WIMS
PORTAL

WATER INFORMATION MANAGEMENT SYSTEM

TRAINING MANUAL

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Login Screen:

- This is the main screen (Fig-1) of the application where user needs to enter his/her username/SSOID and Password in order to login into the WIMS Application.

Fig -1

WIMS Portal URL – **www.sso.rajasthan.gov.in**

- After login click on WIMS SCADA tab to enter into WIMS portal landing page (Fig 2)
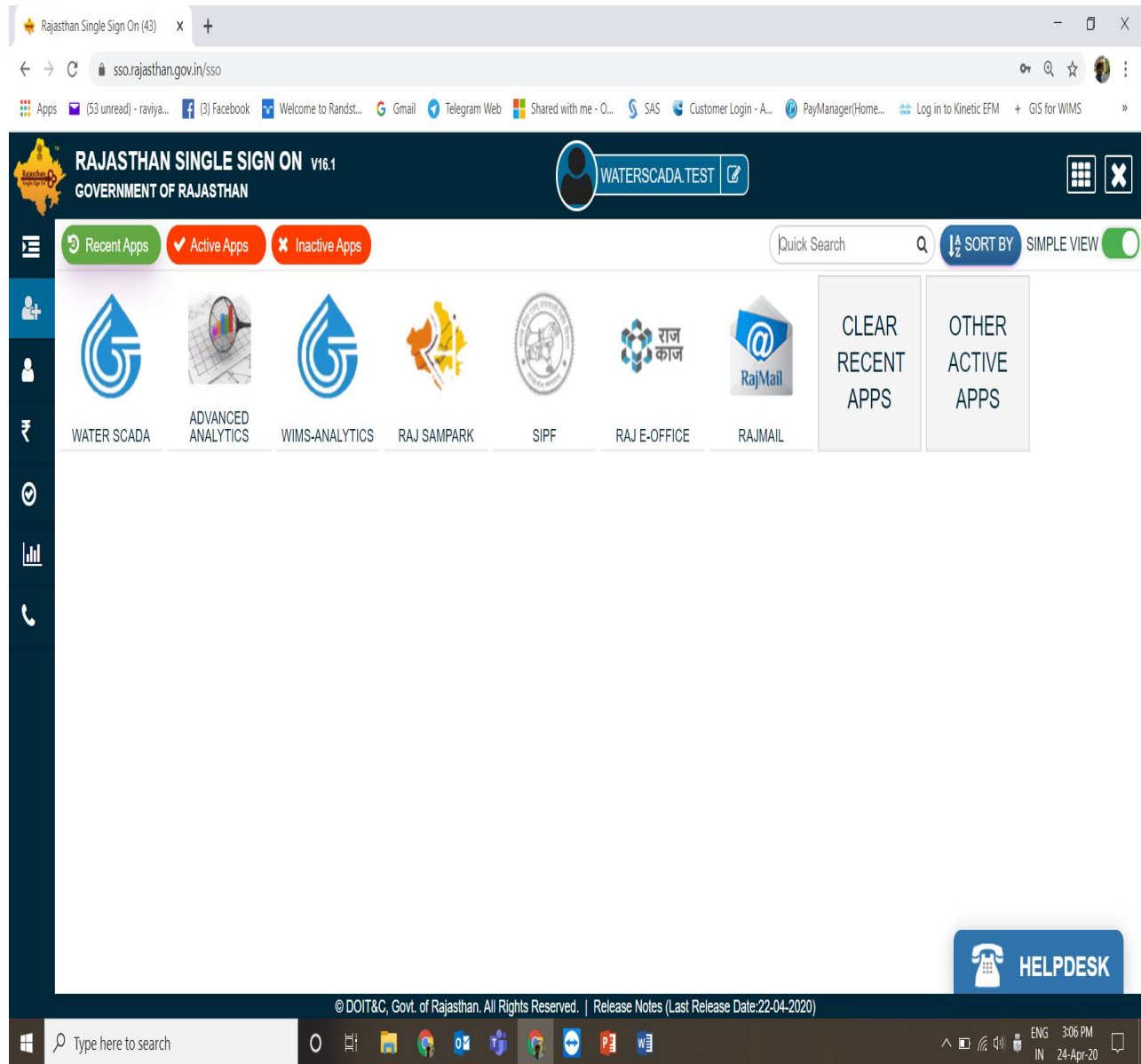
Fig - 2

WIMS Portal Landing Page:

After successfully logging into the Application, user will be navigating to the Main Dashboard or Home screen.

Main Dashboard will display the information such as
- All Modules of WIMS like – SCADA, DFU, RO, Solar Borewell, Alert, IoT Gateway, Enterprise Asset Management(EAM), GIS, SAS Analytics.
- The Modules that the logged-in user has access to. Respective module will be opened based on user module selection.
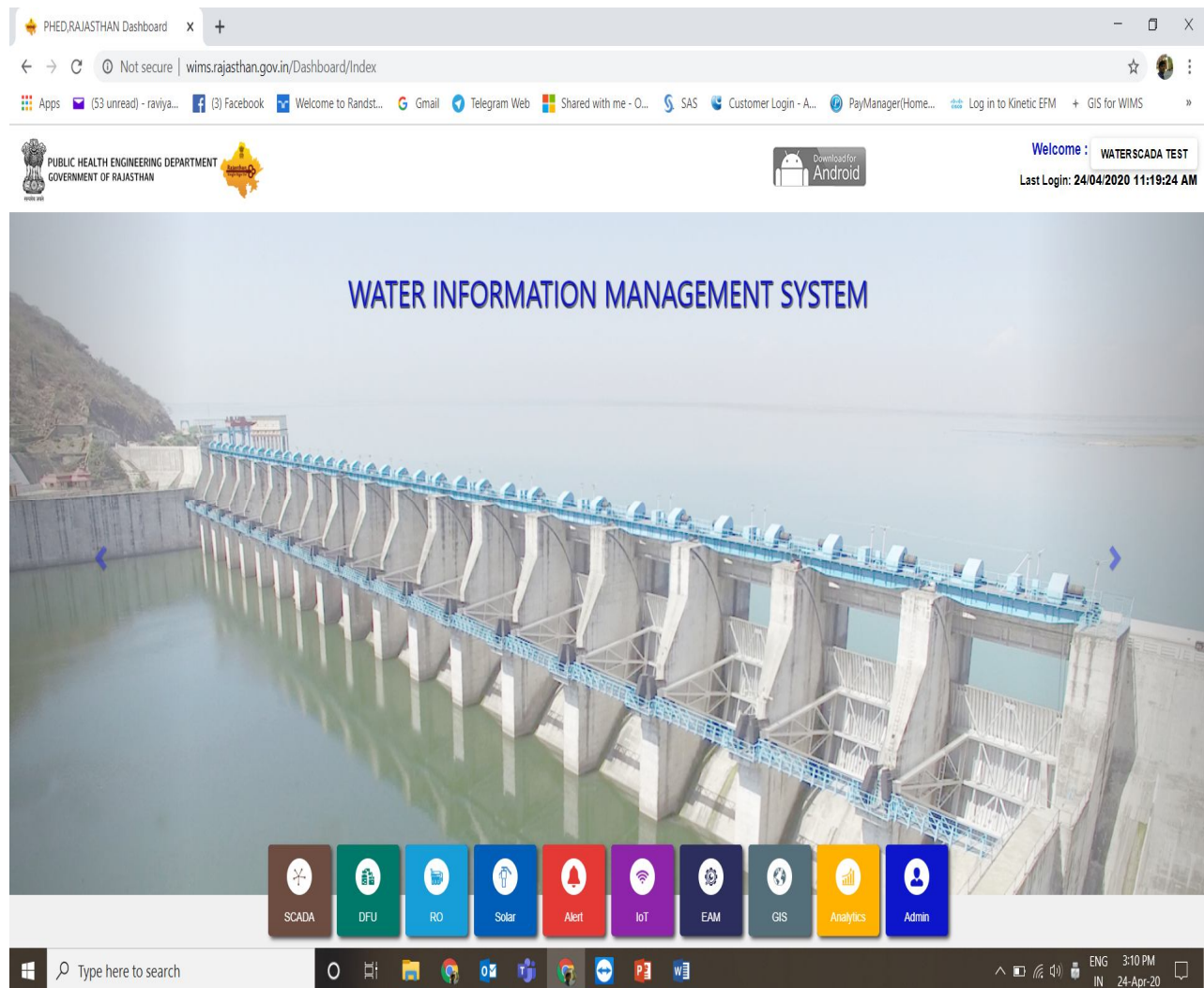
Fig -3

SCADA Dashboard:

- User will be navigated to the SCADA screen when he/she clicks on the SCADA Icon on the Main Dashboard.
- In the first page the SCADA Projects list will be displayed based on user's access.
- After selecting the Project, Station and Asset Type, the user has to click on the Search Button.
- Next the user will be navigated to a screen with two tabs, based on the asset type which the user had selected, user will either find gauges or pumps tab with a table tab.
- If the user selects the asset type as "PUMP", the screen would look like below
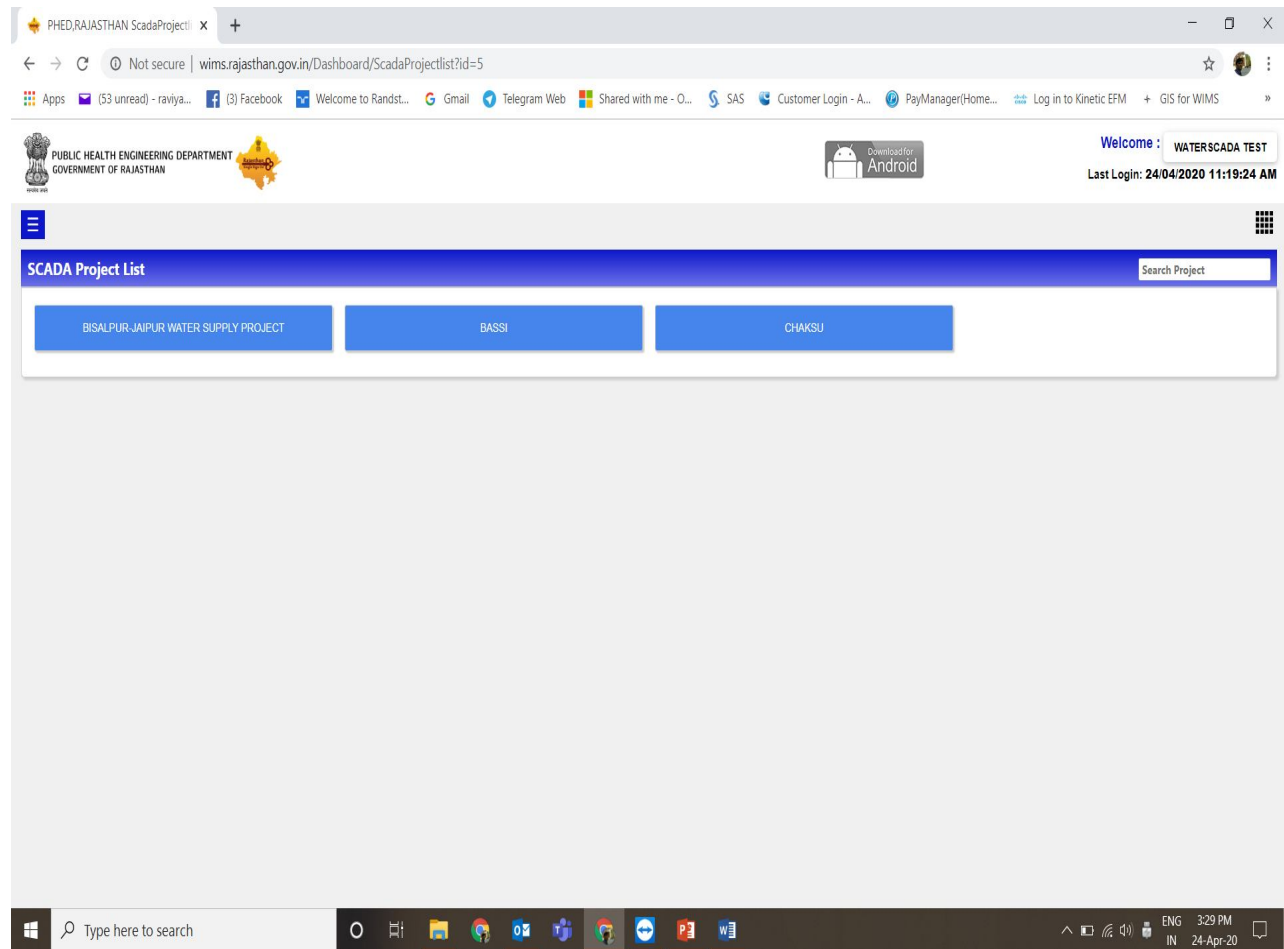
Fig - 4
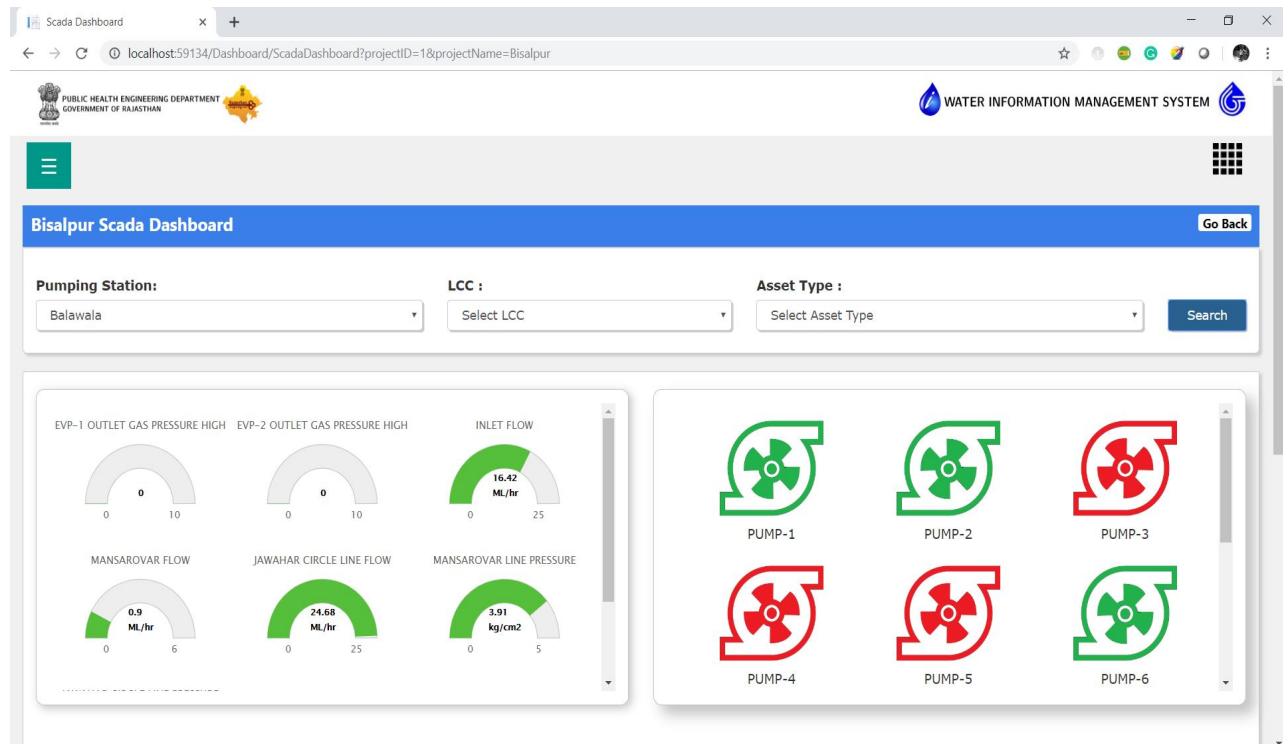
Fig – 5

SCADA Reports:

There are various SCADA reports were developed, as shown below
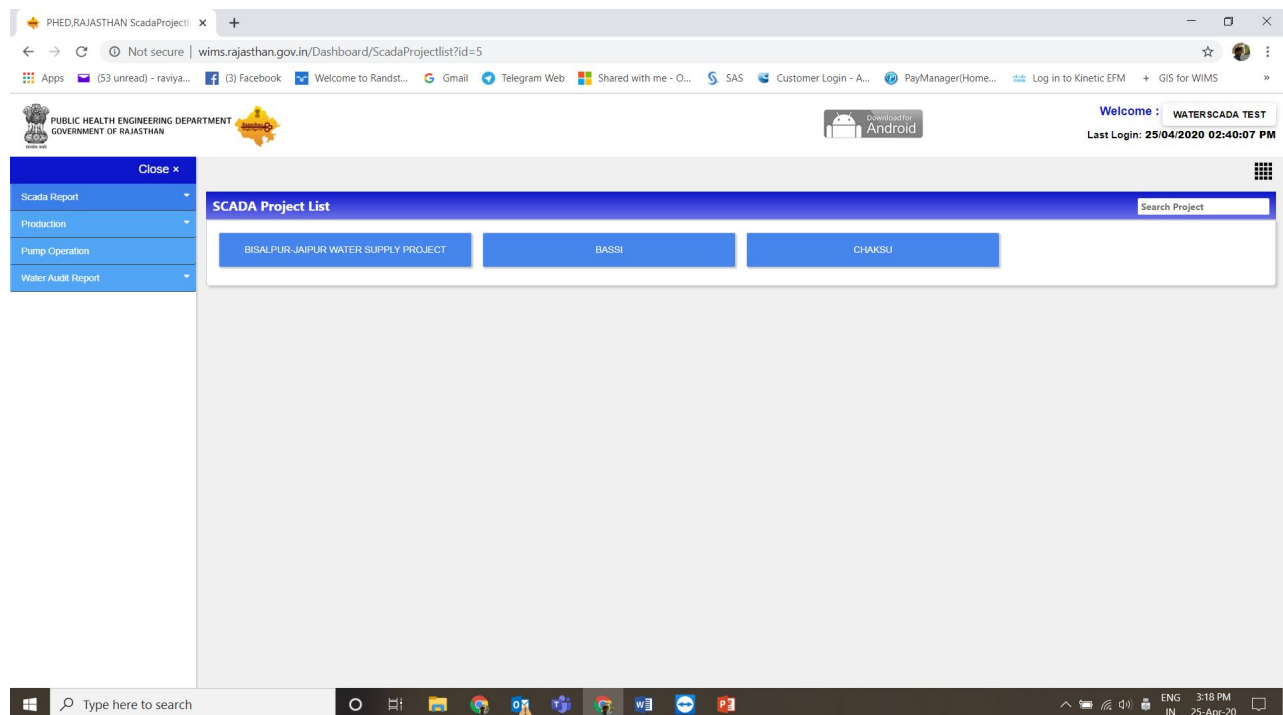
Fig – 6

DFU (De-fluoridation unit):

DFU screen consists of three parts

- DFU Dashboard
- Live Report
- History Report

DFU Dashboard

- The Count of Total DFU received, Status of DFU plants like- Operational, Non Operational, Data Not Refreshed, Data Not Received and Non- Operational Reason will be shown in graphical format.
- Agency Wise Status and DFU KPI are also shown in for of graphical format.
- Below is a snapshot of DFU Dashboard.

Fig -7

RO (Reverse Osmosis):

RO consists of three parts

- RO Dashboard
- Live Report
- History Report

RO Dashboard

- The Count of Total RO received, Status of RO plants like- Operational, Non Operational, Data Not Refreshed, Data Not Received and Non- Operational Reason will be shown in graphical format.
- Agency Wise Status and RO KPI are also shown in for of graphical format.
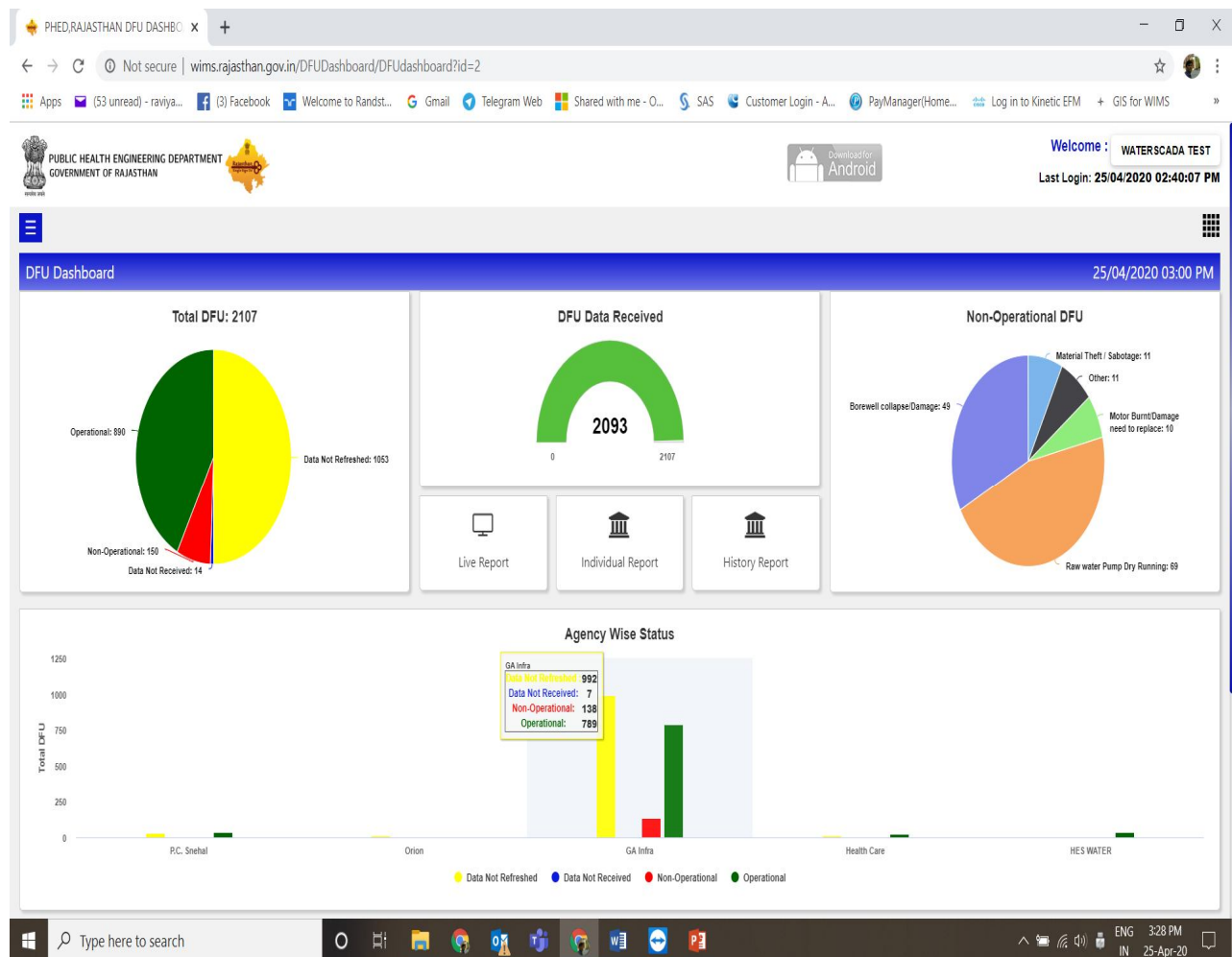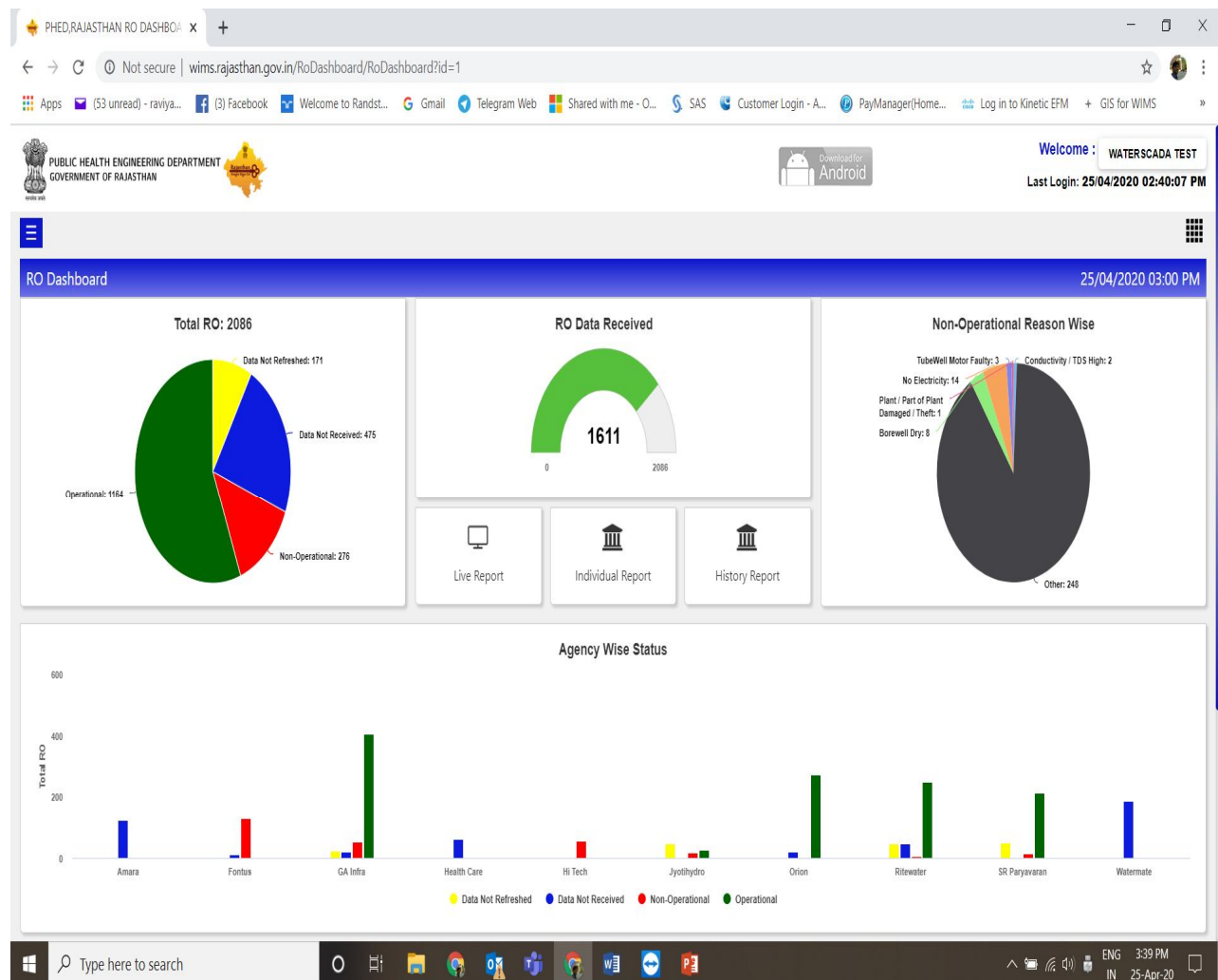- Below is a snapshot of RO Dashboard.

Fig - 8

Solar Pump:

Solar Pump consists of three parts

- Solar Pump Dashboard
- Live Report
- History Report

Solar Pump Dashboard

- The Count of Total RO received, Status of RO plants like- Operational, Non Operational, Data Not Refreshed, Data Not Received and Non- Operational Reason will be shown in graphical format.
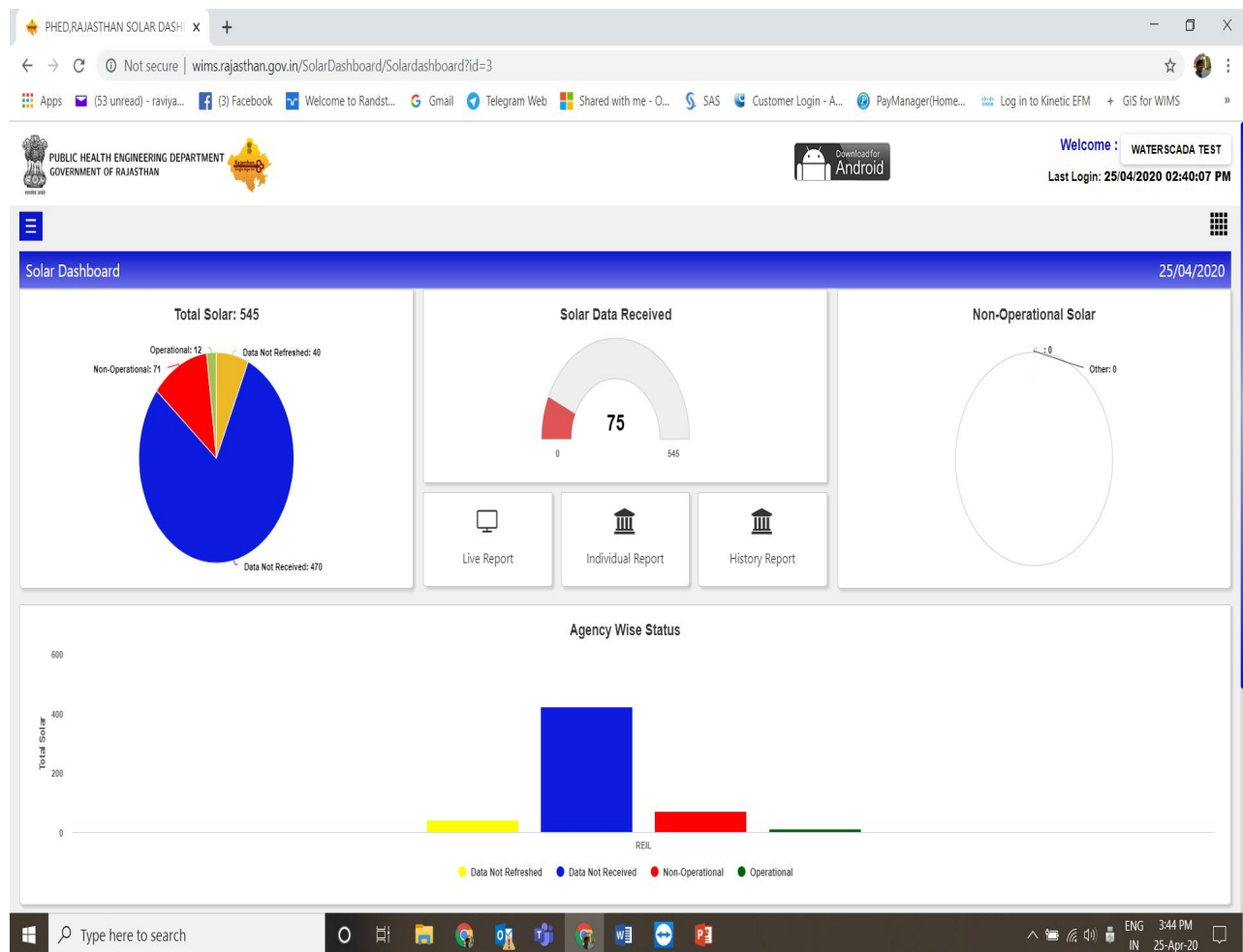
Fig - 9

IoT (Internet of Things) Gateway:

- In IoT module, the list of IoT devices present in Mansarovar are displayed. Currently there are four devices and all the four devices are shown in a list format.
- In IoT main dashboard the list of data is shown in two Tabs. One in graphical format.
- IoT Hourly trend available which will show the hourly trend of all four flow meter connected through IoT gateway.

Fig -10

Alerts

- There are two types of Alerts available – 1. Live Alert 2. History for all Assets like – SCADA, RO, DFU, Solar Pump & IoT Gateway.

Fig - 11

Fig-12

Geographical Information System(GIS)

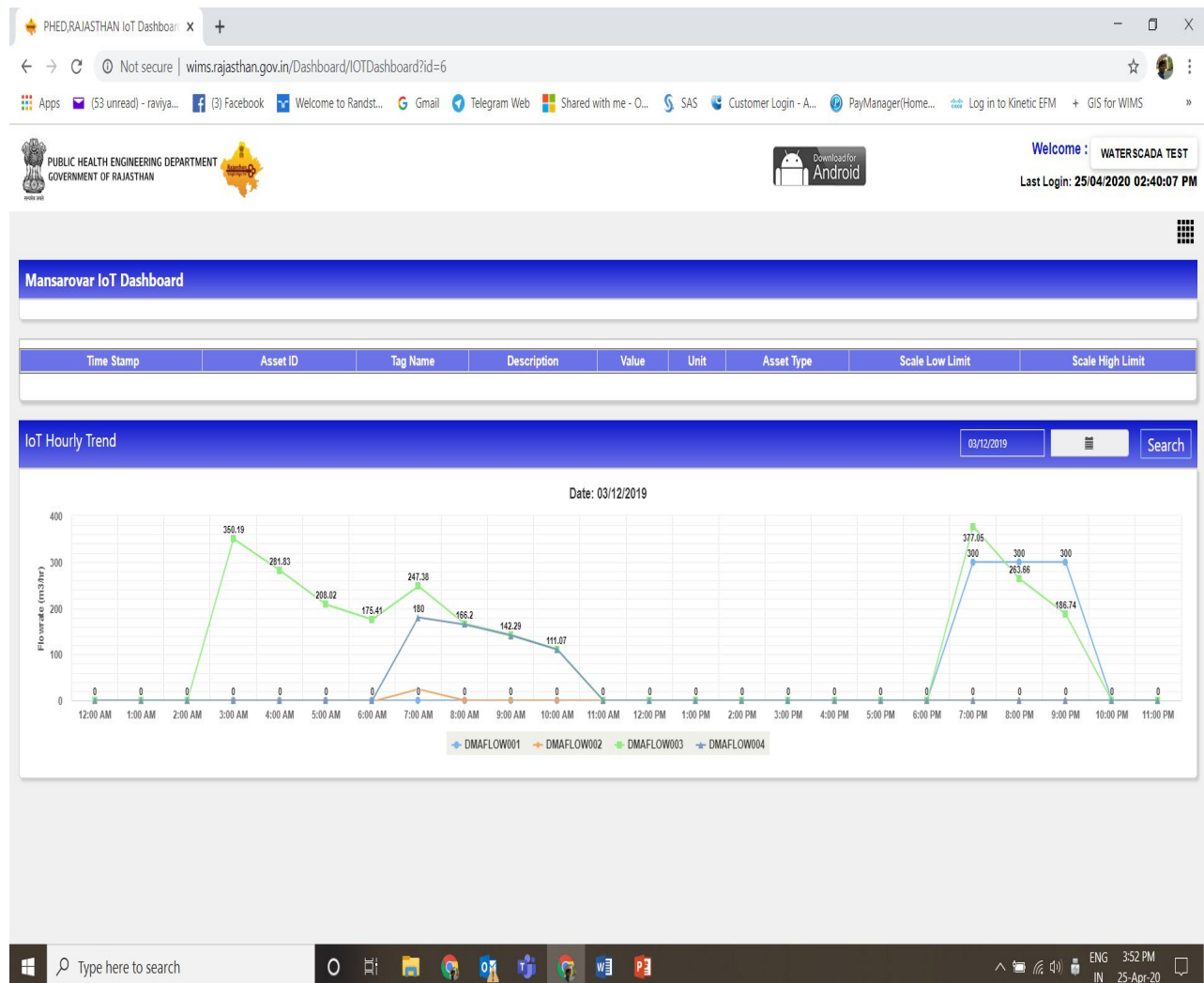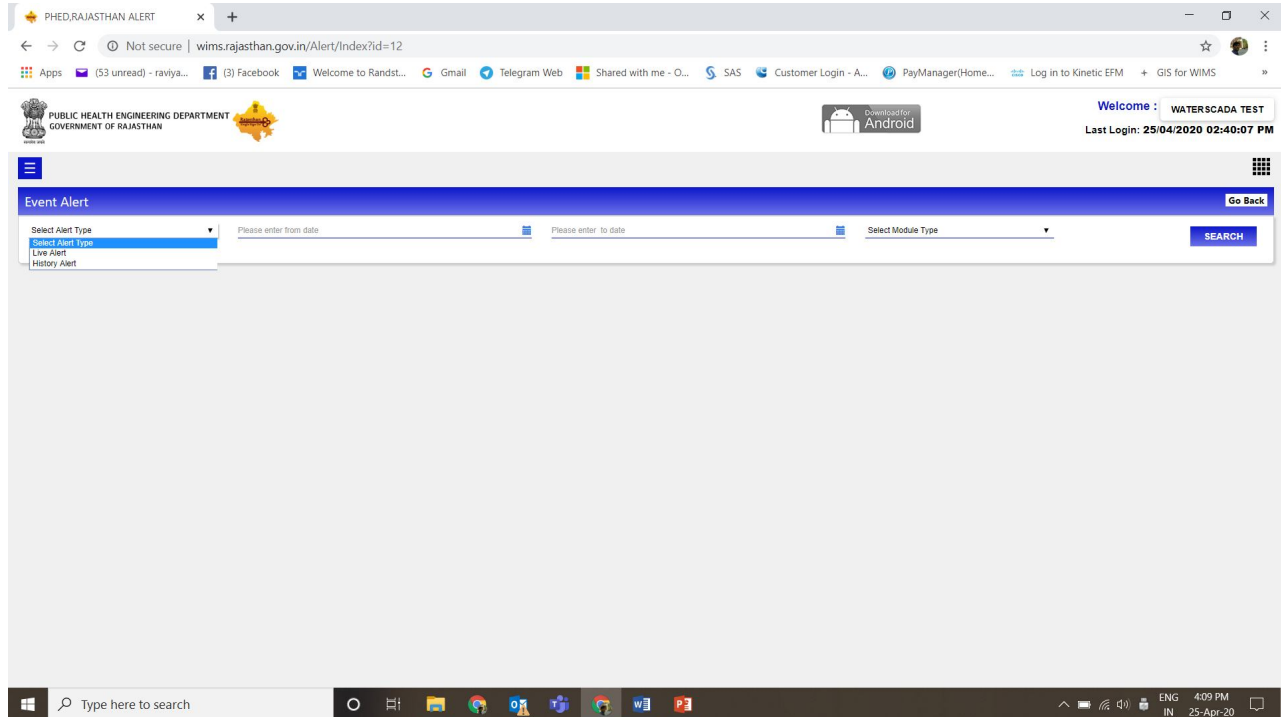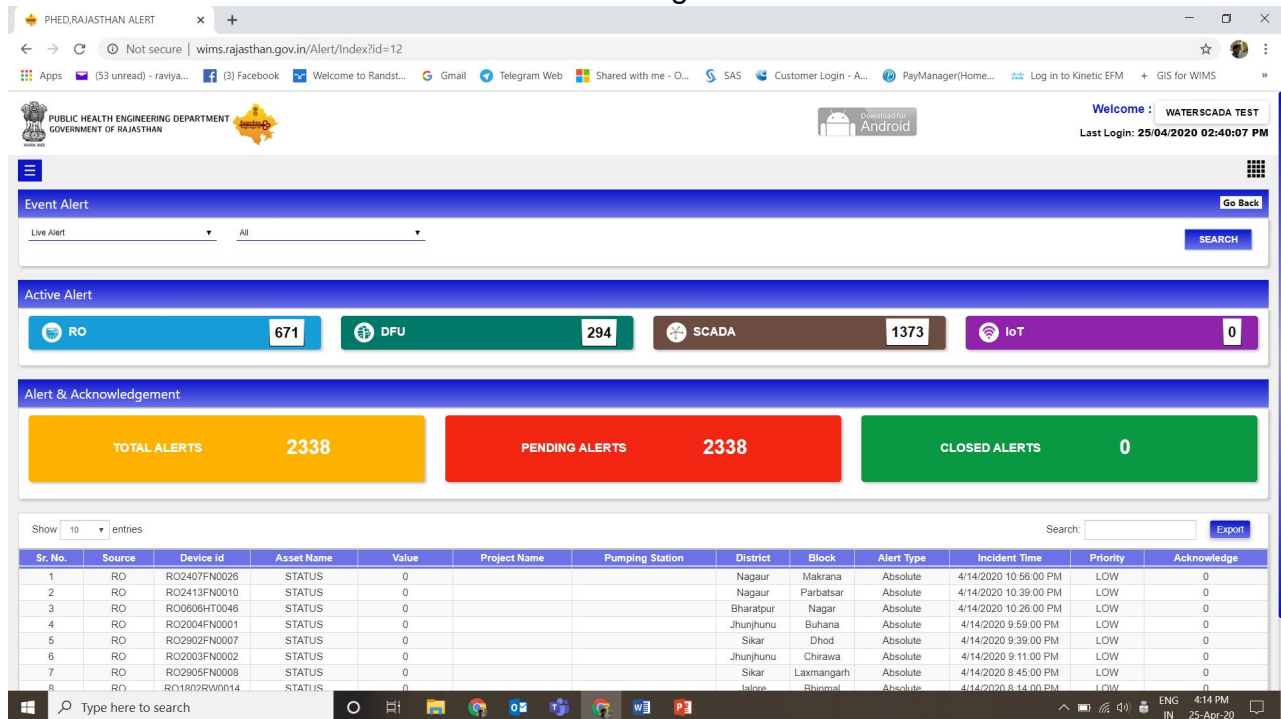Implementation of "GIS for WIMS" will facilitate the department in the following ways –
1. View all functionality on selected / required Base maps
2. Highlighting for selected / required layer on map
3. View detailed information on selected layer

Currently, in absence of accurate data we are unable to find where exactly problem has occurred so WIMS application is integrated to the following services –
1. SSO service – In order to maintain data security, SSO ID credentials would be used for system login.
2. Rajdhara service - GIS map is made available through this service

WIMS application broadly supports following activities –
A. **Operational Layers** – Through this we can view all respective layers and based on selection layers will be highlighted and detailed information will be displayed in popup.

   Application includes the following sub activities:
   1. Displaying arbitrary zone features on selected basemap
   2. Based in selection of operational layer displaying required fields
   3. Displaying detailed information on selected layer
B. **Map Tools** - includes the following sub activities:
   1. Identify location information for selected survey asset with the help of required features (Point, Polygon)
   2. Querying on selected survey asset
   3. Measure distance, area, location based on selection of measurement tool
   4. Creation of Attribute Zone and Updation, deletion facility for Attribute Zone Name
   5. Based on selection of Survey Asset, based on entered buffer distance, selected feature will draw.
   6. Clear functionality for unwanted features

Operational Layers

In order to bring all existing data of the Department to WIMS system, following activities are required

Base Maps

1. Once Login > map will display along with given Asset Id which is mentioned in URL (Fig – 1).
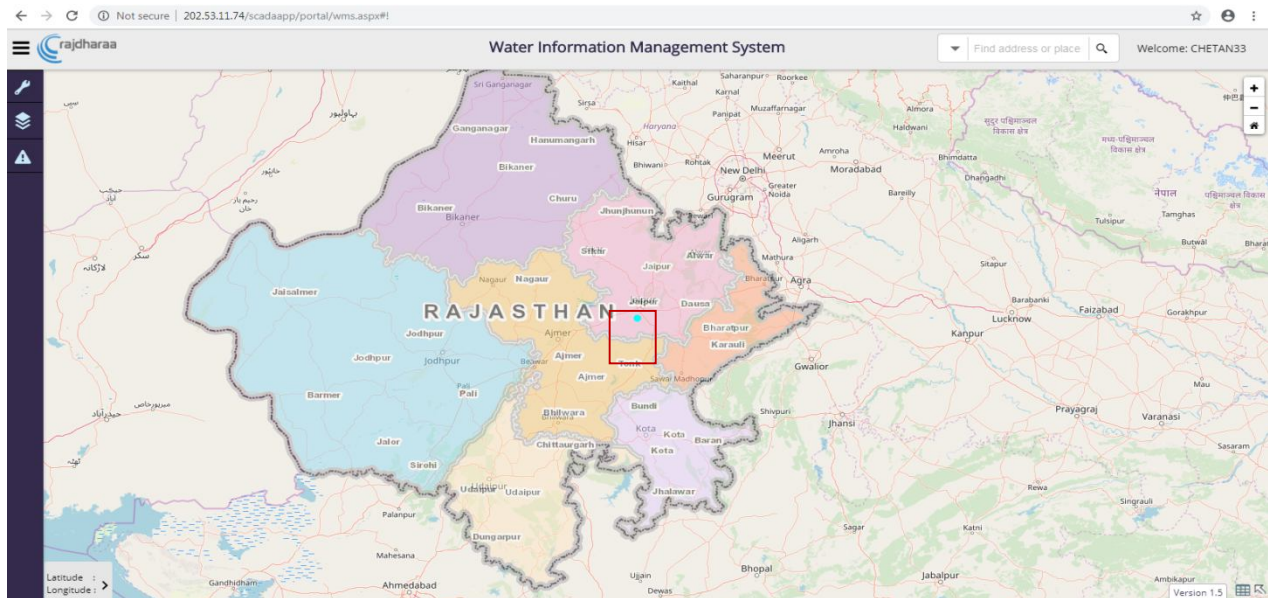
Fig – 1: User Login Screen (After entering URL)

2. To check operational layers, click on selected icon which is available left side (Fig -2).
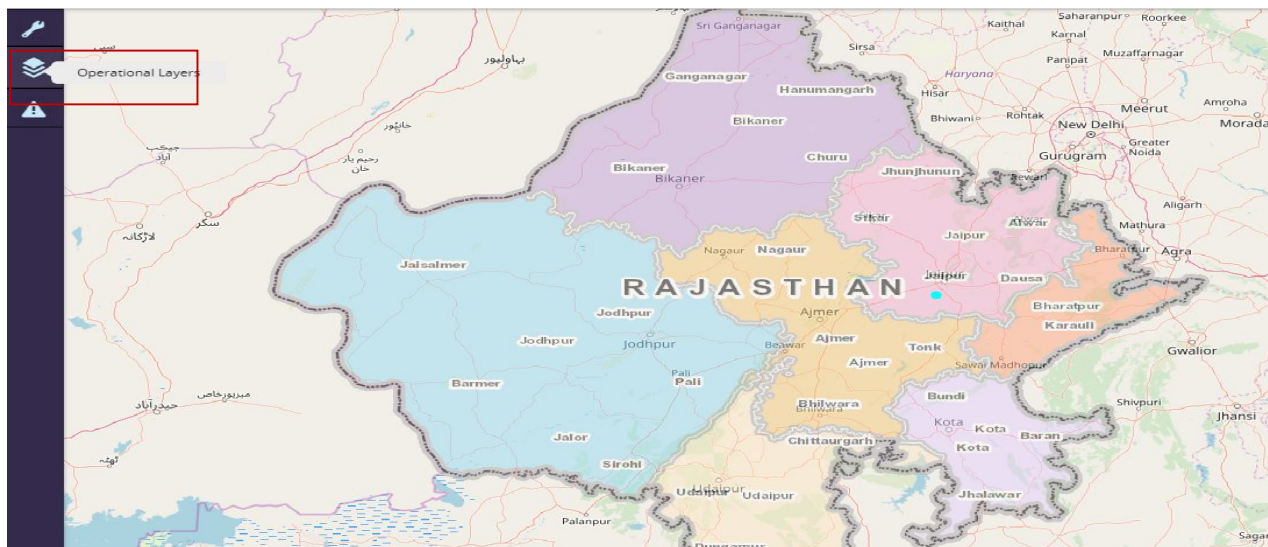

Fig – 2: Option for selecting Operational Layers

3. Click on Operation layers > respective layers will display (Fig – 3).

Fig- 3: Operational Layers

4. Click on "**+**" which is available beside Base Maps > it will expand (Fig-4)

5. Select respective map with the help of " 🚫 " icon indicates that map view is "OFF" where as " 👁 " indicates it's "ON" for which it helps to displays on map (Fig – 4a)

Fig - 4 : Basemaps and it's Types

Fig – 4 a: Option for Layers ON & OFF

6. Under "Base maps" need to select any one layer at a time i.e. Satellite or Streets or Topographic Where as Rajdhara Layer whenever it requires we can use ON or OFF. This will not include with other base maps layers which are available under Base Maps > By clicking on Rajdhara respective boundary will display.

7. For Close or minimize > click on "**-**" which is available beside Base maps >It will display like Fig-3

Operational Layers

1. Select Operational Layers by clicking on "**+**" (Fig – 5).

Fig – 5 Option for Selecting Operational Layers

2. For selecting Survey Assets click on "**+**" which is available beside "Survey Assets" > To view layers on map initially need to activate Survet Assets for that click on " 🚫 " icon which is available beside "Survey Assets" > once it changes to " 👁 " icon then selected layer under Survey Assets will display on map (Fig – 6).
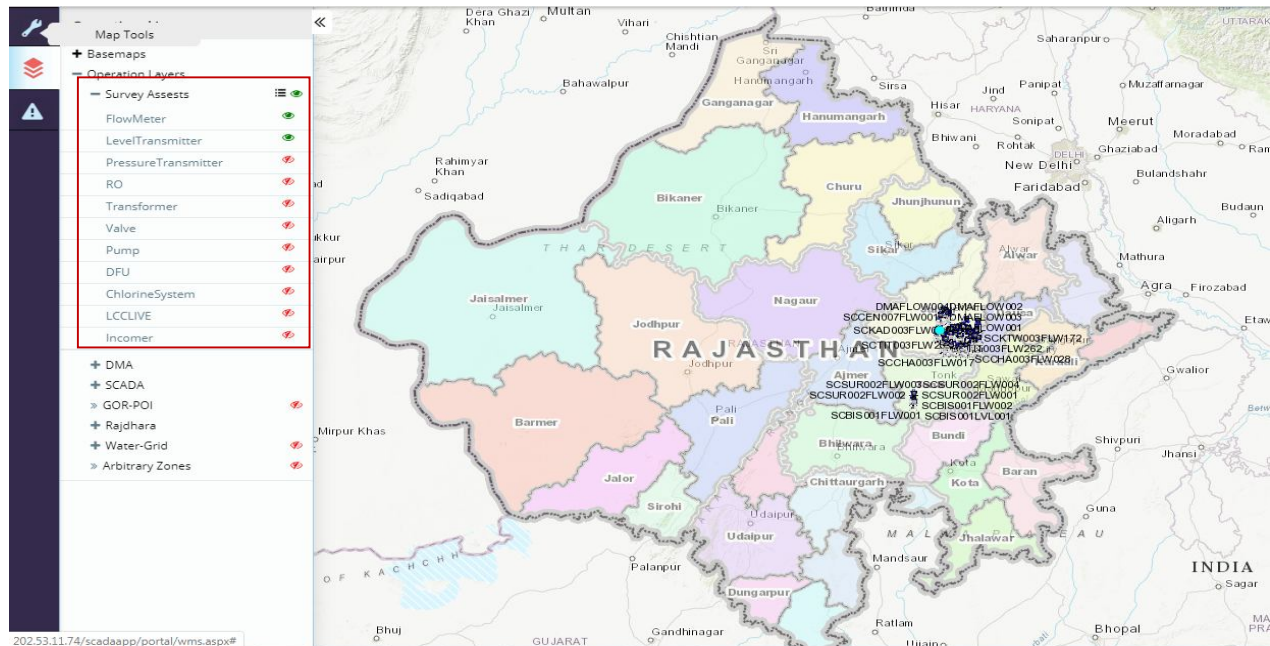
Fig – 6 Survey Assets and its Types

3. Under "Survey Assets" option is available to select all layers at a time > To check particular asset information click on respective asset >popup will display with detailed information (Fig – 7).
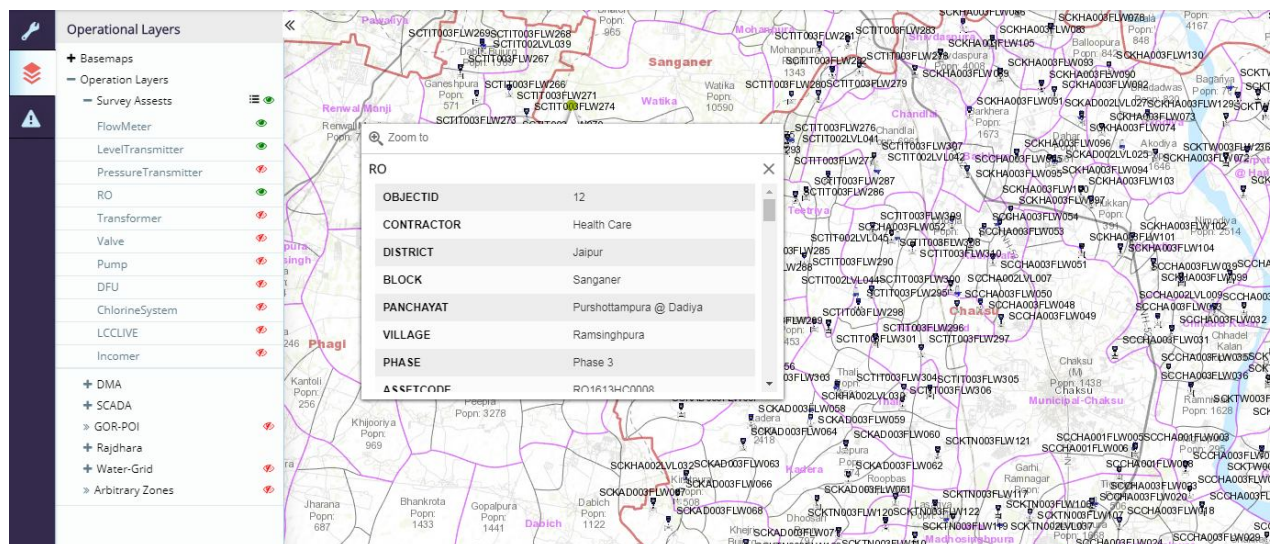

Fig – 7 Option for select Asset Information

4. Without selecting particular asset click on available assets then if it is present bulk then assets will details will display (EX : clicked on assets then asset wise it will display in 1of17 pages i.e. 17 assets has been selected. To see one by one click on " ▶ ") (Fig – 8).
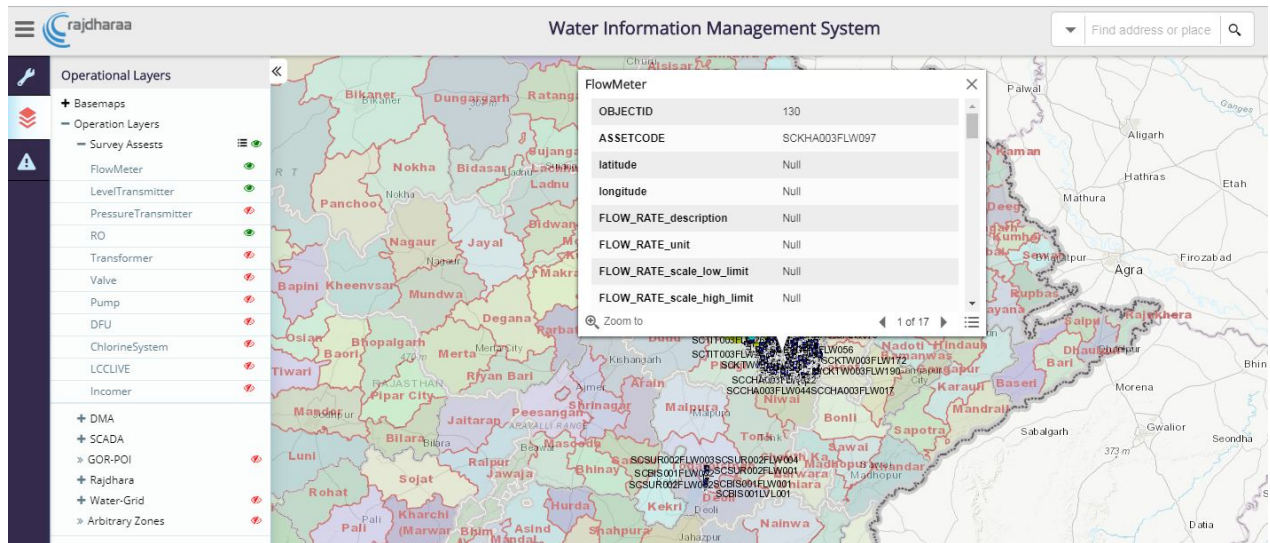
Fig – 8 Bulk Assets Information