



Dr. SURESH FRANCIS, SCIENTIST, KSREC



Participatory Mapping



GRAMAM

**GRAss Root Level MAppling and
Monitoring system**

GRAMAM

(3 unread) - sureshfrancis@yahoo.com Gramam Not secure | ksrec.in/gramam/ Suggested Sites Upcoming Confere... Elsevier Editorial Sy... 404 Page Not Found Geospatial Server D... Kerala Government... Unidata | Data Avail... open source gis: To... Thumbnail gallery... Other bookmarks John Doe

Gramam

FILTERS

Select District

MENU

Applications

About

Layers

Socio Economic Survey
Count :709

Waste Estimator
Count :107

Plot Locator
Count :138

Land Survey
Count :103

WellLog
Count :364

River / Stream / Waterbody
Count :27

Recreational
Count :1

Water Utilities
Count :0

Power & Energy
Count :0

TeleCommunication
Count :0

DamageMapper
Count :2

ChallengeMapper
Count :0

Project Description

GRAMAM

The name **GRAMAM** is the abbreviation of the GRAss Root Level MAPPING and Monitoring system. It is an End to End mapping solution which helps converting the entire Grass Root Level information into the Digital platform. The application is based on the Mobile and Web GIS Technologies which helps to Map information at plot level to the ward to Panchayat to Block to District and finally to the State. It is capable of acquiring information in the Private and Public segments in the Private Segment the information at house hold or institution level is taken and in Public Segment all the public assets can be mapped. The mapping platform covers Socio Economics to Natural Resources to waste to Utilities to Infrastructure to Challenges etc.

Building Survey

Land Survey

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EN English (United States) ? Help

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1. Building Survey

Socio Economic & Asset Survey

- Covers all Socio-Economic details and the asset details of the building under Survey in the Private Segment.

5454 volunteers

Waste Estimator

- Helps Mapping the Waste Generation and related details of the plot.

Socio Economic

GENERAL

Select District



OWNERSHIP

All

ASSETTYPE

All

FINANCIAL STATUS

All

RELICION & CASTE

All

HAVE / NOT
Solar

All

Water

Gas

All

Internet

RationCard

All

Insurance

Secured

All

House

Secured

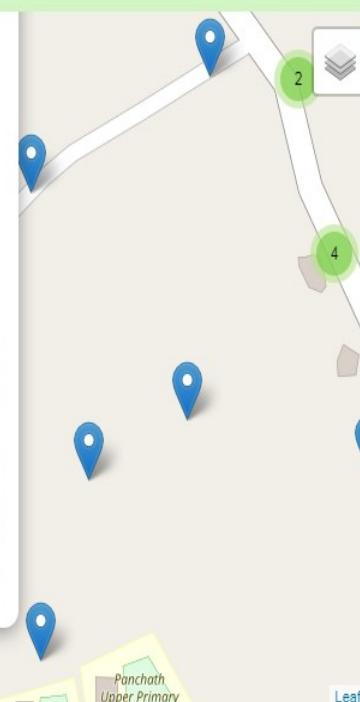
All

Count :714

Count - Filter :714

• Reset

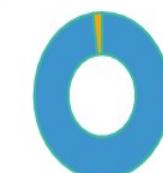
Owner	: KRISHNAN
Property type	: Private
District	: 01:Thiruvananthapuram
Localbody	: Grama Panchayat
Block/Municipality	: 05:Vellanalad
Panchayath	: 01:Aryanad
Ward	: 17,parandode
Survey No.(Old # New)	: 199/6-2#199/6-2
Asset Type	: STAY # സ്റ്റേജ്
Name	:
Type	: STAY



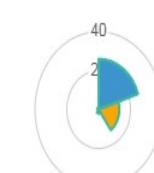
District wise Survey



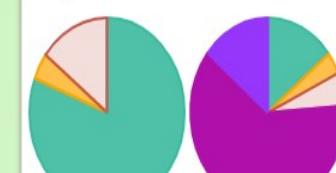
Private / Public



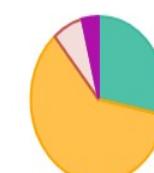
Asset wise Chart



Religion and Caste



Financial Status



Land Survey

Plot Locator

- Helps to map plot measurements.

Land Survey

- Helps Mapping the Land Use and related details of the plot.

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Not secure | ksrec.in/gramam1/index.php/usercontroller/view/LandSurveyPage

Select District: All

OWNERSHIP

All

LAND OWNERSHIP

All

LAND TYPE

All

LAND USE TYPE

All

100% of total

Assets on Map

Owner: AMBILI
 District: 01:Thiruvananthapuram
 Localbody: Grama Panchayat
 Block/Municipality: 05:Vellanad
 Panchayath: 01:Araynad
 Ward: 14:kottakkakom
 Survey No.(Old # New): 24/8-#24/8-2
 Land Ownership: all
 Land Status: all
 LandUse Type: കൃഷി
 LandUse Subtype: -- കൃഷിഗ്രാമം --

Karamana River

Leaflet

Land Use Type: [Search bar]

District wise Survey

District	Value
Thiruvananthapuram	100
Kollam	5
Pathanamthitta	5
Alappuzha	5
Kottayam	5
Idukki	5
Ernakulam	5
Thrissur	5
Palakkad	5
Malappuram	5
Kozhikode	5
Wayanad	5
Kannur	5
Kasaragod	5

Asset Count-District wise

Ownership

Land Ownership Type

Architecture-of-th....png

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Water Survey

WellLog

Helps to survey well details
2272 volunteers

River / Stream / WaterBody

Helps Mapping the River,
Stream and Water Bodies

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Not secure | ksrec.in/welllog/index.php/Hydro/Asset_Display

Suggested Sites Upcoming Confere... Elsevier Editorial Sy... 404 Page Not Found Geospatial Server D... Kerala Government... Unidata | Data Avail... open source gis: To... Thumbnail gallery... Other bookmarks

WELL LOG Hydrogeology Survey Portal

Kerala State Remote Sensing & Environment Centre KSREC

Map Satellite Thiruvananthapuram Krishna Temple

Owner Name: Baiju
Ward Name: Pandakasala
Drought Status:
Minimum Water level(in Meter): 65
Maximum Water level (in Meter): 75
Water Pollution: no

Count : 34758

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directorsrec@yahoo.in

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Recreation Survey

Stadium and Playground

**Helps to survey and map
Recreational facilities**



Sports GIS

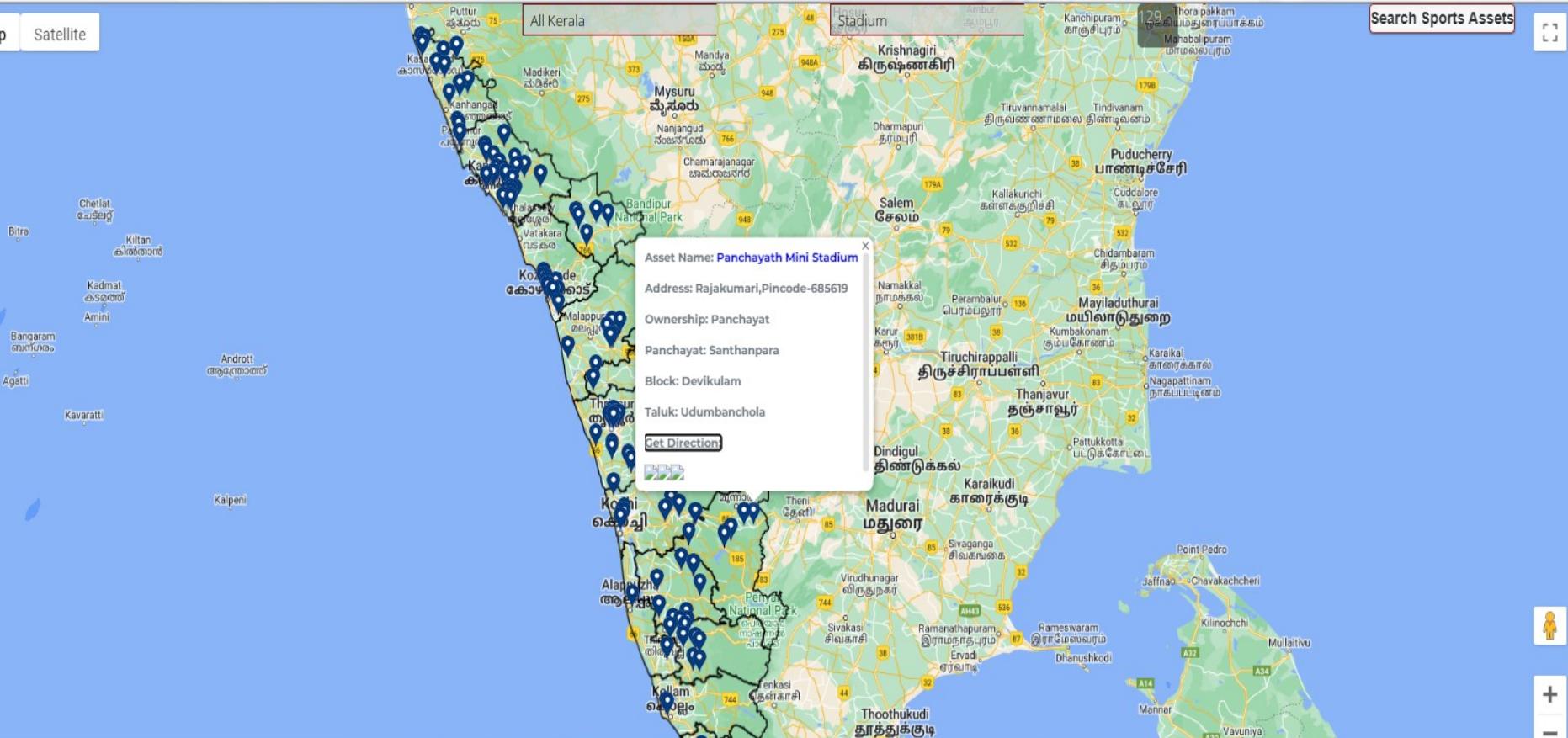


Search Sports Assets

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Map Satellite

Satellite



<https://www.google.com/maps/dir/Current+location/9.971556,77.179806>

0471 - 2327271, 2326644

 dsvaenk@gmail.com

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Show all

x

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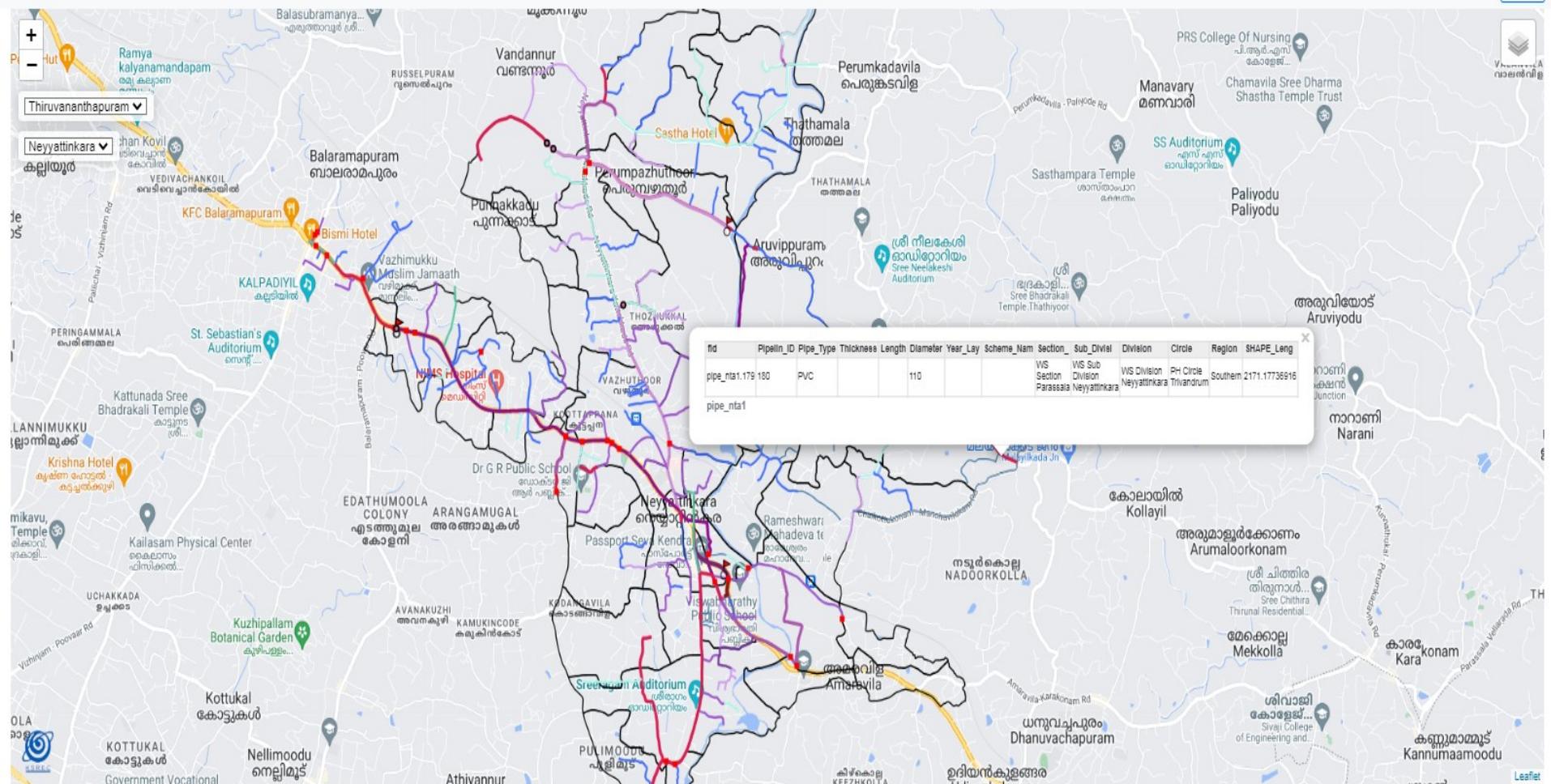
Utilities Survey

6.1. Water Utilities

- Helps mapping of KWA / KRWSA / Others water supply based assets
- 6.2. Power & Energy
- Helps mapping of KSEB / Solar / Others Sources
- 6.3. Telecommunication
- Helps mapping of BSNL / Other Telecommunication networks

Neyyattinkara Municipal Water Supply System

Login



Public Infrastructure Survey

- **4.1.Transportation**

Helps mapping the road/rail/water/air based transportation hubs and networks

5009 volunteers

- **4.2. Culvert / Bridge**

Helps Mapping the types of Culvert/Bridges.

- **4.3.Drainage**

Helps mapping drainage networks

- **4.4. Protection Wall**

Helps Mapping protection walls



LSGD Selection

Select LSGD >

Assets

Road Survey >

> Road Name/ ID >

> Surface Type >

> Road Width (M) >

> Carriage Width >

> Road Formation Width >

Go

Junction Survey >

Drainages Survey >

Culvert/ Bridge Survey >



Total Survey

28389



Total KMs

8459.01



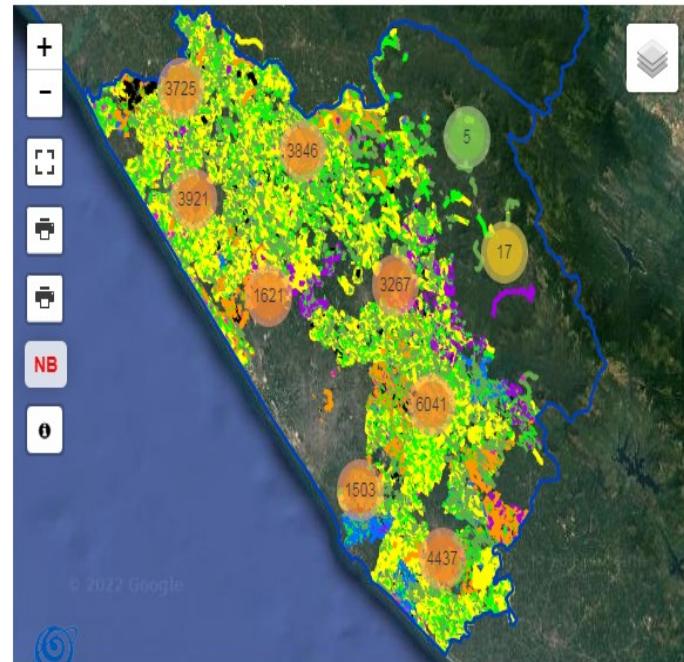
Today's Survey Count

0

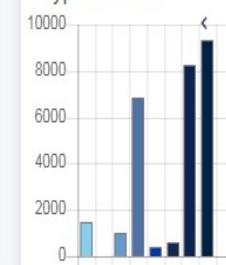


Total Surveyors

510



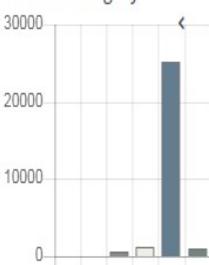
Type of Surface



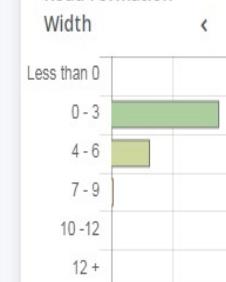
Road Type



Road Category



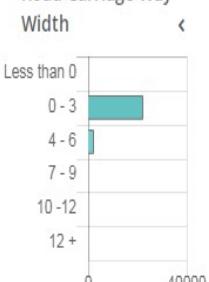
Road Formation Width



Road Land Width



Road Carriage Way Width



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Show all



Challenges Survey

- **7.1.Challenge Mapper**
- **Helps to survey the Natural Challenges like flood, landslides, lightning, well collapse etc. and Manmade Challenges like pollution, crime, diseases, social etc.**

- **7.2.Damage Mapper**
- **Helps to survey and map the Loss to Man, Animals, Asset, Agriculture etc. due to Floods and Landslides**

DamageMapper

District Alappuzha



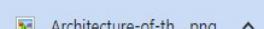
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Show all

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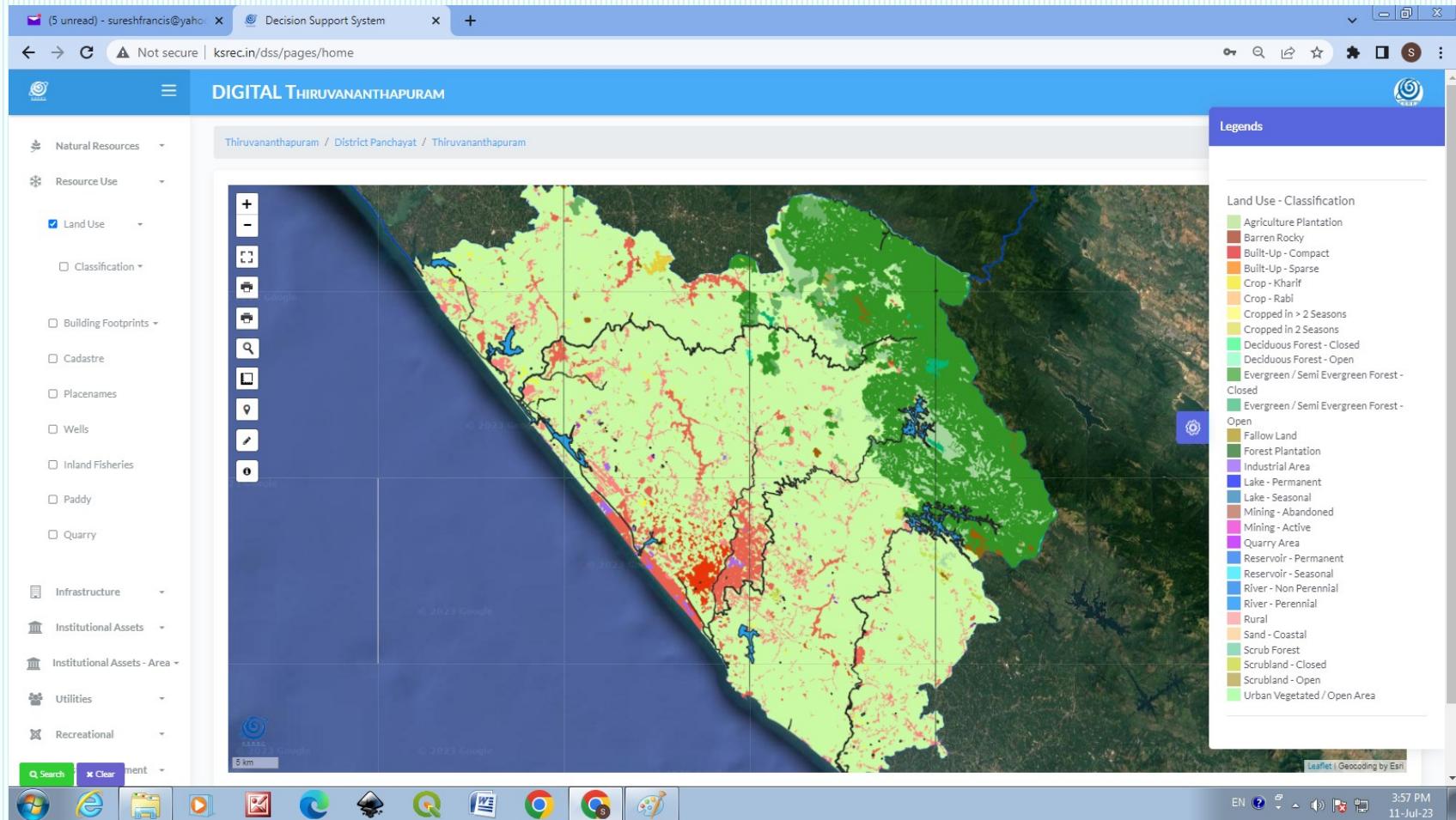


8. Miscellaneous Survey

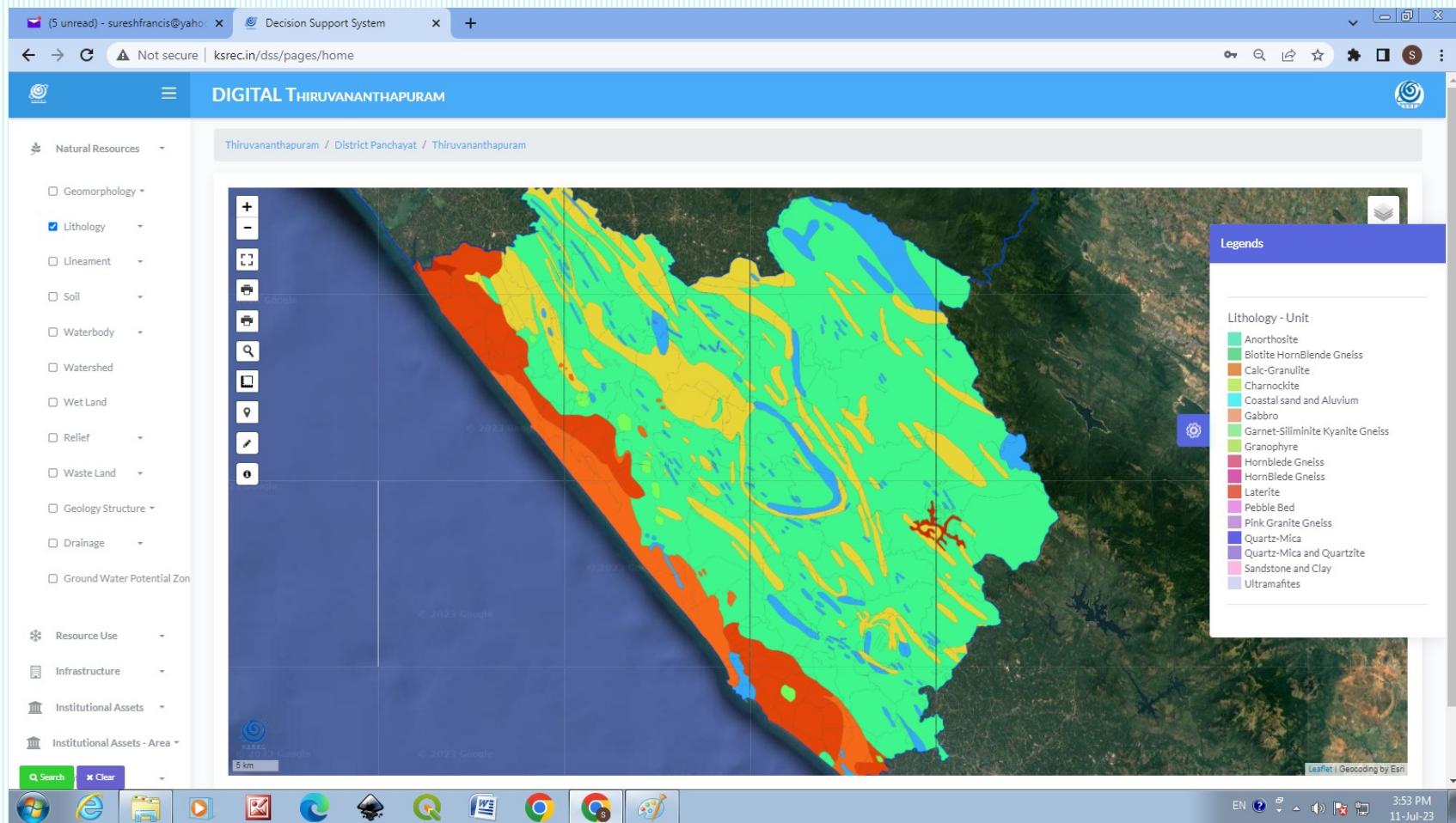
- 8.1. Electoral Survey
- Helps to survey the Polling stations and their catchments.
- 8.2. Area Of Interest
- Helps to survey and map the Archaeology, Tourism, Religious and Recreational etc.
- 8.3. Other
- Helps to survey and map any missing details

GEOSPATIAL DECISION SUPPORT SYSTEM

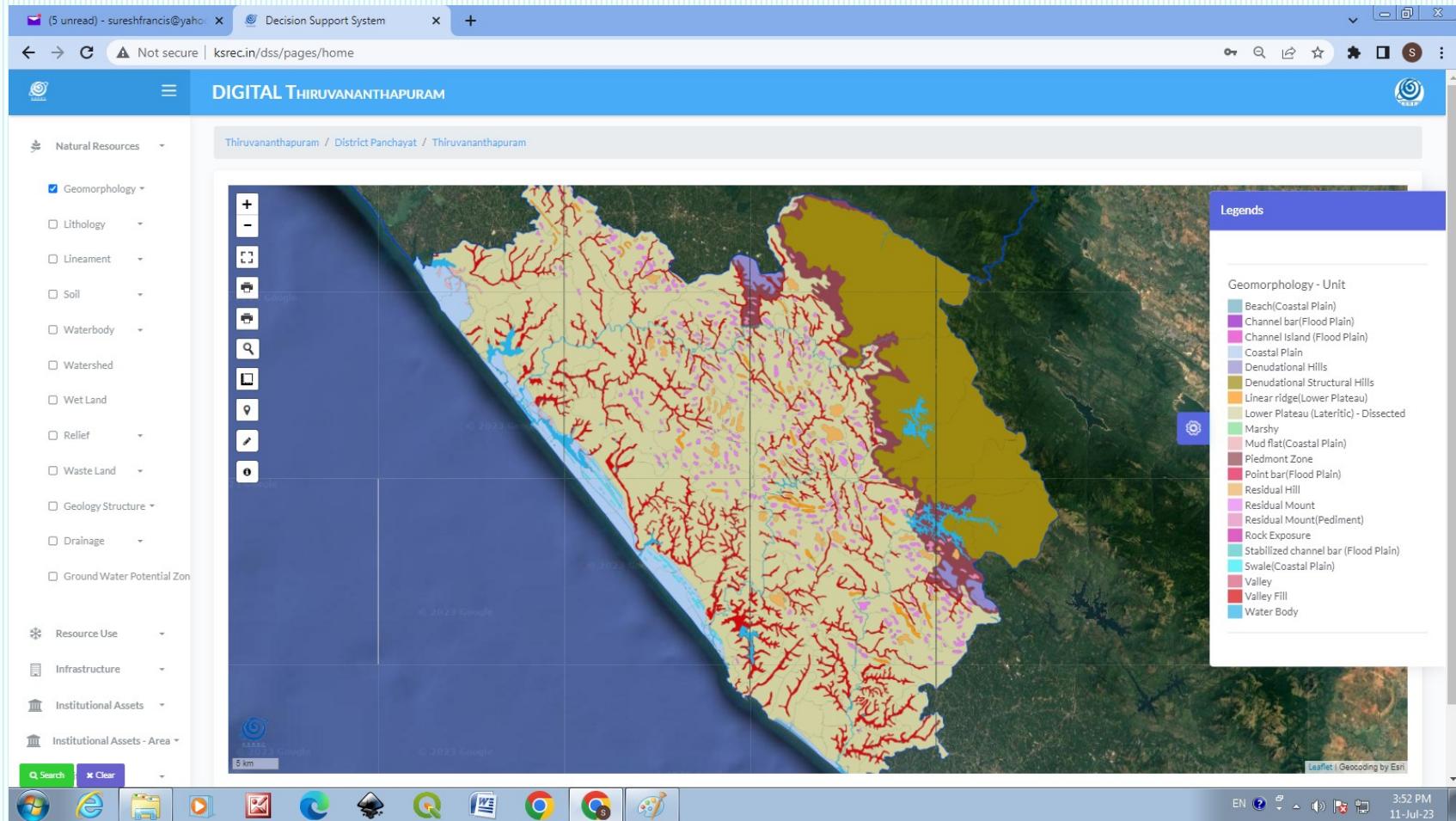
Land Use



Lithology



Geomorphology



Query Analysis Valley fills

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DIGITAL THIRUVANANTHAPURAM

Thiruvananthapuram / District Panchayat / Thiruvananthapuram

Natural Resources

Geomorphology

Units

- All
- Beach(Coastal Plain)
- Channel bar(Flood Plain)
- Coastal Plain
- Denudational Structural Hills
- Linear ridge(Lower Plateau)
- Lower Plateau (Lateritic) - Dissected
- Mud flat(Coastal Plain)
- Piedmont Zone
- Residual Hill
- Residual Mount
- Residual Mount(Pediment)
- Rock Exposure
- Swale(Coastal Plain)
- Valley Fill
- Water body

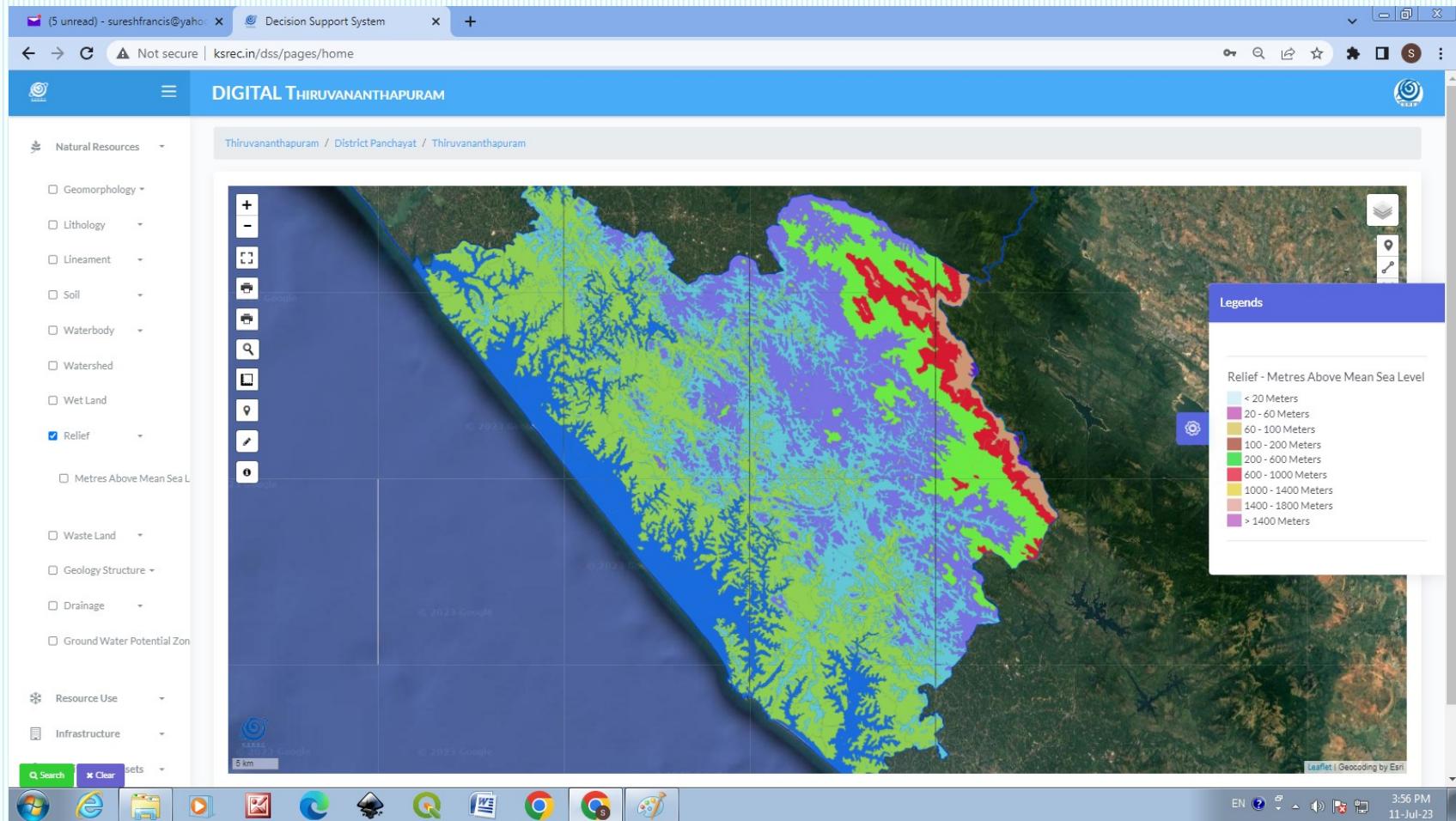
Lithology

Search Clear

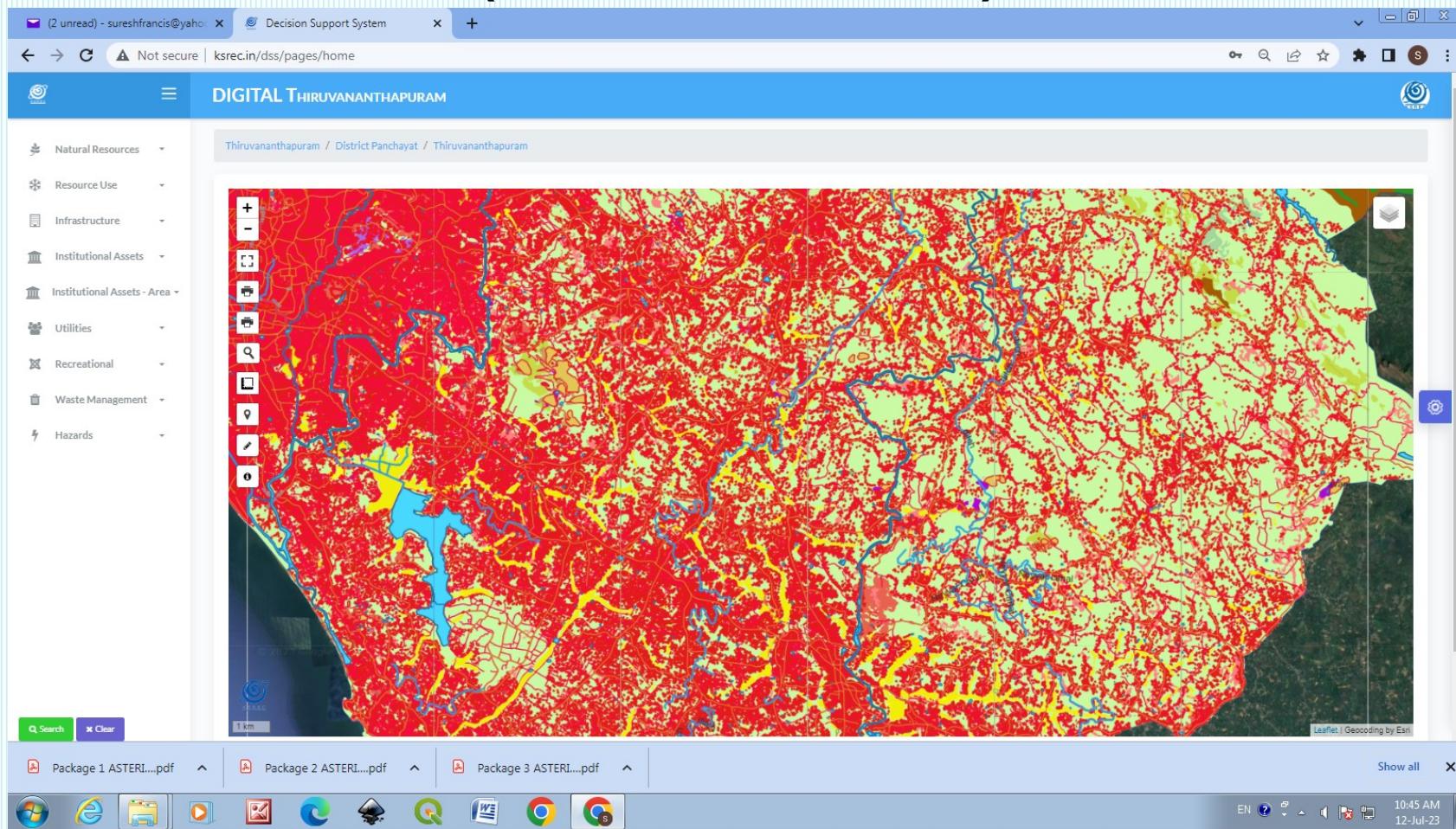
5 km Leaflet | Geocoding by Esri

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Relief



Overlay of Landuse, Building footprints, Paddy, Quarry, Waterbody and Canals (Landuse 5000)



Roads

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DIGITAL THIRUVANANTHAPURAM

Thiruvananthapuram / District Panchayat / Thiruvananthapuram

Natural Resources
Resource Use
Infrastructure
 Roads
 Road 5K
Road Amenities
Rail
Dams
Water Structure
Canals
Institutional Assets
Institutional Assets - Area
Utilities
Recreational
Waste Management
Hazards

Search Clear



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1 km

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Building footprints

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DIGITAL THIRUVANANTHAPURAM

Thiruvananthapuram / District Panchayat / Thiruvananthapuram

Natural Resources ▾

- Land Use
- Building Footprints
- Building type

Resource Use ▾

Cadastre

Placenames

Wells

Inland Fisheries

Paddy

Quarry

Infrastructure ▾

Institutional Assets ▾

Institutional Assets - Area ▾

Utilities

Recreational

Search Clear

3 km

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Leaflet | Geocoding by Esri

The screenshot shows a digital map interface titled "DIGITAL THIRUVANANTHAPURAM". The main view displays a satellite map of Thiruvananthapuram, with building footprints highlighted in red. A legend on the left indicates that the red color represents "Building Footprints". Other categories listed in the legend include Natural Resources, Resource Use, Cadastre, Placenames, Wells, Inland Fisheries, Paddy, Quarry, Infrastructure, Institutional Assets, Institutional Assets - Area, Utilities, and Recreational. The map also features a scale bar (3 km), copyright information ("© 2023 Google"), and a credit line ("Leaflet | Geocoding by Esri"). The interface has a blue header with tabs for "Decision Support System" and other browser controls. The bottom of the screen shows the Windows taskbar with various icons and system status.

Building foot prints zoomed

Screenshot of a web-based Decision Support System (DSS) showing a map of Thiruvananthapuram, Kerala, with building footprints highlighted in red.

The map displays a dense urban area with numerous buildings outlined in red. The map includes a legend on the left side and various tools for zooming, panning, and geolocation on the right side. A scale bar indicates 200 m.

Map details:

- Thiruvananthapuram / District Panchayat / Thiruvananthapuram
- Leaflet | Geocoding by Esri

Map controls:

- Zoom (+/-)
- Orientation (North arrow)
- Scale (200 m)
- Geolocation (GPS icon)
- Search (magnifying glass)
- Print (document icon)
- Save (disk icon)
- Help (question mark)
- Settings (gear icon)

Legend (left sidebar):

- Natural Resources
- Resource Use
- Land Use
- Building Footprints
- Building type
- Cadastre
- Placenames
- Wells
- Inland Fisheries
- Paddy
- Quarry
- Infrastructure
- Institutional Assets
- Institutional Assets - Area
- Utilities
- Recreational

Bottom navigation bar:

- Search
- Clear
- Home
- File
- Help
- 4:00 PM
- 11-Jul-23

Schools

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Not secure | ksrec.in/dss/pages/home

DIGITAL THIRUVANANTHAPURAM

Thiruvananthapuram / District Panchayat / Thiruvananthapuram

Natural Resources
Resource Use
Infrastructure
Institutional Assets
Akshaya Centres
 Schools
Govt Hospitals
Private Hospitals
Dairy Offices
Ambulance Station
ATM
Banks
Bar
Bus Stop
College
Crematorium
Driving School
Fire Hydrants

Search

EN 4:06 PM 11-Jul-23

Watershed

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DIGITAL KOLLAM

Kollam / District Panchayat / Kollam

Natural Resources ▾

- Geomorphology
- Lithology
- Lineament
- Soil
- Waterbody
- Watershed
- Wet Land
- Relief
- Waste Land
- Geology Structure
- Drainage
- Ground Water Potential Zon

Resource Use ▾

- Infrastructure
- Institutional Assets
- Institutional Assets - Area

Search

WATERSHED MAP

Map controls: +, -, zoom, search, location, edit, info, settings.

Map details: © 2023 Google, 10 km scale bar.

Map features: A blue polygon outlines the Kallada watershed area, which is overlaid on a satellite image of the Kollam district. The watershed is divided into numerous colored polygons representing different sub-watershed units.

Information window (WSCODE : TK14h, WSNAME : KALLADA, Shape Length : 0.270604445854, FID_LSG_Us : 225, District : Kollam, Panchayath : Thenmala, Code : Anchal, Block : Anchal, Municipality : ---, Panchayath : G020502, Code : ---, District Code : A020000, Dx : 76.871884, Dy : 8.962388)

Leaflet | Geocoding by Esri

Cadastre

Cadastre Zoom

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DIGITAL THIRUVANANTHAPURAM

Thiruvananthapuram / District Panchayat / Thiruvananthapuram

Natural Resources ▾

- Cadastre
- Placenames
- Wells
- Inland Fisheries
- Paddy
- Quarry

Resource Use ▾

- Land Use
- Building Footprints

Infrastructure ▾

- Institutional Assets
- Institutional Assets - Area
- Utilities
- Recreational
- Waste Management
- Hazards

+

Search Clear

300 m

Leaflet Geocoding by Esri

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KWA Pipe lines, Valves, Tanks, Pumps etc.

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DIGITAL THIRUVANANTHAPURAM

Thiruvananthapuram / District Panchayat / Thiruvananthapuram

Infrastructure

Institutional Assets

Institutional Assets - Area

Utilities

Power

Water Supply

KWA Valves

KWA Pump House

KWA Pipe Line

KWA Motors

KWA Tanks

KWA Buildings

KWA Wells

Recreational

Waste Management

Hazards

Search Clear

5 km

Leaflet | Geocoding by Esri

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Banks

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DIGITAL THIRUVANANTHAPURAM

Thiruvananthapuram / District Panchayat / Thiruvananthapuram

+ -

Brand Bar Bus Stop College Crematorium Driving School Fire Hydrants Fire Station Government Offices Graveyard Highway service Hotels Industrial Kindergarten Library Police Park Post Office

Clear

Search

5 km

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Leaflet | Geocoding by Esri

The map displays a dense concentration of bank locations across the city, with labels for many specific branches and their names. Some of the labeled banks include:

- Rajendran Bankers
- State Bank of India Federal Bank
- Union Bank of India
- Muthoot Finance
- Kerala Gramin Bank
- Vithura Service Co-operative Bank
- Muthoot Indian Bank Tholicode
- Anad Service Co-operative Bank
- Chandalakshmi Bank
- Chinchinadu Service Cooperative Bank
- Syayath Finance
- Kerala Gramin Bank Syndicate Bank
- India Bank
- Co-operative Society
- State Bank of India
- Muthoot Fincorp
- State Bank of India Payed
- Syndicate Bank Cooperative Bank
- Corporation Bank
- Populace Finance
- Bank of India
- SBI ATM
- SBI Bank
- Vijaya Bank
- Yatra Bank
- Federal Bank
- State Bank of India Muthoot
- Syndicate Bank
- Kerala Gramin Bank
- Eden Small Finance Bank
- State Bank of India
- Canara Bank
- Vathika Co-operative Bank
- Aami Finance Puthiyathura

Recreational -School Grounds

Post office

(5 unread) - sureshfrancis@yahoo.com X Decision Support System X +

Not secure | ksrec.in/dss/pages/home

DIGITAL KOLLAM

Kollam / District Panchayat / Kollam

+ -

Kindergarten
Library
Police
Park
 Post Office
Prison
Pub
Public Toilets
Ration Shop
Shelter
Town Hall
University

Institutional Assets - Area
Utilities
Recreational
Waste Management
Hazards

Search Clear

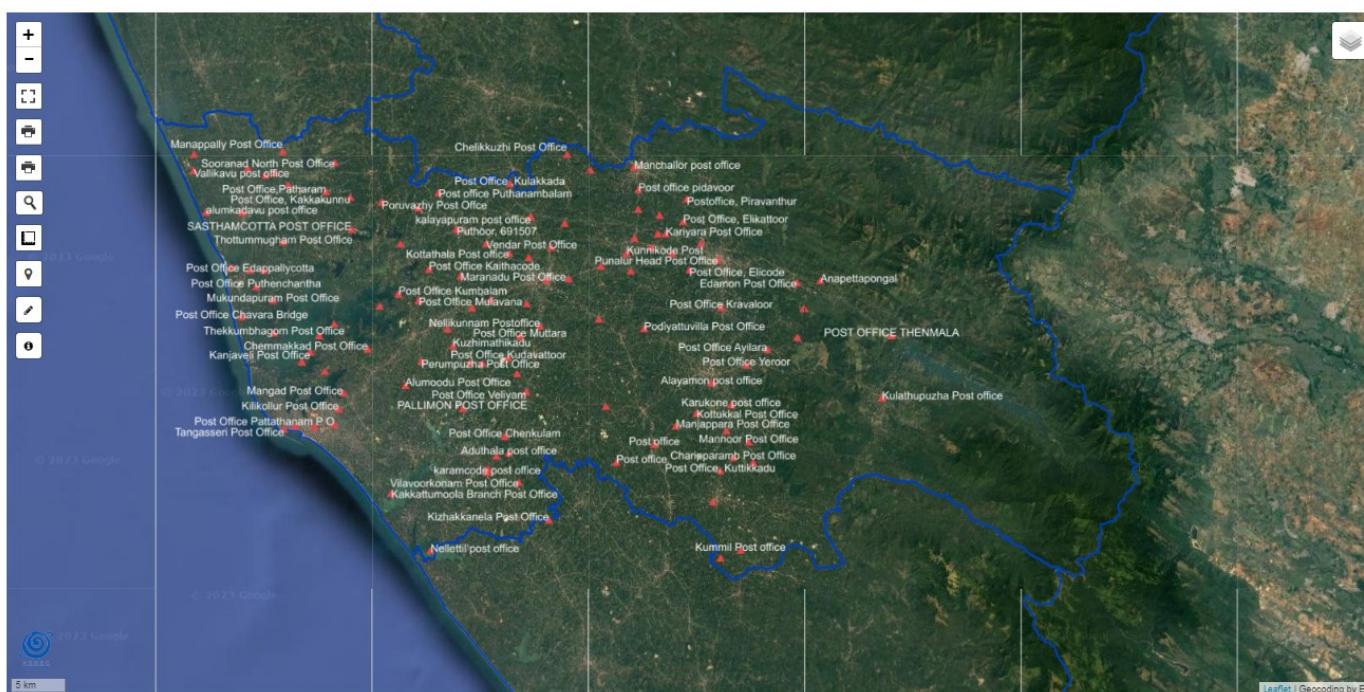
Manappally Post Office
Sooranad North Post Office
Valkkunnam post office
SASTHAMCOTTA POST OFFICE
Thottumukkham Post Office
Post Office Edappallycotta
Post Office Putthenchatha
Mukundapuram Post Office
Post Office Chavara Bridge
Thekkumbhagam Post Office
Chemmalakkad Post Office
Kanjavay Post Office
Mangad Post Office
Kilkollar Post Office
Post Office Pattathannam P.O.
Tangasser Post Office
Chellikuzhi Post Office
Post Office Kulakkada
Poruvazhy Post Office
Post office Puthamambalam
kalayapuran post office
Post office Puthoor 691507
Vayalar Post Office
Kottathala Post office
Post Office Kaittadco
Maranadu Post Office
Post Office Kumbalam
Post Offices Muvana
Nelliukunnam Postoffice
Post Office Mutara
Kuzhikulam Post office
Post Office Kuruvattoor
Perumpuzha Post Office
Alumoodu Post Office
Post Office Veliyam
PALLIMON POST OFFICE
Post Office Chemkulam
Aduthala post office
Vilavapokkunam Post Office
Kakkattumoola Branch Post Office
Kizhakkaneela Post Office
Nellittil post office
Kummill Post office

Chellikuzhi Post Office
Post Office Kulakkada
Poruvazhy Post Office
Post office Puthamambalam
kalayapuran post office
Post office Puthoor 691507
Vayalar Post Office
Kottathala Post office
Post Office Kaittadco
Maranadu Post Office
Post Office Kumbalam
Post Offices Muvana
Nelliukunnam Postoffice
Post Office Mutara
Kuzhikulam Post office
Post Office Kuruvattoor
Perumpuzha Post Office
Alumoodu Post Office
Post Office Veliyam
PALLIMON POST OFFICE
Post Office Chemkulam
Aduthala post office
Vilavapokkunam Post Office
Kakkattumoola Branch Post Office
Kizhakkaneela Post Office
Nellittil post office
Kummill Post office

Manchallor post office
Post office pidavor
Postoffice, Piravanthur
Post Office, Elikattoor
Karyara Post Office
Kannikode Post
Punalur Head Post office
Post Office, Elicode
Edamam Post Office
Post Office Kravaloor
Post Office Thenmala
Podiyattuvilla Post Office
Post Office Ayilara
Post Office Yeroor
Alayamon post office
Karukone post office
Kottukkal Post Office
Marlappara Post Office
Mannoor Post Office
Post office, Chirapparamp Post Office
Post Office, Kuttikkadu

5 km

Leaflet | Geocoding by Esri







THANK YOU