

# Fisheries and Animal Resources Mapping System (FARMS)

Geoportal developed for Fisheries & Animal Resources Development



Department, Govt. of Odisha  
**Odisha Space Applications Centre**  
Science & Technology Department, Govt. of Odisha

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## Fisheries and Animal Resources Mapping System (FARMS)

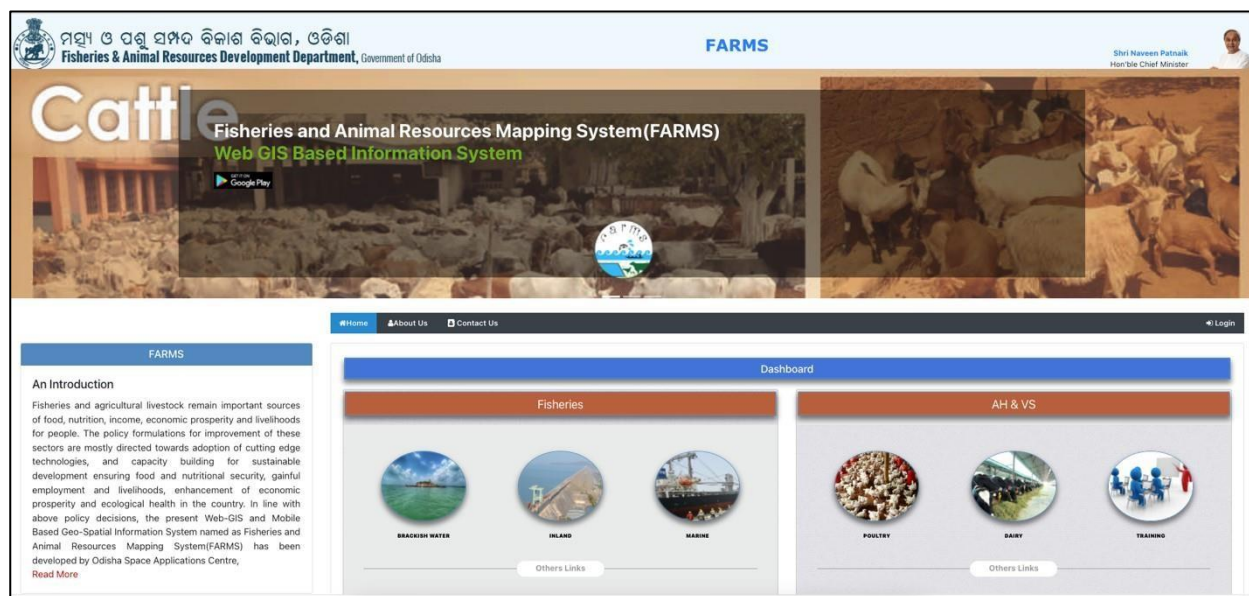
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## Introduction

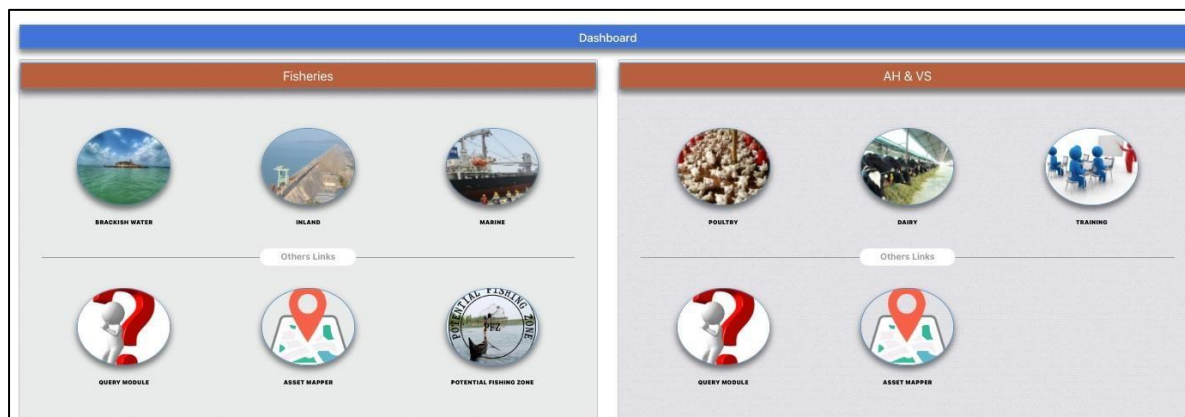
Fisheries and agricultural livestock remain important sources of food, nutrition, income, economic prosperity and livelihoods for people. The policy formulations for improvement of these sectors are mostly directed towards adoption of cutting-edge technologies, and capacity building for sustainable development ensuring food and nutritional security, gainful employment and livelihoods, enhancement of economic prosperity and ecological health in the country. In line with above policy decisions, the present Web-GIS and Mobile Based Geo-Spatial Information System named as Fisheries and Animal Resources Mapping System (FARMS) has been developed by Odisha Space Applications Centre, Science & Technology Department, Govt. of Odisha for the Fisheries and Animal Resources Development Department. Under this system, Spatial and Attribute data relating to all kinds of fisheries and animal resources/Assets will be generated using High Resolution Satellite Data and also by Mobile App and Web-GIS technology. Besides Geocoding/Geo-tagging of all the resources, assets will be embedded to the Web-Portal. The Portal is designed to provide information on the availability of resources and allied assets in any given part of the state.

## Main Dashboard

- Go to URL of your Browser and type – <https://farmsodisha.in> , <https://ofaris.in>
- This page has multiple navigations like Home, About Us, Contact Us and LOGIN.



- This Dashboard is divided into two sections (I) Fisheries and (II) AH&VS.
- In the Fisheries section there are six modules provided, these are Brackish Water, Inland, Marine, Query Module, Asset Mapper & Potential Fishing Zone.
- Query Module and Asset Mapper page are under construction.
- In AH&VS section there are five modules provided, these are Poultry, Dairy, Training, Query Module and Asset Mapper.



- Login into Your Account with your Mobile Number, Password and Valid Captcha.

## Fisheries and Animal Resources Mapping System (FARMS)



- To Reset Password, click on Forgot Password?

The image shows the 'Reset your Password' form. It includes the following fields and buttons:

- Mobile No.\* (text input with placeholder 'Enter Mobile No.')
- Security Question\* (dropdown menu with placeholder '-- Select Security Question --')
- Security Answer\* (text input with placeholder 'Enter Security Answer')
- Verify (button)
- Back to Login (link)

Provide Mobile Number, Security Question and Security Answer and Click Verify.



## Fisheries Department

- After successful Login: -Login Dashboard It showing Remote Sensing Data and Scheme Monitoring Data.

The screenshot shows the FARMS Dashboard with the 'Remote Sensing Data' section. The dashboard has a blue header with the FARMS logo, a home icon, a refresh icon, the title 'Fisheries and Animal Resources Mapping System(FARMS)', and a user profile 'Hello, prasnajit'. A left sidebar contains navigation links: Dashboard, Admin Console, Fishery MIS Module, Asset Map, Asset Management, Fresh Water, Brackish Water, Marine, and Scheme Monitoring. The main content area displays three tables for Marine, Fresh Water, and Brackish Water categories.

Marine			Fresh Water			Brackish Water		
Category	Remote-sensed	Tagged	Category	Remote-sensed	Tagged	Category	Remote-sensed	Tagged
FISHING HARBOUR	NA	9	BIO FLOC	NA	11	BW HATCHERY	NA	12
FISH LANDING CENTER	69	3	FW HATCHERY	NA	5	BW TANKS & POND	69119	2
			FW RESERVOIR	14326	7			
			FW TANKS & POND	NA	23			

The screenshot shows the FARMS Dashboard with the 'Scheme Monitoring' section. The dashboard has a blue header with the FARMS logo, a home icon, a refresh icon, the title 'Fisheries and Animal Resources Mapping System(FARMS)', and a user profile 'Hello, prasnajit'. A left sidebar contains navigation links: Dashboard, Admin Console, Fishery MIS Module, Asset Map, Asset Management, Fresh Water, Brackish Water, Marine, and Scheme Monitoring. The main content area displays a table for Scheme Monitoring with filters for Directorate (Fishery) and Year (2022-2023). The table has columns for Scheme, Class, Category, Beneficiaries, Gis Asset Tagged, and Gis Asset UnTagged.

Scheme	Class	Category	Beneficiaries	Gis Asset Tagged	Gis Asset UnTagged
Construction of Fish Rearing Ponds	FRESH WATER	FW TANKS & POND	154	0	154
Construction of Ponds for Brackish Water Aquaculture	BRACKISH WATER	BW TANKS & POND	8	0	8
Construction of Ponds for Freshwater Aquaculture	FRESH WATER	FW TANKS & POND	326	1	325
Setting up of Biofloc Aquaculture System	FRESH WATER	BIO FLOC	281	5	276

Showing 1 to 4 of 4 entries

Previous 1 Next

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# Admin Console

- User can navigate to Two Tabs –
- User Management & Menu Configuration.

## User Management

- View Tab – Showing Registered Users.
- Add Tab – To add New User.

View Add

**User List**

Show 10 entries Search:

First Name	Middle Name	Last Name	Role	Designation	Mobile	Email	Active	Action
admin		admin	SECRETARY	COMMISSIONER CUM SECRETARY	987090768	admin@gmail.com	true	
Anshuman		Dhal	ZONAL ADMINISTRATION	ADOL DIRECTOR ADMIN	700893269	anshumandhak@gmail.com	true	
Bikash	Hallick	Fishery	ADMIN	DIRECTOR	7008918613	bikash@gmail.com	true	
Binod		Sethi	ADMIN	DIRECTOR	7008446113	binod@gmail.com	true	
Debagjit		Mishra	ADMIN	DIRECTOR	9841042198	debagjit@gmail.com	true	
Kishor		Patra	DISTRICT ADMINISTRATION	ADOL FO (OTHERS)	9777629192	kishora@gmail.com	true	
Krishnendu		Dasgupta	ADMIN	DIRECTOR	916387892	krish@gmail.com	true	
Lalalendu		Muduli	DIRECTOR	DIRECTOR	989352394	lalalendu.muduli@orsac.team	true	
Lalalendu		Muduli	BLOCK ADMINISTRATION	ASSISTANT FO	700308008	lalalendu@gmail.com	true	
Lalalendu		Muduli	ADMIN	DIRECTOR	904042494	lalalendu@gmail.com	true	

Showing 1 to 10 of 21 entries Previous 1 2 3 Next

Provide all Mandatory Fields to Register New User.

View Add

**User Registration**

First Name\*

Middle Name

Last Name\*

Mobile No.\*

Password

Email\*

DOB\*

Aadhaar Number\*

Gender\*: ☒ MALE ☐ FEMALE ☐ OTHERS

Permissions: ☐ Edit ☐ Download ☐ Create

Department

Role

Designation

Authority

State

Save



# Menu Configuration

Able to Manage menu List.

Manage Menu List

Authority

-- Select Authority --

■ Dashboard

+

■ Admin Console

+

■ Fishery MIS Module

+

■ Asset Map

+

■ Asset Management

+

■ Inland Aquaculture

+

■ Brackish Water

+

■ Marine

+

■ Scheme Management

+

■ Manage Attribute

+

Save

## Fishery MIS Module

- User can navigate to One Tab –Waterbody.
- Waterbody – Waterbody List

WaterBody List

State

Odisha

Zone

-- Select Zone --

District

-- Select District --

Block

-- Select Block --

Gram Panchayat

-- Select Gram Panchayat --

Area(In AC)

--Select Operator--

Value

0

Search

Reset

View On Map

Show 10 entries

Search:

District	Block	Gram Panchayat	Water Body Type	Area Ac
No data available in table				

Showing 0 to 0 of 0 entries

Previous

Next

# Asset Management

- User can navigate to One Tab – Asset Details.

Assets List

State

Odisha

Zone

-- Select Zone --

District

-- Select District --

Block

-- Select Block --

Gram Panchayat

-- Select Gram Panchayat --

Revenue Village

-- Select Revenue Village --

OR

Asset Class

-- Select Asset --

Asset Category

-- Select Asset Category --

Search

Reset

Show

10

entries

Search:

Asset Id	Asset Name	District	Block	Gram Panchayat	Village	Asset Class	Asset Category	Action
No data available in table								

Showing 0 to 0 of 0 entries

Previous

Next

- It shows Asset List by providing all details (State, District, Block, Gram Panchayat etc.) and then Search or Reset.

## Fresh Water

- User can navigate to 4 Tabs – Freshwater Ponds, Bio-Floc Tanks, Fresh Water reservoirs, Fresh Water Hatcheries

## Freshwater Ponds



## Fisheries and Animal Resources Mapping System (FARMS)

Asset Id	Owner Name	District	Block	Go	Type	Scheme	Area(HA)	Annual Production(KG)	Tagged Status
854	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Excavation of Brackishwater Ponds for Aquaculture	55	25	Tagged
859	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Excavation of Brackishwater Ponds for Aquaculture	55	10	Tagged
856	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Excavation of Brackishwater Ponds for Aquaculture	56	15	Tagged
857	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Excavation of Brackishwater Ponds for Aquaculture	56	15	Tagged
855	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Excavation of Brackishwater Ponds for Aquaculture	58	15	Tagged
823	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Matiya Pukhuri Vojana	20	30	Tagged
822	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Matiya Pukhuri Vojana	20	30	Tagged
821	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Matiya Pukhuri Vojana	20	30	Tagged
820	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Excavation of Brackishwater Ponds for Aquaculture	58	56	Tagged
819	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	-	Excavation of Brackishwater Ponds for Aquaculture	58	56	Tagged

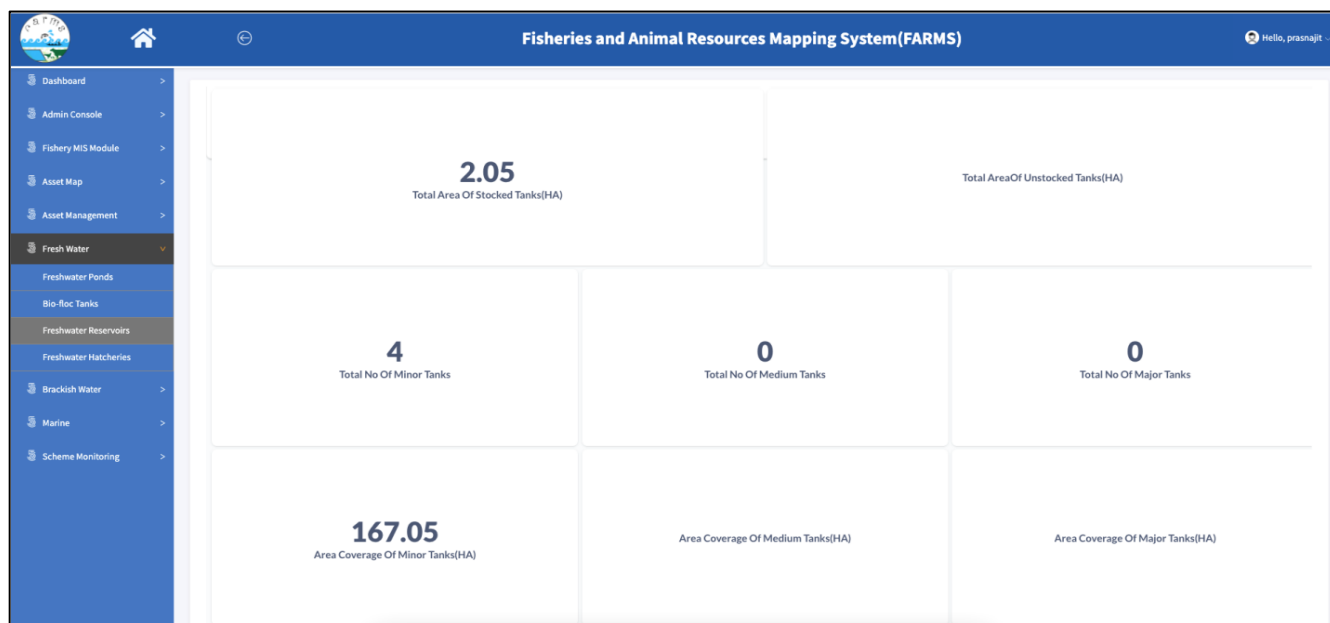
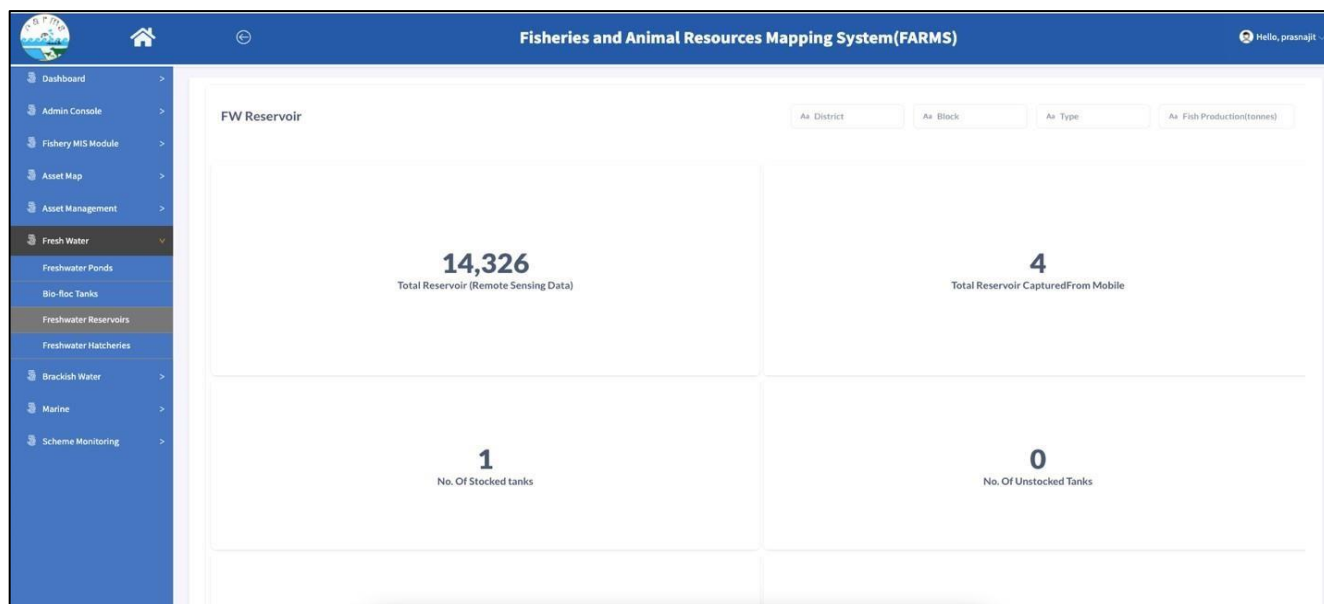
By clicking on ‘Click Here to View on Map’ user can directly navigate to map page.

## Bio-Floc Tanks

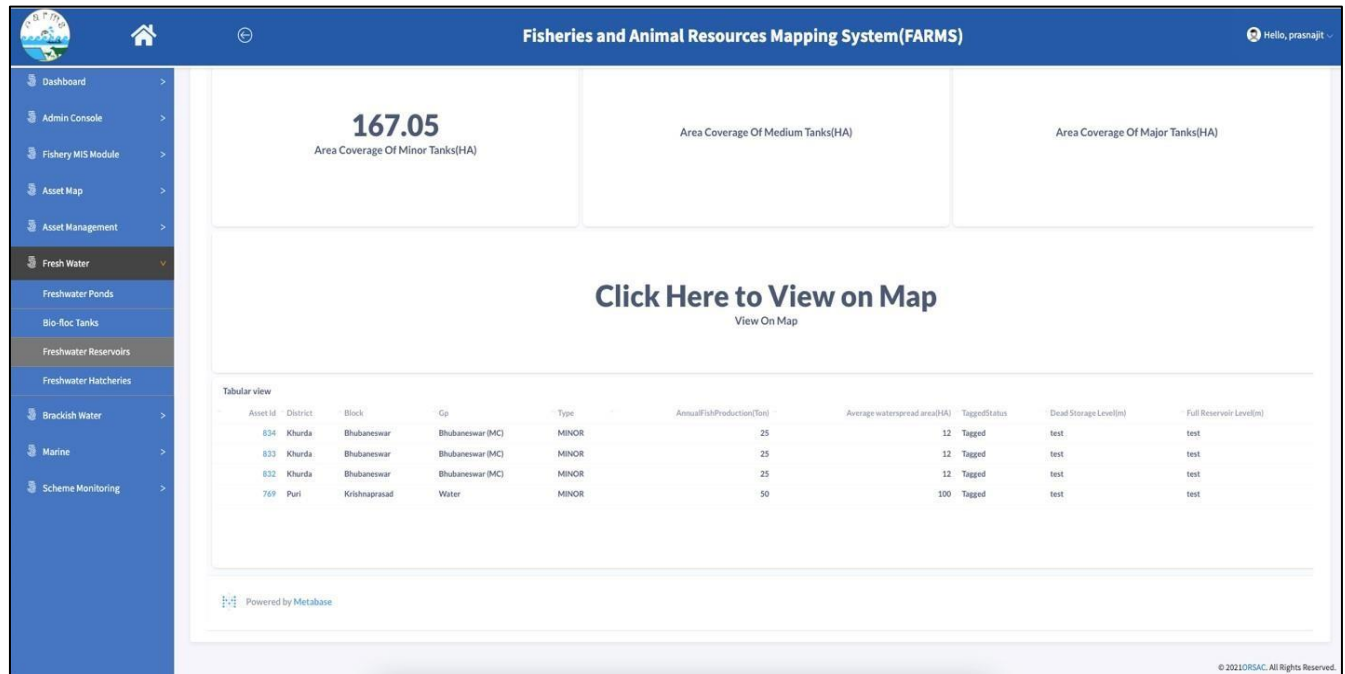
Asset Id	Owner Name	District	Block	Go	Village	Annual Production(KG)	Tagged Status
846	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	Bhubaneswar (M Corp.) - Ward No.20	170	Tagged
845	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	Bhubaneswar (M Corp.) - Ward No.20	170	Tagged
843	-	Khurda	Bhubaneswar	Bhubaneswar (MC)	Bhubaneswar (M Corp.) - Ward No.20	70	Tagged

By clicking on ‘Click Here to View on Map’ user can directly navigate to map page.

# Freshwater Reservoirs

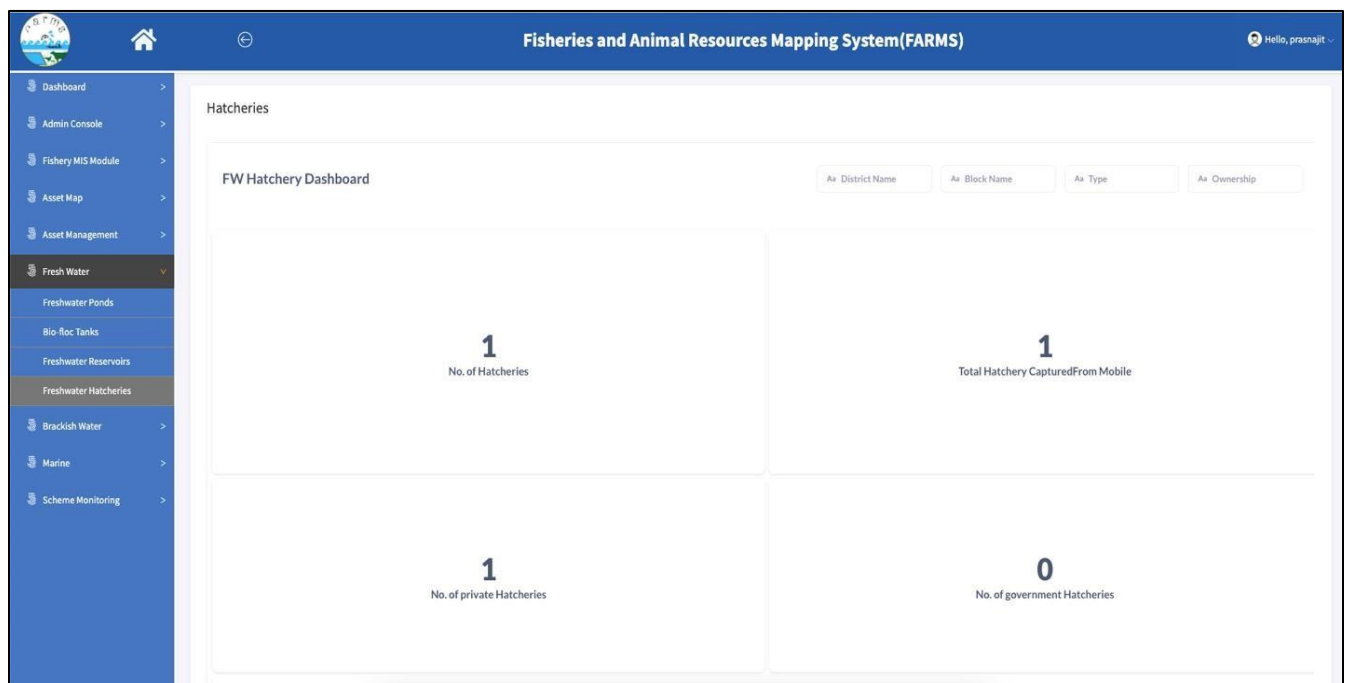


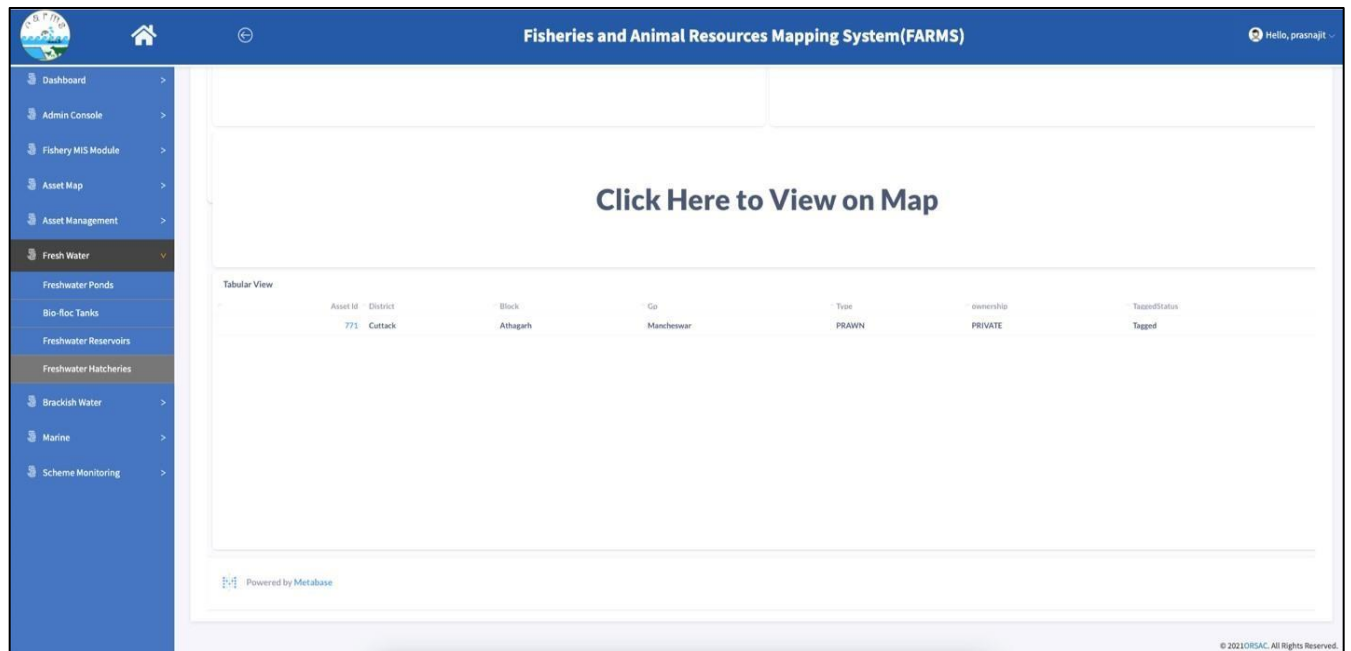
## Fisheries and Animal Resources Mapping System (FARMS)



By clicking on ‘Click Here to View on Map’ user can directly navigate to map page.

## Freshwater Hatcheries



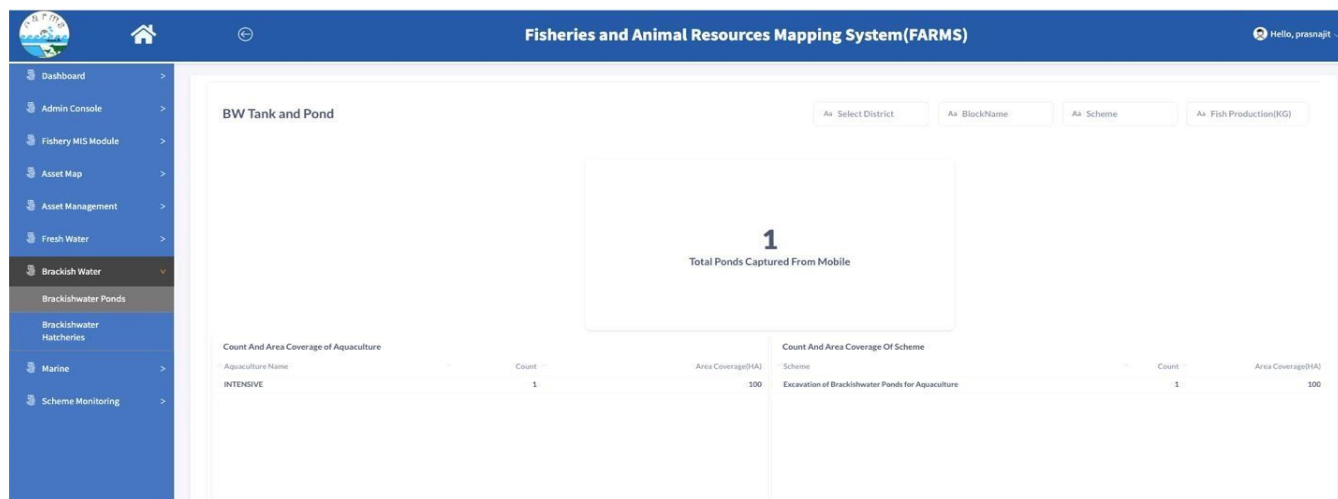


By clicking on ‘Click Here to View on Map’ user can directly navigate to map page.

## Brackish Water

- User can navigate to Two Tabs – Brackish water Ponds, Brackish water Hatcheries.

# Brackish water Ponds





## Fisheries and Animal Resources Mapping System (FARMS)

Aquaculture Name	Count	Area Coverage(HA)
INTENSIVE	1	100

Scheme	Count	Area Coverage(HA)
Excavation of Brackishwater Ponds for Aquaculture	1	100

**Click Here to View on Map**  
View filtered asset on map

Asset Id	Owner Name	District	Block	Gp	Scheme	AnnualProduction(KG)	TaggedStatus
776	Ramesh1	Jagatsingpur	Kujang	Nuagada (Bulidha)	Excavation of Brackishwater Ponds for Aquaculture	100	Tagged

By clicking on ‘Click Here to View on Map’ user directly navigate to map page. •

## Brackish water Hatcheries

**BW Hatcherly**

2 No. of Hatcheries

2 Total Hatcherly CapturedFrom Mobile

**Click Here to View on Map**

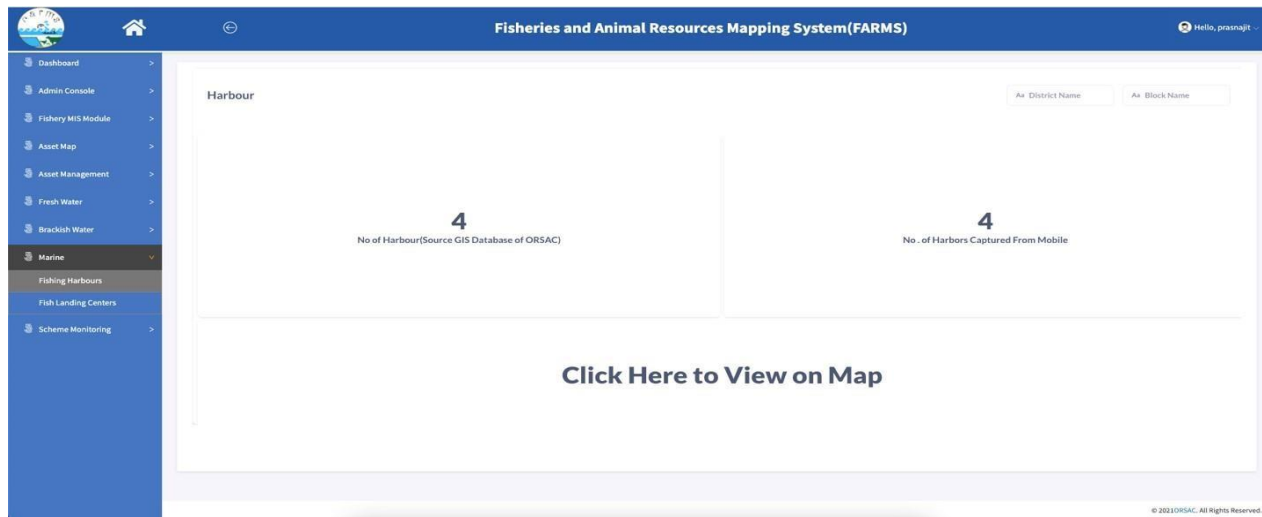
Asset Id	District Name	Block Name	Gp	Type	Annual Production(KG)	Ownership	TaggedStatus
776	Khorda	Bhubaneswar	Bhubaneswar (MC)	FISH FISH	150	GOVERNMENT	Tagged
777	Puri	Puri Sadar	Baliguda	SHELL FISH	120	GOVERNMENT	Tagged

By clicking on ‘Click Here to View on Map’ user directly navigate to map page.

## Marine

•User can navigate to Two Tabs –Fishing Harbour& Fish landing Centers.

# Fishing Harbour



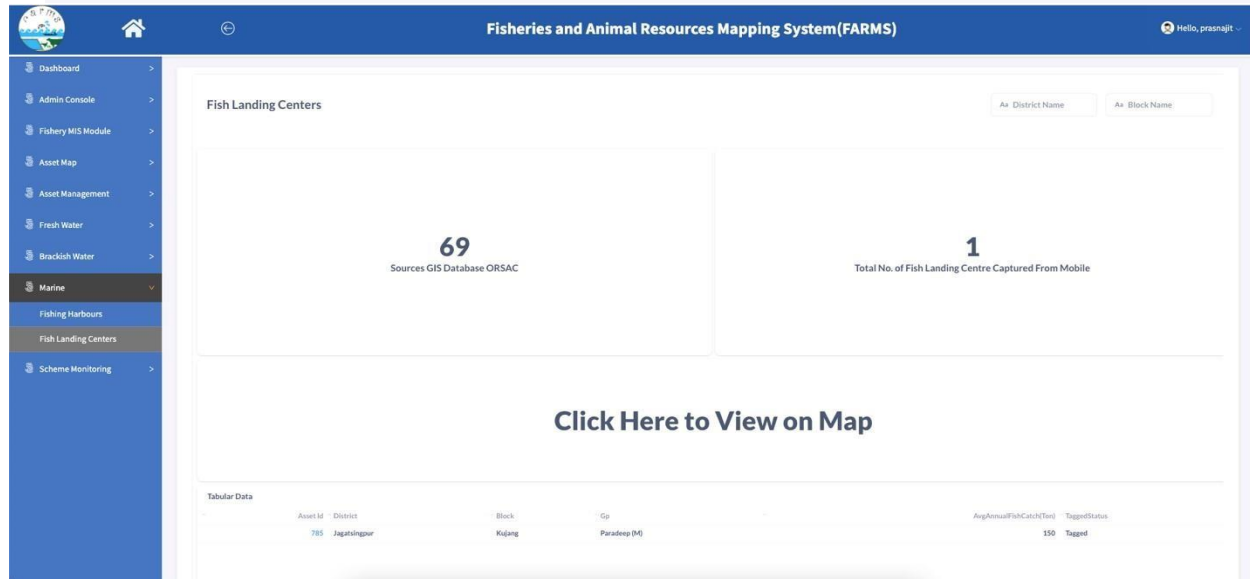
The screenshot shows the 'Fishing Harbour' dashboard with a table of data. The table is titled 'Click Here to View on Map' and contains the following data:

Asset ID	District	Block	GP	Avg Annual Fish Catch (Tons)	Tagged Status
840	Khurda	Bhukaneswar	Bhukaneswar (MC)	25	Tagged
793	Khurda	Bhukaneswar	Bhukaneswar (MC)	100	Tagged
792	Khurda	Bhukaneswar	Bhukaneswar (MC)	100	Tagged
779	Jagatsingpur	Kojang	Nuagada (Bulidha)	120	Tagged

Powered by Metabase

By clicking on 'Click Here to View on Map' user directly navigate to map page.

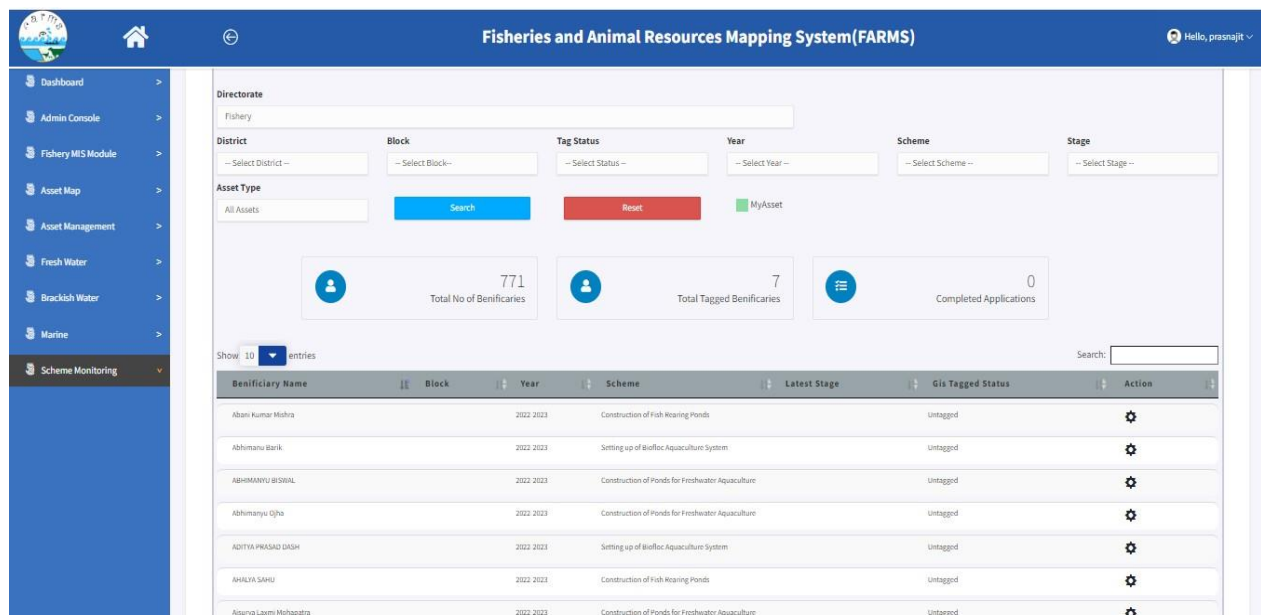
# Fish landing Centers.



By clicking on ‘Click Here to View on Map’ user directly navigate to map page.

## Scheme Monitoring

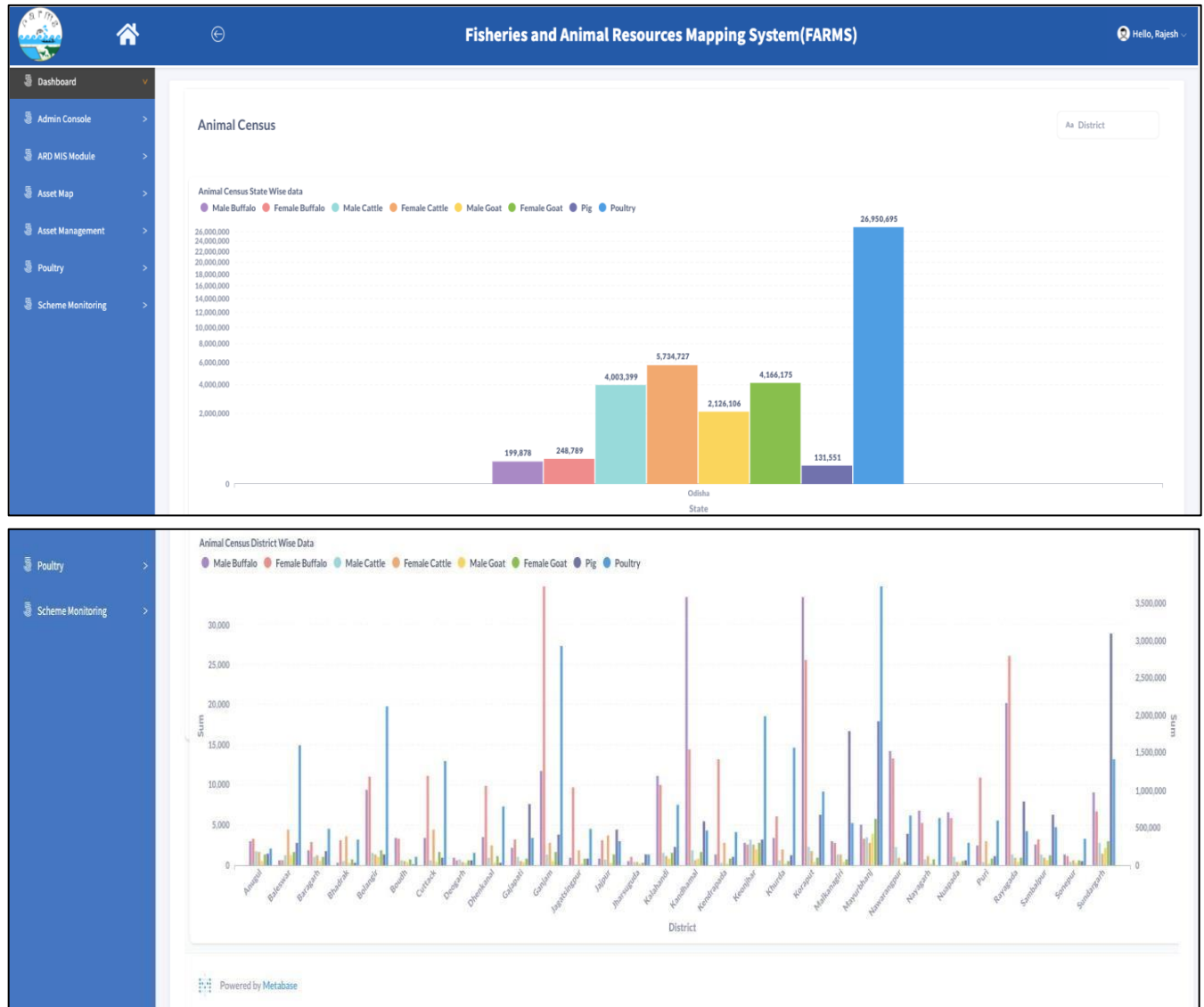
- View Tab – Showing Registered Users. User can also view by adding filters.



Data Collected from Sugam portal is pushed directly to FARMS and after geotagging of beneficiary it is also updated on the FARMS portal automatically. User can view beneficiary data on map.

## ARD Department

- After successful Login: -Login Dashboard



- This Page Includes Multiple Navigations.
- It has Admin Console – User Management, Menu Configuration.
- ARD MIS Module – ARD Production Details, ARD Census Details.
- Has Asset Map
- Asset Management with Asset Details.
- Poultry – Layer Farm, Broiler farm, Hatchery Feed Plant.

# Admin Console

- User can navigate to Two Tabs – User Management & Menu Configuration.

## User Management

The screenshot shows the 'User List' interface. At the top, there are tabs for 'View' and 'Add'. Below the tabs is a blue header bar with the text 'User List'. Underneath the header, there is a 'Show 10 entries' dropdown and a search bar. The main content is a table with the following columns: FirstName, MiddleName, LastName, Role, Designation, Mobile, Email, Active, and Action. The table contains four rows of user data. At the bottom, there is a pagination bar showing 'Showing 1 to 4 of 4 entries' and 'Previous 1 Next'.

FirstName	MiddleName	LastName	Role	Designation	Mobile	Email	Active	Action
Madan		Sir	ADDITIONAL DIRECTOR	VETERINARY SERVICES	9437313183	test@gmail.com	true	
Prasnajit		ARD	DEPUTY DIRECTOR	DISTRICT VETERINARY HOSPITAL	9776891631	prasna@gmail.com	true	
Rajiv		Sharma	ADDITIONAL DIRECTOR	LIVESTOCK DEVELOPMENT	9910996764	test@gmail.com	true	
subhranshu		mohapatra	ADDITIONAL DIRECTOR	LIVESTOCK DEVELOPMENT	8763518147	subhranshu@gmail.com	true	

View Tab-Showing Registered Users.

Add Tab – To add New User.

Provide all Mandatory Fields to Register New User.

The screenshot shows the 'User Registration' form. At the top, there are tabs for 'View' and 'Add'. Below the tabs is a blue header bar with the text 'User Registration'. The form contains several fields: First Name\*, Middle Name, Last Name\*, Mobile No.\*, Password, Email\*, DOB\*, Aadhaar Number\*, Gender\* (with radio buttons for MALE, FEMALE, and OTHERS), Permissions (with checkboxes for Edit, Download, and Create), Department, Role, Designation, Authority, and State. A 'Save' button is located at the bottom right.

First Name\*  
First Name

Middle Name  
Middle Name

Last Name\*  
Last Name

Mobile No.\*  
Mobile No.

Password  
Create Password

Email\*  
Email

DOB\*  
DOB

Aadhaar Number\*  
Aadhaar Number

Gender\*:  
☒ MALE ☐ FEMALE ☐ OTHERS

Permissions:  
☐ Edit ☐ Download ☐ Create

Department  
ANIMAL HUSBANDRY AND VETERINARY SERVICES

Role  
-- Select Role --

Designation  
-- Select Designation --

Authority  
-- Select Authority --

State  
Odisha

Save

# Menu Configuration

Manage Menu List

Authority

-- Select Authority --

Dashboard

Admin Console

Fishery MIS Module

Asset Map

Asset Management

Inland Aquaculture

Brackish Water

Marine

Scheme Management

Manage Attribute

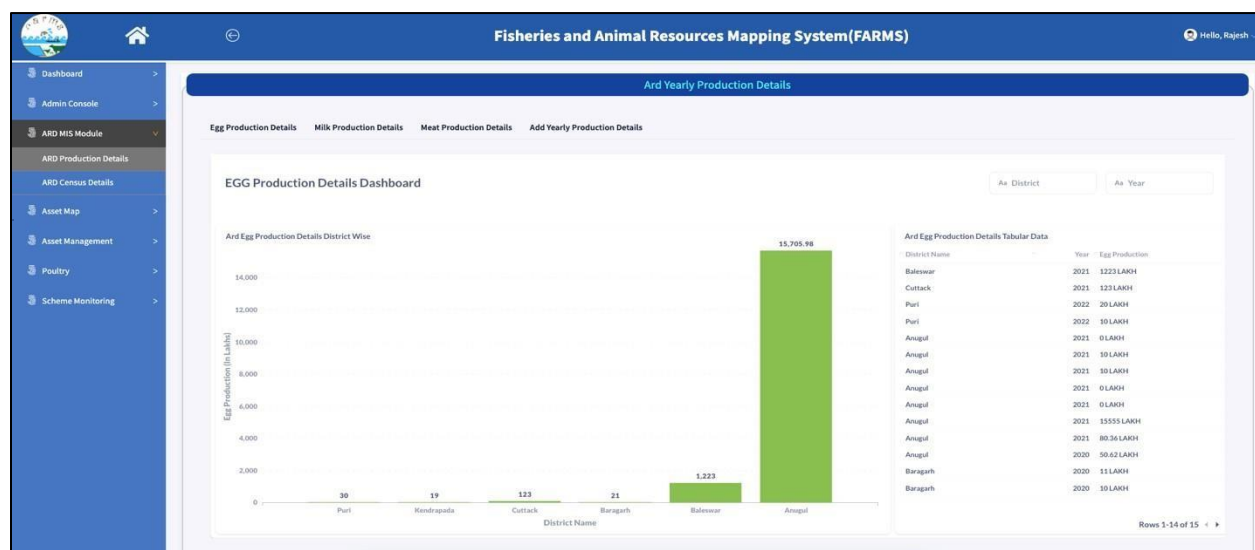
Save

Able to Manage menu List.

# ARD MIS Module

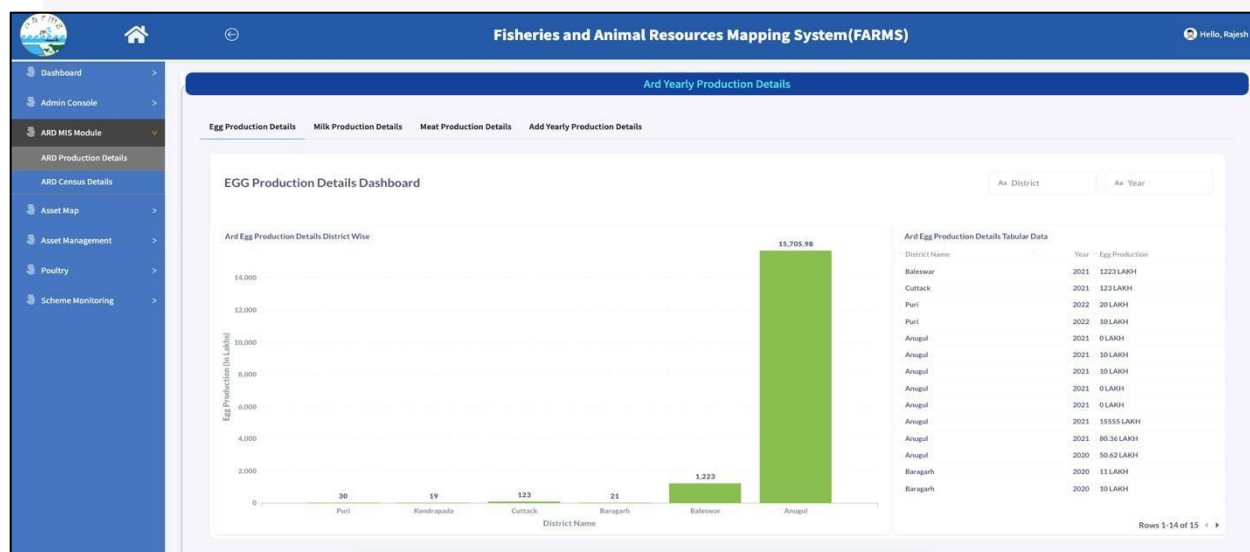
- User can navigate to Two Tabs – ARD Production Details & ARD Census Details.

## ARD Production Details

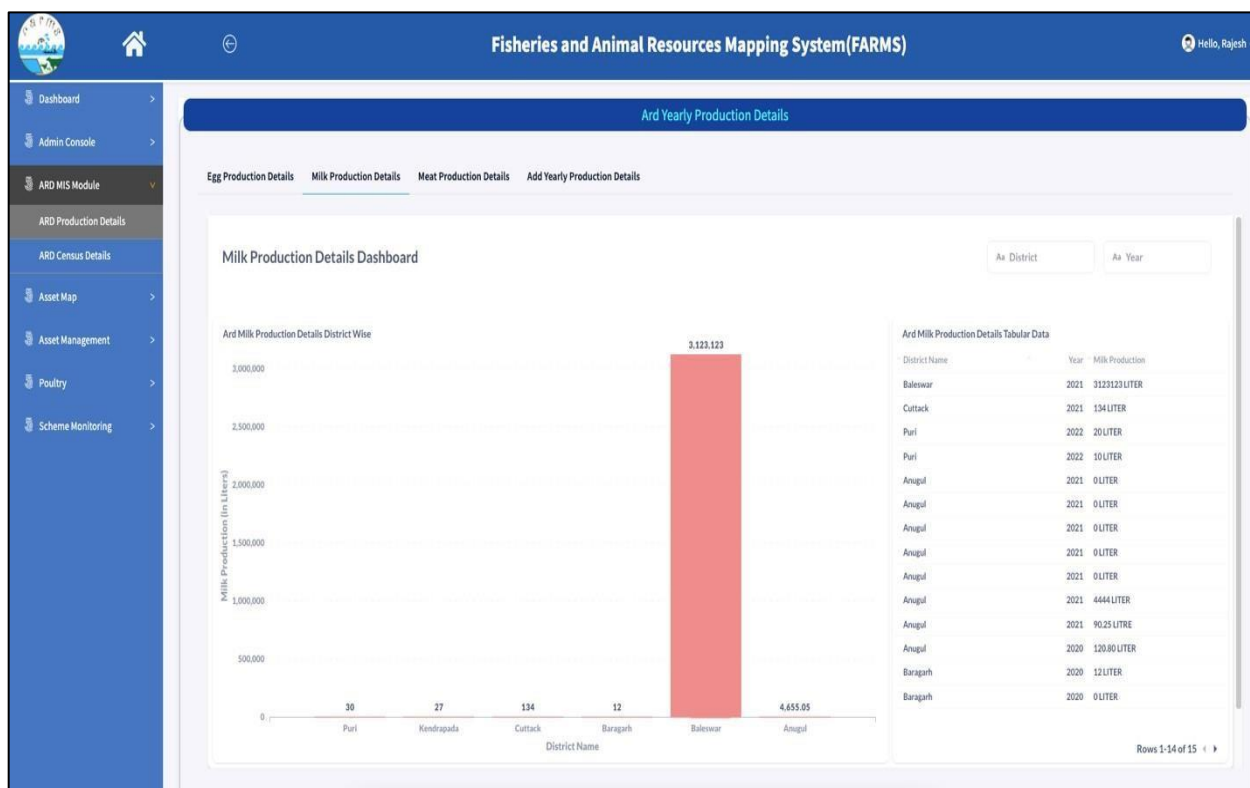




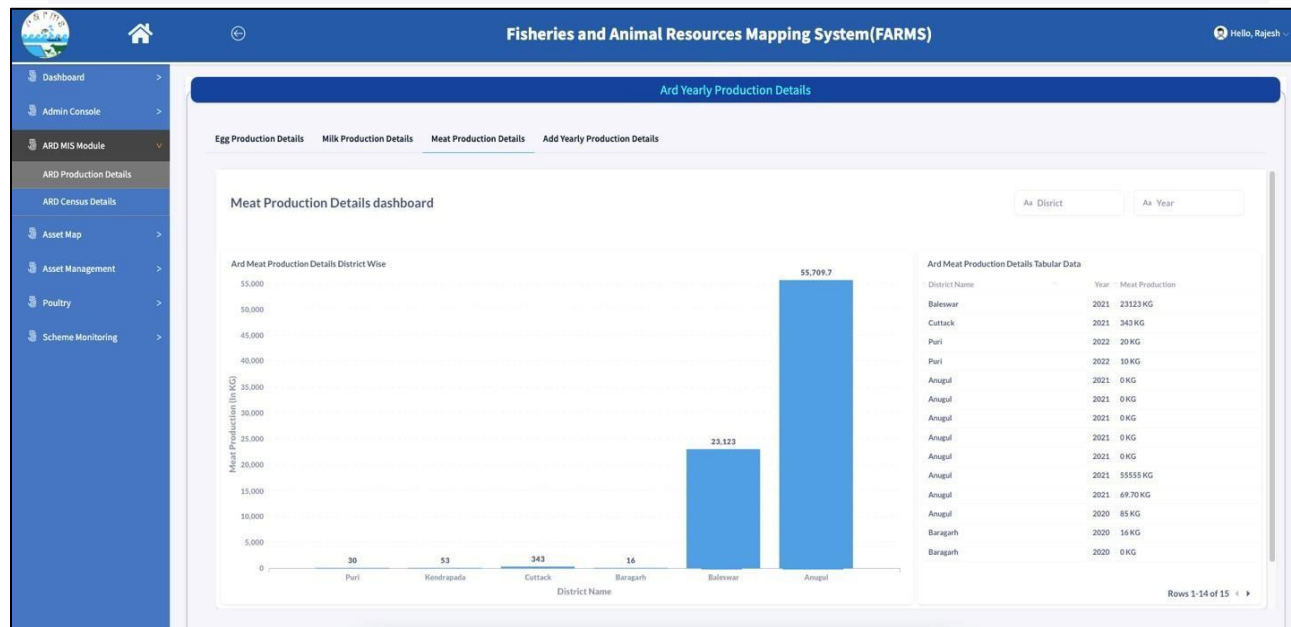
# Egg Production Details



# Milk Production Details



# Meat Production Details



Add Yearly Production Details – To add New User.

**Ar Meat Production Details**

Egg Production Details Milk Production Details Meat Production Details Add Yearly Production Details

District:  Select Year:

Total Egg Production(In Lakhs)

Total Milk Production(In Litres)

Total Meat Production(In KGS)

Save

## ARD Census Details

ARD Census Details Table View

District

Block

Gram Panchayat

Revenue Village

-- Select District --

Search

Reset

Show 10 entries

Search

District

Block

Gram Panchayat

Revenue Village

Male Buffalo

Female Buffalo

Male Cattle

Female Cattle

Male Goat

Female Goat

Pig

Poultry

No data available in table

Showing 0 to 0 of 0 entries

Previous

Next

ARD Census Details – To Show ARD Census Details. User can view details by adding filters like District, Block, Gram Panchayat, Village.

## Asset Management

- User can navigate to One Tabs – Asset Details.

Assets List

State

District

Subdivision

VDNH

LAC

Revenue Village

Odisha

-- Select District --

-- Select Sub Division --

-- Select VDNH --

-- Select LAC --

-- Select Revenue Village --

OR

Asset Class

Asset Category

-- Select Asset --

-- Select Asset Category --

Search

Reset

Show 10 entries

Search

Asset Id

Asset Name

District

Block

Gram Panchayat

Village

Asset Class

Asset Category

Action

No data available in table

Showing 0 to 0 of 0 entries

Previous

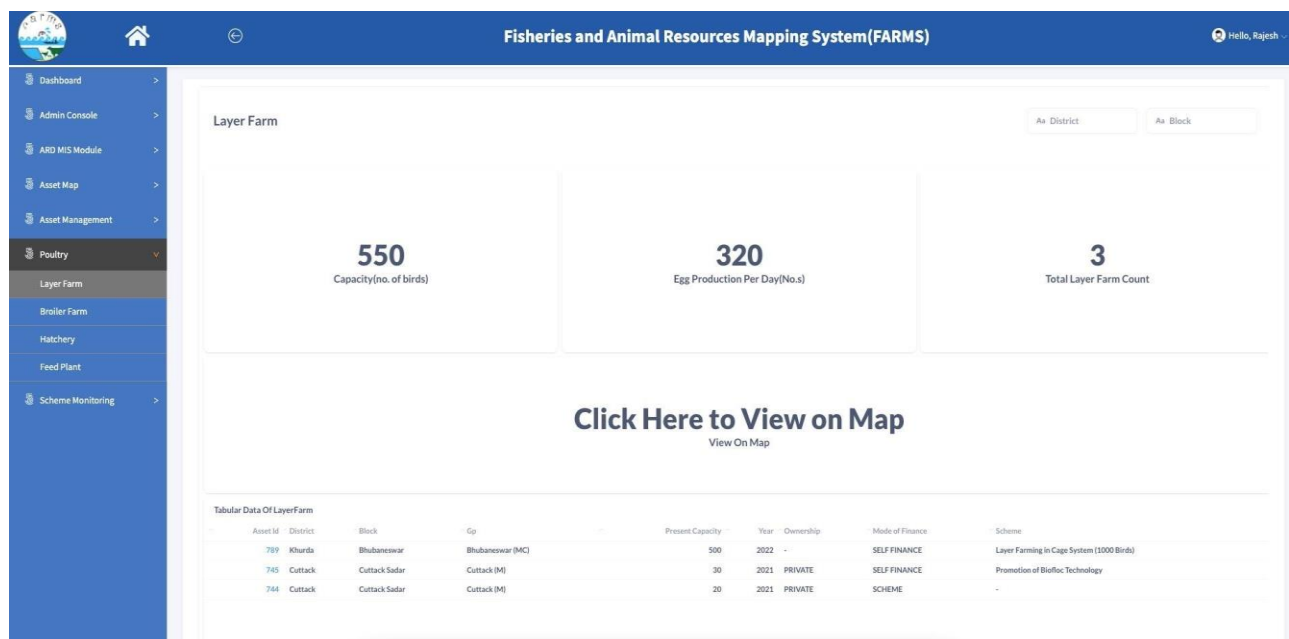
Next

It shows Asset List by providing all details (State, District, Subdivision, VDVH, LAC etc.) and then Search.

#### 4.4-Poultry

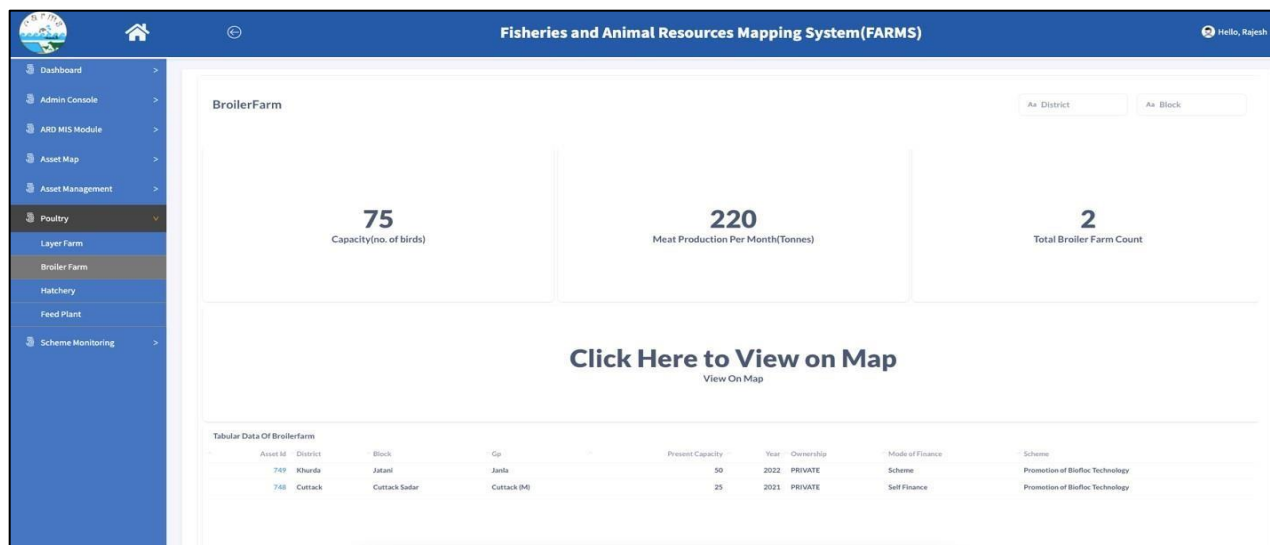
- User can navigate to Four Tabs – Layer Farm, Broiler farm, Hatchery & Feed Plant.

## Layer Farm – Showing Layer Farm Dashboard



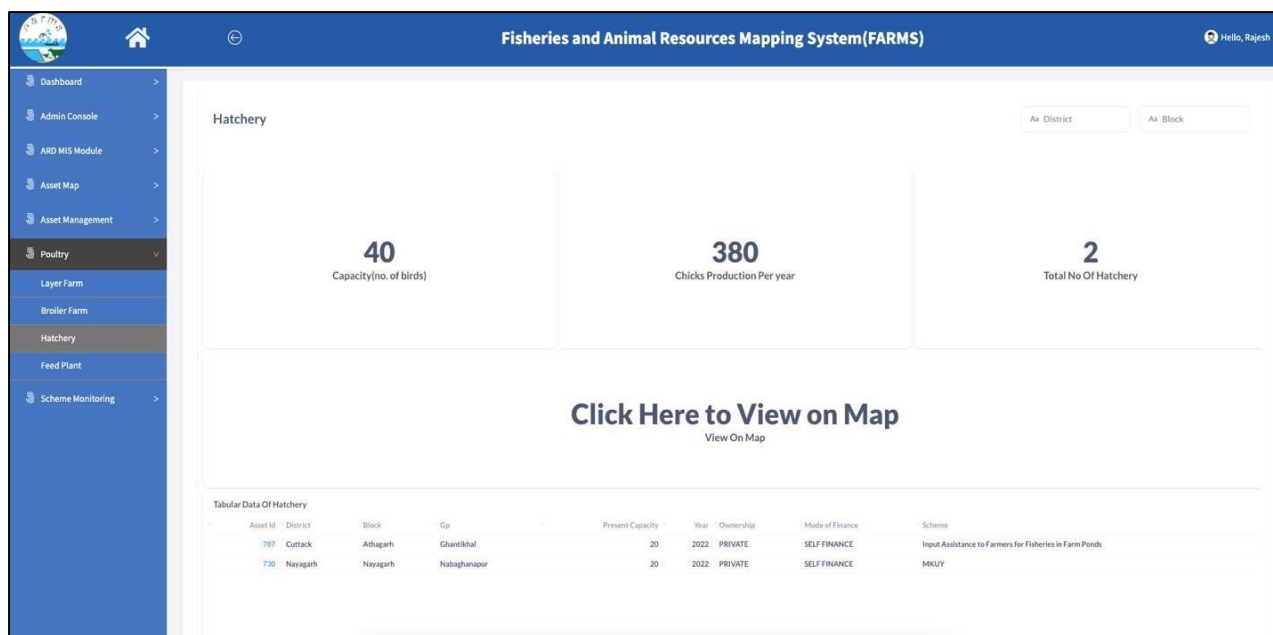
By clicking on ‘Click Here to View on Map’ user directly navigate to map page.

# Broiler Farm – Showing Broiler Farm Dashboard



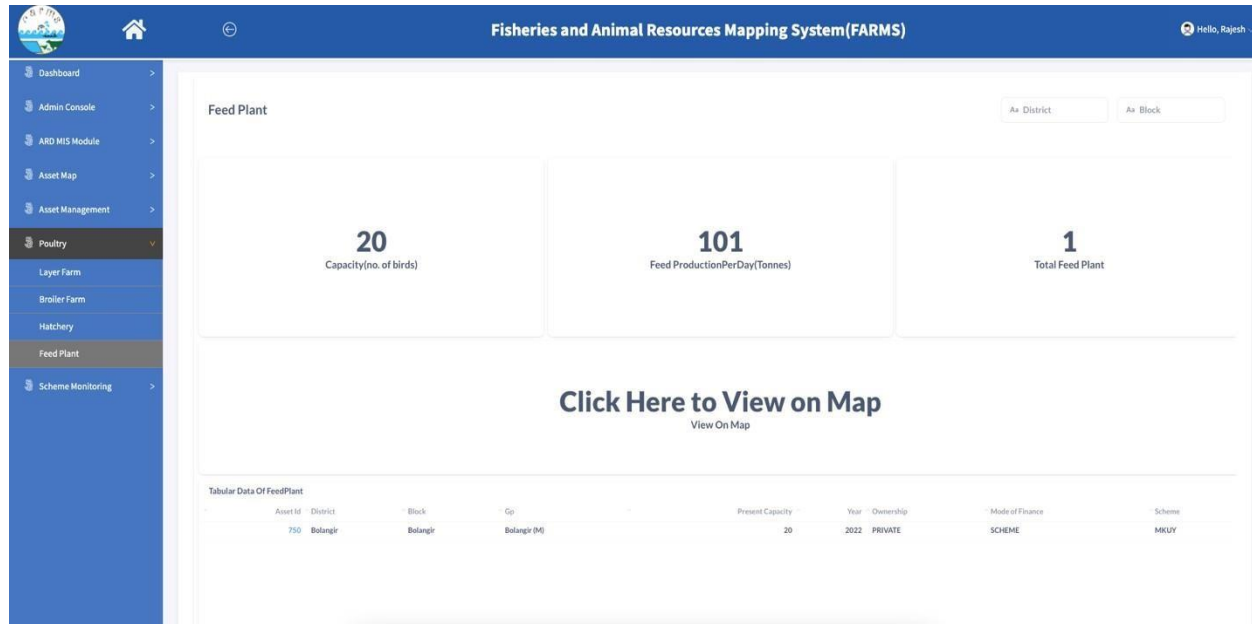
By clicking on ‘Click Here to View on Map’ user directly navigate to map page.

# Hatchery – Showing Hatchery Dashboard



By clicking on ‘Click Here to View on Map’ user directly navigate to map page.

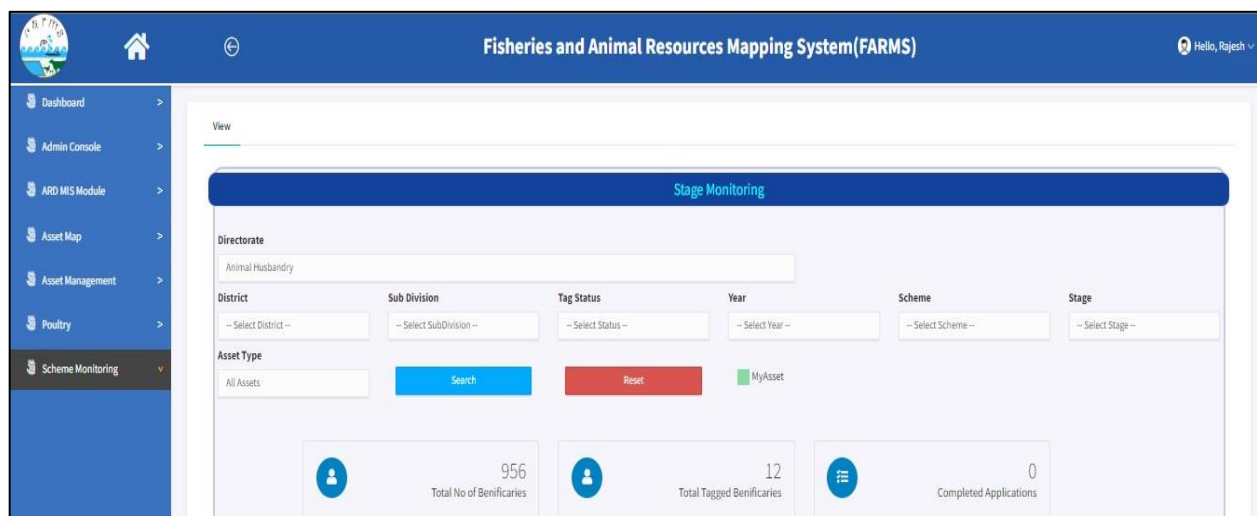
# Feed Plant – Showing Feed Plant Dashboard



By clicking on 'Click Here to View on Map' user directly navigate to map page.

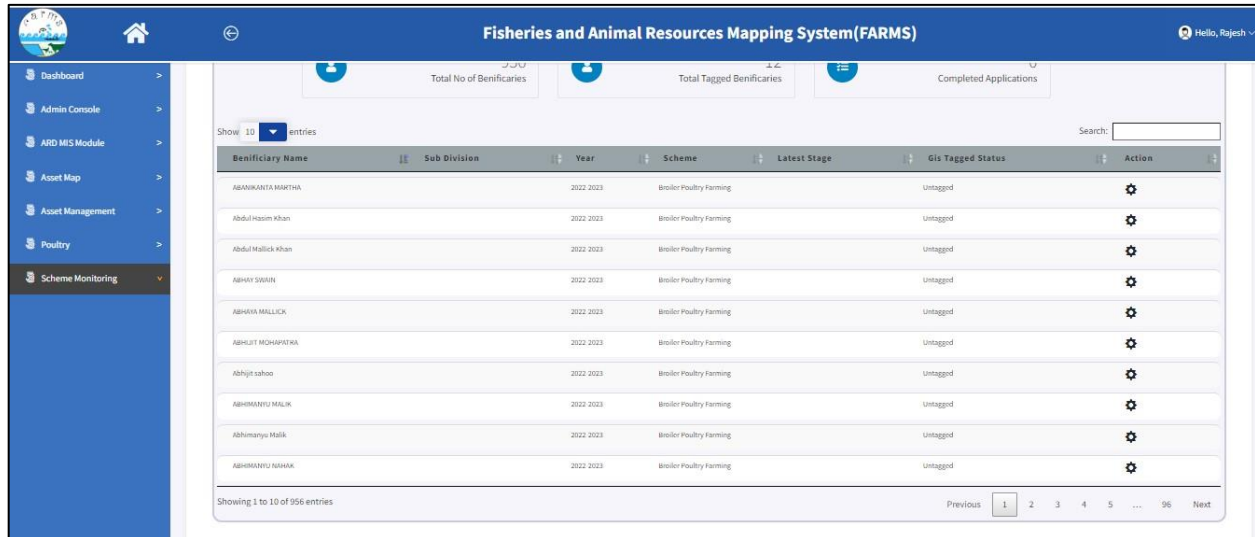
## Scheme Monitoring

- View Tab – Showing Registered Users.



## Fisheries and Animal Resources Mapping System (FARMS)

User can view details by adding filters.



Beneficiary Name	Sub Division	Year	Scheme	Latest Stage	Gis Tagged Status	Action
ABHINAVITA NAGTHA		2022-2023	Broiler Poultry Farming		Untagged	
Abdul Hasim Khan		2022-2023	Broiler Poultry Farming		Untagged	
Abdul Mallick Khan		2022-2023	Broiler Poultry Farming		Untagged	
ABHAY SWAIN		2022-2023	Broiler Poultry Farming		Untagged	
ABHAYA MALLICK		2022-2023	Broiler Poultry Farming		Untagged	
ABHJIT MOHAPATRA		2022-2023	Broiler Poultry Farming		Untagged	
Abhijit saho		2022-2023	Broiler Poultry Farming		Untagged	
ABHIRAMYU MALIK		2022-2023	Broiler Poultry Farming		Untagged	
Abhimanya Malik		2022-2023	Broiler Poultry Farming		Untagged	
ABHIRAMYU NINAM		2022-2023	Broiler Poultry Farming		Untagged	

Data Collected from Sugam portal is pushed directly to FARMS and after geotagging of beneficiary it is also updated on the FARMS portal automatically. User can view beneficiary data on map.