

GIS for Town Panchayat

Ponneri Town Pachayat,
Ponneri Taluk, Tiruvallur District, Tamil Nadu

User Manual

**Directorate of Town Panchayat
and
NIC-TNSC**

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GIS for Ponneri Town Panchayat

I. Introduction

Ponneri Town Panchayat Profile:

Located on the bank of Arani River in Thiruvallur District and 35 KM away from Chennai

Parliamentary Constituency	: Thiruvallur
Assembly constituency	: Ponneri
Taluk	: Ponneri
No. of Revenue villages	: 3 (Ponneri 1, Ponneri 2 and Chinnakavanam)
Population	: 31,025 (2011 census)
Density	: 3859
No. of wards	: 18
Area	: 8.04 Sq.Km.
No. of Households	: 7842
No. of assessment (MIS)	: 8180

Web based GIS for Ponneri Town Panchayat should enable the TP officials to leverage the GIS technology to do effective planning and administration, optimized utilization of resources, etc.. In view of this the present website is an attempt as a proof-of-concept to exhibit the advantages offered by the geo-spatial technologies for the Ponneri Town Panchayat in Tamil Nadu.

Outcome

- ❖ Identification of encroachments in map
- ❖ Identification of un-assessed properties
- ❖ Identification of under taxed properties
- ❖ Registration of complaints by Map / Online
- ❖ Online Map based Monitoring of utilities:
 - Water supply
 - Street lights
 - Public Toilets
 - Sanitation

II. Home Page

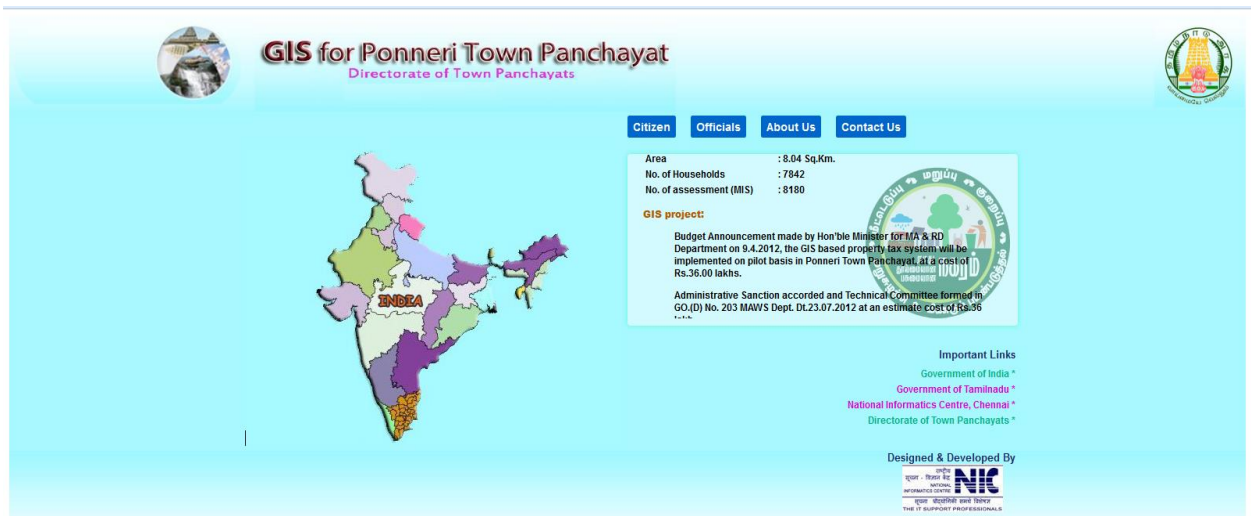


Fig 1: Home Page

This Application has 2 modules

- I. **Citizen** – Maps for General Public to view various spatial features and overlay them over various popular Web Maps like Google, OpenStreetMap etc.
- II. **Official** – Highly Interactive, analytical online maps with enriched GIS Functionalities for Town Panchayat Officials and Directorate of Town Panchayat Officials.

III. Citizen Interface

This is for General Public to view the Ponneri Interactive Online Maps which can be superimposed over online web Map Services(Google,Open Street Map etc)

Citizen Module has two options 1. View Maps 2. Complaints / Suggestions

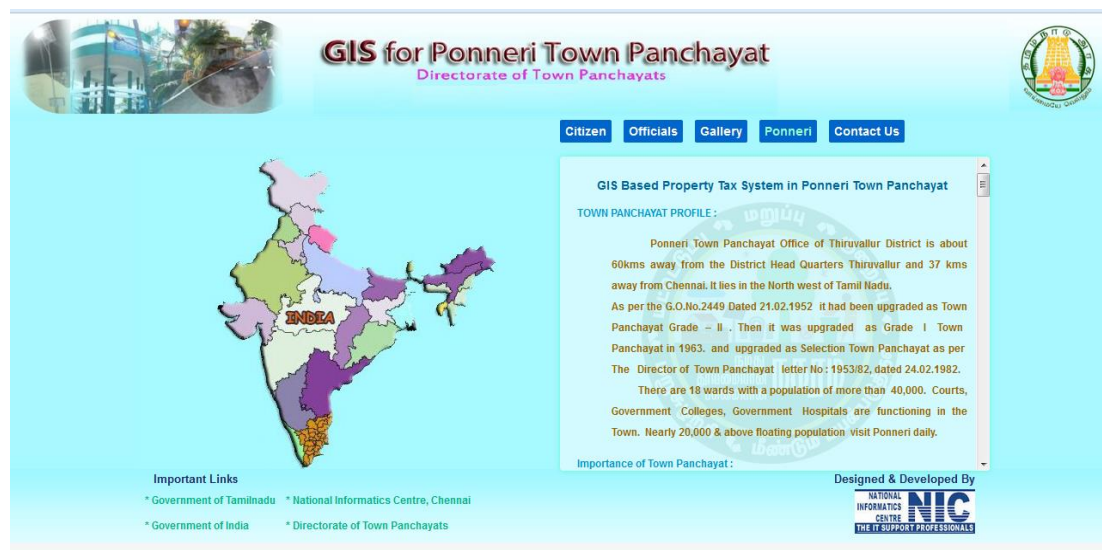


Fig 2: Citizen Interface

1. View Maps

Ward boundary with Google Hybrid map: User may choose any one of the base maps from left side tree view.

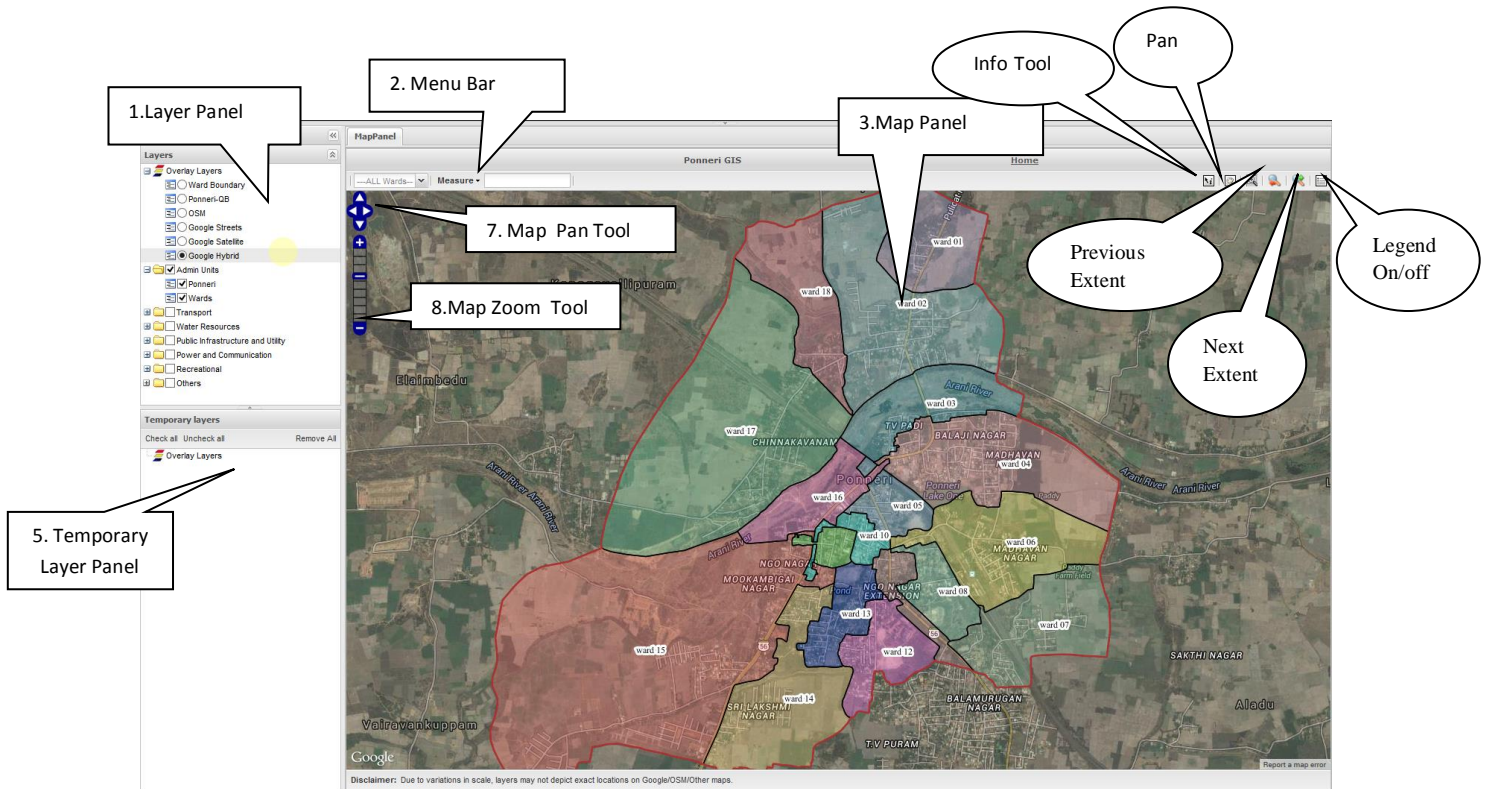


Fig 3: View Maps Page Layout

Ponneri Town Panchayat Ward Boundary as Base Map:-

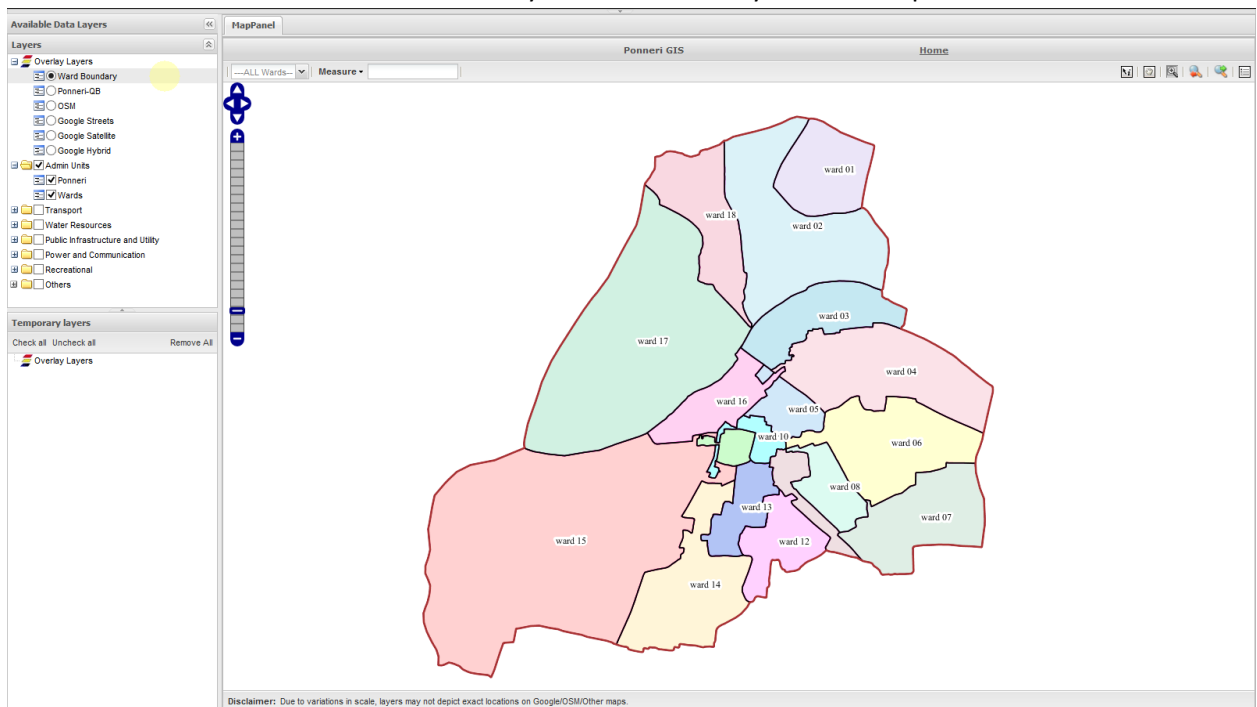


Fig 4: Selection of Base Maps

Ward Boundary with Open Street Map as base map in the background :

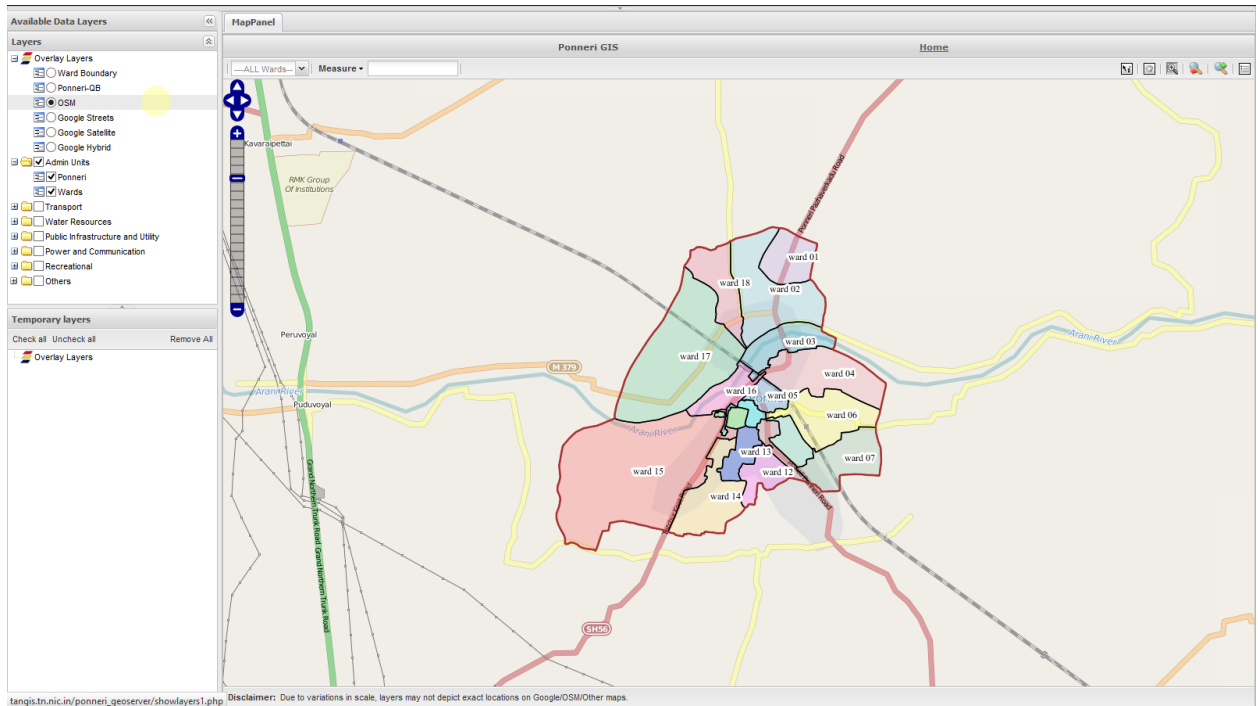


Fig 5: Open Street Map as Base Map

One of the following could be used as base map behind the other layers for easy visualization:

1. Ward Boundary
2. Ponneri Quick Bird (QB) Imagery
3. Open Street Map
4. Google Streets
5. Google Satellite
6. Google Hybrid

2. Overlay Layers

All the Layer Groups / Layers are toggleable i.e user can switch ON/OFF. User can Switch On any number of layers / Layer groups depending on their requirement and clear visibility on Map. The following screenshots show all the Layer Groups one by one.

a) Administrative Unit

Following 2 layers are available under Admn Units:

1. Ponneri TP Boundary
2. Ponneri Ward Boundary

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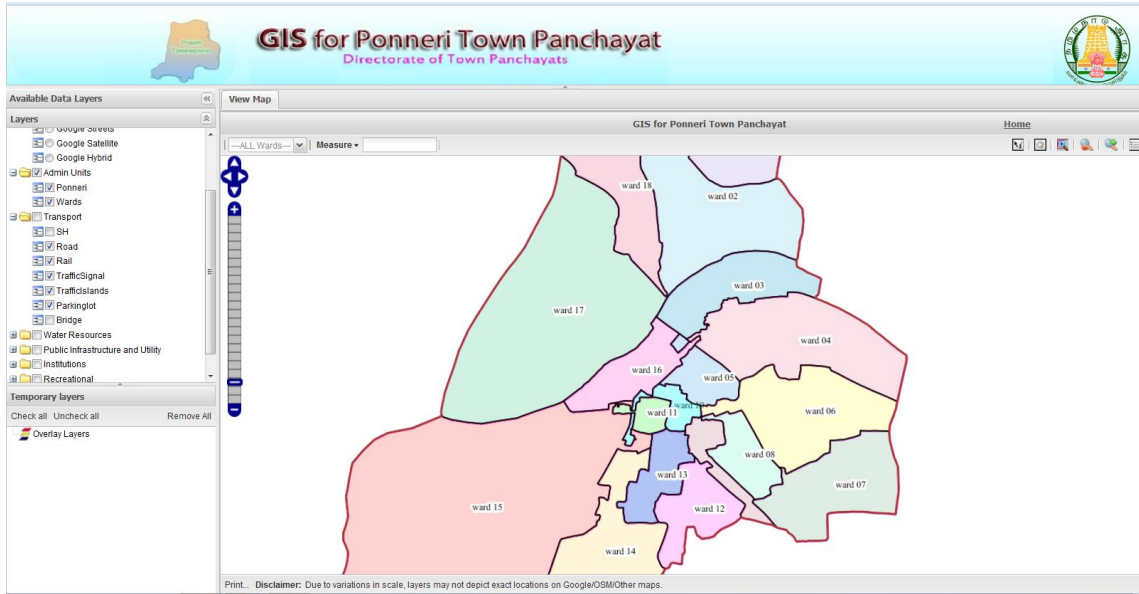


Fig 5:

Fig 6: Ward Boundary of Ponneri TP

b) Transport

Following layers are available under Transport :

1. SH
2. Railway
3. Road
4. Traffic Signal
5. Traffic Islands
6. Parking Lots
7. Bridge

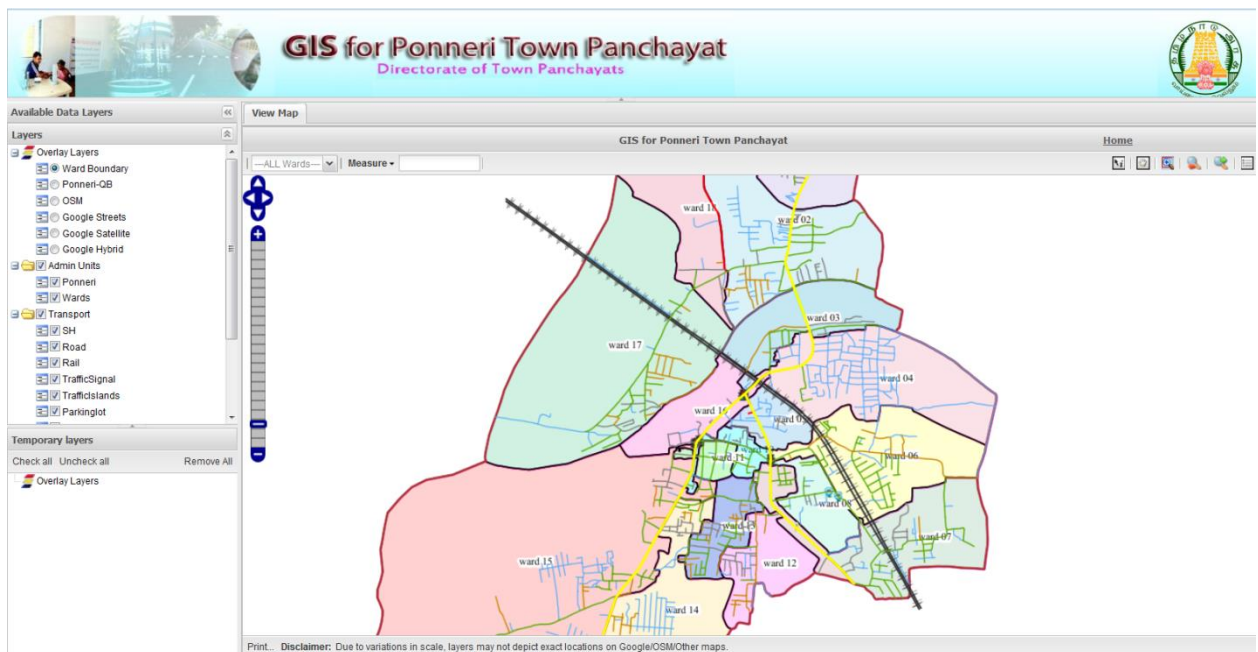


Fig 7: Road and Rail network in TP

c) Water Resources

Water Resources include the following layers:

1. Water Body
2. Taps
3. Hand pumps
4. Water Tanks
5. Power Pumps

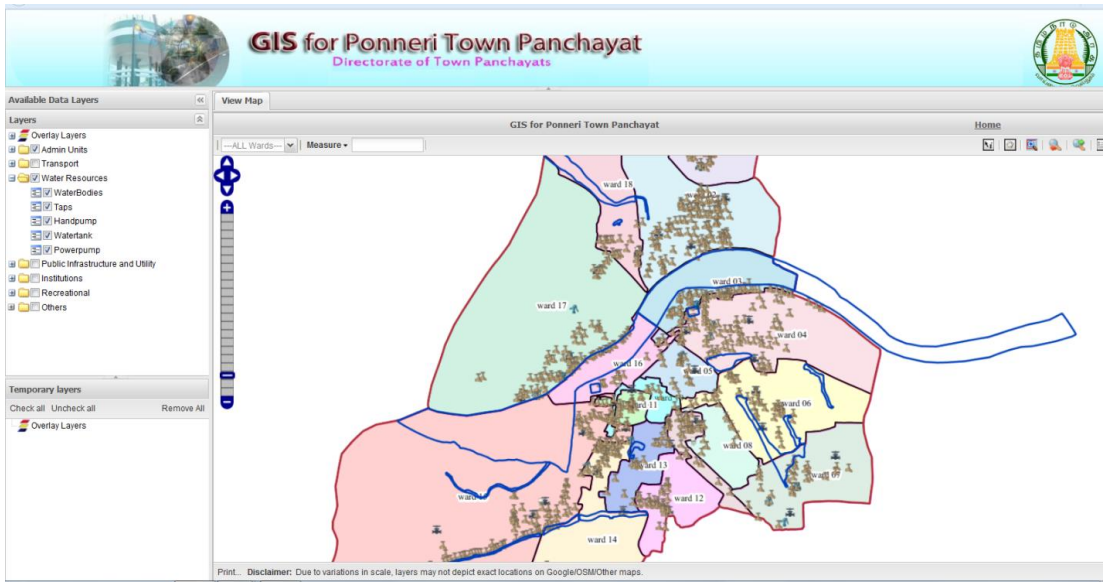


Fig 8:

Water Resources in TP

d) Public Infrastructure and Utilities

The following layers are listed in this category:

1. Streetlights
2. Police/Fire Station
3. Dustbin
4. Burial Ground

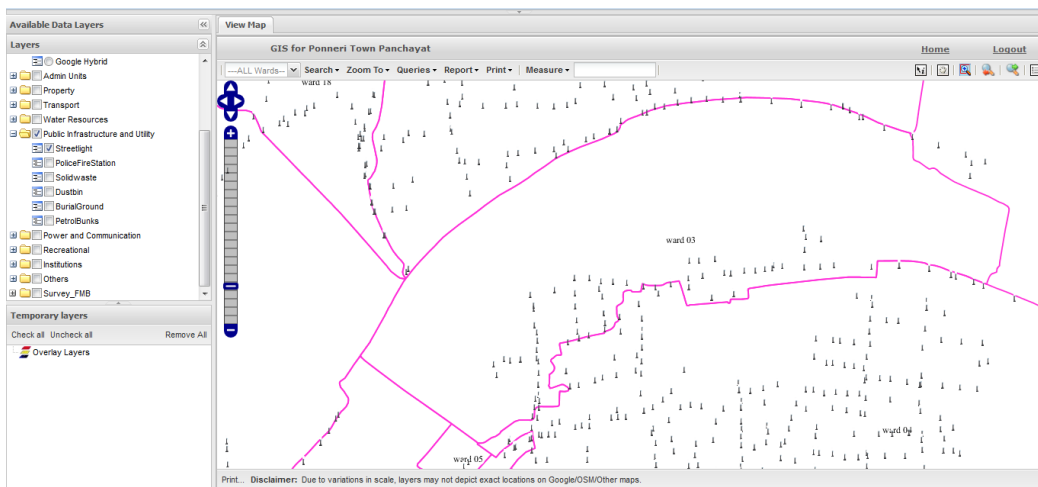


Fig 9: Tubelights in TP

e) Institutions

The following layers appear under Institutions category:

1. Court
2. Taluk Office
3. Religious Places
4. Colleges
5. Schools
6. Anganwadi
7. Hospitals

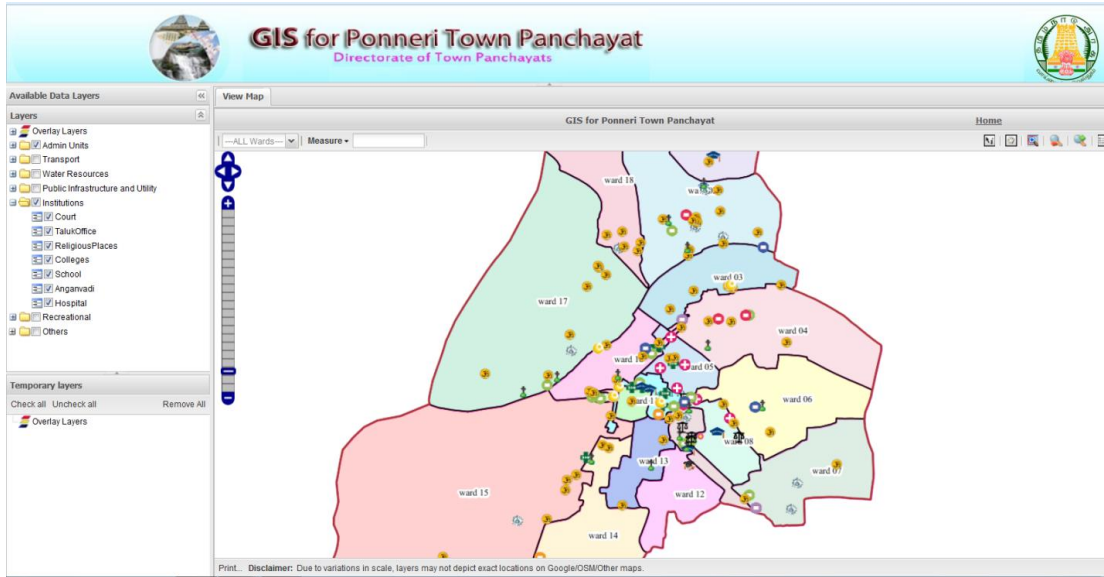


Fig 10: Spread of Institutions such as Hospitals in TP

f) Recreations

This category includes the Parks / Play Grounds

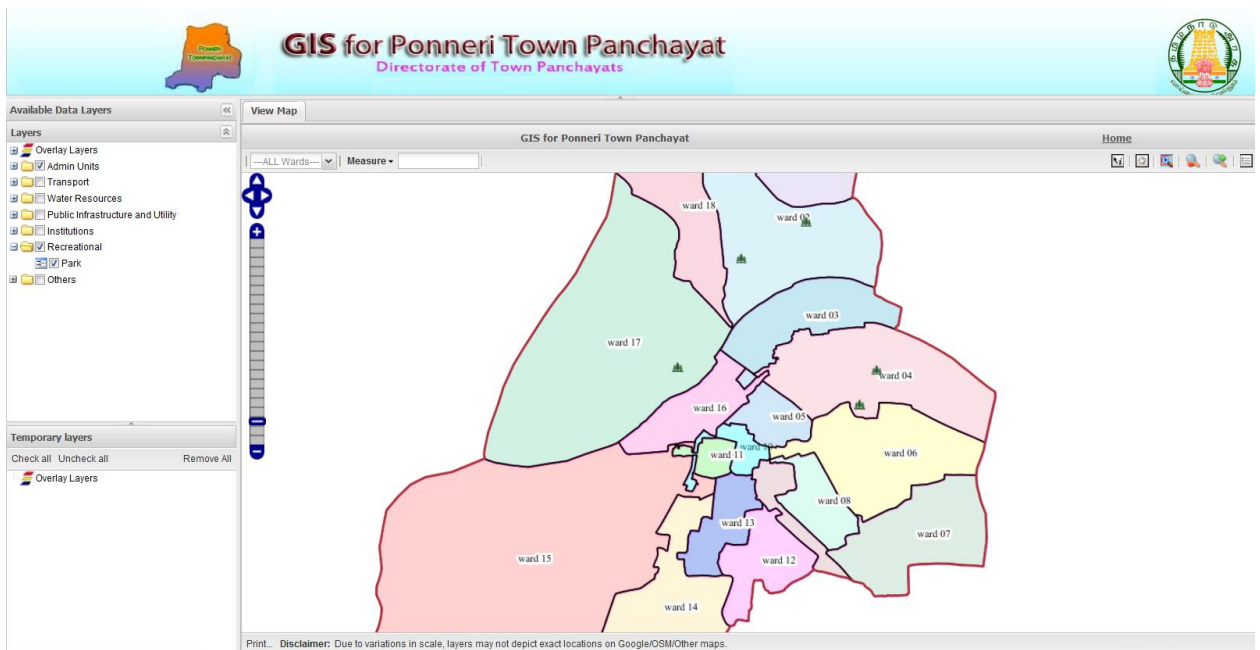


Fig 11: Parks and Play Grounds in TP

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g) Others

The following layers appear under this category:

1. Name boards
2. Trees

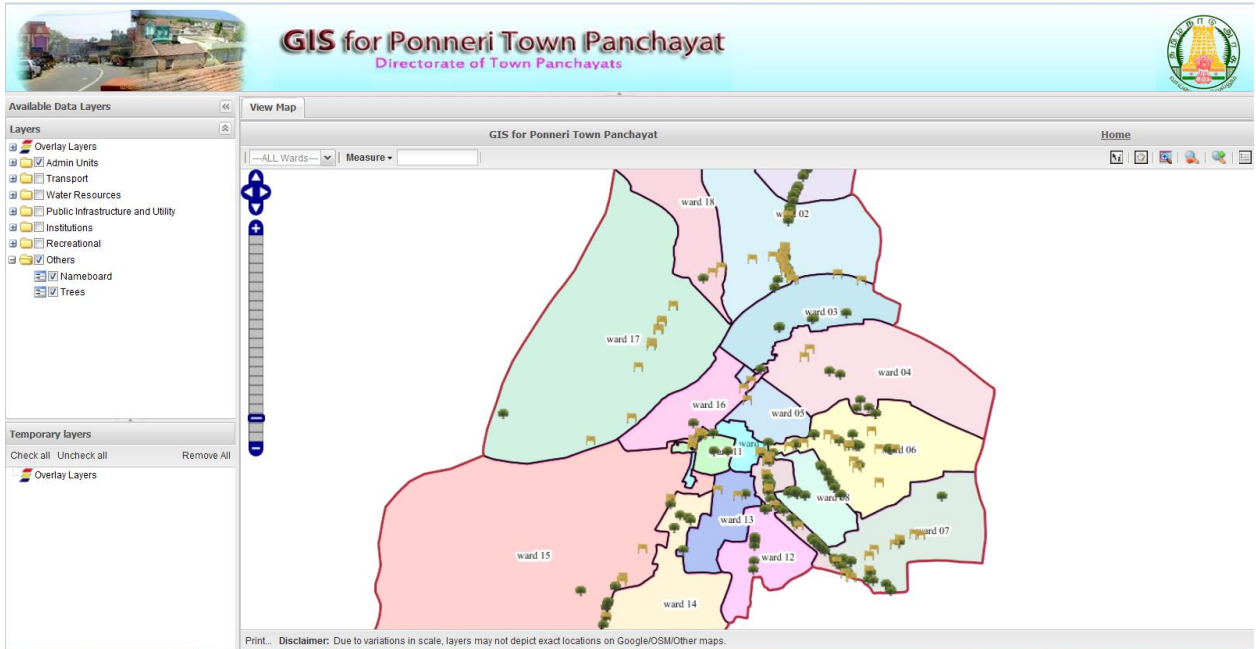


Fig 12: Name Boards and Trees

IV. Complaints/Suggestions

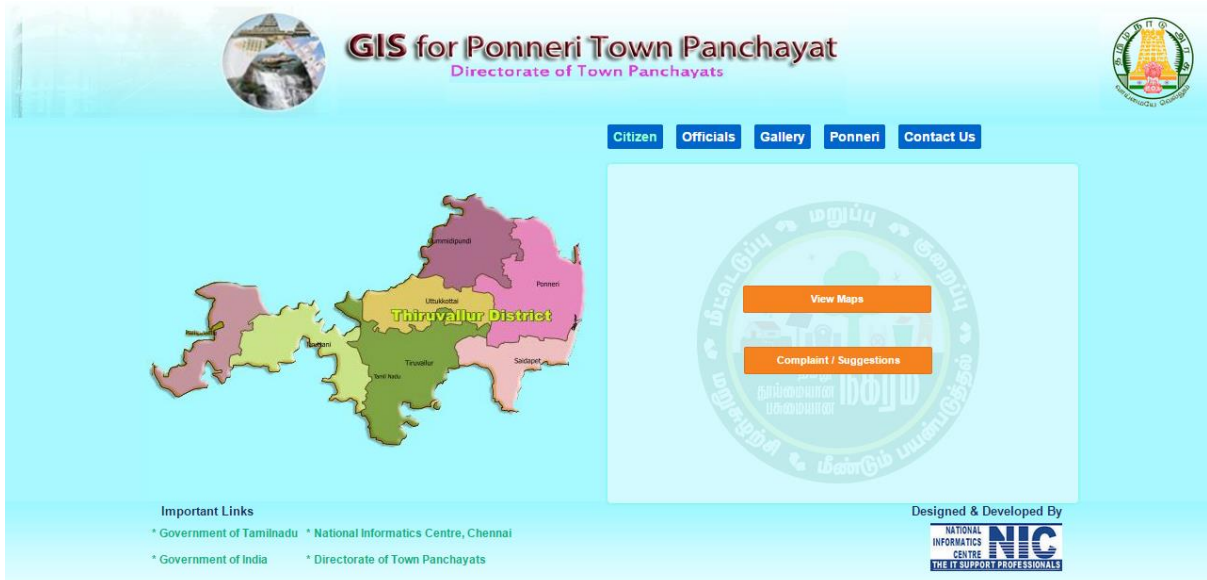


Fig 13: Links available for Citizens

By Clicking on Complaint/Suggestion from Citizen Menu, the following menu would be shown :-

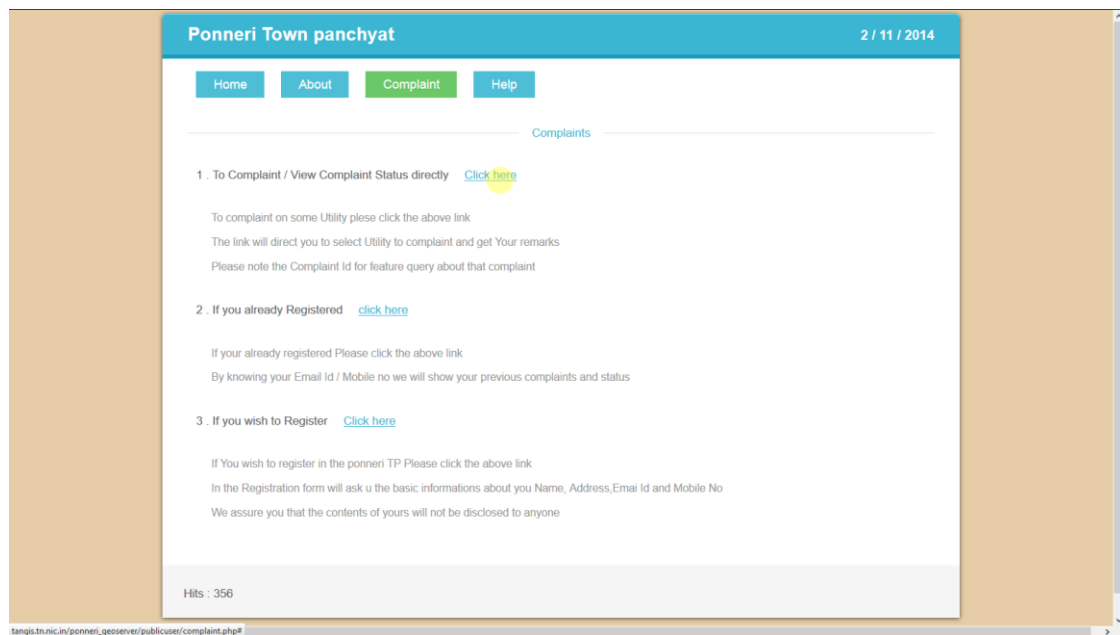


Fig 14: Complaints and Suggestions

This Complaint/Suggestion Module has the following functionalities :

- Home: Back to Main Menu
- About: About Citizen Module of the Application
- Complaints: Facilitate user to launch complaints about any Utility in Ponneri TP

There are 3 options available under Complaint Menu Complaint / View Complaint Status

- i. Directly without registering as a User
- ii. Use Registration credentials created earlier
- iii. To Register

i. Complaint / View Complaint Status directly (Unregistered User)

Choose a Ward->Choose a Street in selected Ward & ->Choose a Facility about which you wish to launch complaint -> Click on Get Report.

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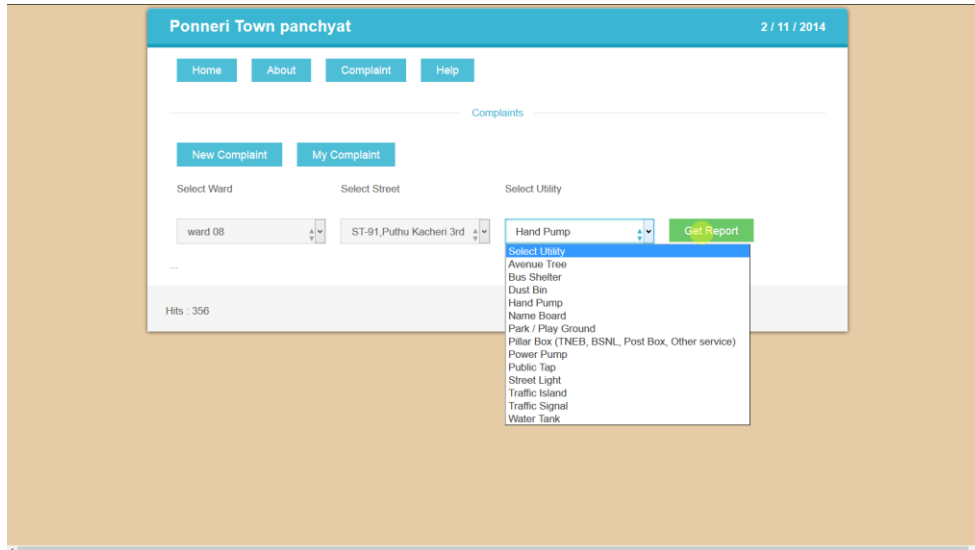


Fig 15: Parameters to select for lodging a Complaint

It will show the list of all selected Facilities available on selected Street & Ward as shown below:-

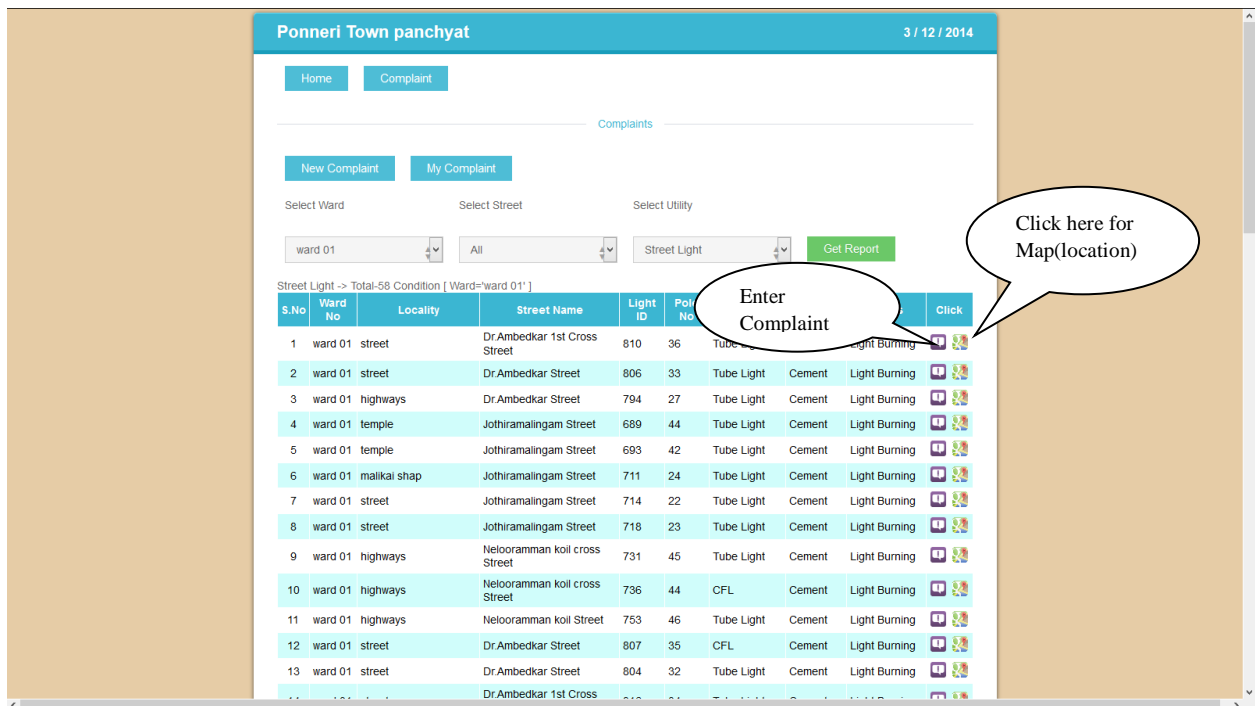


Fig 16: List of Utilities – Street Lights

Click on Map Icon against any desired Utility from the list to view the location of the selected Utility on Map.

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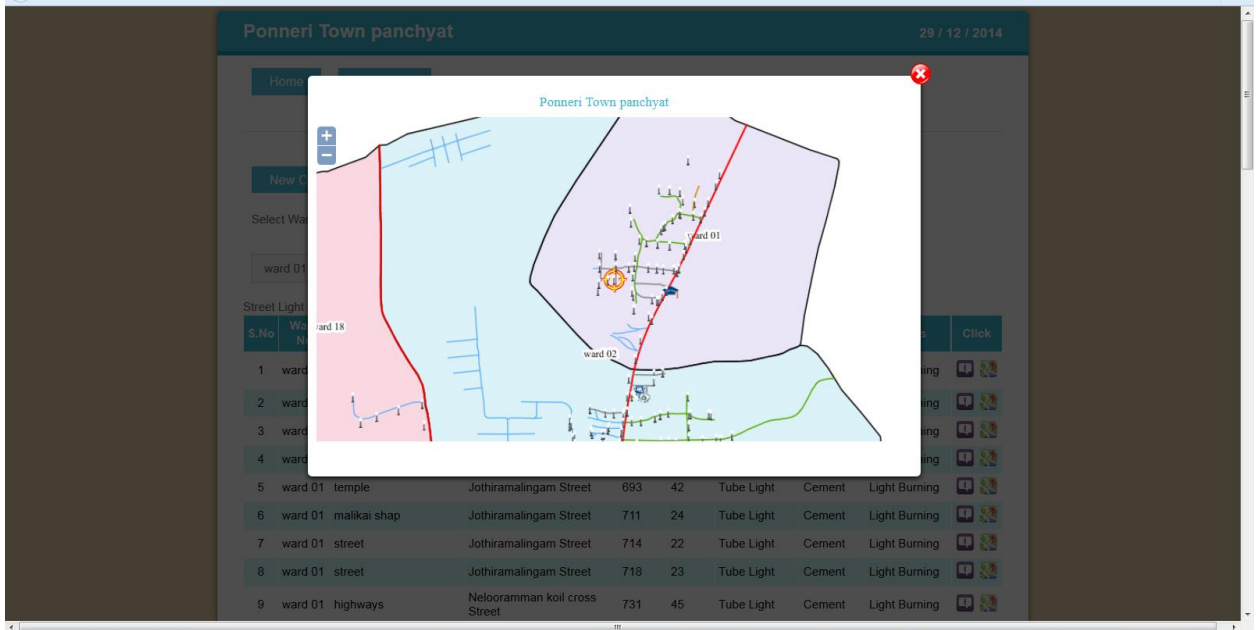


Fig 17: View the selected utility's location on map

Click on Complaint icon against any desired Utility from the list, to lodge the Complaint form on that particular Utility.

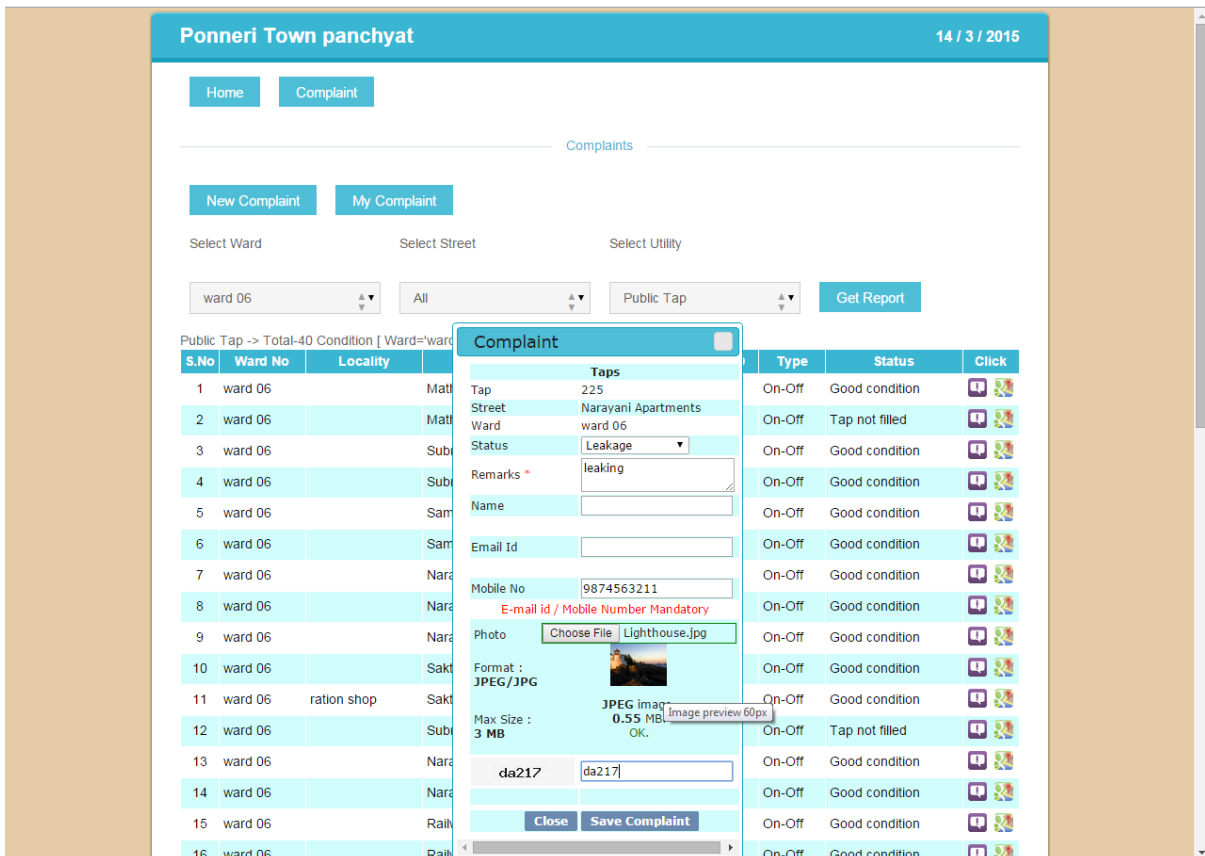








Fig 18: Details of the actual complaint with provision to upload photo

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After lodging the complaint, Complaint ID is shown to the user. This unique number is to be used in future to verify the status of the Complaints by the user.

Screen showing complaint id:

The screenshot displays the 'Ponneri Town panchayat' web application interface. At the top right, the date '13 / 2 / 2015' is shown. The main navigation includes 'Home' and 'Complaint' tabs. A 'Complaint' modal window is open, displaying the message: 'Registered Successfully ! Your Complaint Id is - 2015-1'. Below the modal, there are buttons for 'New Complaint' and 'My Complaint'. The form includes dropdown menus for 'Select Ward' (set to 'ward 04'), 'Select Street' (set to 'ST-35,Thiruvalluvar St'), and 'Select Category' (set to 'Street Light'). A 'Get Report' button is also present. Below the form, a table titled 'Street Light -> Total-3 Condition [Ward='ward 04']' is displayed. The table has columns for S.No, Ward No, Locality, Street Name, Light ID, Pole No, Light Type, Type Name, Status, and Click. The data rows are as follows:

S.No	Ward No	Locality	Street Name	Light ID	Pole No	Light Type	Type Name	Status	Click
1	ward 04	street	Thiruvalluvar Street	1729	389	Tube Light	Cement	Light Burning	 
2	ward 04	street	Thiruvalluvar Street	1730	387	CFL	Cement	Light Burning	 
3	ward 04	street	Thiruvalluvar Street	1726	0	Tube Light	Cement	Light Burning	 

At the bottom of the table, it says 'Hits : 334'.

Fig 19: Complaint Number with which user can track the status

My complaints

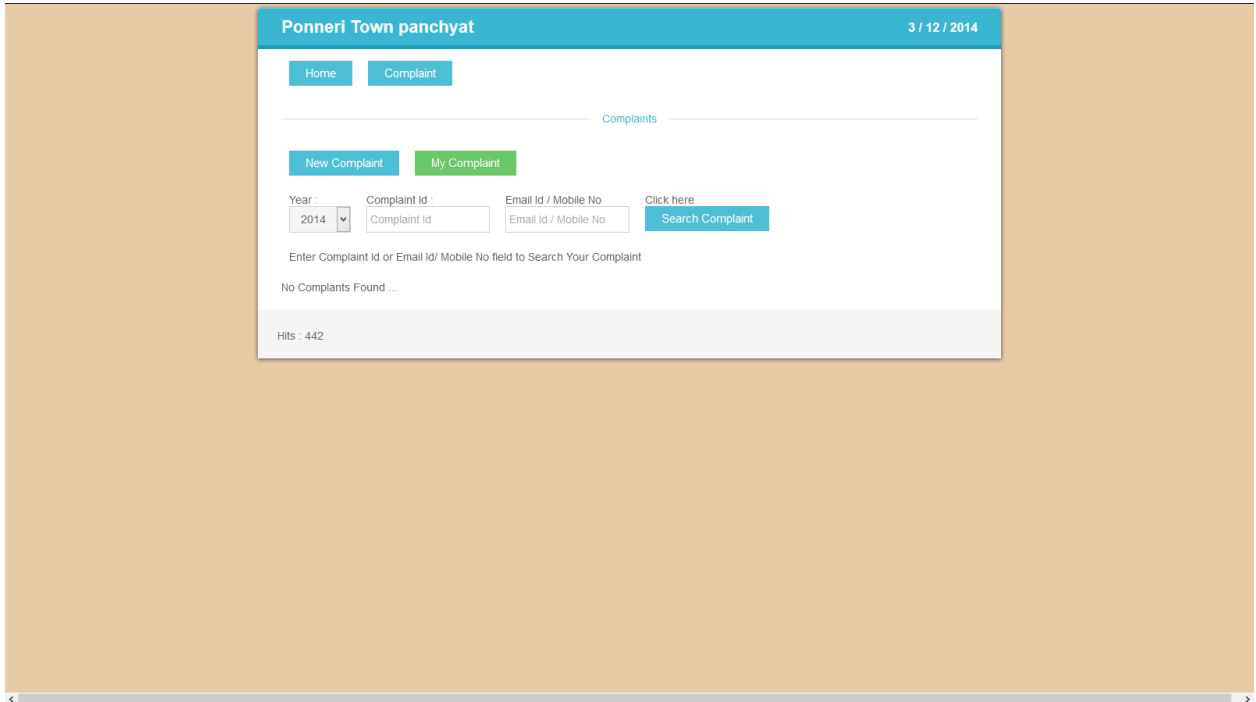


Fig 20: Check the status with the help of Complaint Number

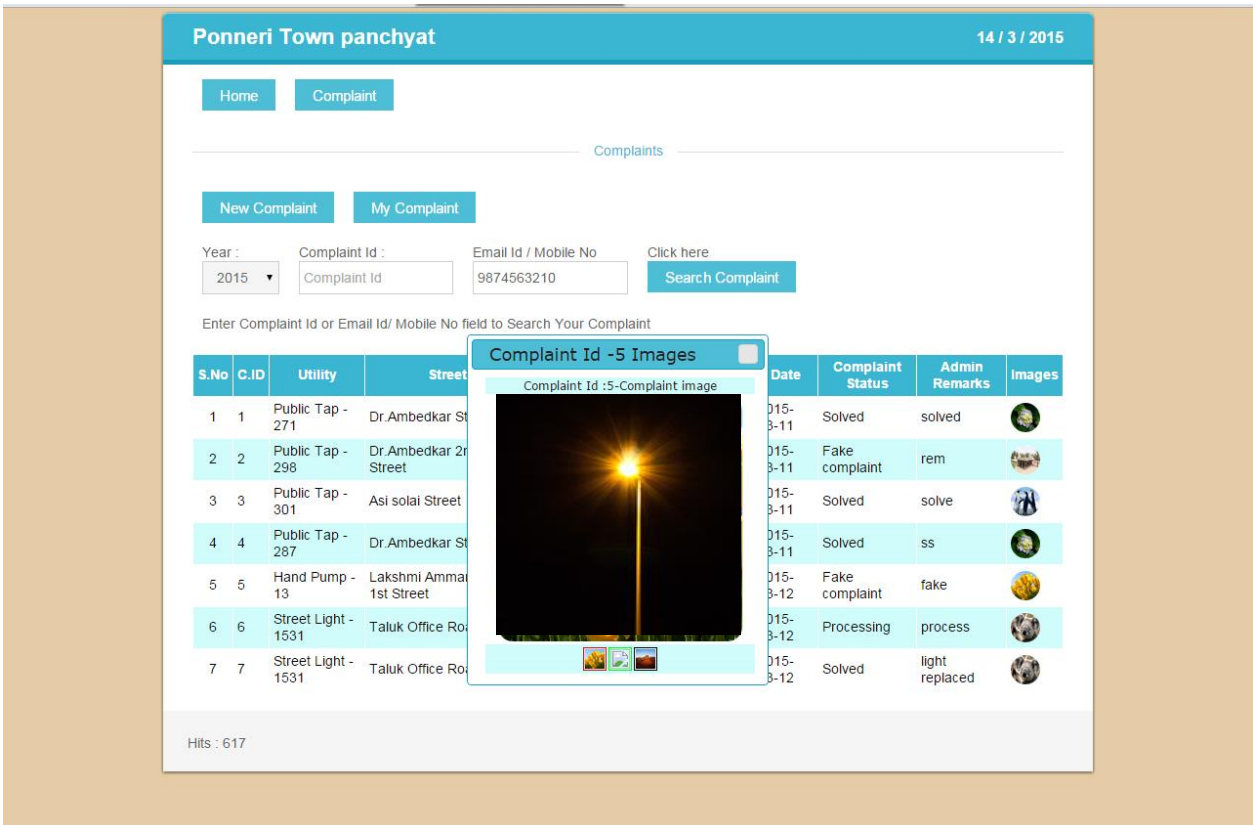


Fig 21: Check the status with the help of Complaint Number

ii. For already Registered users:

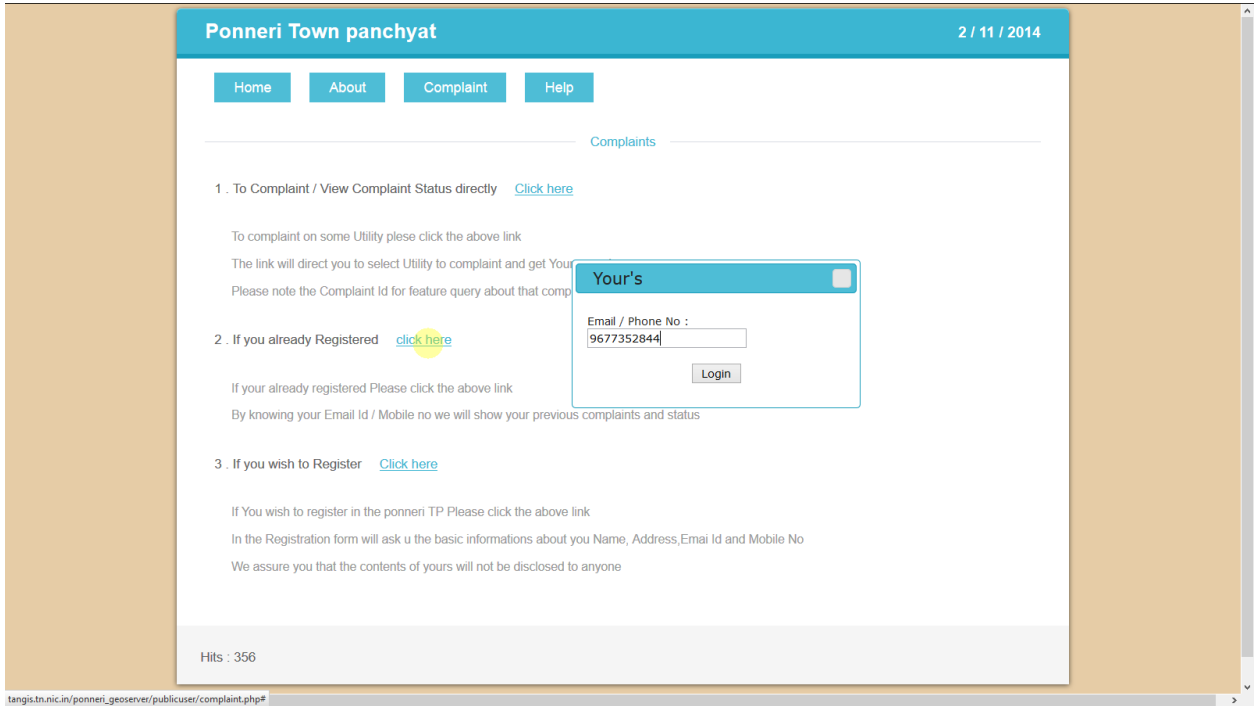
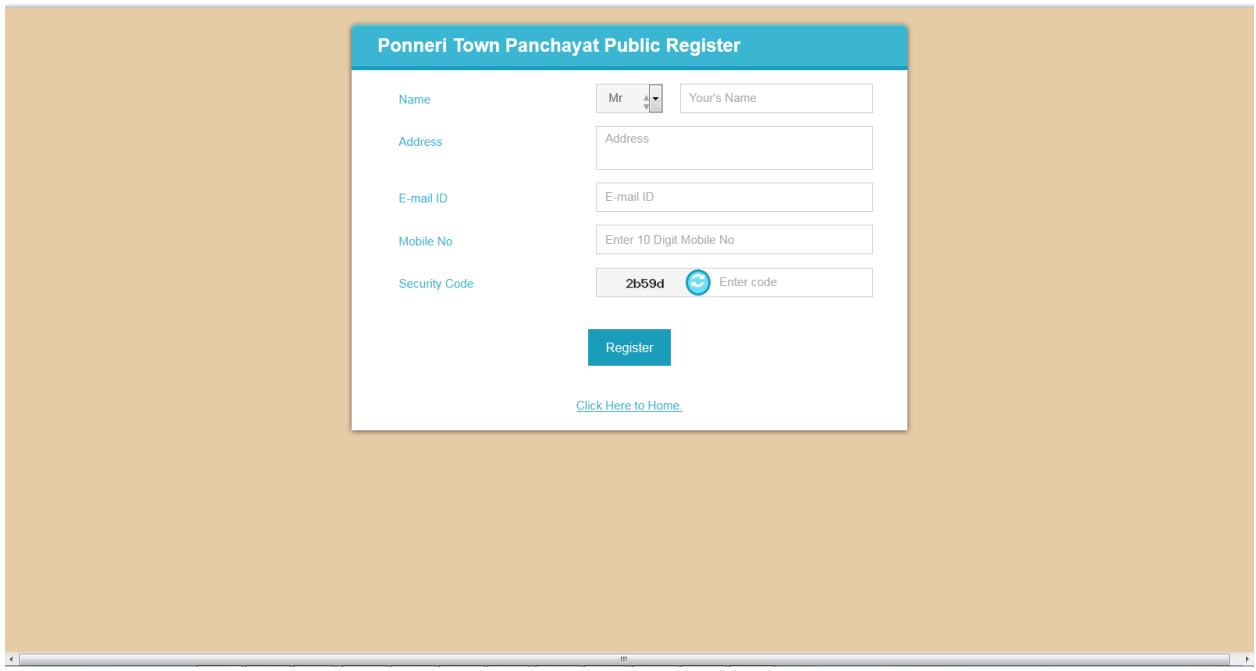


Fig 22: Check the status with the help of Mobile number used to register in the website

iii. To Register

Minimal personal details such as Name, Mobile No & Email id are collected so that next time user can access the status of their previous complaints using their Mobile No or e-mail id



The screenshot shows a web browser window displaying the 'Ponneri Town Panchayat Public Register' registration form. The form is titled 'Ponneri Town Panchayat Public Register' and contains the following fields:

- Name:** A dropdown menu with 'Mr' selected and a text input field labeled 'Your's Name'.
- Address:** A text input field labeled 'Address'.
- E-mail ID:** A text input field labeled 'E-mail ID'.
- Mobile No:** A text input field labeled 'Enter 10 Digit Mobile No'.
- Security Code:** A text input field with a CAPTCHA image showing '2b59d' and a text input field labeled 'Enter code'.

Below the fields is a blue 'Register' button and a link that says 'Click Here to Home.' The browser's address bar is visible at the bottom.

Fig 23: Registration parameters



Fig 24: Photo Gallery
