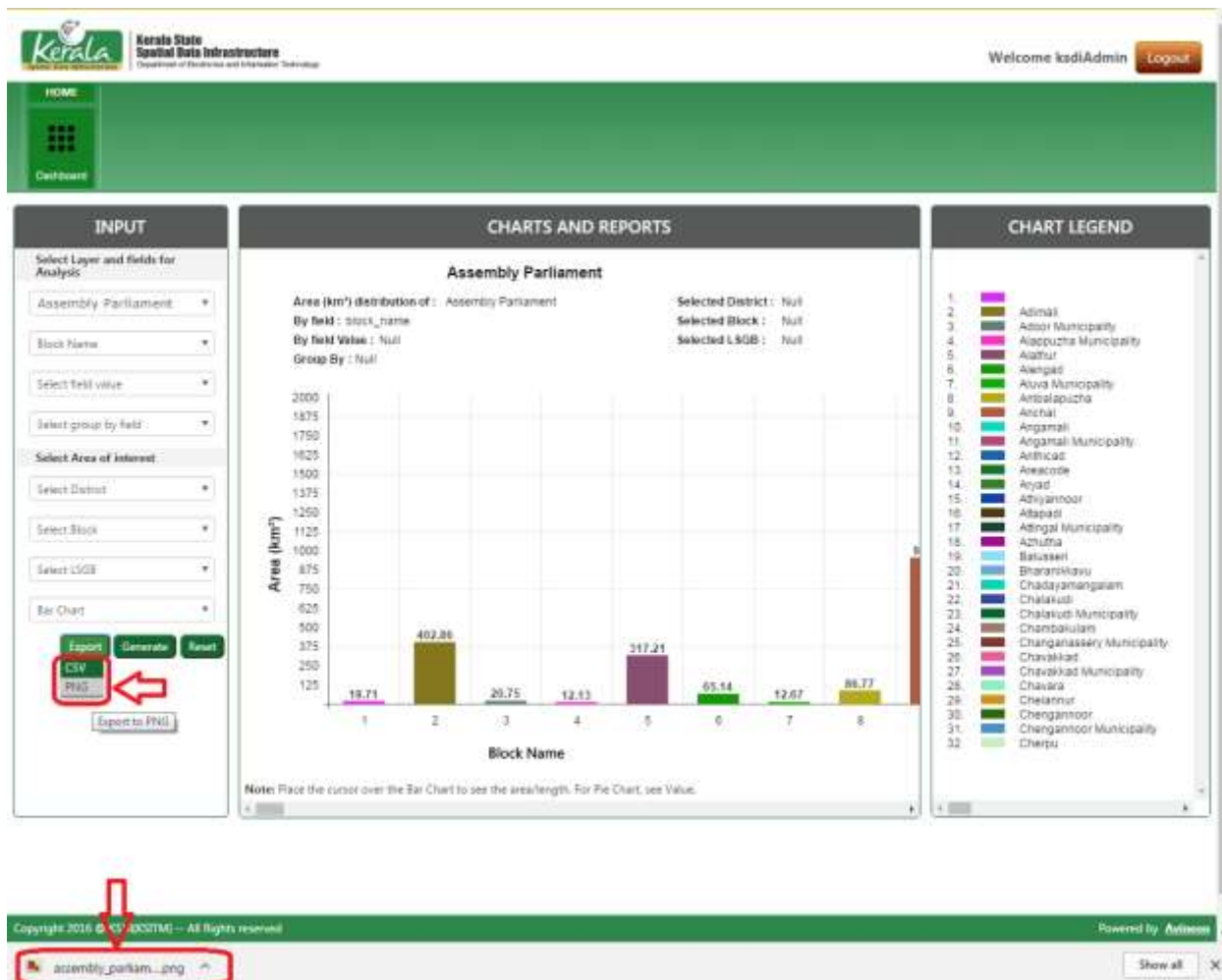


Figure 159: KSDI Charts Export Page

7. MY ACCOUNT

This feature helps the user to change the Personal Information, change the passwords and raise service requests.

The following **Figure 160** illustrates My Account feature in General User (gana2322) perspective.

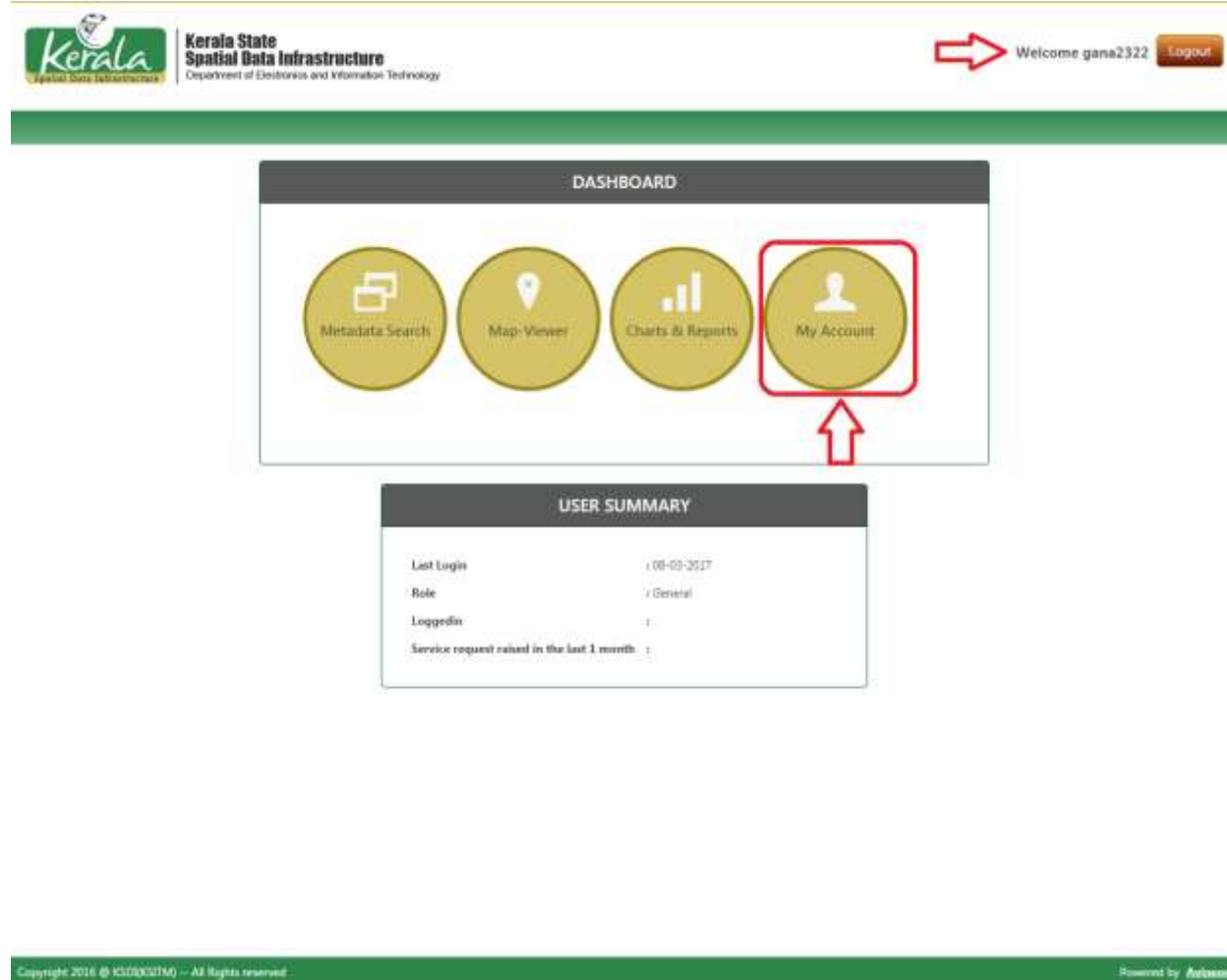



Figure 160: My Account Selection Page

1. Please follow the path Home→My Account, on clicking, it displays a new window, where the user can update his/her personal information and click on the 'Update', button to update the details as shown in the **Figure 161**
2. On clicking the second option of My Account, we find Change Password sub feature, where the user can change the existing password



**Kerala State
Spatial Data Infrastructure**
Department of Electronics and Information Technology

Welcome gana2322 [Logout](#)

HOME

MY ACCOUNT

SERVICE REQUEST

Dashboard

My Account

Change Password

Summary

Create

Idol

PERSONAL INFORMATION

First Name: *

Last Name: *

Email: *

Mobile: *

Hint Question: *

Hint Answer: *

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Figure 161: My Account Personal Information Page

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HOME **MY ACCOUNT** **SERVICE REQUEST**

[Dashboard](#) [My Account](#) [Change Password](#) [Summary](#) [Create](#) [Edit](#)

CHANGE PASSWORD

Current Password:

New Password:

Confirm Password:

[Change](#) [Reset](#)

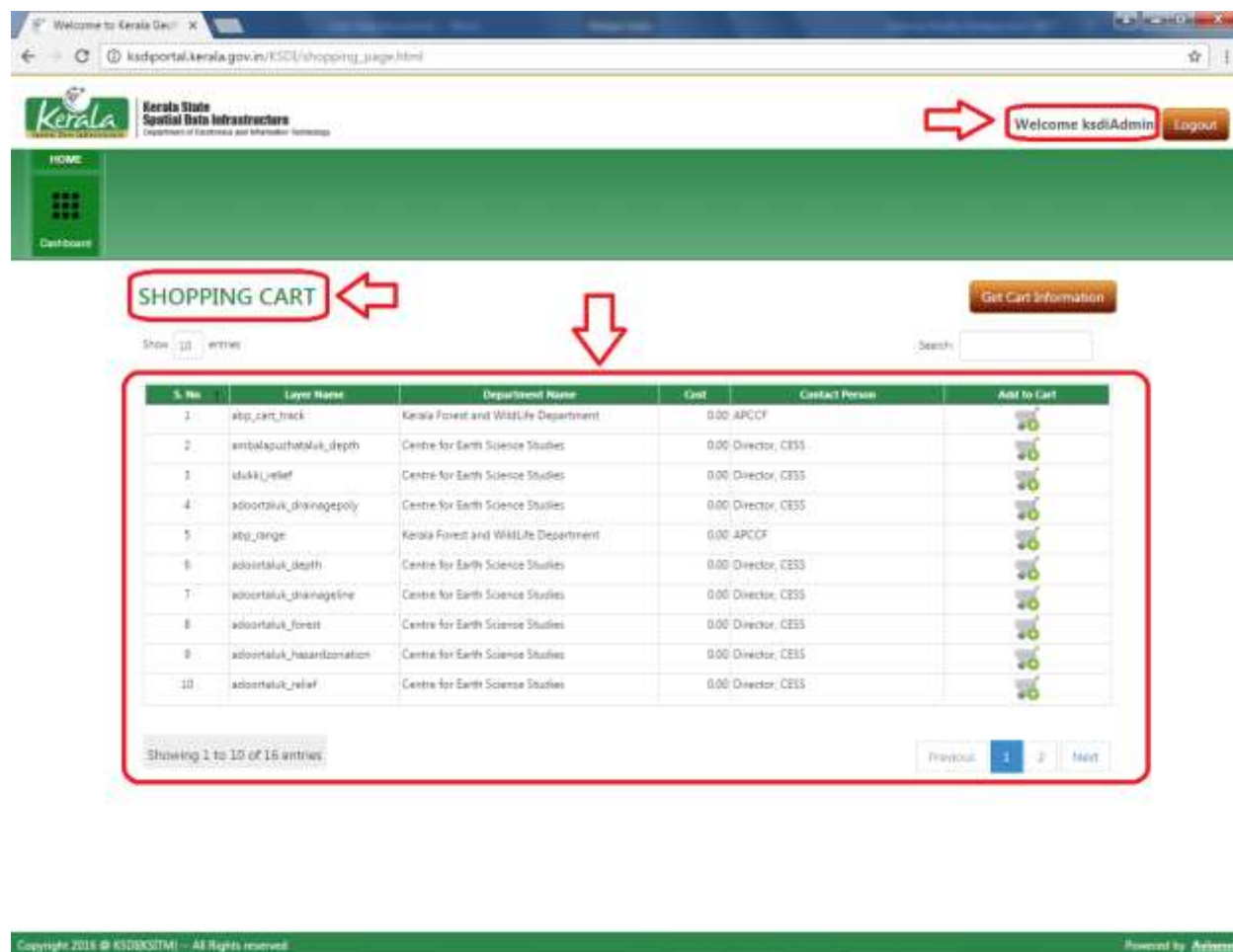
sdportal.kerala.gov.in/KSDI/ChangePassword.html Powered by: [Aryaman](#)

Figure 162: My Account (Change Password)

8. SHOPPING CART

This section helps Administrators to add shopping carts, and generate invoices for added Shopping Carts.

The following **Figure 163** shows the main page of 'Shopping Cart', in Administrator perspective.



Shopping Cart Main Page (Administrator)

S. No	Layer Name	Department Name	Cost	Contact Person	Add to Cart
1	atp_cart_track	Kerala Forest and Wildlife Department	0.00	APCCF	
2	ambalaputhathuk_depth	Centre for Earth Science Studies	0.00	Director, CESS	
3	idukki_relief	Centre for Earth Science Studies	0.00	Director, CESS	
4	adoortaluk_drainagepoly	Centre for Earth Science Studies	0.00	Director, CESS	
5	atp_range	Kerala Forest and Wildlife Department	0.00	APCCF	
6	adoortaluk_depth	Centre for Earth Science Studies	0.00	Director, CESS	
7	adoortaluk_drainageline	Centre for Earth Science Studies	0.00	Director, CESS	
8	adoortaluk_forest	Centre for Earth Science Studies	0.00	Director, CESS	
9	adoortaluk_hazardzonation	Centre for Earth Science Studies	0.00	Director, CESS	
10	adoortaluk_relief	Centre for Earth Science Studies	0.00	Director, CESS	

Showing 1 to 10 of 16 entries

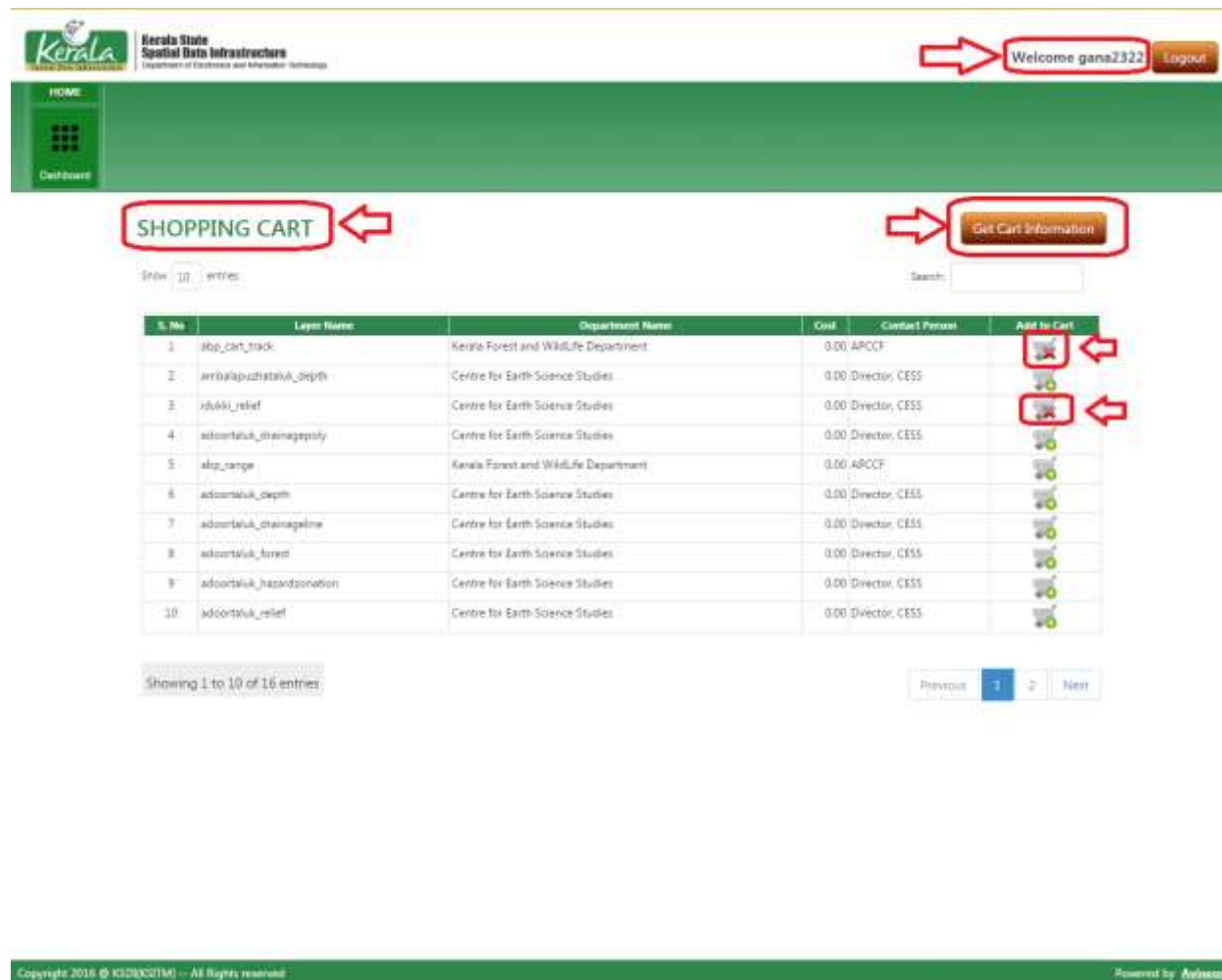
Figure 163: Shopping Cart Main Page (Administrator)

1. The above figure displays the data of 'admin', which consists of the existing shopping carts with their details such as layer name, department name, and cost, contact person of the department, and an option to a Cart.

8.1. Generating Invoice of Shopping Cart (Department Users)

Department users can view the list of Shopping Carts that were allowed access by Administrator and select the Shopping Carts to purchase and generate invoices accordingly.

The following **Figure 164**, **Figure 165**, **Figure 166** shows the process of viewing and generating invoices for selected Shopping Carts from the list.



Shopping Cart

Show 10 entries

S. No	Layer Name	Department Name	Cost	Contact Person	Add to Cart
1	abp_cart_track	Kerala Forest and Wildlife Department	0.00	APCCF	
2	arribalapuzhathala_deepthi	Centre for Earth Science Studies	0.00	Director, CESS	
3	idukki_relief	Centre for Earth Science Studies	0.00	Director, CESS	
4	adcoortMuk_stainagepoly	Centre for Earth Science Studies	0.00	Director, CESS	
5	abp_range	Kerala Forest and Wildlife Department	0.00	APCCF	
6	adcoortMuk_deepthi	Centre for Earth Science Studies	0.00	Director, CESS	
7	adcoortMuk_chainageline	Centre for Earth Science Studies	0.00	Director, CESS	
8	adcoortMuk_forest	Centre for Earth Science Studies	0.00	Director, CESS	
9	adcoortMuk_hazardzonation	Centre for Earth Science Studies	0.00	Director, CESS	
10	adcoortMuk_relief	Centre for Earth Science Studies	0.00	Director, CESS	

Showing 1 to 10 of 16 entries

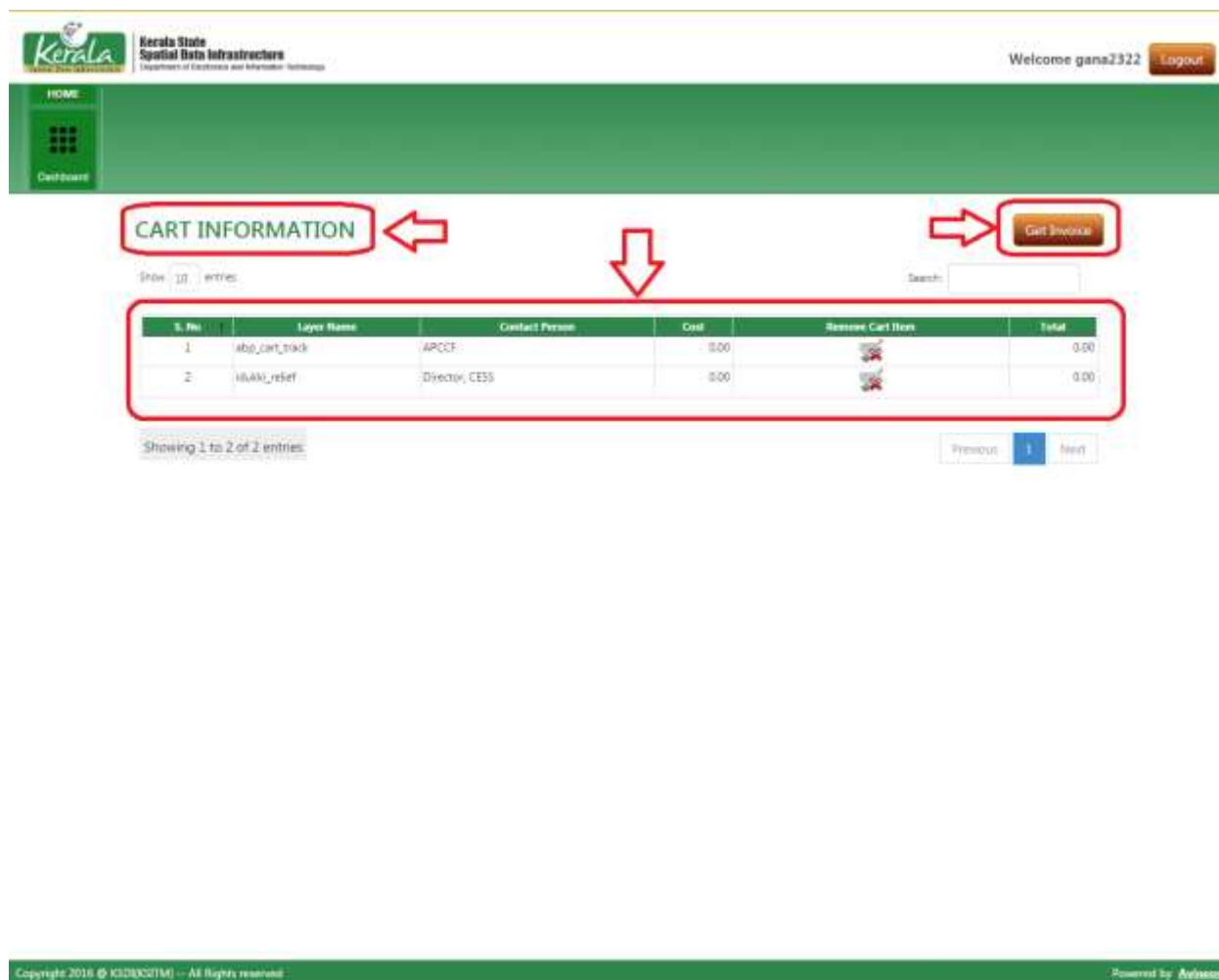
Previous 1 2 Next

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Figure 164: View of list of Shopping Carts

1. Login as 'gssuser', and click on Shopping Cart, now select the Shopping Carts you want to purchase/order
2. After selecting, please click on 'Get Cart Information', button it redirects to the next screen as shown in the **Figure 165**



HOME
Dashboard

Kerala State Spatial Data Infrastructure
Department of Electronics and Information Technology

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CART INFORMATION

Show 10 entries

S. No	Layer Name	Contact Person	Cost	Remove Cart Item	Total
1	abp_cart_track	APCCF	0.00		0.00
2	IBAM_refef	Director, CESS	0.00		0.00

Showing 1 to 2 of 2 entries

[Previous](#) [1](#) [Next](#)


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Figure 165: Cart Information


1. It displays the selected list of Shopping Carts, as shown in the above figure, now please click on 'Generate Invoice', button, it redirects to the next screen as shown in the **Figure 166**, where it displays the final invoice of the selected Shopping Carts.

Dashboard
Print



**Kerala State
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Department of Electronics and Information Technology



To
The Director
KSDI-KSITM
Vellayambalam, Thiruvananthapuram
Tel: 0471 2314307, 2318007

Invoice Date:08/03/2017
Delivery Date:08/03/2017

S. No	Layer Name	Department Owner	Cost
1	shy_cwt_180d	ARCCF	0.00
2	lokki_relief	Director, CESS	0.00

Total Layer Cost :0.00
VAT :0.00
Delivery Charges :0.00
Total Amount :0.00

Note:
 1. Enter this order in accordance with the price, terms, delivery method and specification listed above.
 2. Please notify us immediately if you are unable to ship as specified.
 3. Late delivery will be subject to cancellation.

Prepared By

Approved By

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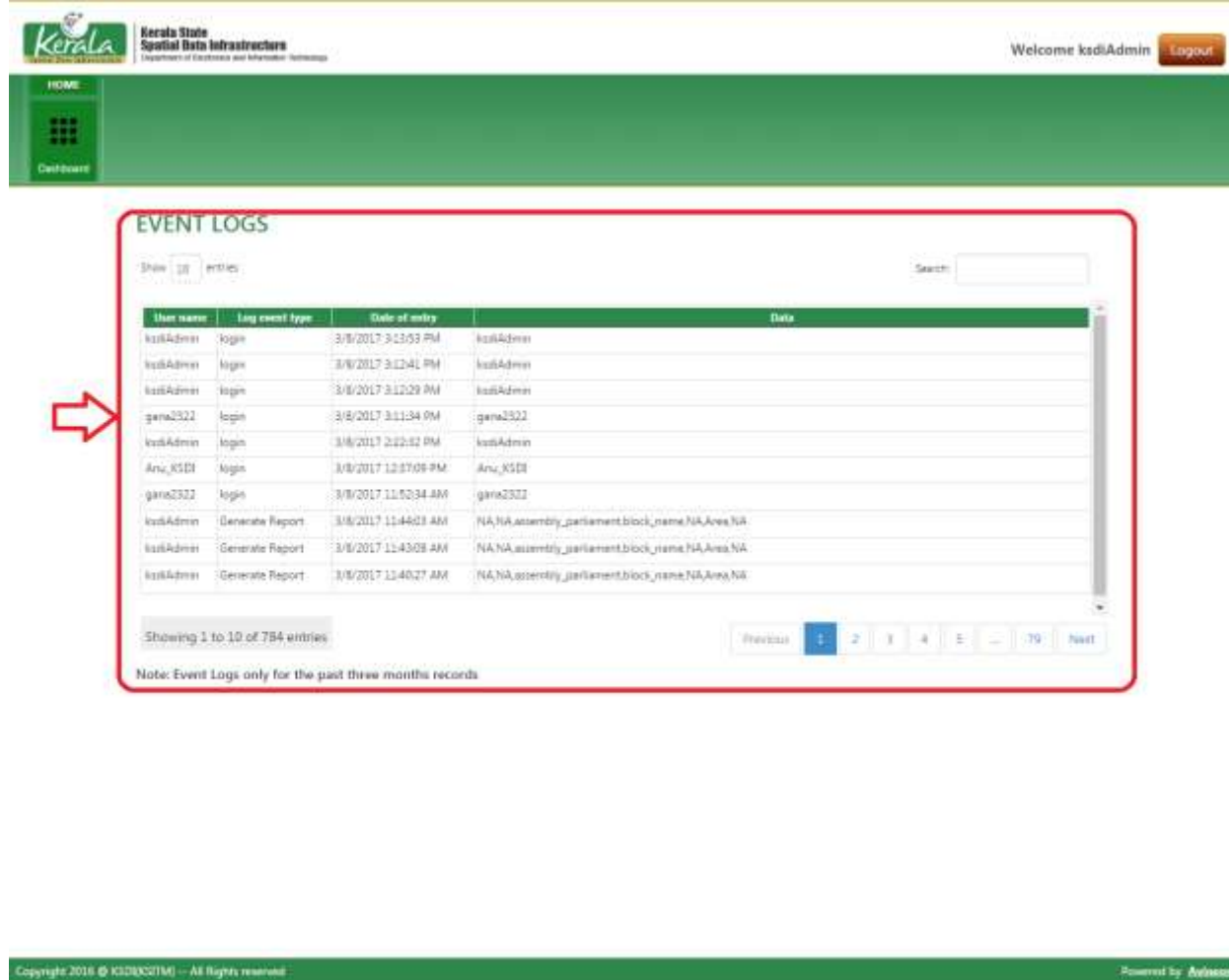
Powered by **Adimoon**

Figure 166: Cart Invoice

9. EVENT LOGS

The Administrator can monitor/see who are the users are logged into the developed application.

The following **Figure 167** displays the main page of UKSDI Event Logs in ‘Administrator’, user perspective.



EVENT LOGS

Show 10 entries Search

User name	Log event type	Date of entry	Data
ksdAdmin	login	3/8/2017 3:13:53 PM	ksdAdmin
ksdAdmin	login	3/8/2017 3:12:41 PM	ksdAdmin
ksdAdmin	login	3/8/2017 3:12:29 PM	ksdAdmin
gene2322	login	3/8/2017 3:11:34 PM	gene2322
ksdAdmin	login	3/8/2017 3:02:52 PM	ksdAdmin
Anu_KSDI	login	3/8/2017 12:57:09 PM	Anu_KSDI
gene2322	login	3/8/2017 11:52:34 AM	gene2322
ksdAdmin	Generate Report	3/8/2017 11:46:03 AM	NA,NA,assembly_parliament.block_name,NA,Area,NA
ksdAdmin	Generate Report	3/8/2017 11:43:03 AM	NA,NA,assembly_parliament.block_name,NA,Area,NA
ksdAdmin	Generate Report	3/8/2017 11:40:27 AM	NA,NA,assembly_parliament.block_name,NA,Area,NA

Showing 1 to 10 of 784 entries

Previous 1 2 3 4 5 ... 79 Next

Note: Event Logs only for the past three months records

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Figure 167: KSDI Event Logs Main Page

1. Please follow the path Home → Event Logs, as shown in the **Figure 167**.