



**National Hydrology Project** 





## **System Architecture**

All water data of India on one platform

Common Platform for Central and State Agencies

Real-time data available with one click

**GIS based Data Dissemination** 



## **Field** WIMS Water Data Agency Hierarchy Hydrological Meteorological Biophysical Quality Search **Telemetry GPRS** Modules Satellite Station / Sensor Hub रिष्टे Validation Agency Data **Model Data** Reports **Services**

Water Information Management System WIMS

Hydrological

Meteorological

Quality

**Telemetry** 

**Station Management** 





More than 105 GIS layers



**National Scale Database** 



**Public Platform** 



**Modular Delivery** 



**Real Time Dissemination** 



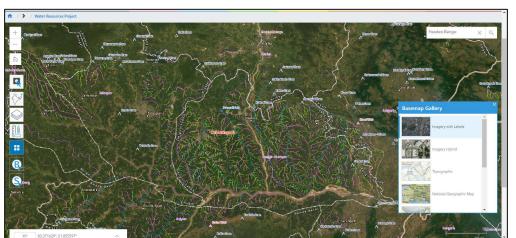
#### **Live Modules**

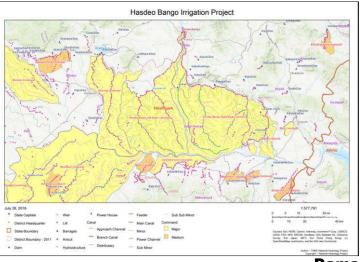


#### **Water Resources Projects**

- Information of all Major and Medium Projects of India
- Generation of online maps in different formats and sizes
- Selection of Features by State or Basin
- Download the Salient features







Dams
Barrages
Weirs
Anicuts
Lifts
Power House
Canal
Command Boundary
Hydrostructures

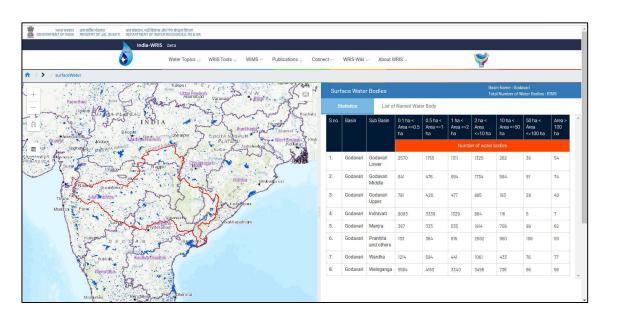


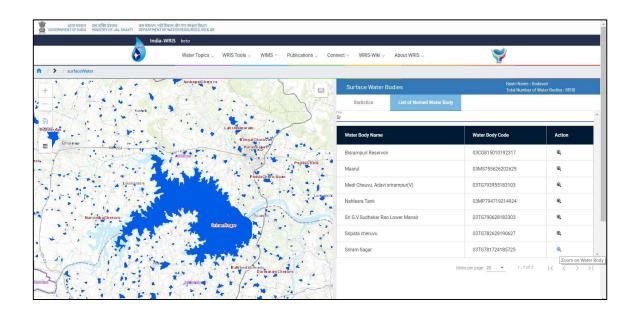
#### **Live Modules**



#### **Surface Water Bodies**

- Water Bodies visualization with State and Basin wise statistics and list of named waterbodies.
- Different area-wise classes with Districts / Sub basin wise numbers.



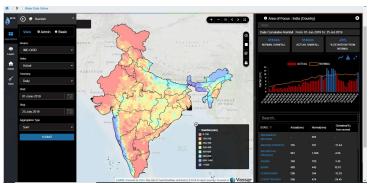


#### **Live Modules**

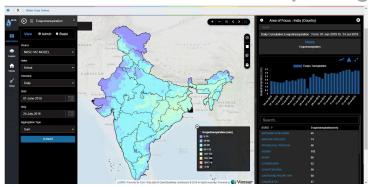


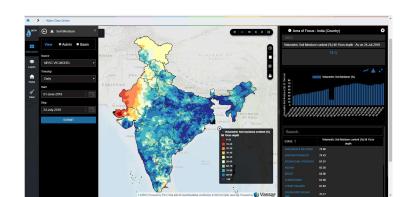
#### **Water Data Online**

- Historical and real-time data of Rainfall, Reservoir, River Point, Evapotranspiration, Soil Moisture and Ground water.
  - Powerful visualisations like heatmaps, tables, charts to view and analyse the data at different administrative and hydrological hierarchies

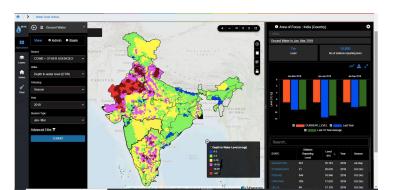










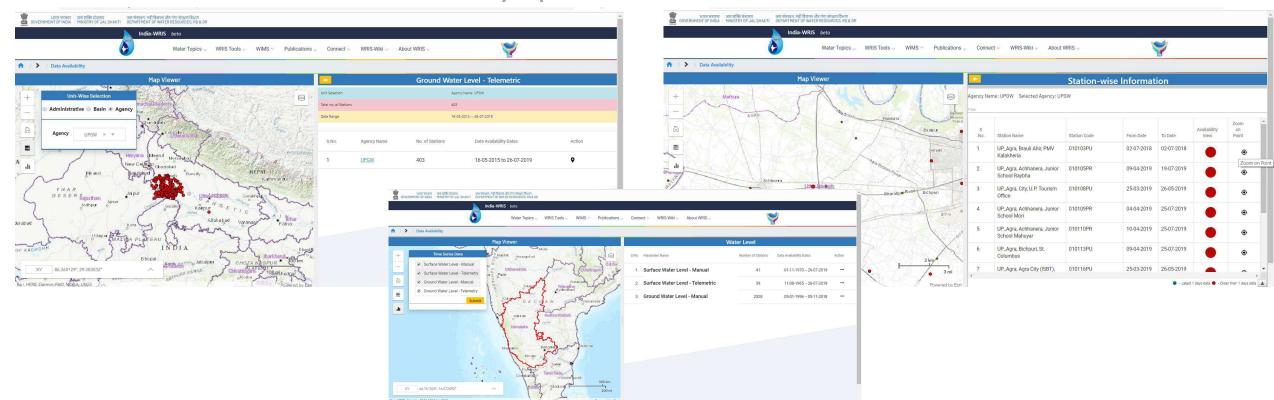


#### **Live Modules**



#### **Data Availability**

- Availability of time series data of telemetry and manual stations in States/Agencies/Basins
- · Map view of stations with recent availability based colour code
- Availability report download for selected unit



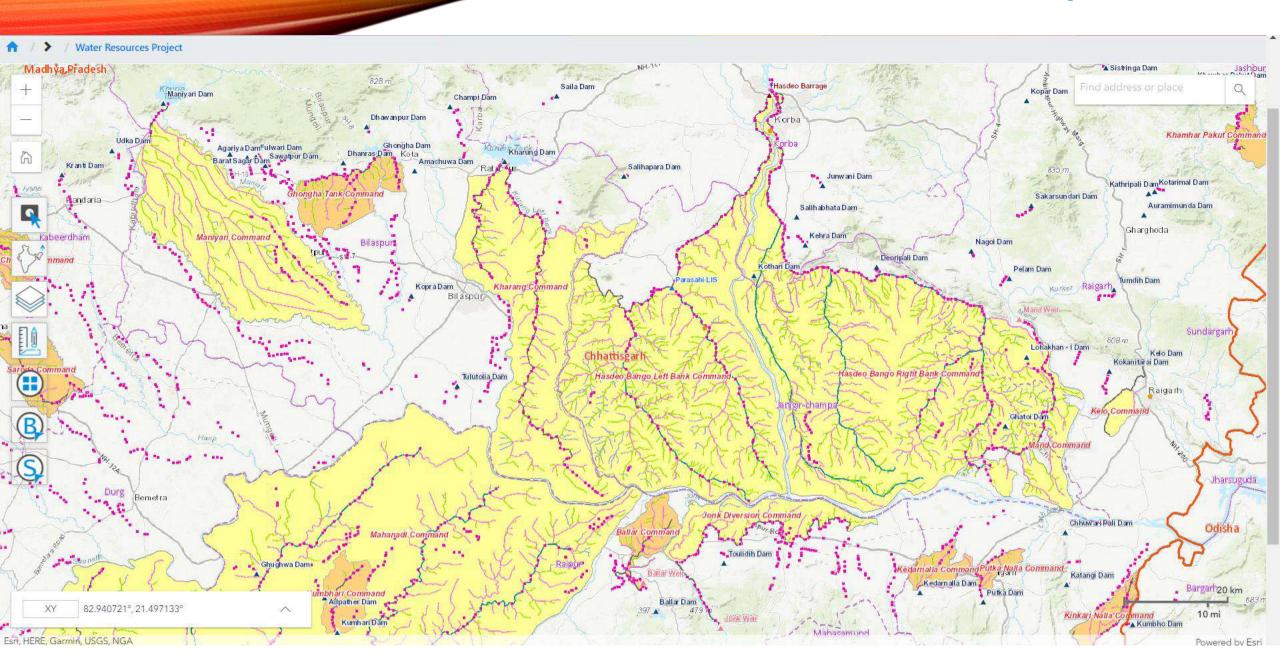
## Walk Through



## **Water Resources Project**

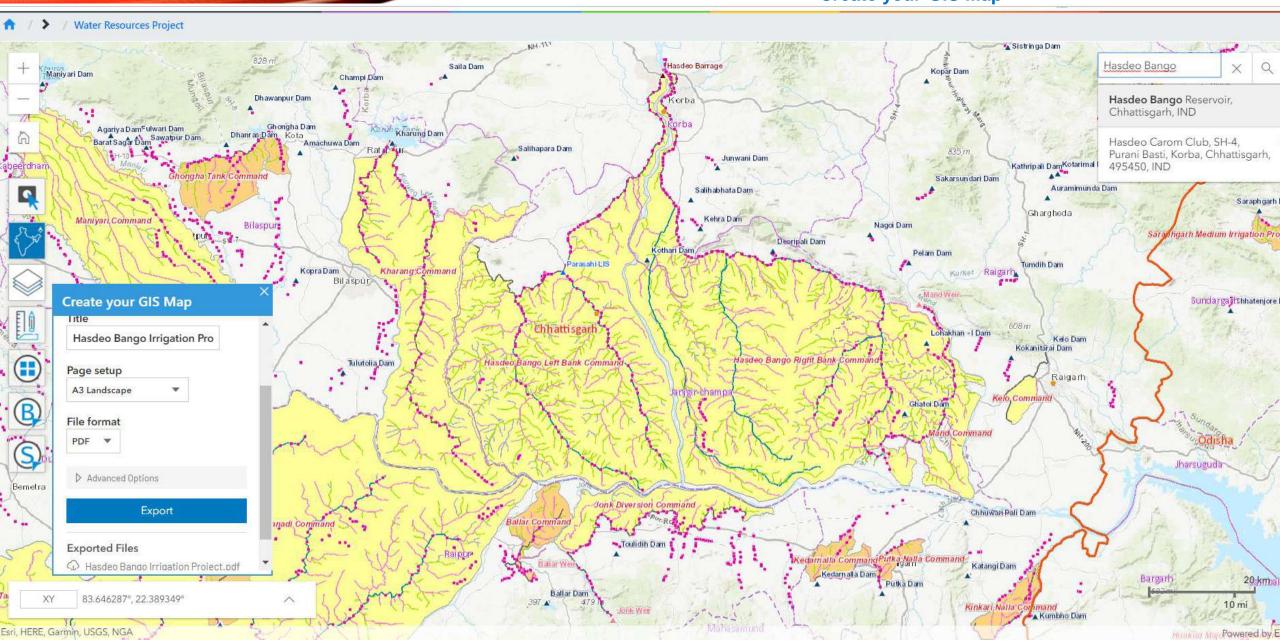


## Zoom to locate on map

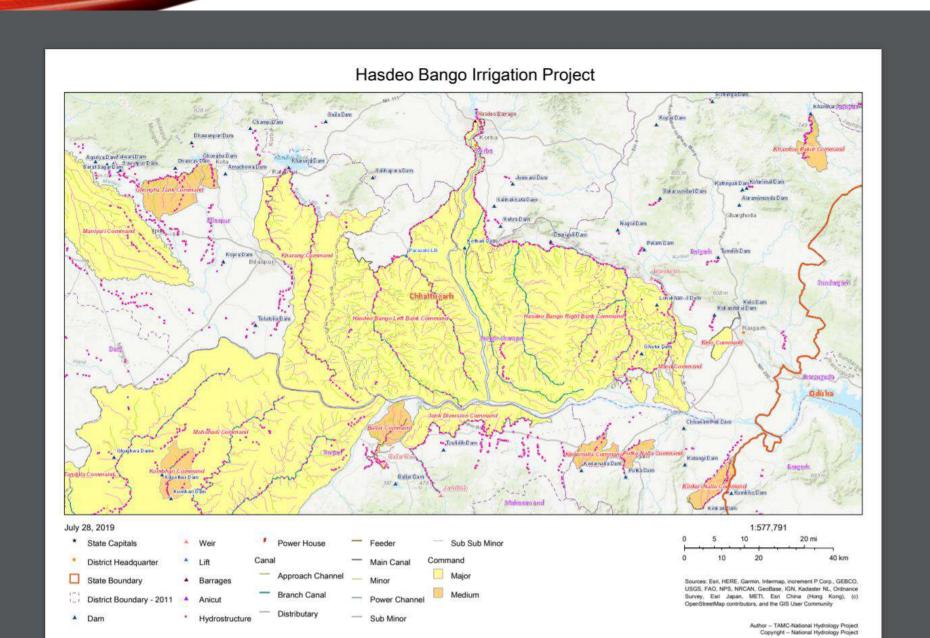


### **Use Global search**

**Create your GIS Map** 

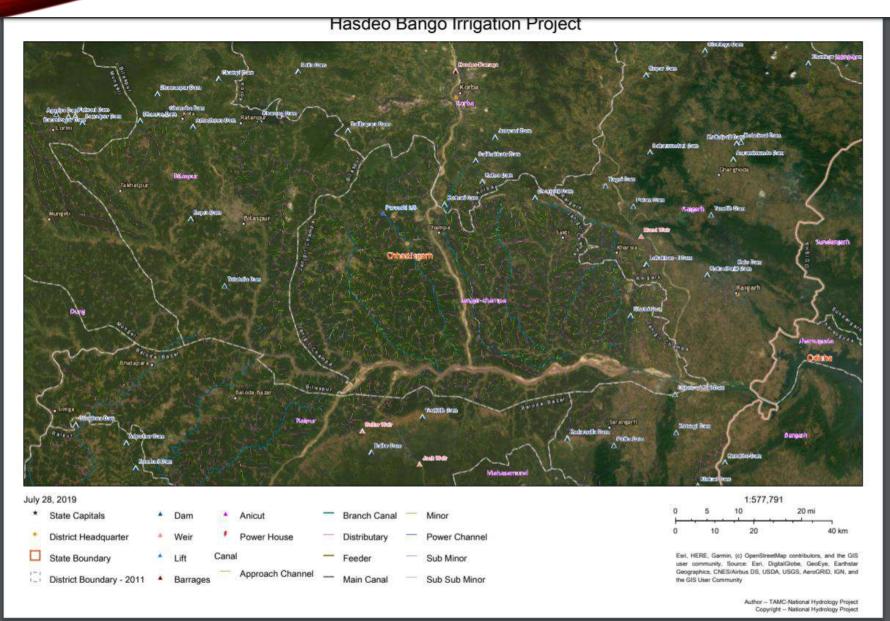


## Map with all map elements



### Basemaps – Satellite images / **Topomaps** ↑ / Water Resources Project **▲Sistringa Dam** Salla Dam A Hasdeo Bango Kapar Dam A Maniyari@am Chemina Dem Chamas Dem Kota Amachuwa Dam Ratanpur Junwani Dam 9 Sellhebhete Dam **Gharghoda** Kehno Dam Takhatpur **Basemap Gallery** Bilaspur Imagery with Labels -Imagery Hybrid Topographic Saloda Batat Bhatapara 🐰 National Geographic Map Baloda Bazar 83.371629°, 21.855597°

## Satellite Image Base map in Map layout



## **Surface Water Bodies**

Basin – Subbasin / State - District wise number of waterbodies in different area classes



जल संसाधन, नदी विकास और गंगा संरक्षण विभाग DEPARTMENT OF WATER RESOURCES, RD & GR

Water Topics 🗸



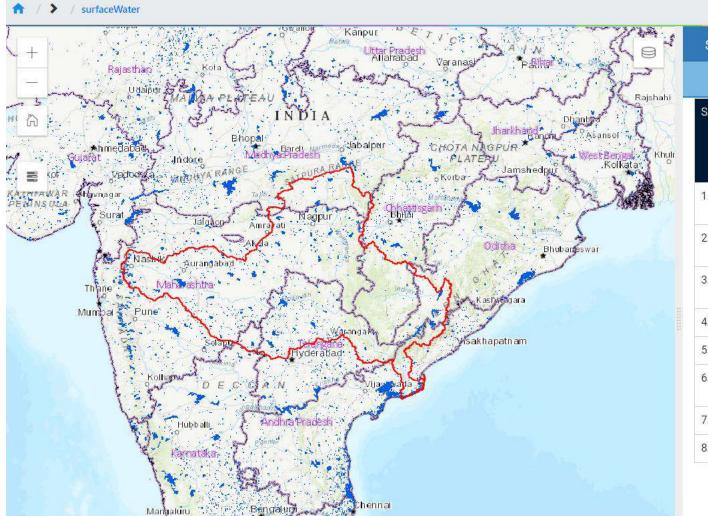
WRIS Tools V

Publications >

WRIS-Wiki ~

About WRIS V





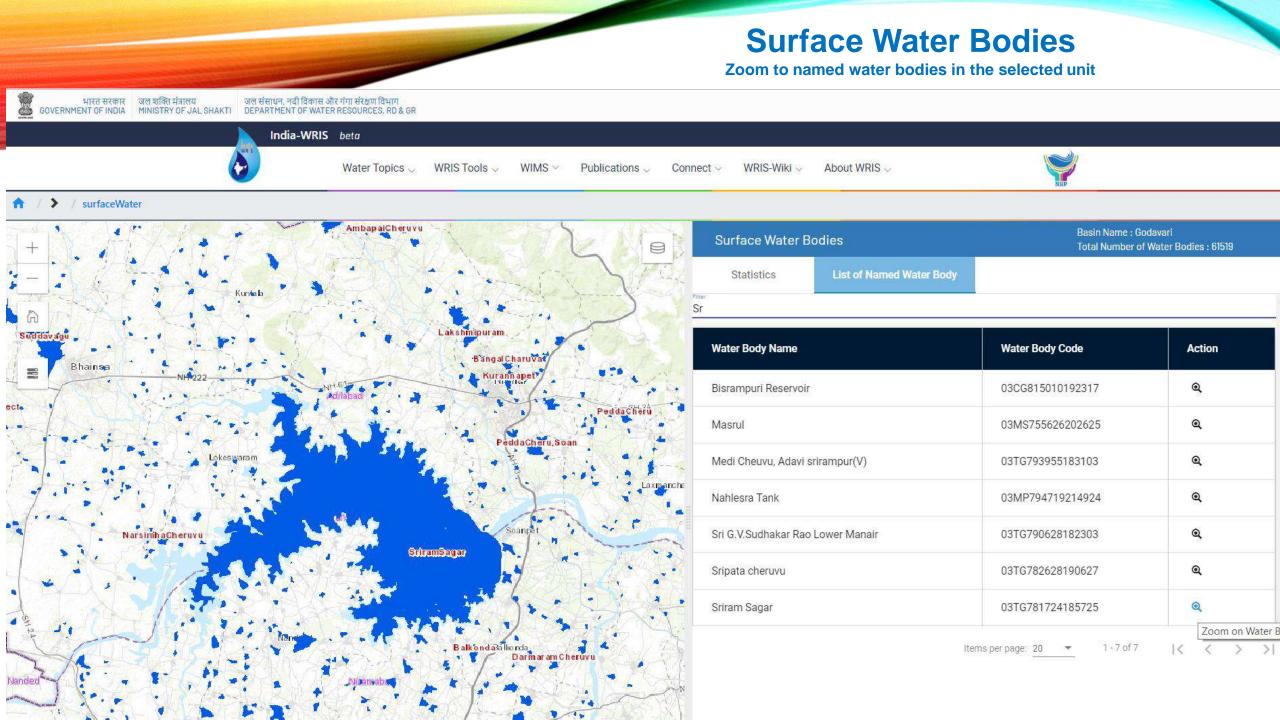
#### Surface Water Bodies

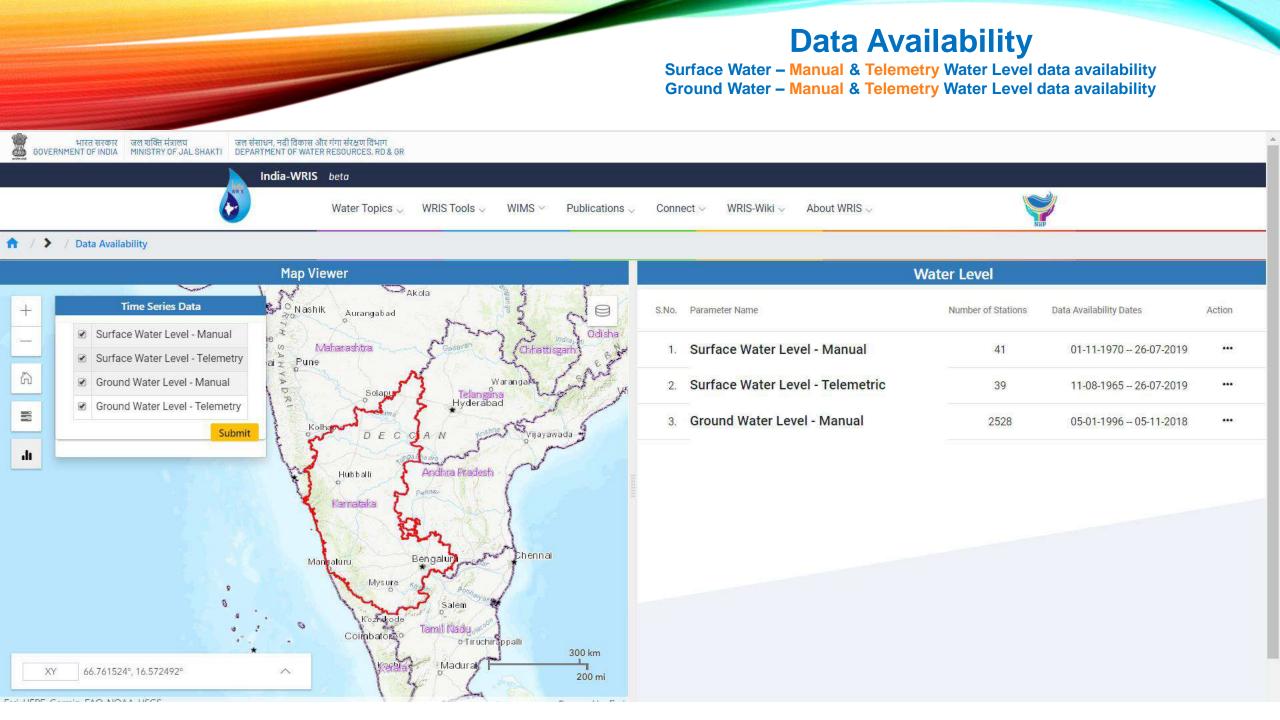
Basin Name : Godavari Total Number of Water Bodies : 61519

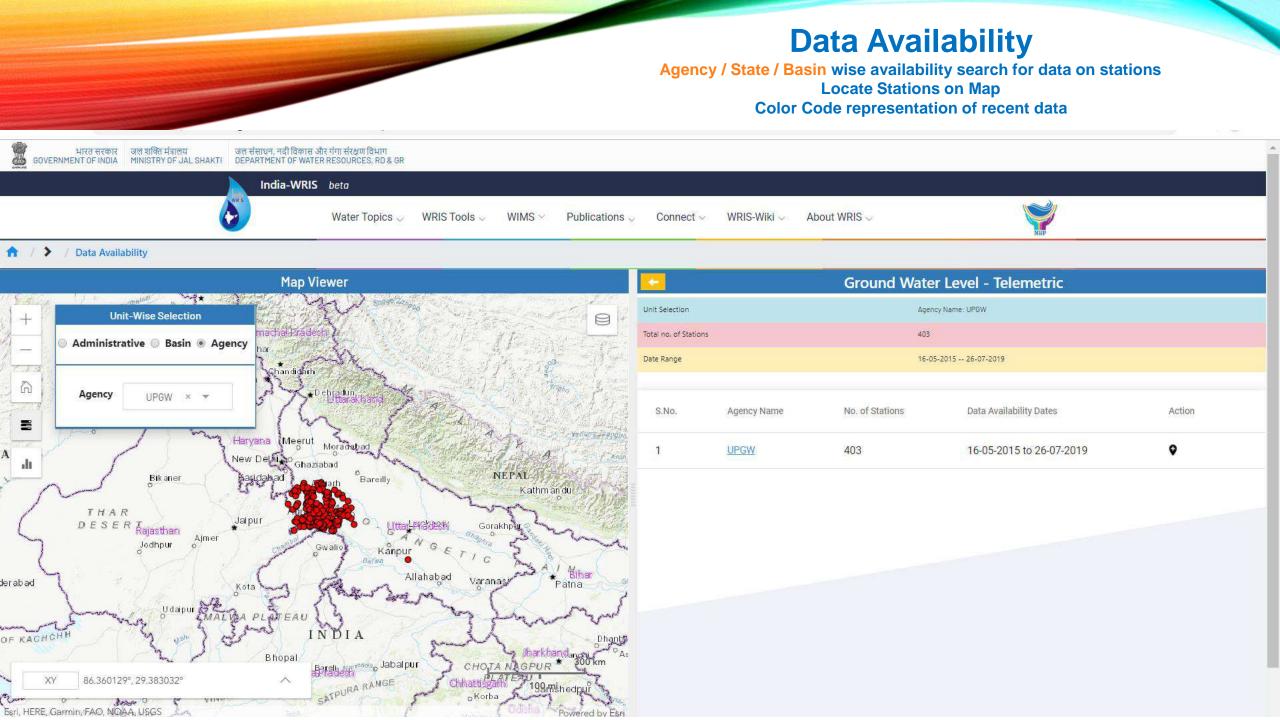
Statistics

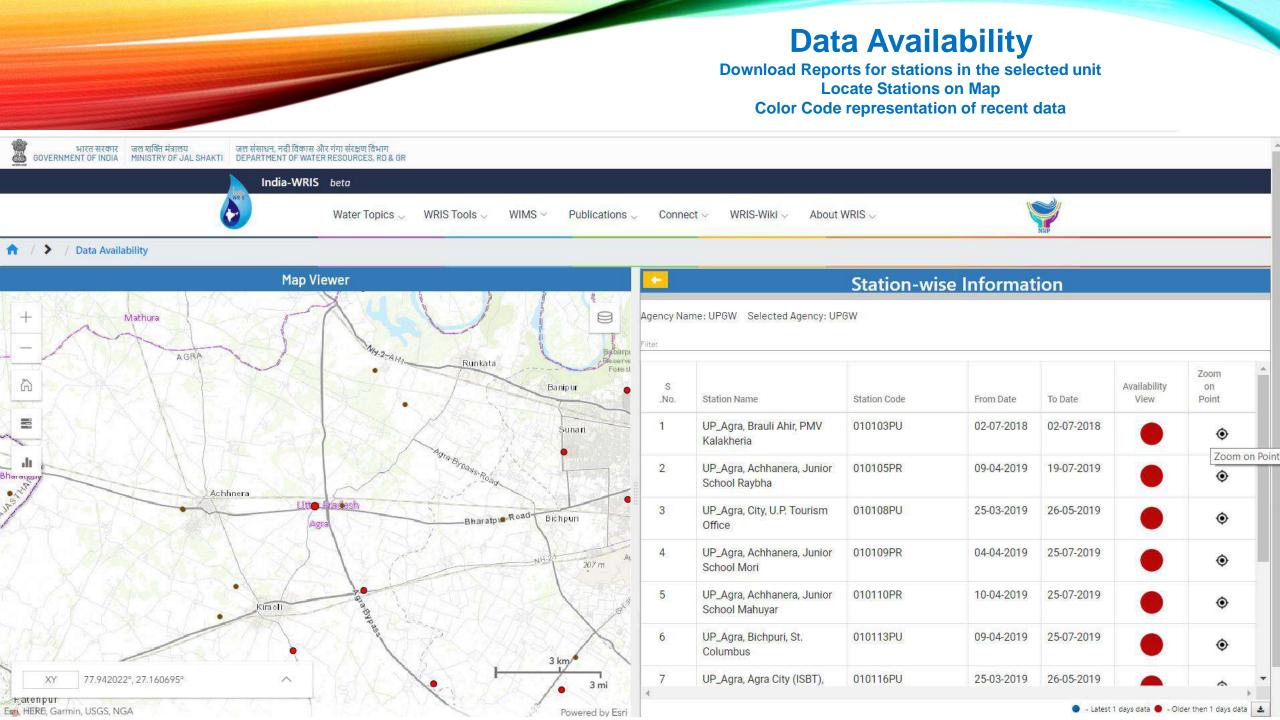
List of Named Water Body

S.no.	Basin	Sub Basin	0.1 ha < Area <=0.5 ha	0.5 ha < Area <=1 ha	1 ha < Area <=2 ha	2 ha < Area <=10 ha	10 ha < Area <=50 ha	50 ha < Area <=100 ha	Area > 100 ha
			Number of water bodies						
1.	Godavari	Godavari Lower	2570	1755	1311	1325	262	38	54
2.	Godavari	Godavari Middle	841	476	694	1734	584	91	74
3.	Godavari	Godavari Upper	781	426	477	885	183	28	40
4.	Godavari	Indravati	9083	3339	1329	664	116	5	7
5.	Godavari	Manjra	387	333	535	1914	709	99	62
6.	Godavari	Pranhita and others	133	364	815	2592	980	108	59
7.	Godavari	Wardha	1214	594	441	1061	433	76	77
8.	Godavari	Weinganga	5564	4163	3340	3455	736	66	56



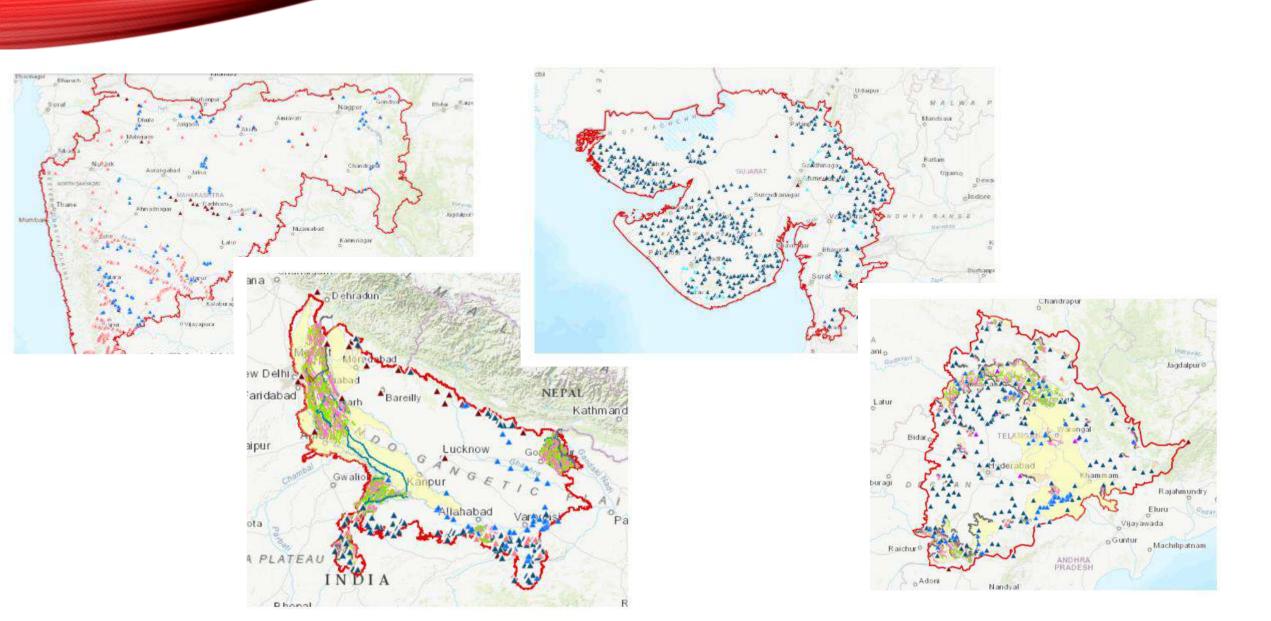






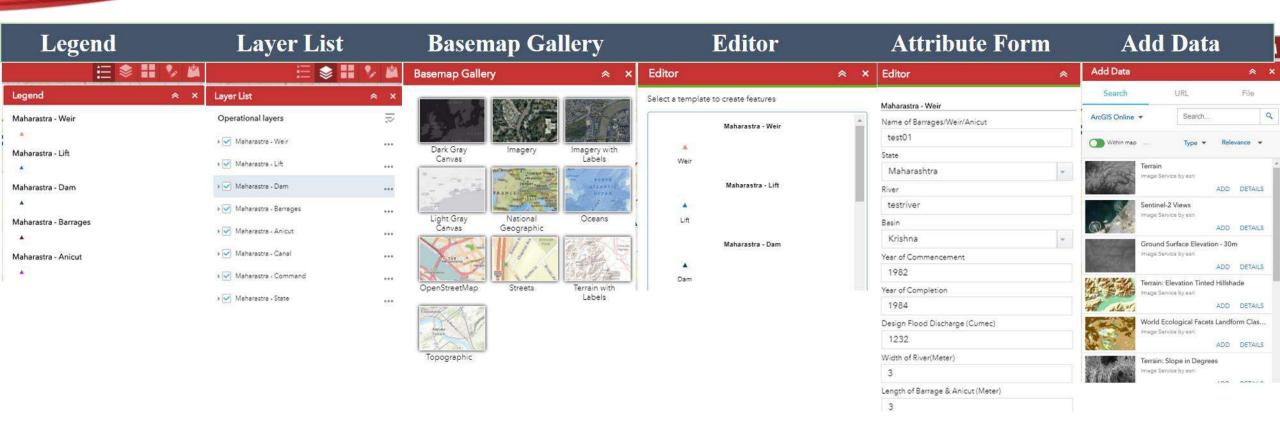
## **Online Web Editor**

Authorized State User Access Edit Irrigation Projects in of the state



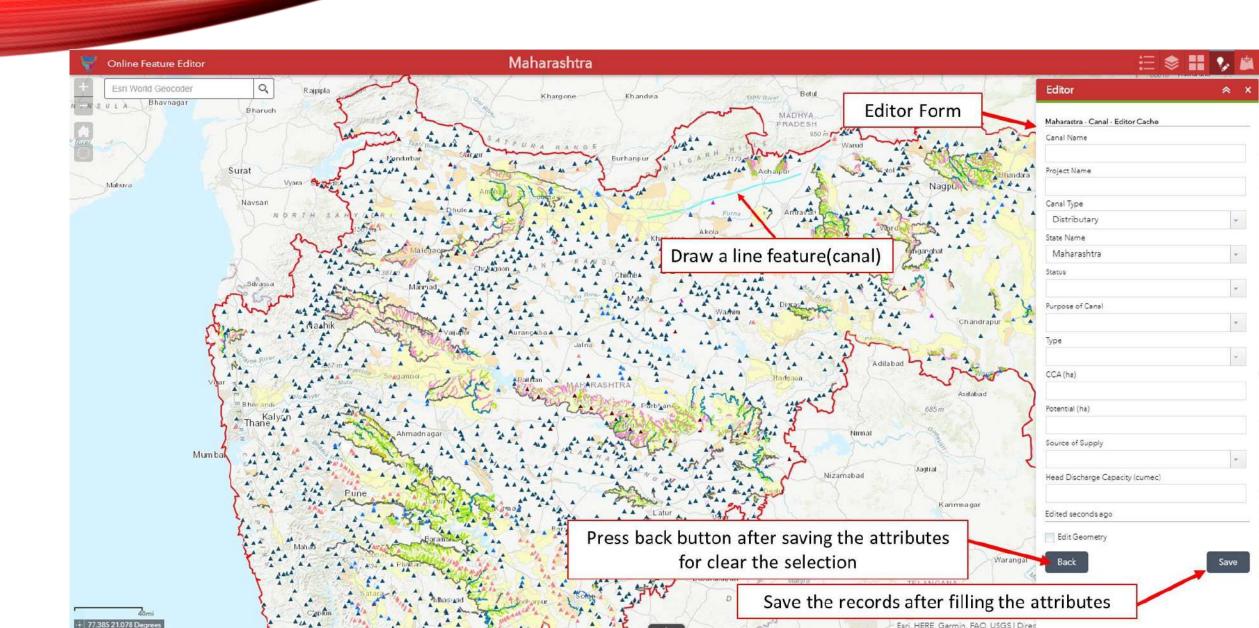
### **Online Web Editor**

**Tools for Editor** 



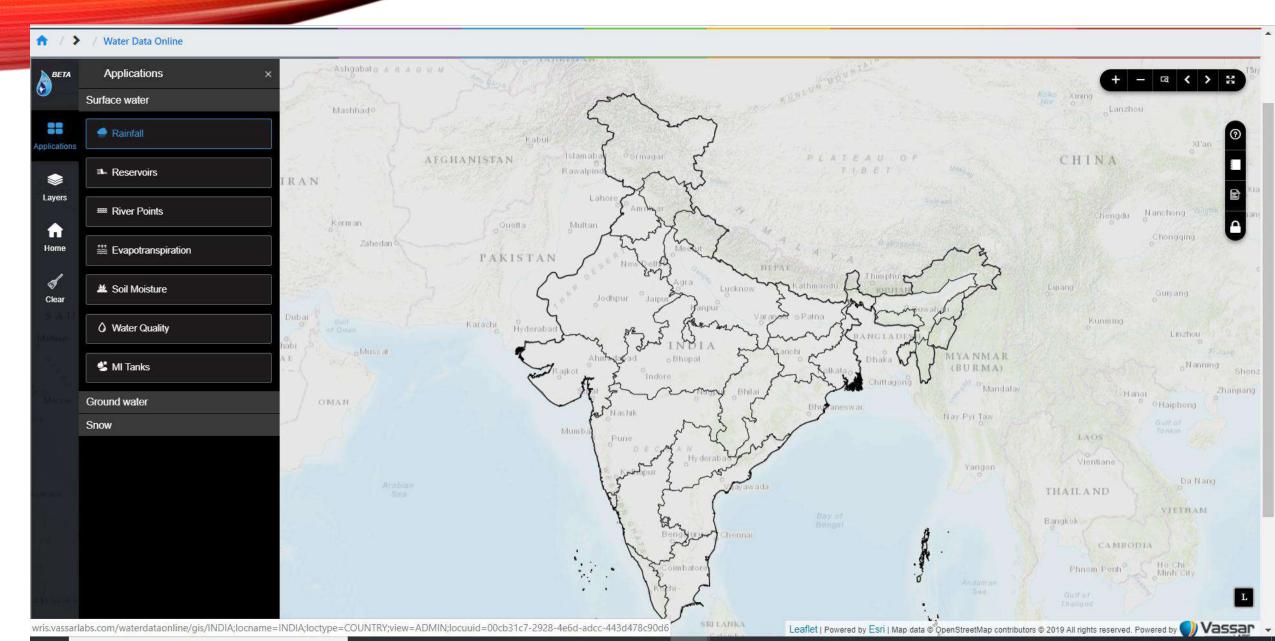
## **Online Web Editor**

**Feature Attribute Form** 



## **Water Data Online**

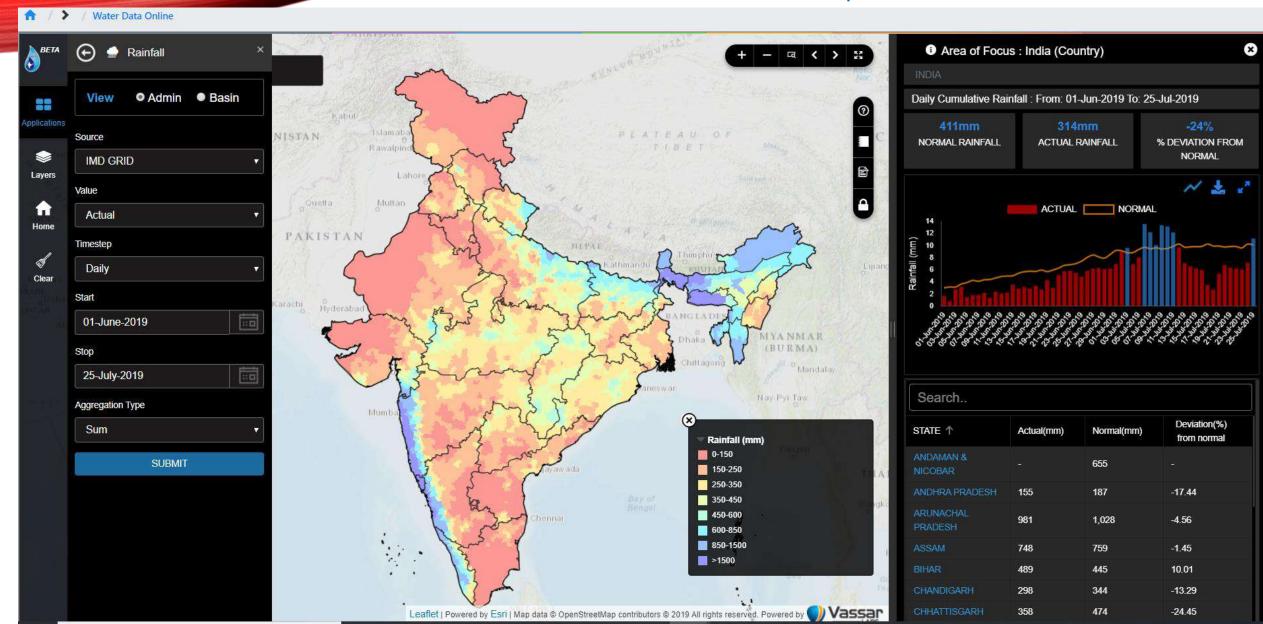
**Applications** 



### Rainfall

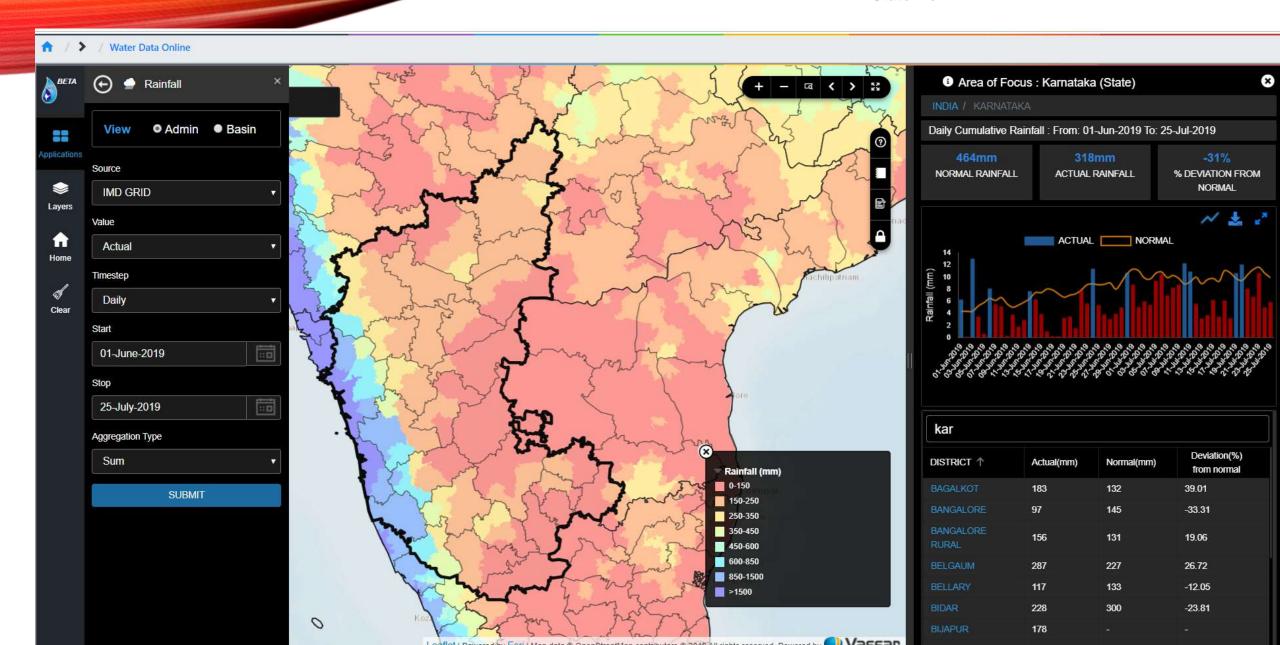
IMD Gridded / Central & State Agency Data

Data Visualization – Heat maps / Charts / Stats / Admin view / Basin view



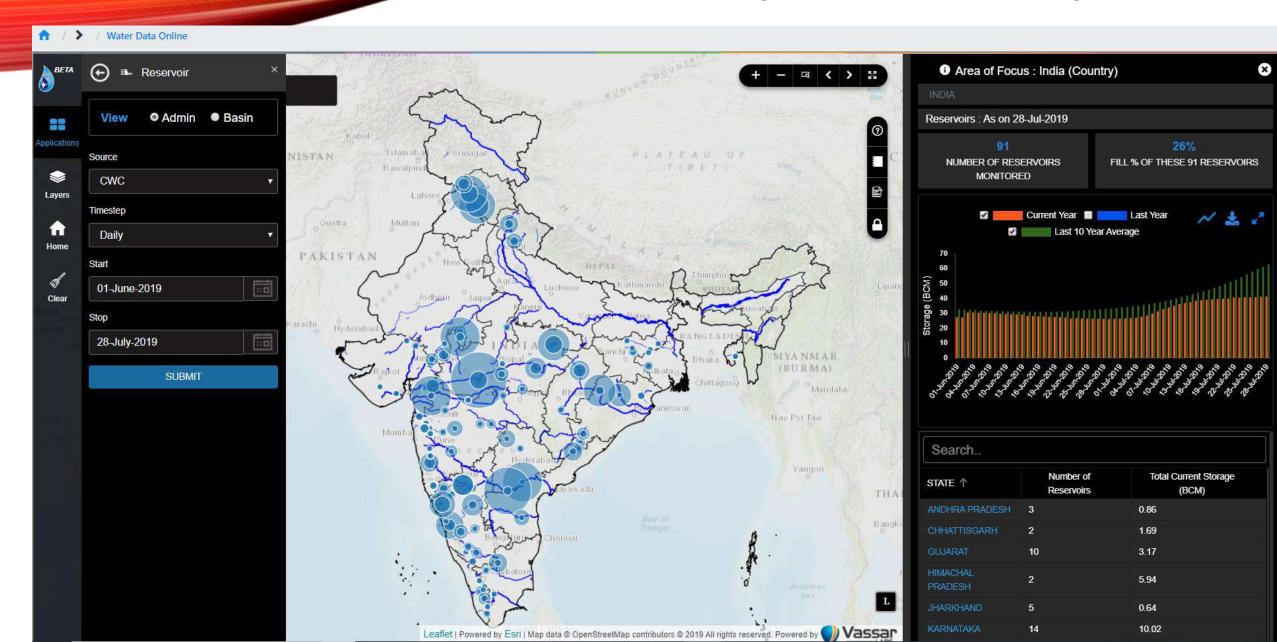
## Rainfall





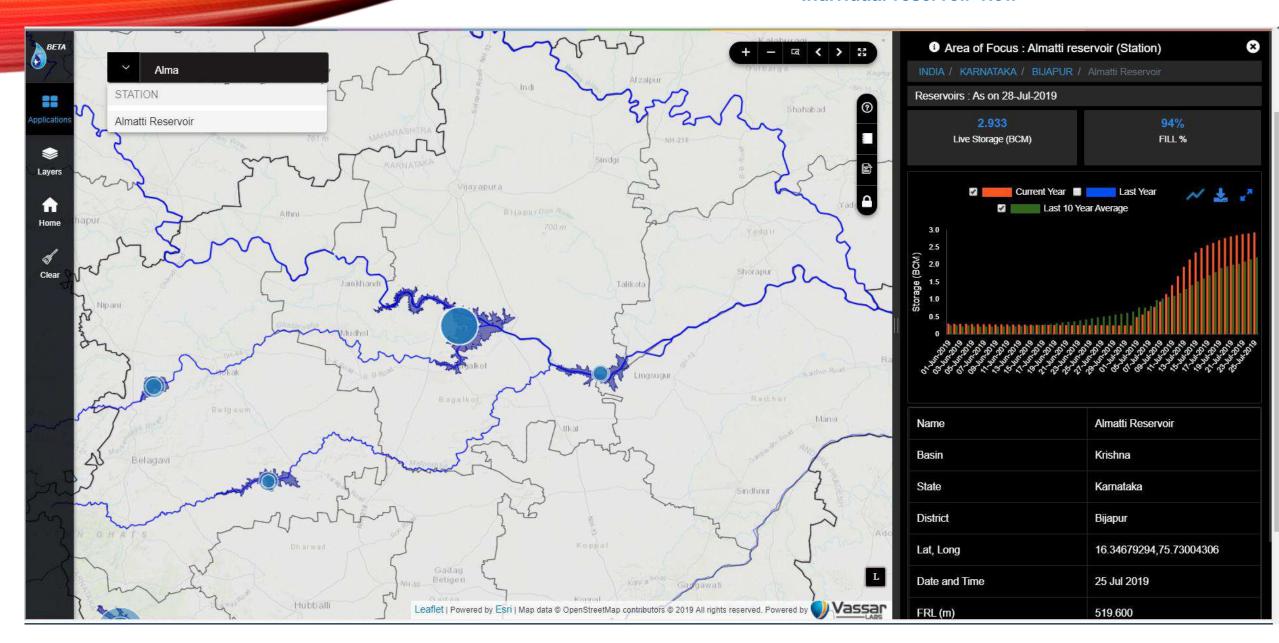
### Reservoir

Monitoring Reservoirs recent water level and storage data

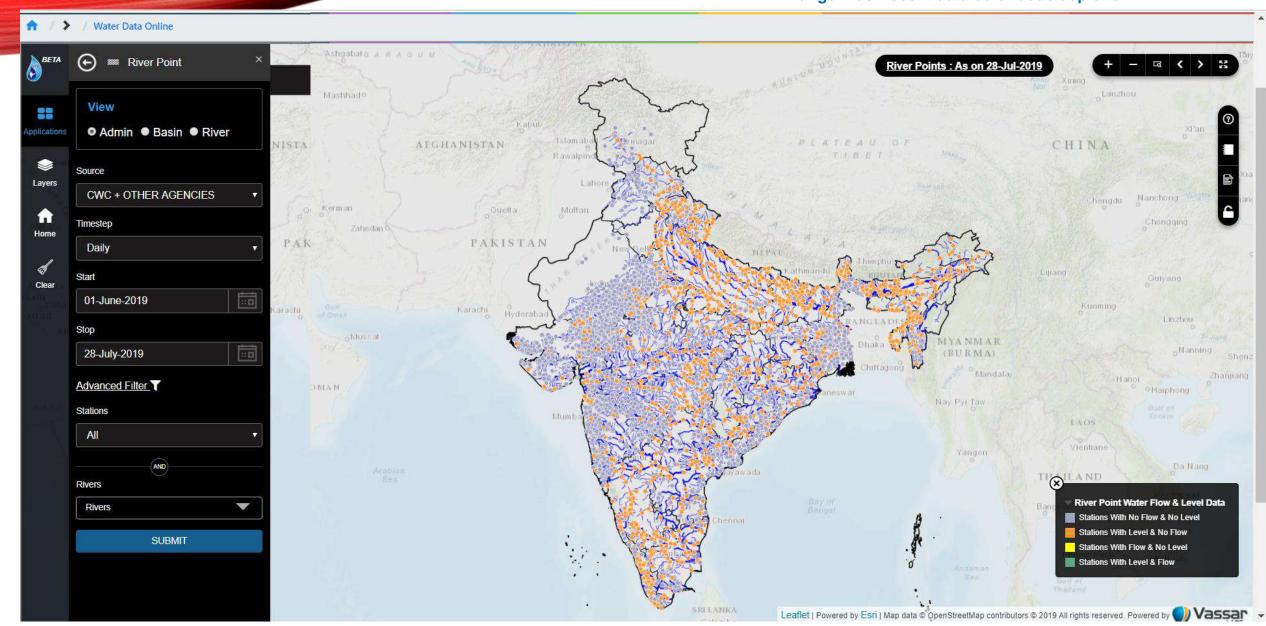


## Reservoir

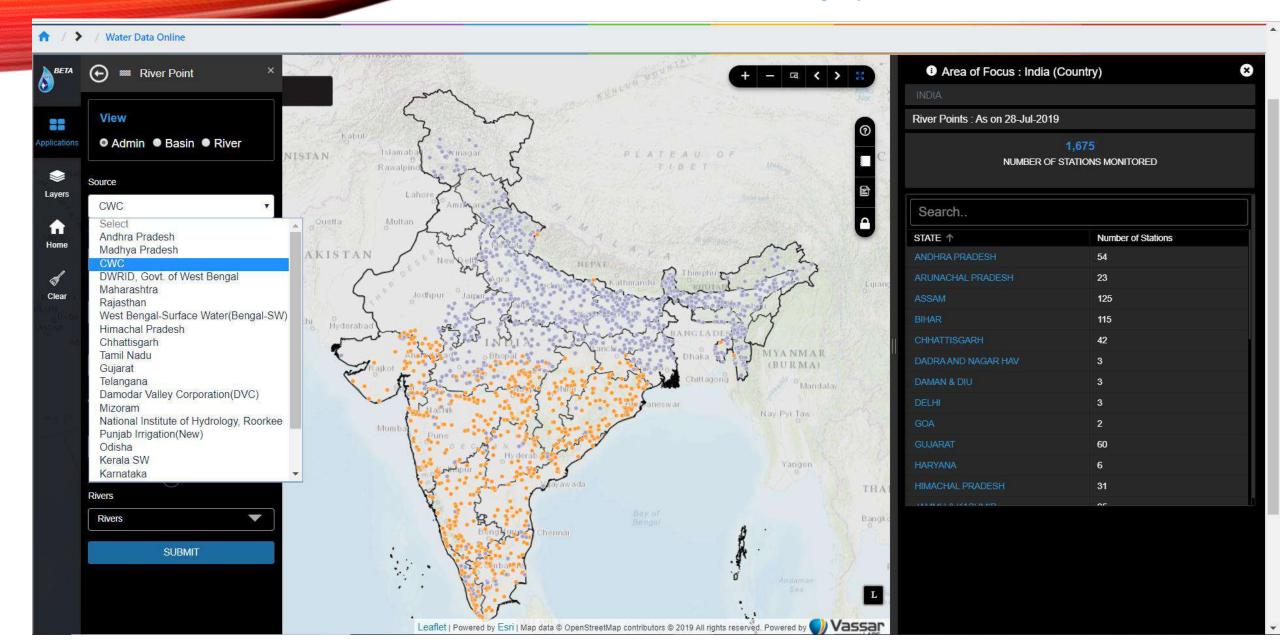
#### Individual reservoir view



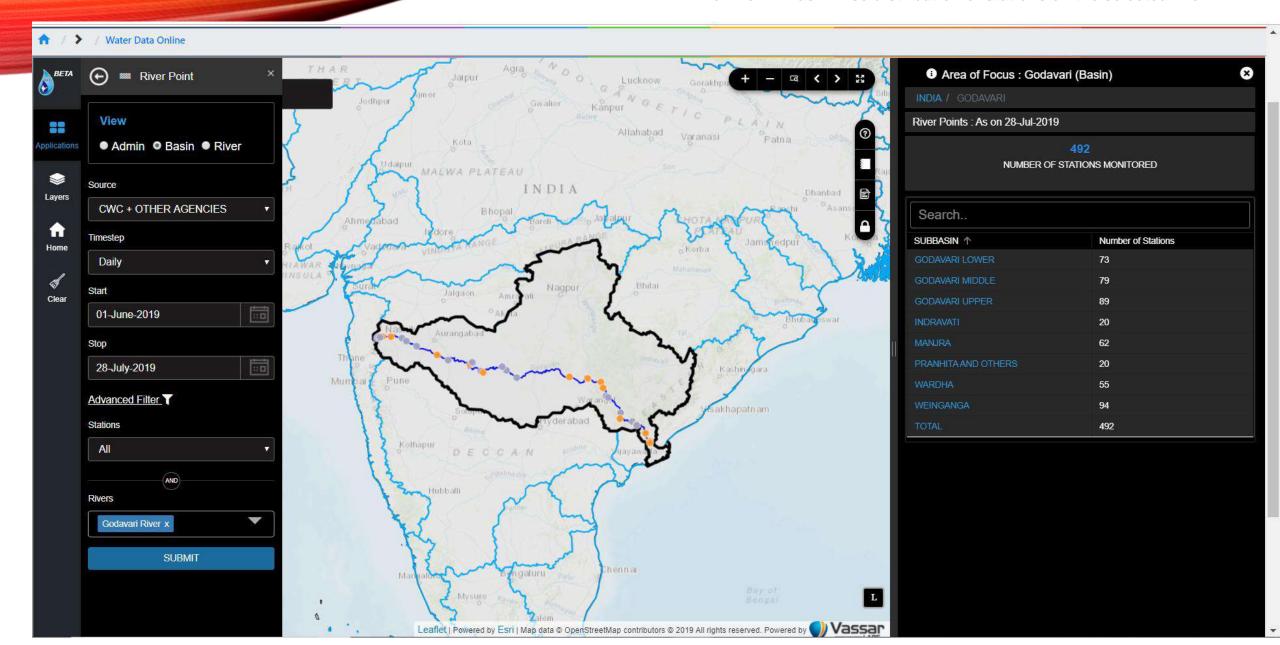
Agency wise – Stations with Water Level and flow data Within range most recent data color code depiction



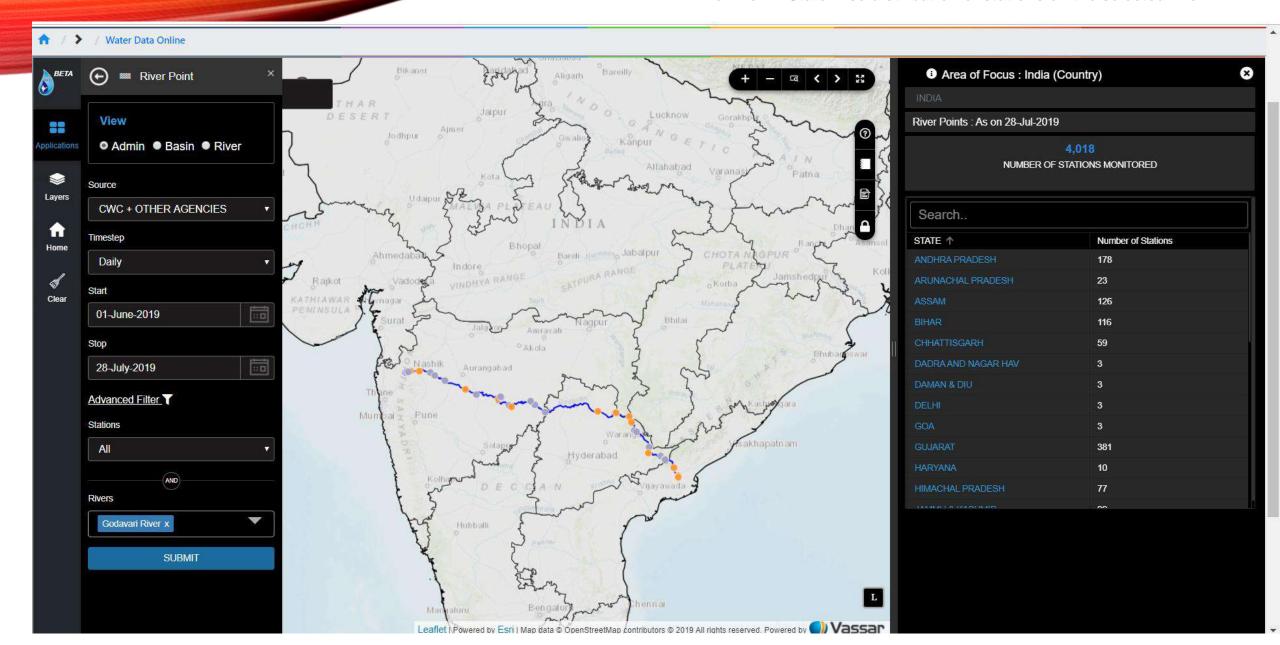
Agency wise - Filtered stations view



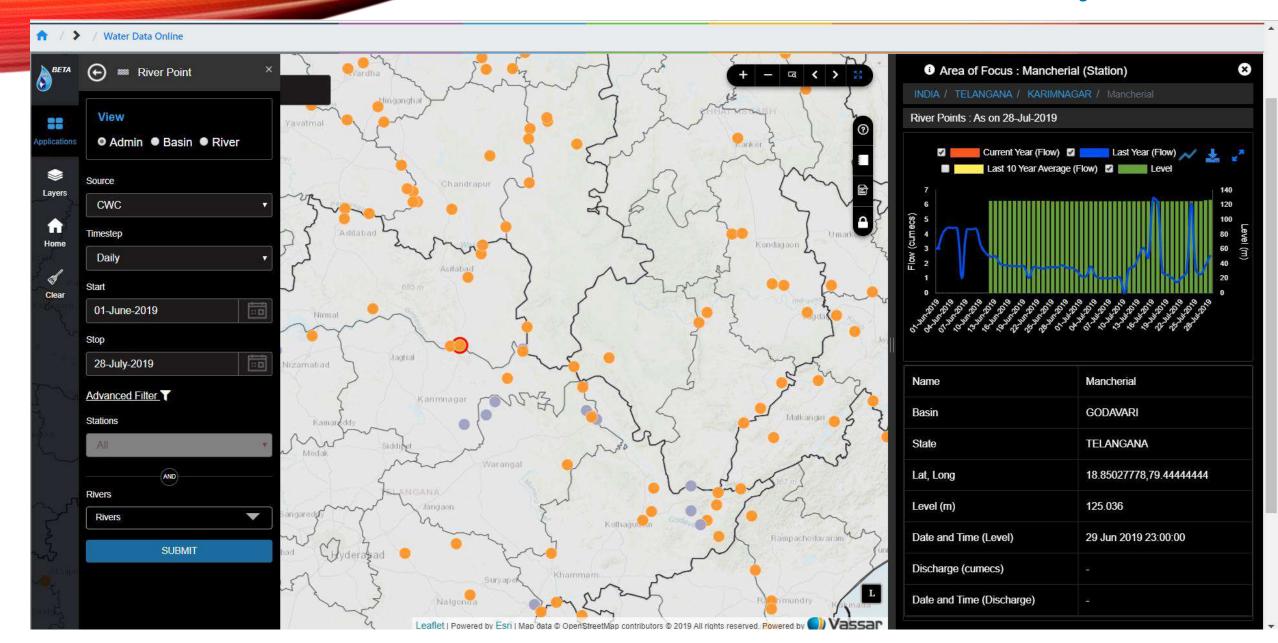
River View - Basin wise distribution of stations on the selected river



River View - State wise distribution of stations on the selected river

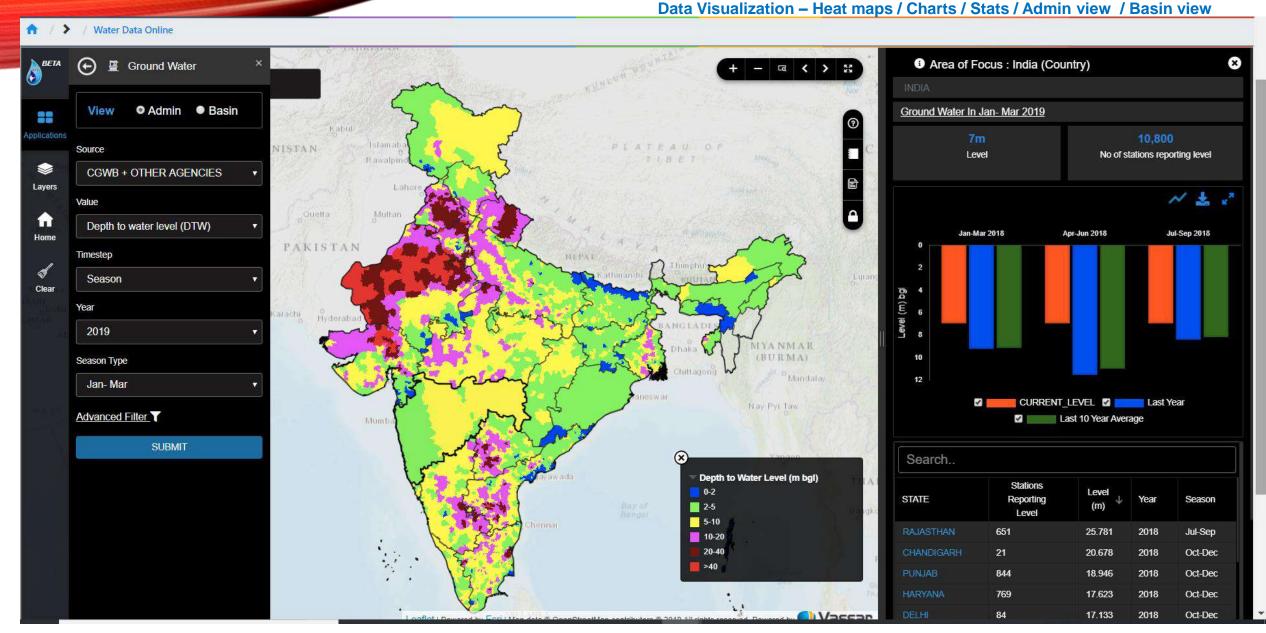


Station data view - Level and Discharge



### **Groundwater**

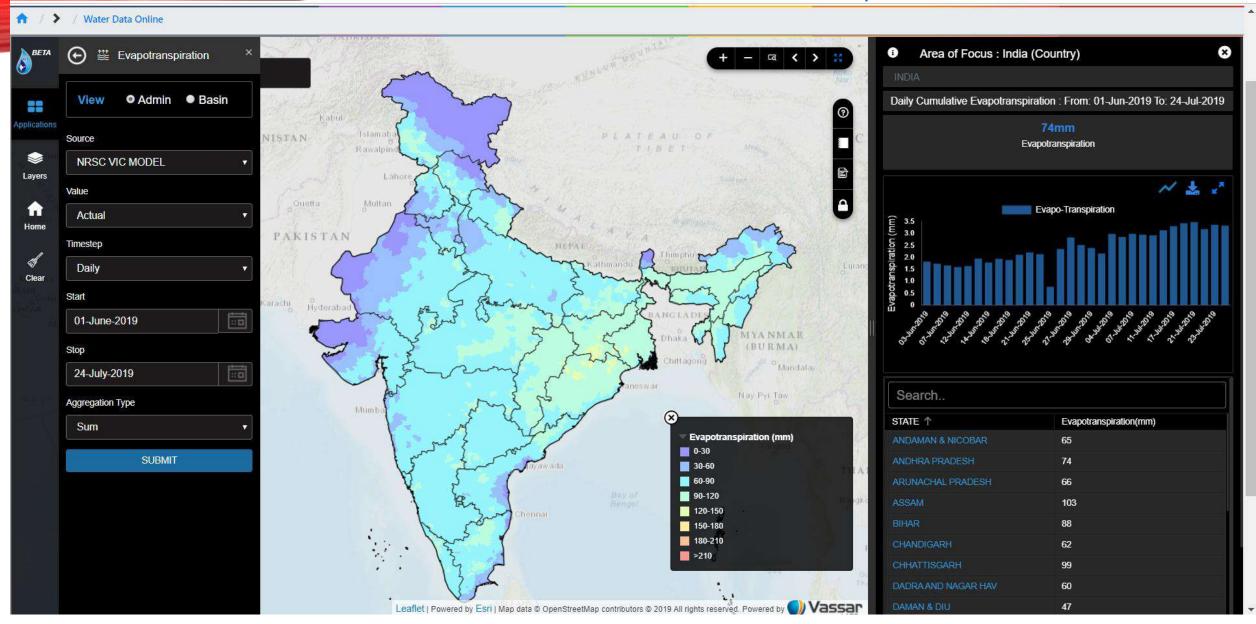
CGWB and State Data



## **Evapotranspiration**

NRSC VIC Model Gridded data

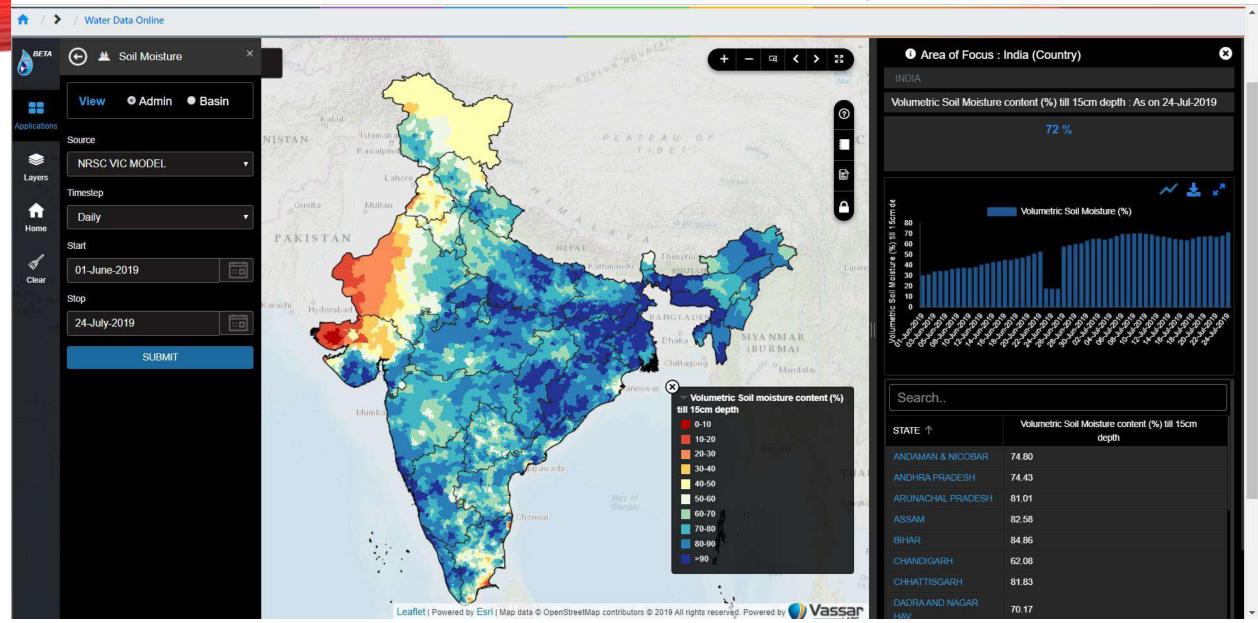
Data Visualization – Heat maps / Charts / Stats / Admin view / Basin view



### **Soil Moisture**

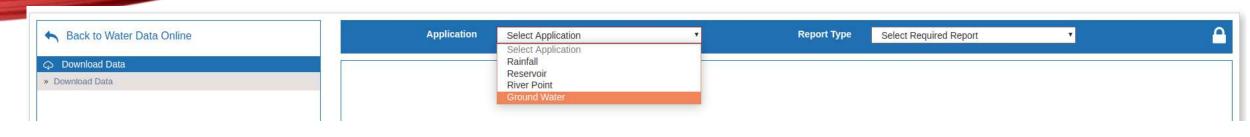
NRSC VIC Model Gridded data

Data Visualization – Heat maps / Charts / Stats / Admin view / Basin view

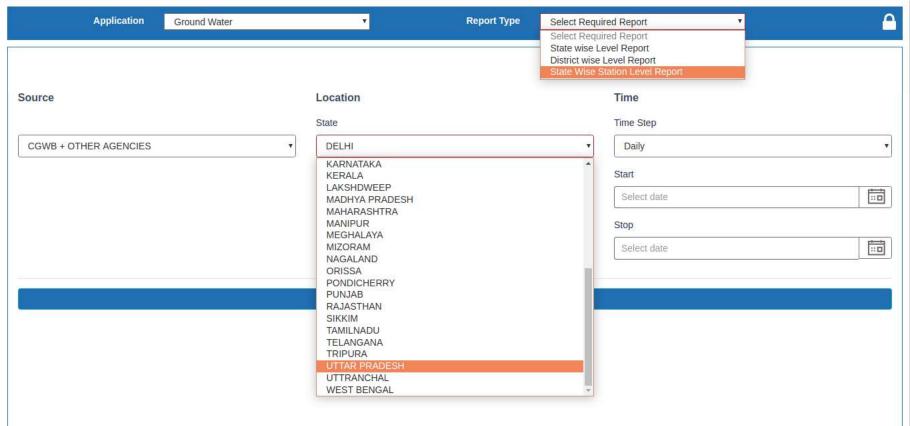


## **Report Download**

Groundwater data download State-wise/District wise/Station wise report



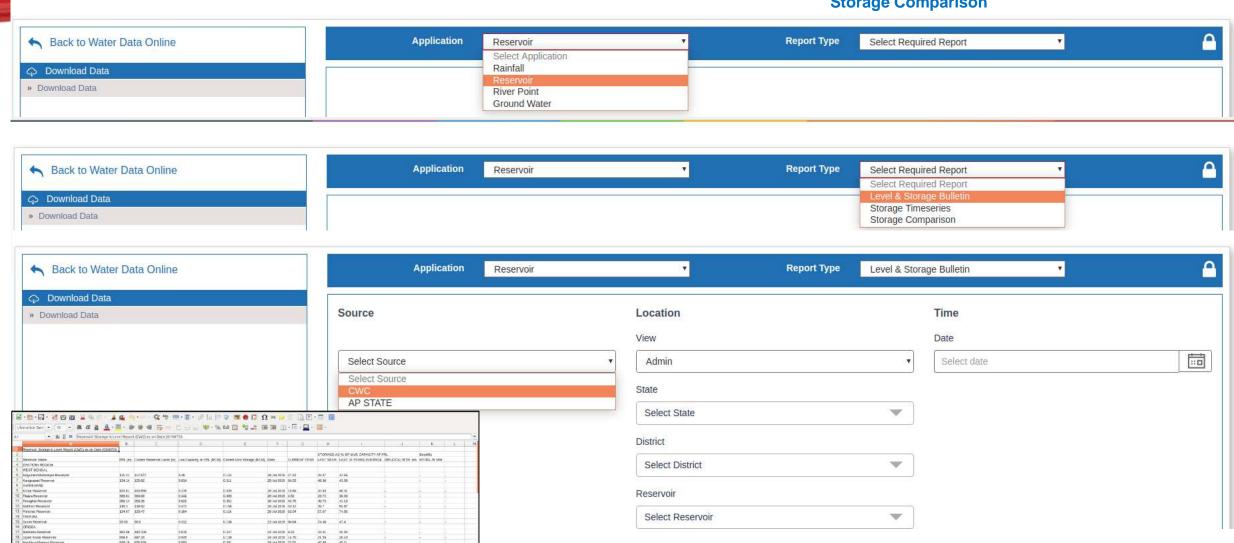






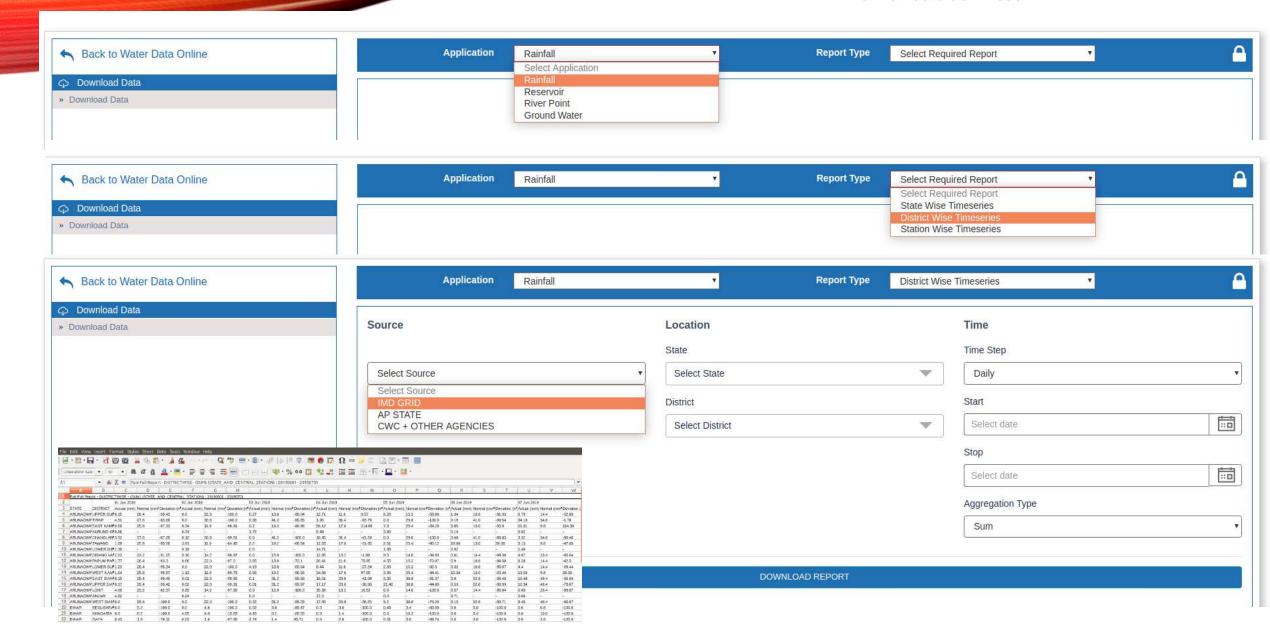
## **Report Download**

Reservoir data download Level & Storage Bulletin Storage Timeseries Storage Comparison



## **Report Download**

#### Rainfall data download



## Thank You