A free Android app to measure well water levels and help save India's groundwater — for villages, by village.



What is The Ground Monitoring Tool ?

Groundwater is our most precious resource. But we can only manage what we measure.

Free Android app for everyone.

Collects well water level data.

Data goes to a shared web platform.

Pools data from NGOs and CBOs across India.

Helps map groundwater levels nationwide.

How It Helps ?

The tool uses a standard method so all data is reliable and consistent.

It brings together data from many organizations

into one clear picture of groundwater across India.

Anyone can collect data from their local wells and

contribute to better water management.

Visit: www.indiaobservatory.org.in

Napo Jal Bachao Kal Campaign

A nationwide movement to map at least 1 well in every village of India — twice a year, before and after the monsoon.

60K+

Well Moitored

Distinct wells across 14 states

15,646 Regitered User

Active tool users nationwide

120+ NGO Partners

Organizations working together

20K+ Village Covered

Across India since 2020

This year's goal: Map at least 50,000 wells. Come, become a Water Champion!

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1.Campaign Resources

Everything you need to join the campaign is available below. Share these with your community!

Campaign Website

https://www.indiaobservatory.org.in/groundwater-monitoring-campaign

YouTube Tutorial Video

Available in Hindi, Gujarati, Marathi, Telugu, Kannada & Odia.

https://www.youtube.com/playlist?list=PLXxAZZGEgUG-NB8CWmKq5dADkWQMQ83mt

Campaign Posters

Download posters in English, Hindi, Gujarati, Marathi, Kannada, Odia & Telugu.

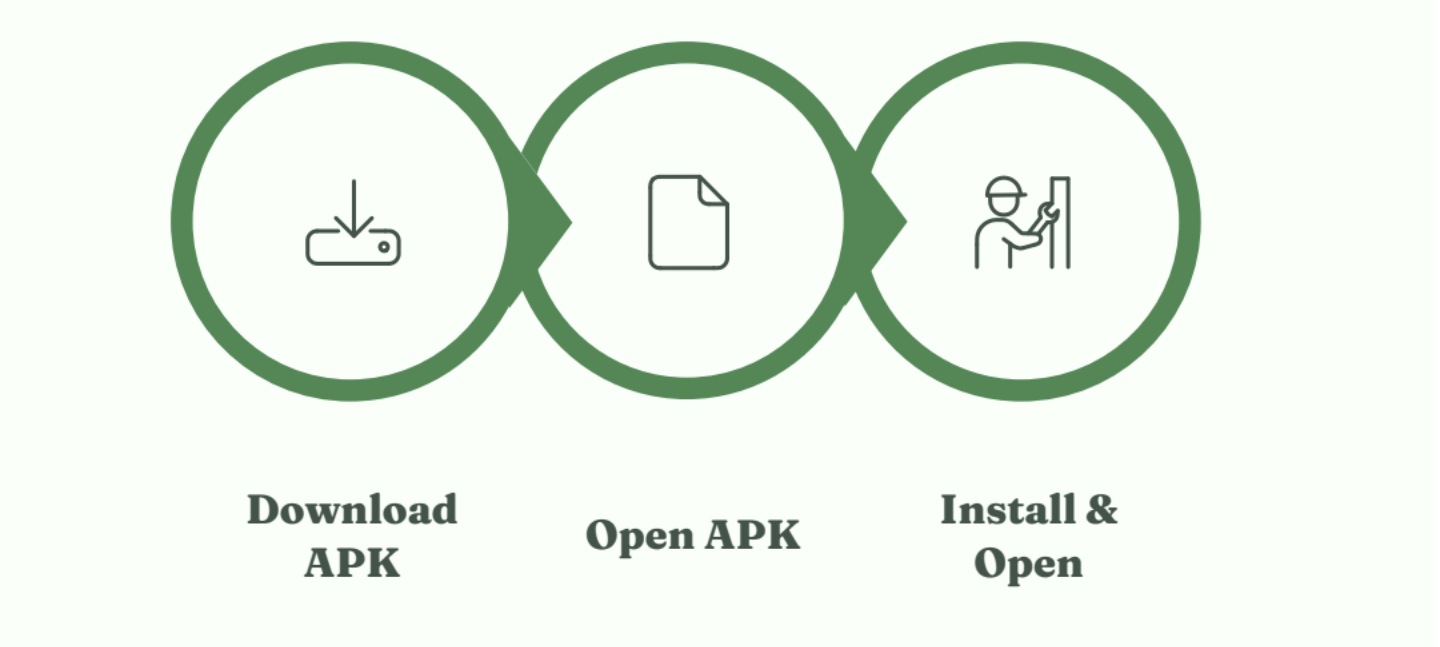
The YouTube playlist includes: Paani – Our Right, Our Responsibility | GWMT Tutorial | Napo Jal BachaoKal Audio. Watch the tutorial before you start collecting data!

The posters for the Ground Water Monitoring campaign are linked below:

- In English: https://drive.google.com/drive/folders/19FhpCftMuZJrSiJoTN2twpJHWpIWIwRi
- In Gujarati: https://drive.google.com/drive/folders/1pAjb1FPmcTbT_bnqJSS2yK-0zRzRaSj4
- In Hindi: https://drive.google.com/drive/folders/12ZqUslyWIZS8etABkzT3JUItH3-d5UEi
- In Kannada: https://drive.google.com/drive/folders/1BO820vBKi-vjGanIEeA7Q_39n3pCQtYo
- In Marathi: https://drive.google.com/drive/folders/1tUjYYQYvUD5USJTOSrXuL7Mk2wBI0FOp
- In Odia: https://drive.google.com/drive/folders/1G_x2efJLCwrk9ZEm6UT5JCcVGBbMXc0K
- In Telugu: https://drive.google.com/drive/folders/1qQsDetwLG51-7YlTIGklhef3u3at-7Q-

2. Installation Guide: Getting the App

Follow these simple steps to install the Groundwater Monitoring Tool on your Android phone.



You can download the APK file from any of these three sources:

Source 1

India Observatory GWMT Page

indiaobservatory.org.in/tool/gmt

Source 2

GWMT Portal

wmt.indiaobservatory.org.in

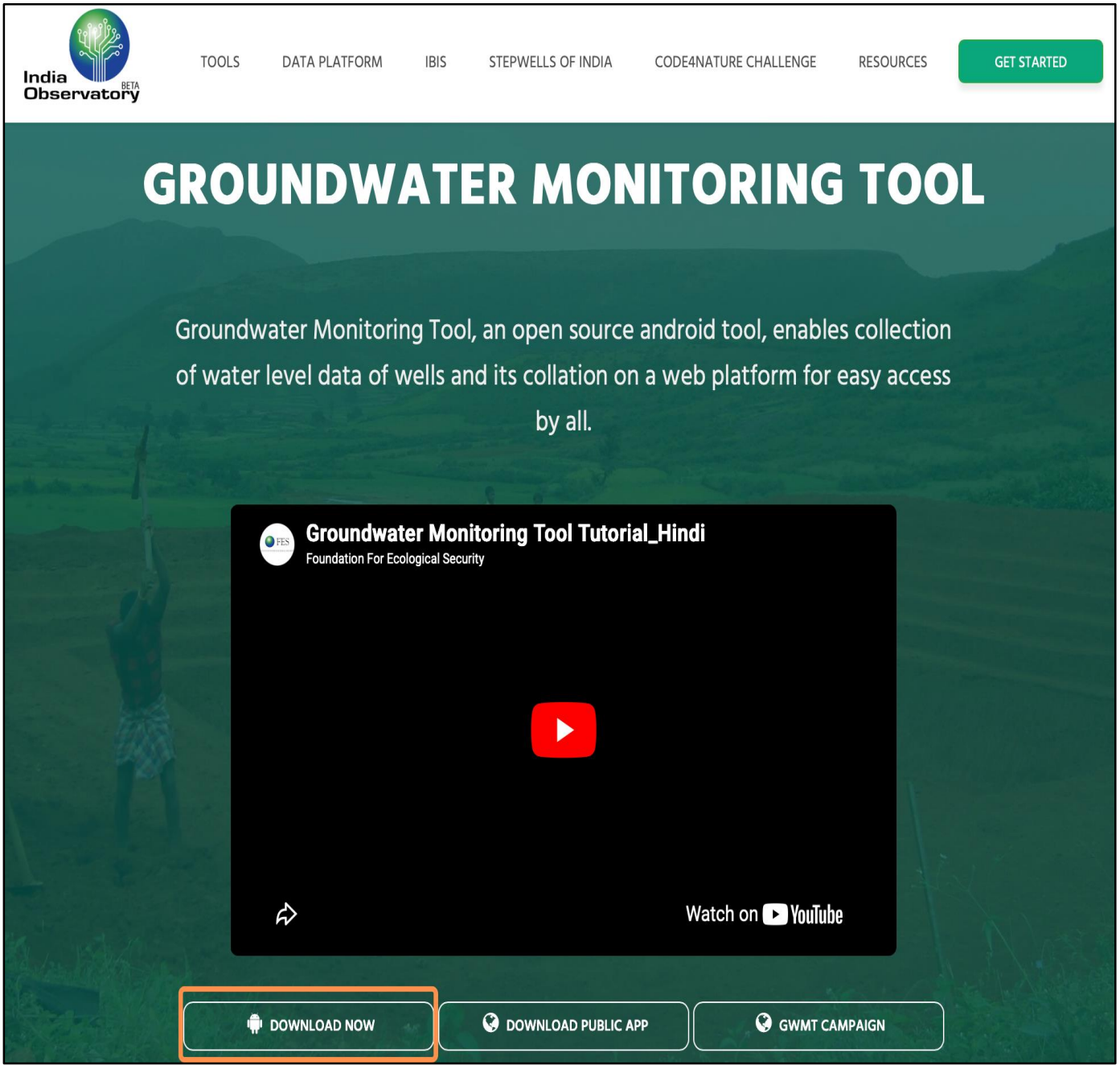
Source 3

Campaign Webpage

indiaobservatory.org.in/groundwater-monitoring-campaign

1. If you chose to download the APK from the IO's GWMT webpage then you have to click on the

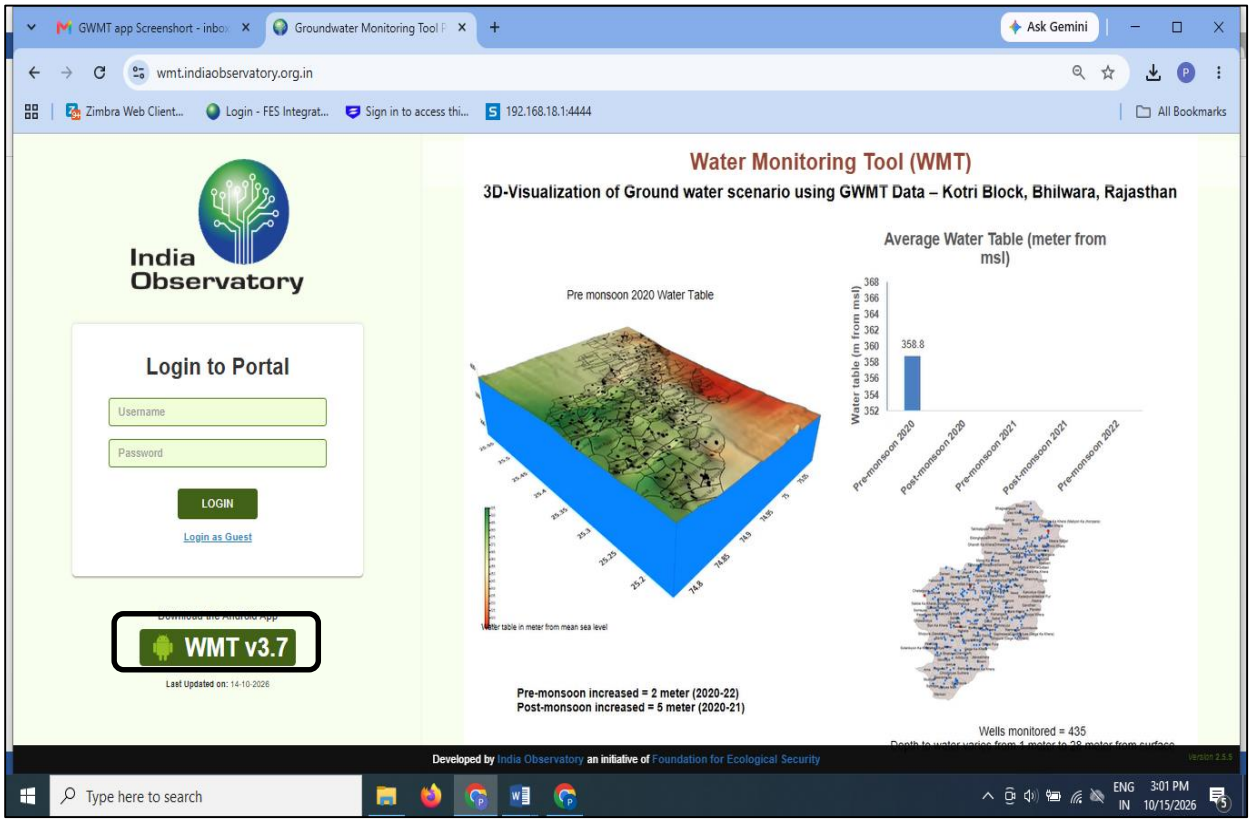
   DOWNLOAD NOW Option as shown in the given picture:



2. If you download the APK-File from the Ground Water Monitoring Tool Portal then the following step has to be followed: Note that the app version may change.

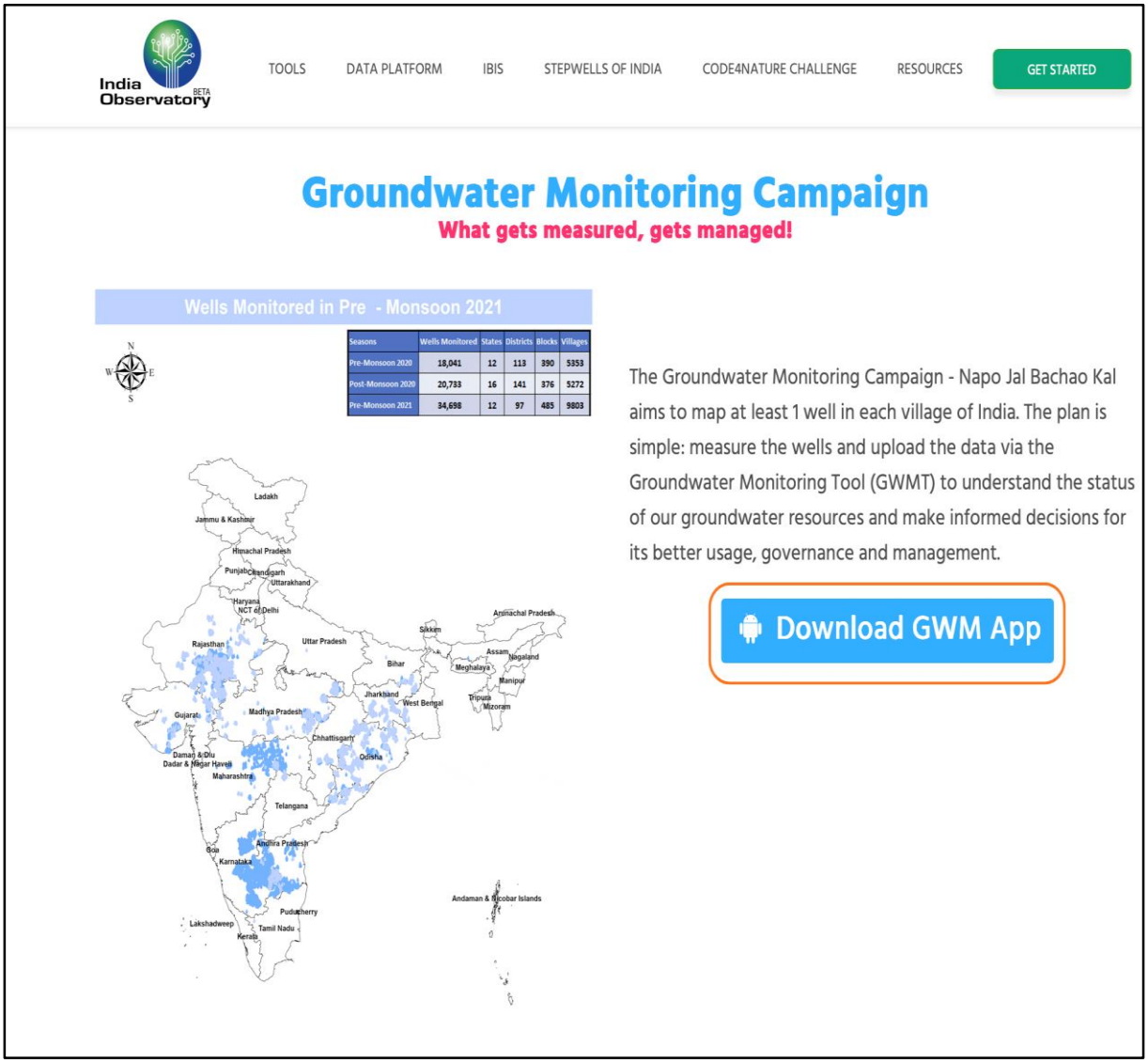
   After opening the link, the following page will appear. From this page, you can also download the Android application by clicking on the **Download the Android App** option.

   https://wmt.indiaobservatory.org.in/



3. If the user decides to download the APK-File from the Ground-Water Monitoring Campaign Website

   then follow the given step:



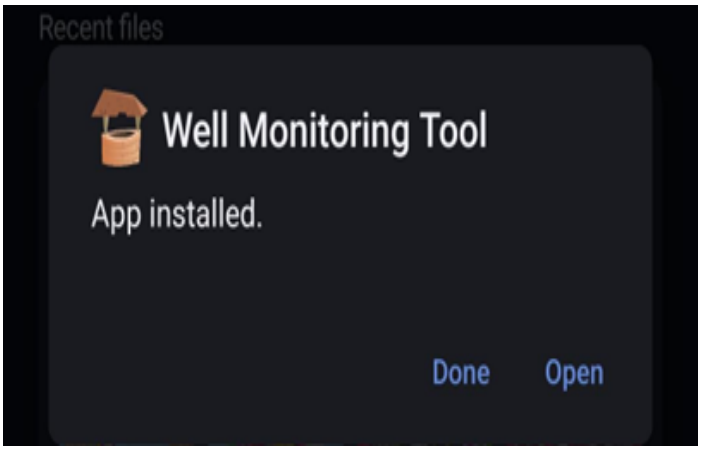
3. Downloading the App:

Once the APK file is downloaded on your device, follow these steps to install the app:



- Open the downloaded APK file using your device's File Manager or Browser.
- Tap on the APK file. A pop-up message may appear on the screen.
- Click on the INSTALL button as shown in the picture above.

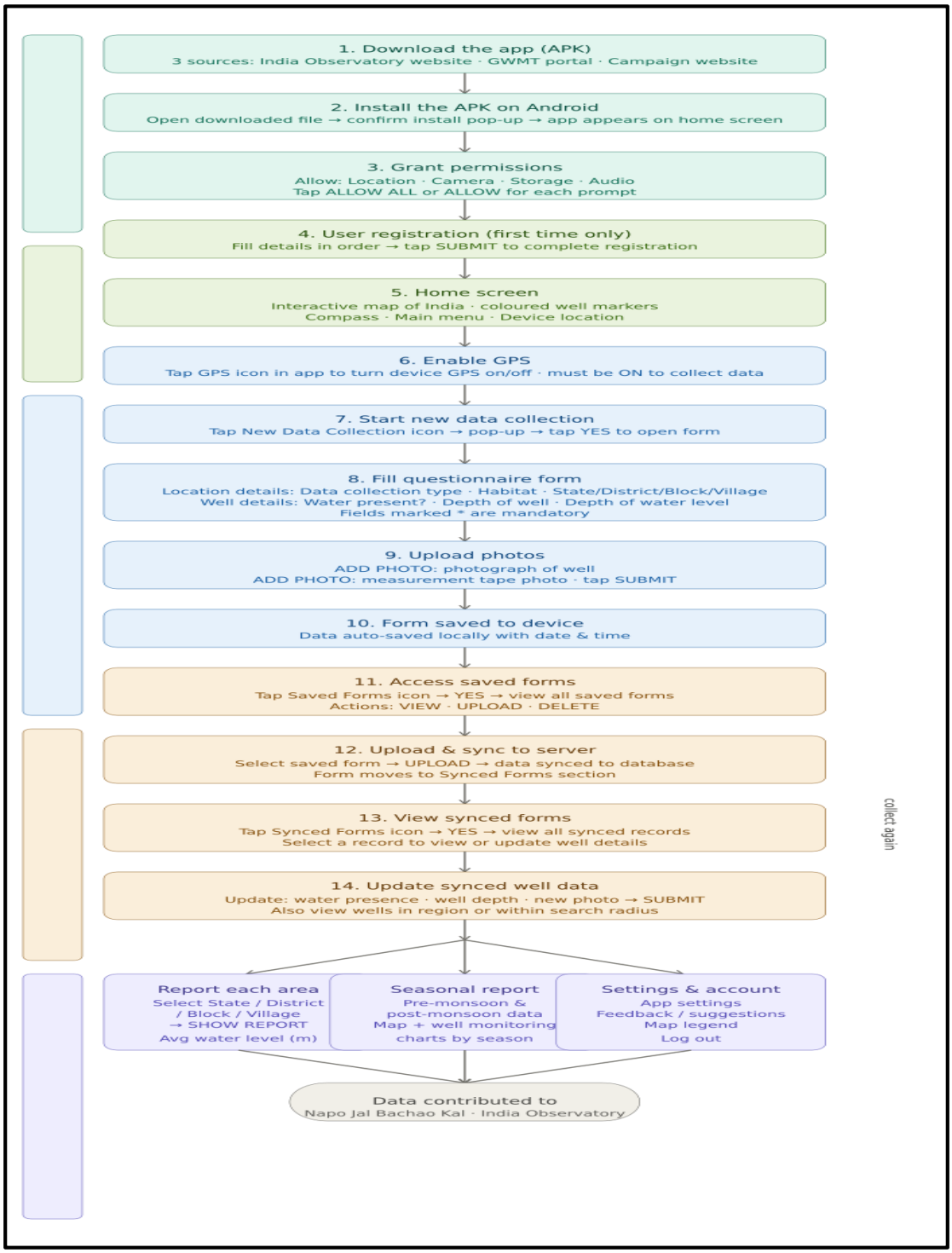
Now the following pop-up may appear, confirming that the download has been completed.



The app would look as shown in the following picture:



4. User Work Flow:



5. App-Onboarding:

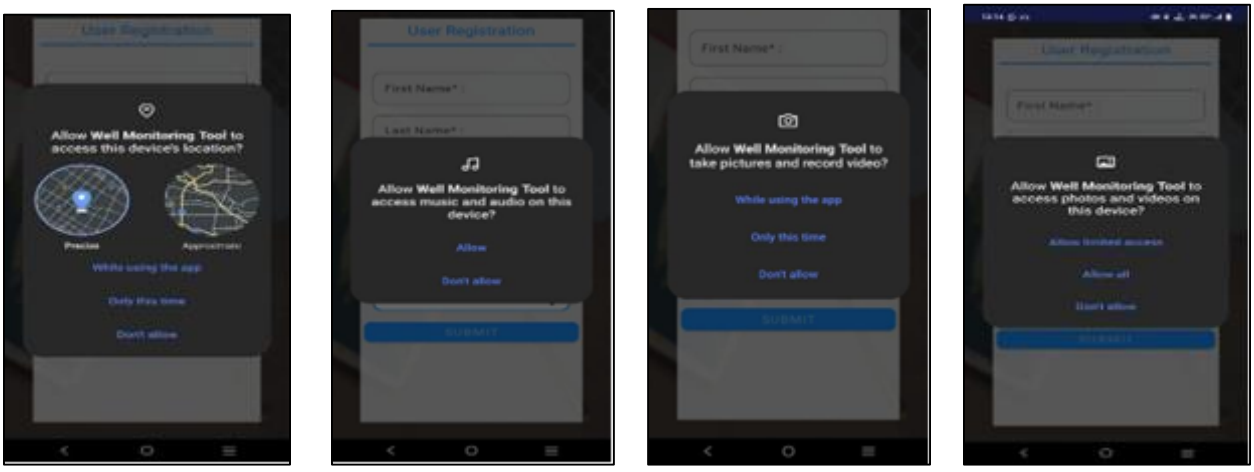
When you open the app for the first time, it will ask for some permissions to work properly.

Please allow the following permissions:

- **Location:** Helps the app find your current location correctly.
- **Camera:** Used to take photos of the well.
- **Storage:** Used to save and upload photos from your device.
- **Audio:** Used to access the microphone when needed.

If these permissions are not allowed, some features of the app may not work properly.

Permission pop-up messages like the pictures below may appear on your screen.
Please click on **ALLOW** or **ALLOW ALL** to continue using the app smoothly.



Note: The permission pop-up messages may look different on different phones.

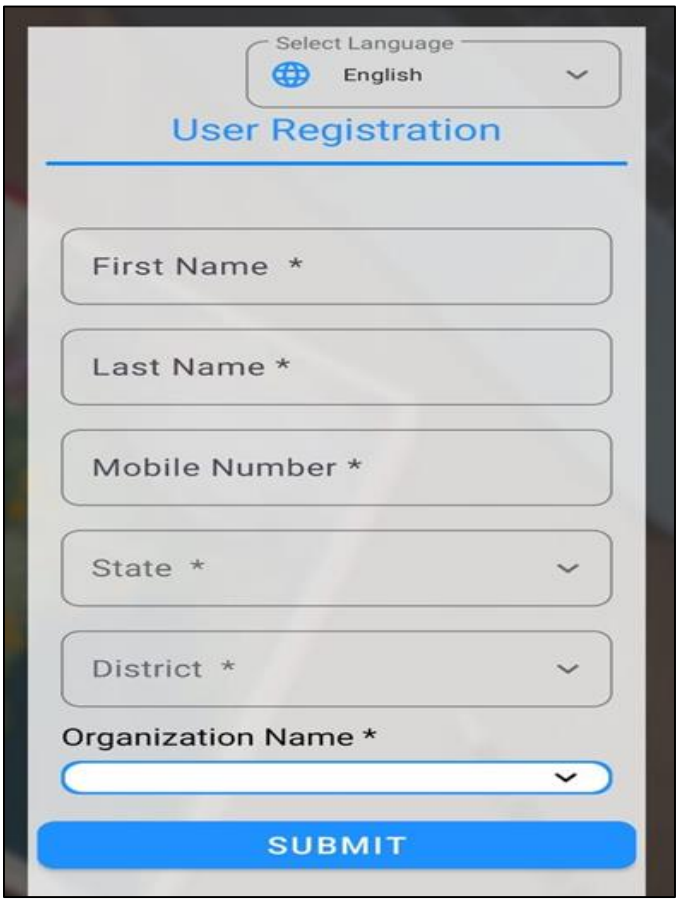
Please click on the following options when they appear:

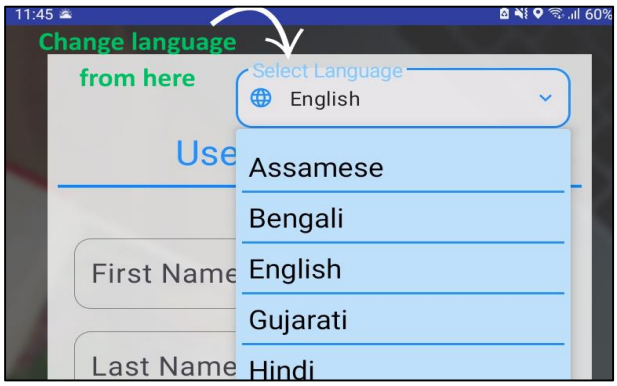
- **ALLOW ALL:** Gives all required permissions to the app in one click.
- **ALLOW:** If "ALLOW ALL" is not shown, click **ALLOW** for each permission one by one.
- **WHILE USING THE APP:** Gives permission only when the app is being used.

These permissions are important for the app to work properly.
Please do not skip this step.

6. USER REGISTRATION:

When you open the app for the first time, you need to register by filling in some basic information. The picture below shows the user registration screen and the details required for registration.





Please fill in the following details:

- Select Language: Choose the language you want to use in the GWMT app.
- First Name: Enter your first name.
- Last Name: Enter your last name.
- Mobile Number: Enter your mobile number.
- State: Select your state.
- District: Select your district.
- Organisation Name: Enter your organisation name or any.

Note

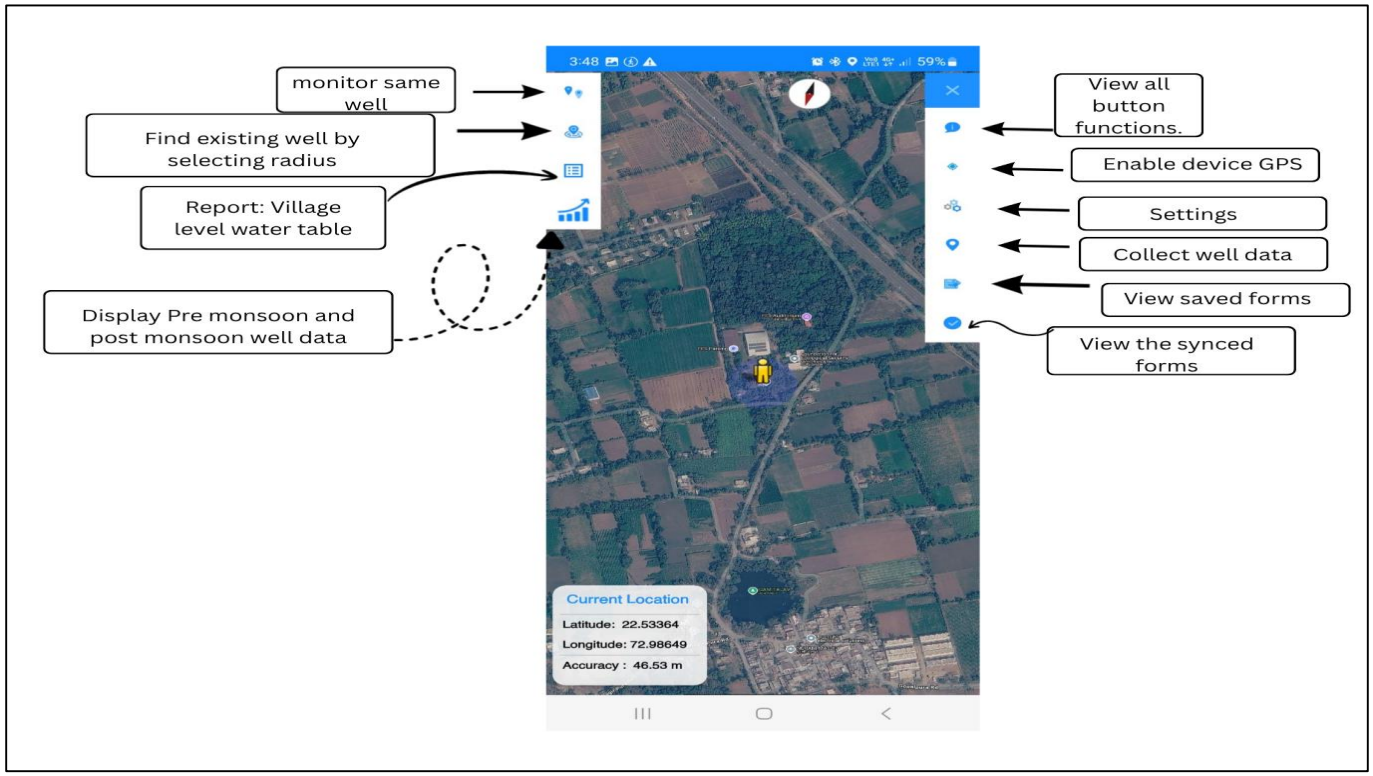
Click on the **SUBMIT** button to complete the user registration process.This registration step is mandatory and cannot be skipped.

7. Home Screen

After giving all the required permissions and completing the registration process, the app is ready to use. The app's home screen will appear as shown below.

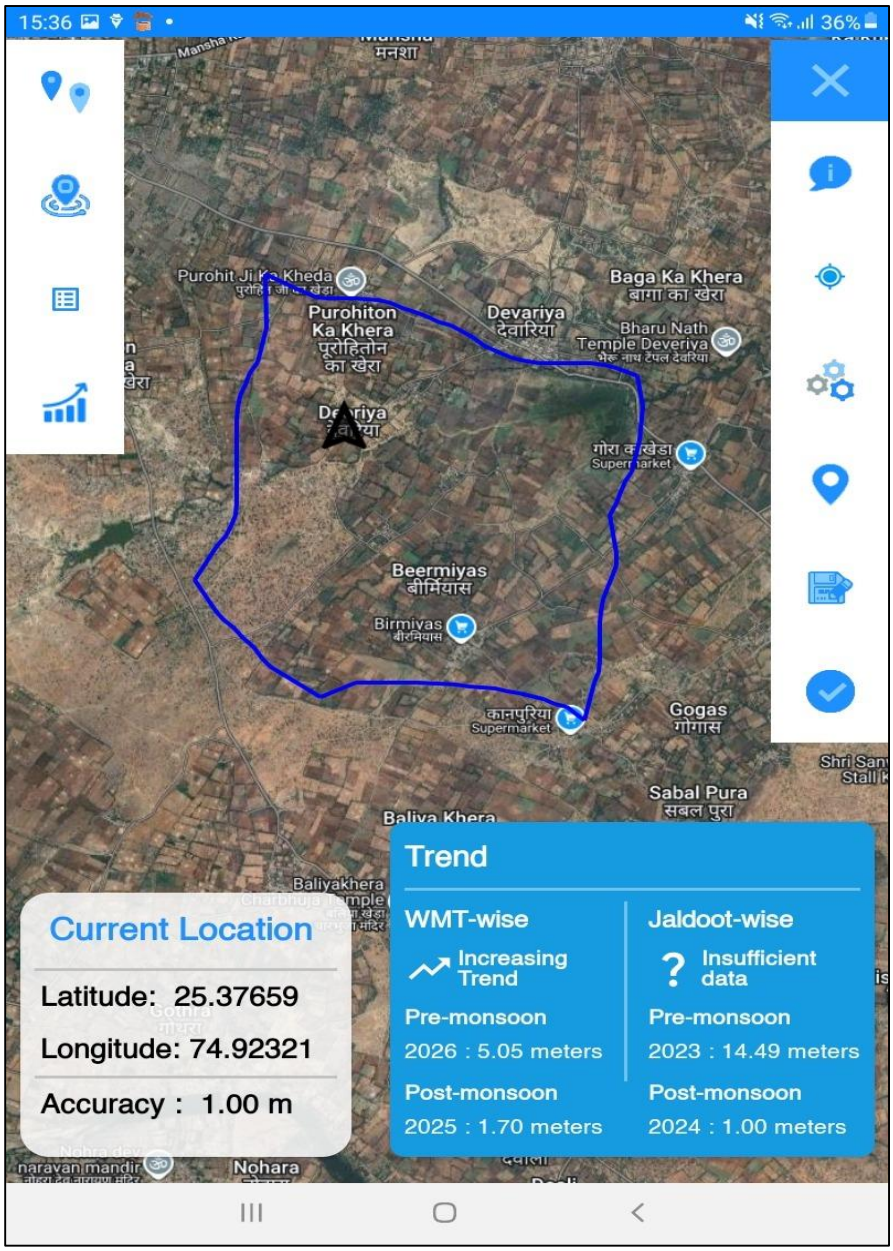
- **Compass:** Shows the North direction on the map if your device supports a compass.
- **Main Menu:** Used to open and access all the main features of the app.
- **Device Location:** Shows your current location on the map.

The map displays well data using different colours, with India shown at the center of the map.



8. Location-Based Data Trends

Historical Water-Level Trends: View integrated Jaldoot and WMT data to understand whether groundwater levels in your village are increasing or declining over time, based on pre-monsoon and post-monsoon records. Nearby locations with previously added data are highlighted with a blue GPS line on the map.



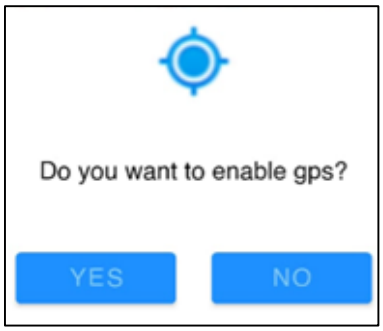
9. App's Functionalities:

Displays the description of each home screen button one by one. Tap the screen to view the next button's functionality.

10. Enable/Disable GPS:

This feature allows users to turn the device GPS On or Off directly from the app. To use this feature, click on the GPS icon shown.Depending on whether the GPS is currently enabled or disabled on your device.





11. New Data Collection:

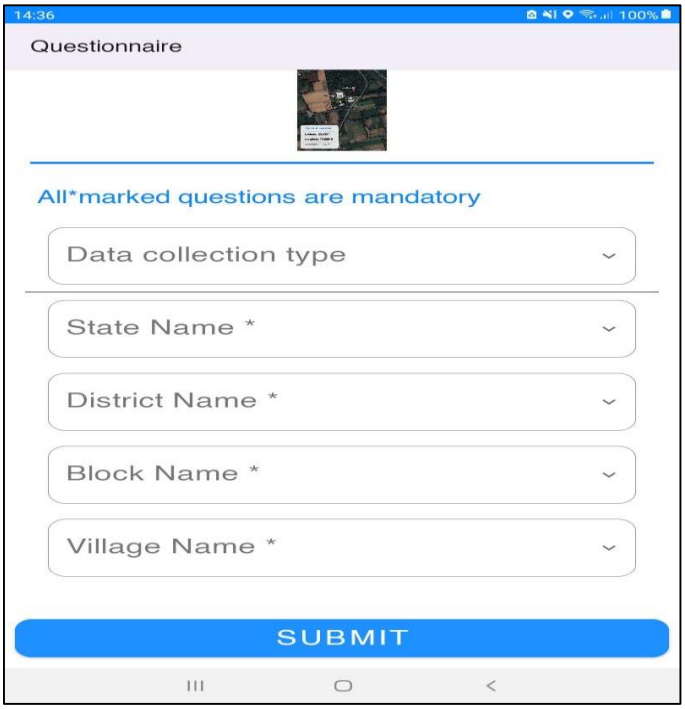
Users can collect new well data using this feature by filling in the data collection form. To access this feature, click on the icon shown below. After clicking the icon, the following pop-up message will appear on the screen.



Click on **YES** to continue filling the questionnaire form.
If you do not want to continue, click on **NO**.
Note: The device's location/GPS must be turned on during this process, if not then it will show an error and the user may not be able to fill in the questionnaire.

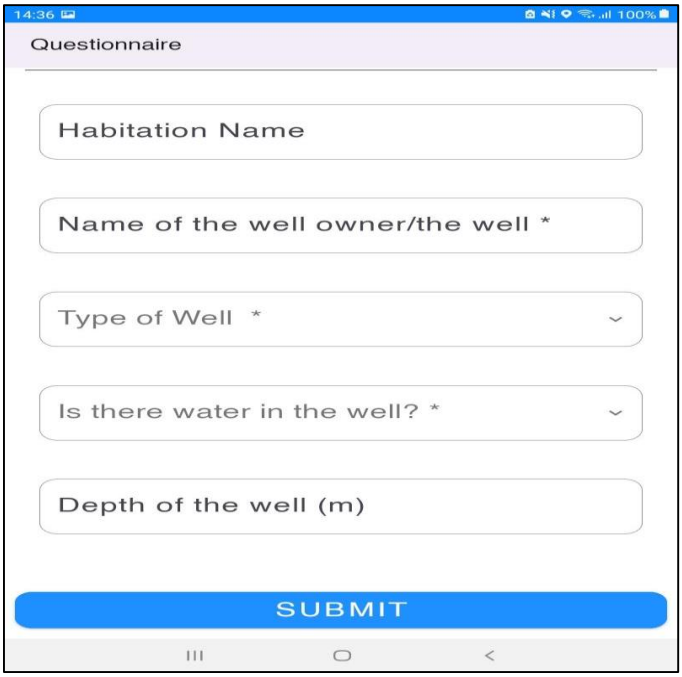
Fill Basic Location Details

After clicking on **YES**, the Questionnaire form will open on the screen as shown below. Fields marked with **(*)** are mandatory.



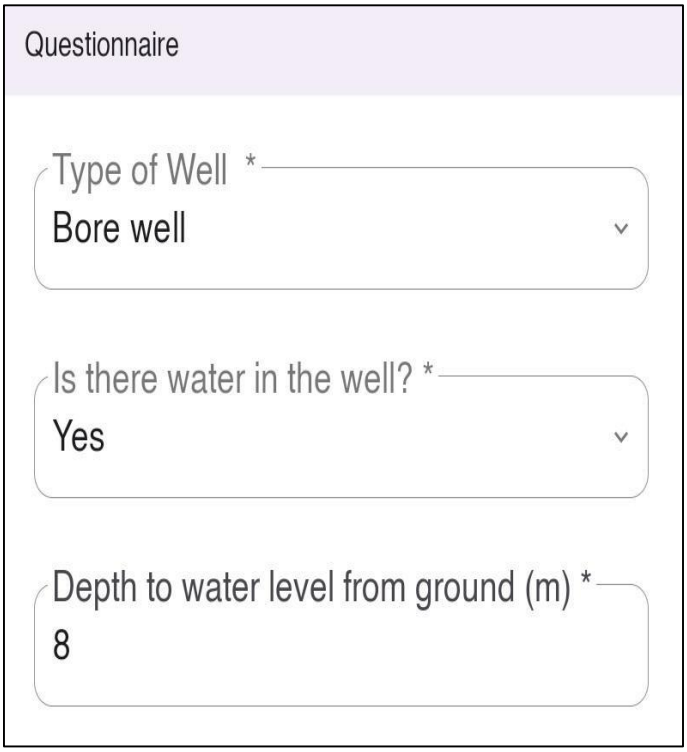
Fill the following details:

- Data Collection Type: Select the type of data you want to collect.
- State Name: Select your state from the list.
- District Name: Select your district.
- Block Name: Select your block/taluka.
- Village Name: Select your village name.



Please enter the following information carefully:

- Habitation Name: Enter the name of the habitation/local area.
- Name of the Well Owner / Well: Enter the well owner's name or the well name.
- Type of Well: Select the type of well from the list.
- Is there water in the well?: Select Yes or No based on the current condition of the well.
- Depth of the Well (m): Enter the depth of the well in meters.



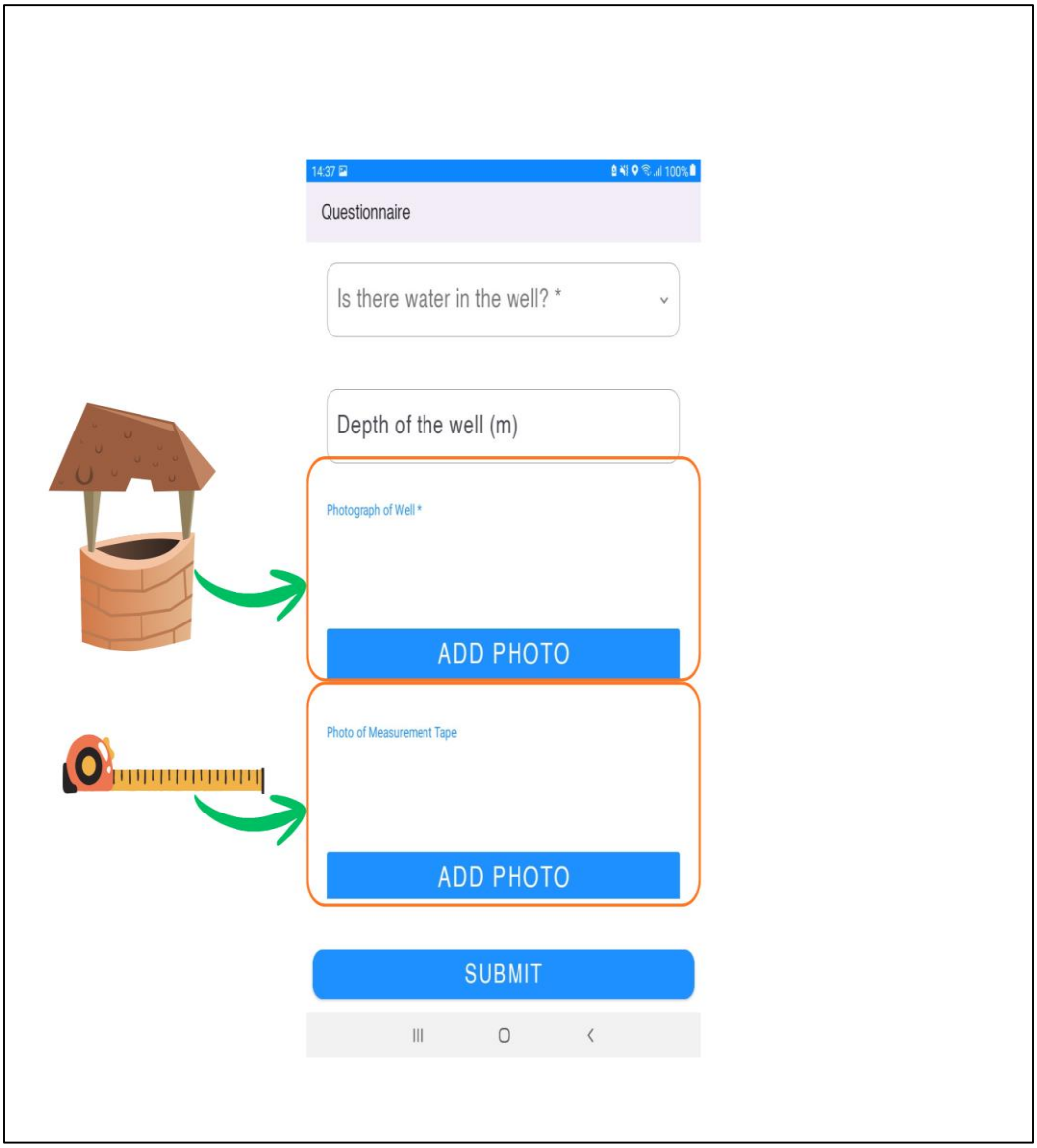
If you select Yes for the question "Is there water in the well?", the next question will automatically appear on the screen.

Please continue filling the next drop-down menu and enter the required details in the questionnaire.

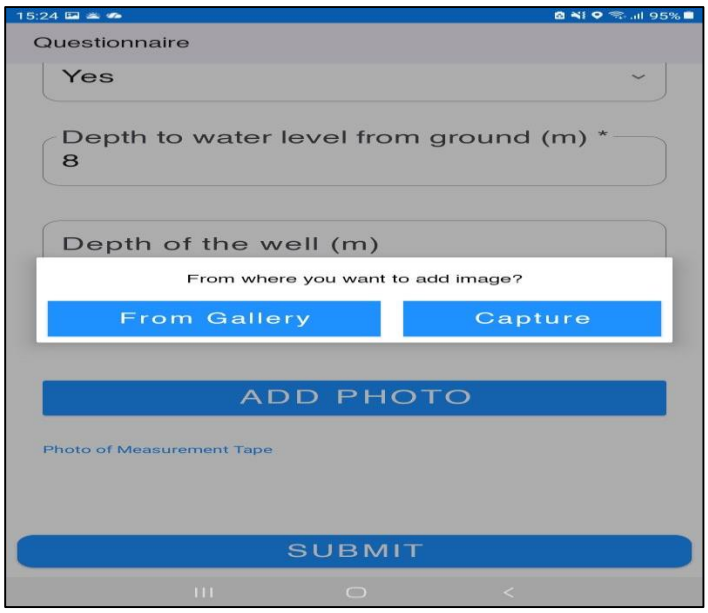
Please upload the following photos:

- **Photograph of Well:** Click on the **ADD PHOTO** button to take or upload a clear photo of the well.
- **Photo of Measurement Tape:** Click on the second **ADD PHOTO** button to upload a photo of the measurement tape used for measuring the water level.
  After uploading both photos, click on the **SUBMIT** button to save the information.

Note: Please make sure the photos are clear and properly visible before submitting the form.



After filling in all the required details in the questionnaire, upload a photo of the well.



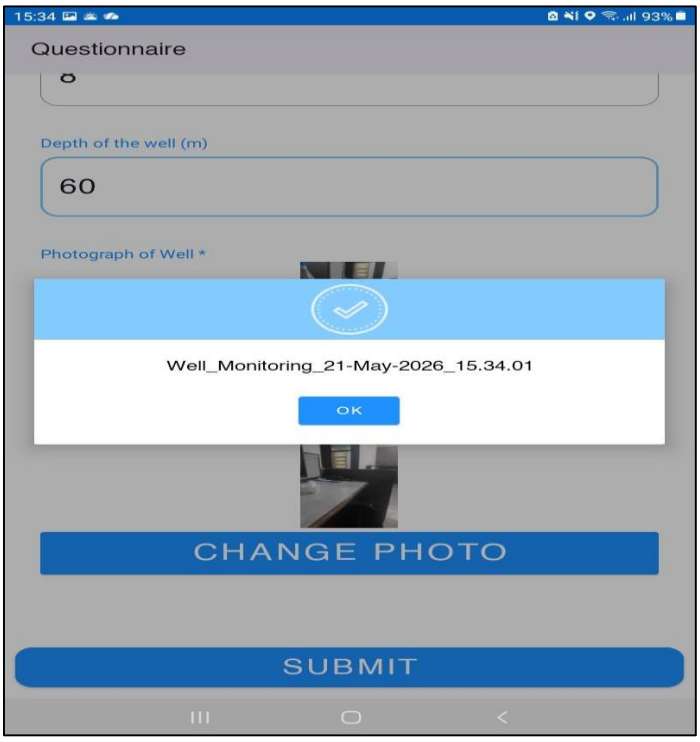
Click on the ADD PHOTO button to upload the picture.

A pop-up message will appear with the following options:

FROM GALLERY: Select this option to upload an existing photo from your device gallery.

CAPTURE: Select this option to take a new photo using the device camera and upload it directly.

Note: Please make sure the photo of the well is clear and taken safely.



If needed, you can change the uploaded photo by clicking on the CHANGE PHOTO button.

Once everything is filled correctly, click on the SUBMIT button.

After successful submission of the questionnaire, a confirmation pop-up message will appear on the screen.

Click on OK to complete the data submission process.

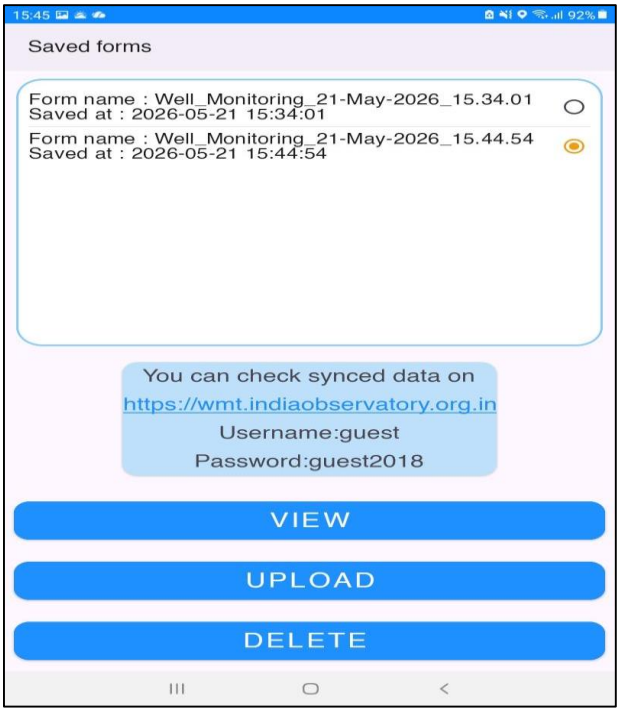
12. SAVED FORMS:

After successfully filling and submitting a form, the form data is automatically saved on the device.
Saved forms can be accessed by clicking on the icon
After clicking the icon, a pop-up message will appear on the screen.

- Click on **YES** to view the saved forms.
- Click on **NO** if you do not want to open the saved forms.



After clicking on **YES**, the Saved Forms screen will open as shown below.



This screen displays all the forms saved on the device along with the date and time of saving.

Select the saved form that you want to access by clicking on it

The following actions can be performed on the selected saved form:

VIEW:Allows the user to open and view the saved form details.

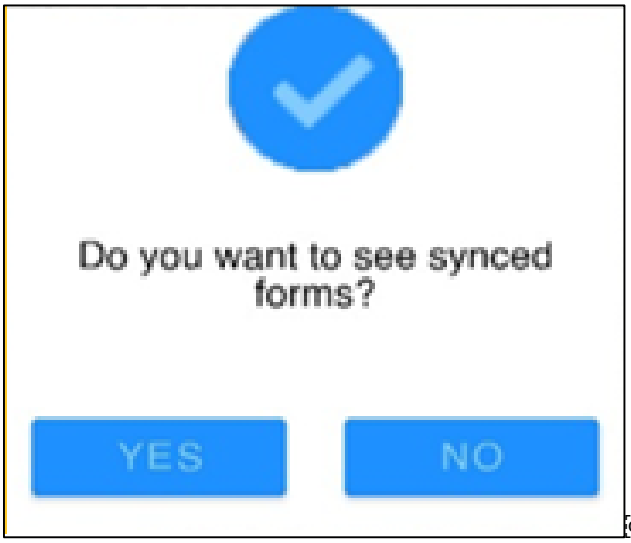
UPLOAD:Uploads and syncs the selected form data to the database/server.

After uploading, the form can be viewed in the Synced Forms section.

DELETE:Removes the selected saved form from the device.

Please make sure the correct form is selected before performing any action.

13.SYNCED FORMS:



After the saved forms are uploaded, the data is synced to the app database and can be accessed or updated anytime.

Synced forms can be accessed by clicking on the icon shown .

After clicking the icon, a pop-up message will appear on the screen.

- Click on YES to open the synced forms section.
- Click on NO if you do not want to continue.

After clicking on **YES**, the Synced Forms screen will open as shown below.
This screen displays all the forms that have been successfully synced to the database.



Select the synced form that you want to access by clicking on it.

The following actions can be performed on the selected synced form:

VIEW:Allows the user to open and view the synced form details.

RESEND:Re-uploads or sends the selected form data to the database again.

DELETE:Removes the selected synced form from the device.

Please make sure the correct form is selected before performing any action.

14.Viewing/Updating synced well locations:

This feature helps users track changes in well water levels during different times of the year.

Region-Based Well Data

Using this feature, users can view synced well locations for a selected region.

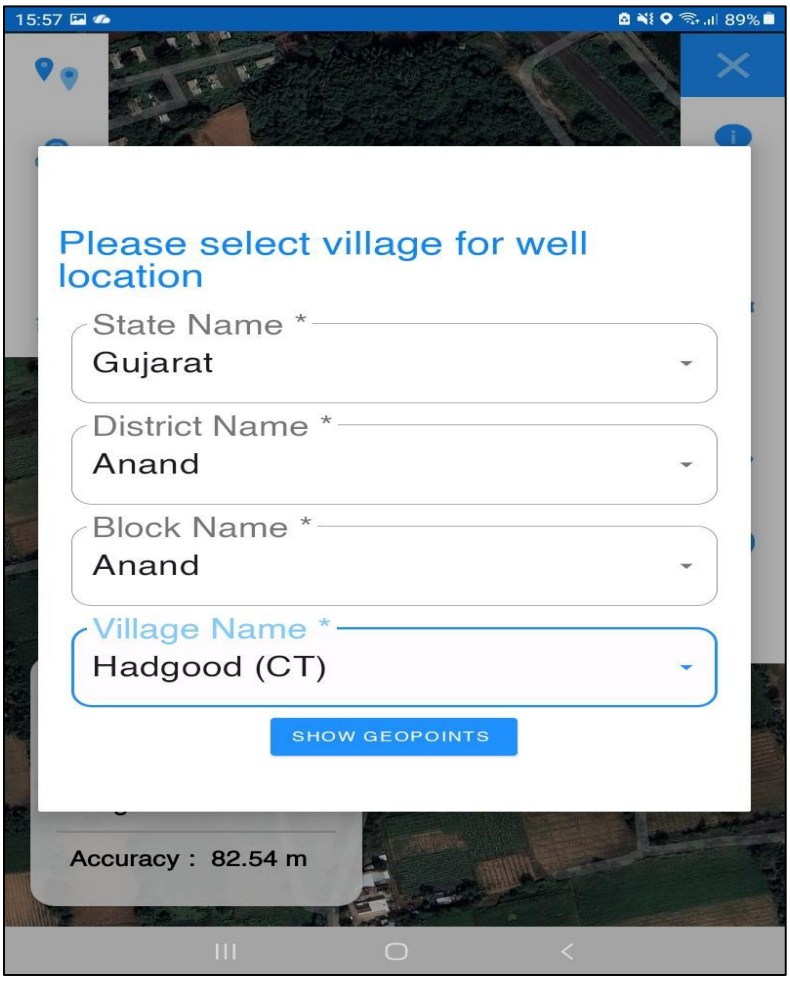
After clicking on this option , a questionnaire pop-up will appear on the screen.

Please fill in the details step by step in the following order:

- **State Name**
- **District Name**
- **Block Name**
- **Village Name**

After filling in all the required details, click on the **SHOW GEOPOINTS** button.

The app will then display all the synced well locations available in the selected region on the map.





The Geo-Point will appear on the interactive map as shown in the picture below.

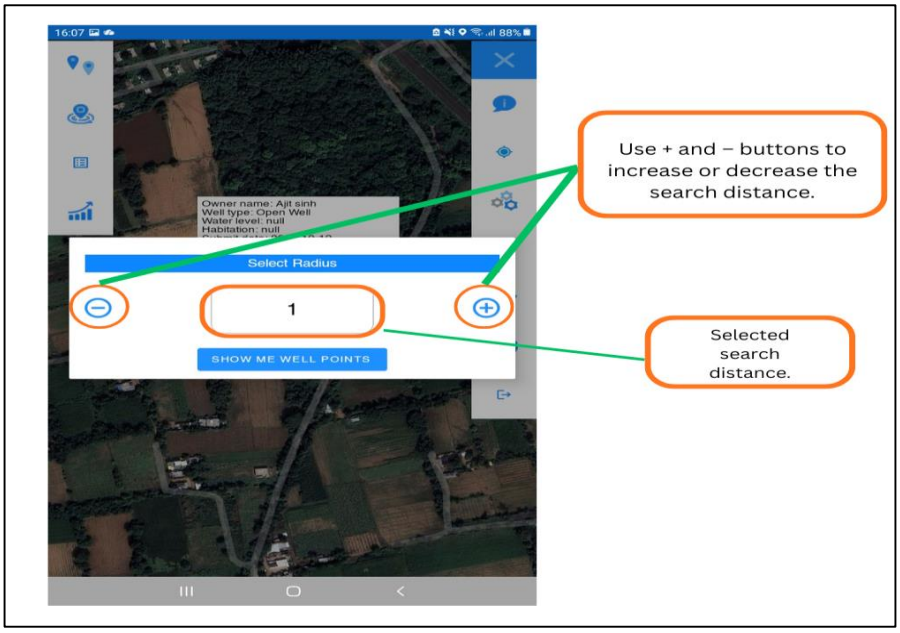
Click on the Geo-Point marker to view a short summary of the well location and related details.

Users can also update the well data from this option whenever required.

15.Available well data within a search radius:

To access this feature, click on the icon shown  .

- The toggle options allow users to select a search radius of up to **50 km** around the device's location.



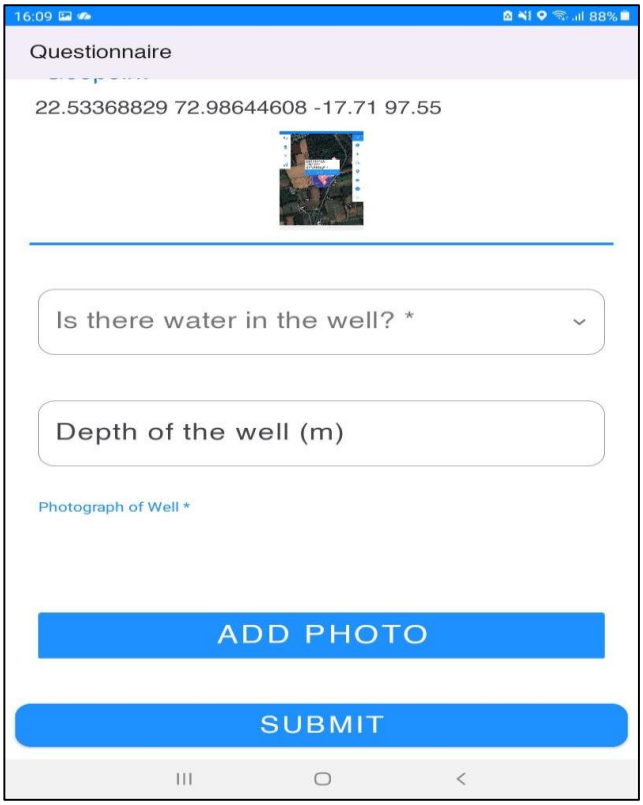


The synced well locations would be displayed in the interactive map as shown in the following picture:

Click on the well point and press button "Collect new data of same well" if you want to update; this will unveil a short summary of the location's details and an option to Update the data.

Note: By Use this method to quickly select and view/update the well in your nearby area.

16. Updating the synced well data:



After going through either of the steps mentioned in the above section the user has an option to collect new data of the same well Clicking on "Collect new data of same well".

This screen is used to update the existing well information.

The previously saved well location and details will be displayed automatically on the screen.

Users can update the required information by filling in the questionnaire again.

Please update the following details if required:

- Is there water in the well?: Select the current water availability status of the well.
- Depth of the Well (m): Enter the updated depth of the well in meters.
- Photograph of Well: Click on the ADD PHOTO button to upload a new photo of the well if needed.

After updating all the required details, click on the SUBMIT button to save the updated information.

17.Report Each Area

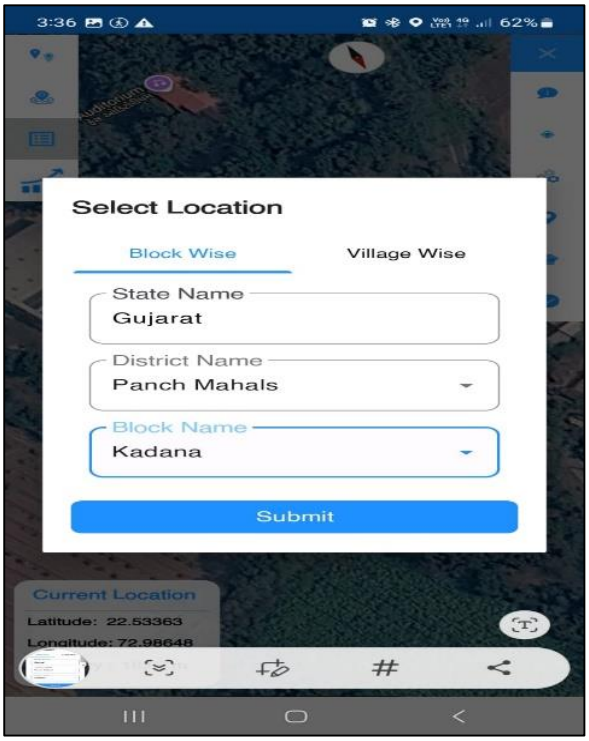
This can be accessed using the this icon It allows users to view Pre-Monsoon and Post-Monsoon Average Water Level Reports in meters at the village or block level.Users can generate groundwater-level distribution reports with maps, legends, and seasonal water-level patterns directly from the app.To generate a report, select the following details in order from the drop-down menus:

- State Name
- District Name
- Village Name or Block Name

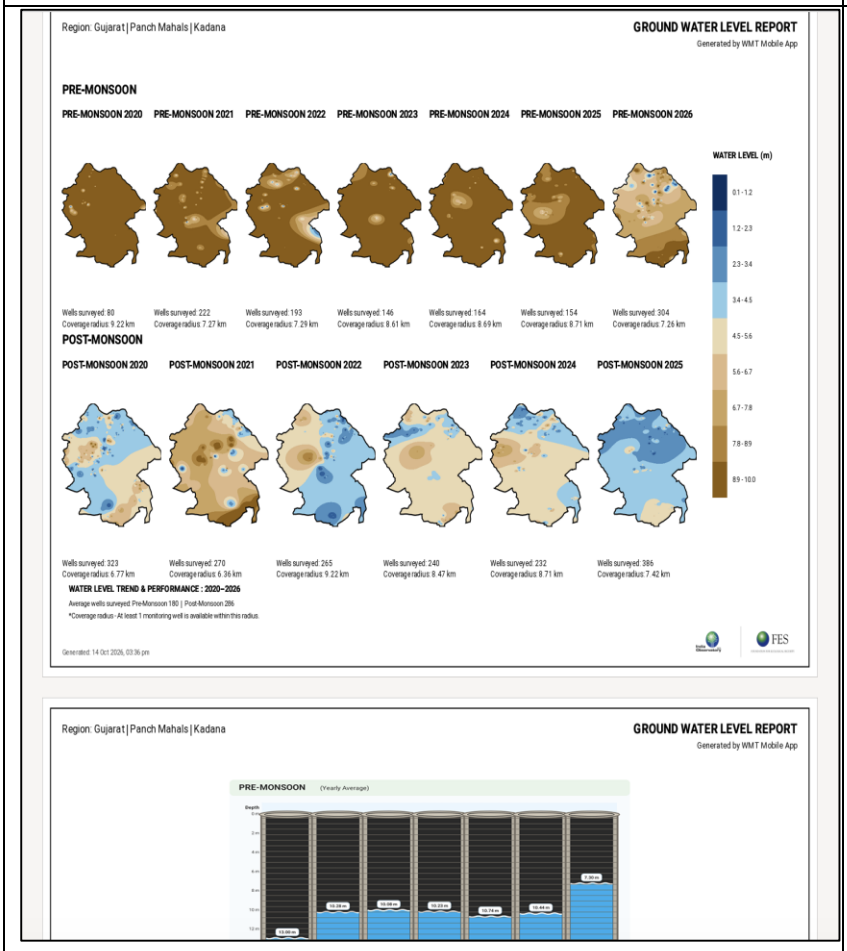
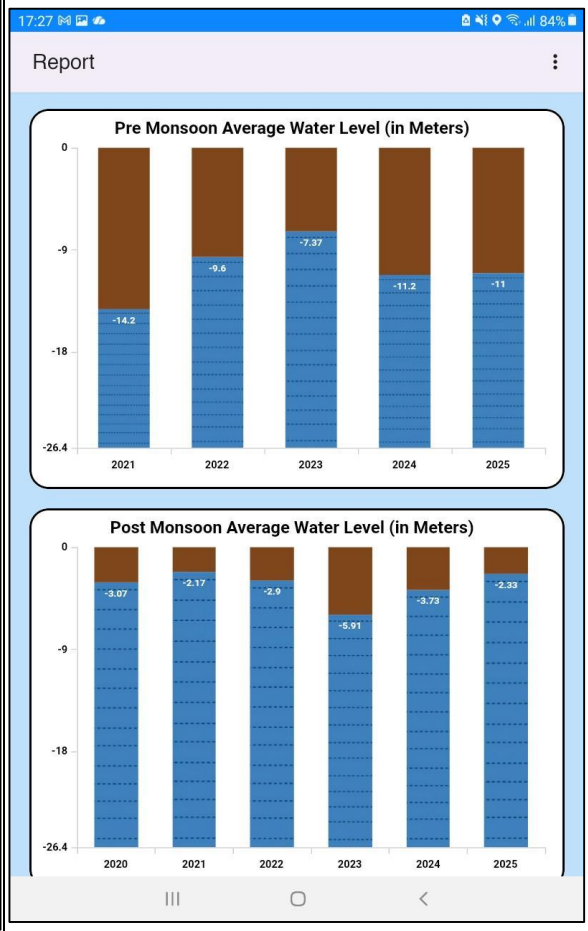
After selecting all the required details, click the **SHOW REPORT** button.The app will generate and display the water-level report for the selected region on the next screen. The report includes average groundwater-level data for both seasons:

- **Pre-Monsoon**
- **Post-Monsoon**

All water-level values are displayed in meters (m). The maps, legends, and seasonal patterns help users understand groundwater-level distribution and compare changes between the two seasons.



Users can choose either **Block Wise** or **Village Wise** from the location options. The report will be displayed according to the selected block or village, as shown in the images below.

Select Location – Block Wise	Select Location – Village Wise
	

18.Pre-Monsoon and Post-Monsoon Report

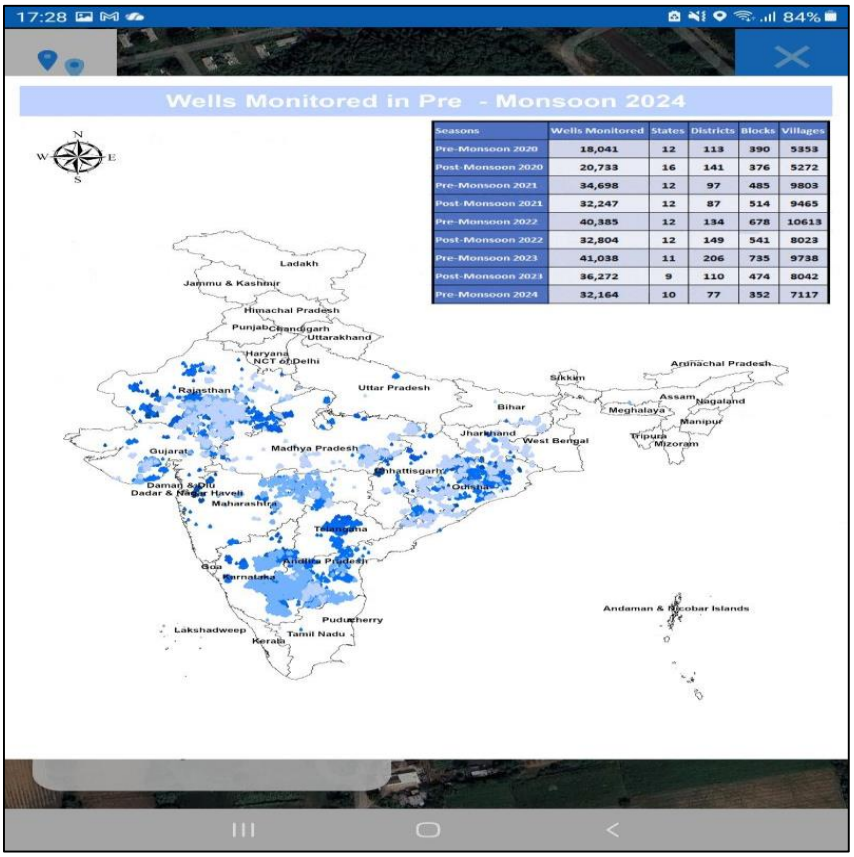
This feature can be accessed by clicking on the icon .

After clicking the icon, the app will display the Pre-Monsoon and Post-Monsoon well monitoring report on the screen.

The report includes:

- Well monitoring locations shown on the map
- Seasonal well monitoring data
- Number of monitored wells
- State, district, block, and village-wise information

The report helps users understand groundwater monitoring data for different regions and seasons.



19. The Settings tab:



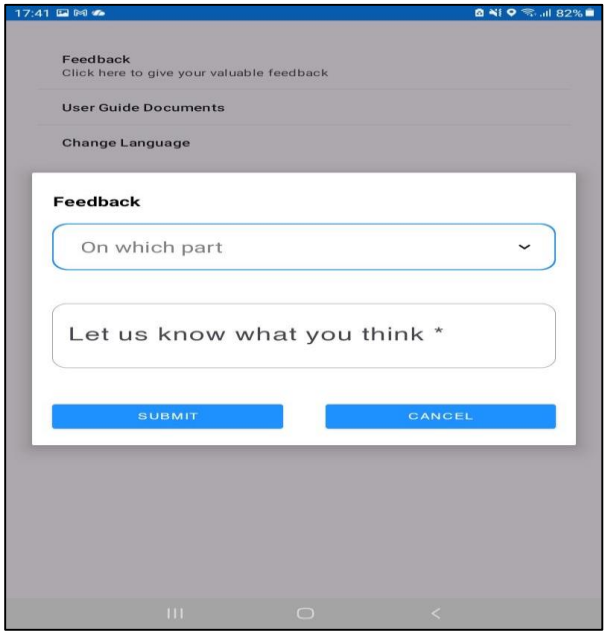
The app settings can be accessed by clicking on the icon shown

After clicking the icon, the Settings screen will open.

The Settings section contains the following options:

- Feedback
- User Guide Documents
- FAQs
- Change Language
- Generated Reports
- Date of Last Update
- Current App Version

20. Feedback Feature



The Feedback option allows users to share suggestions, report issues, or provide comments about the app.

Your feedback helps improve the application and provide a better experience for all users.

To submit feedback, follow the steps below:

Steps to Submit Feedback

- Open SETTINGS
- Click on FEEDBACK
- Select the relevant option from the drop-down menu
- Enter your feedback or suggestion in the text box
- Click on the SUBMIT button

If you do not want to submit feedback, click on the CANCEL button.

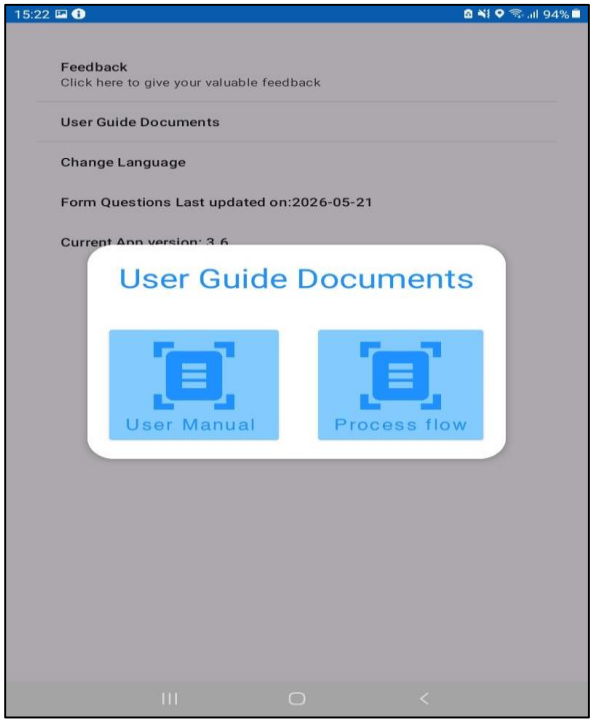
21. User Guide & Change language

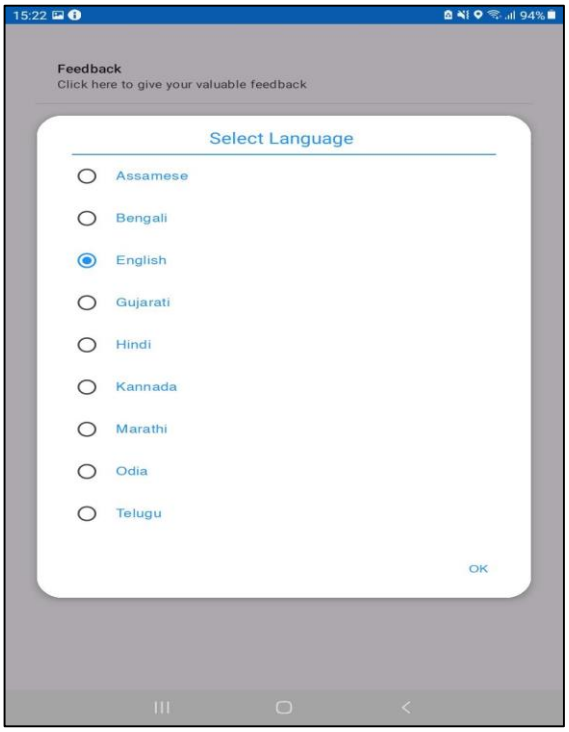
User Guide Documents

The **User Guide** section allows users to access and view the application's user manual. The manual provides detailed instructions on how to use the application and includes the process flow, which explains the application's workflow and how its various features function.

Change Language

The **Select Language** option allows users to change the application's display language through the **Settings** section. Users can select their preferred language to make the application easier to use and understand.



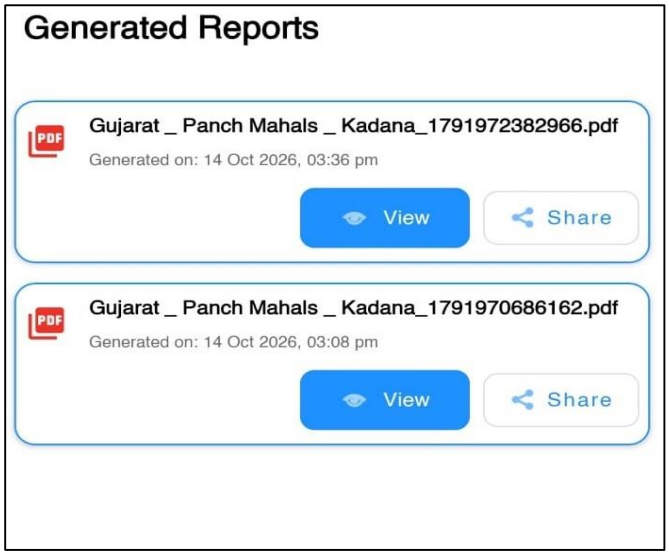




22.FAQs

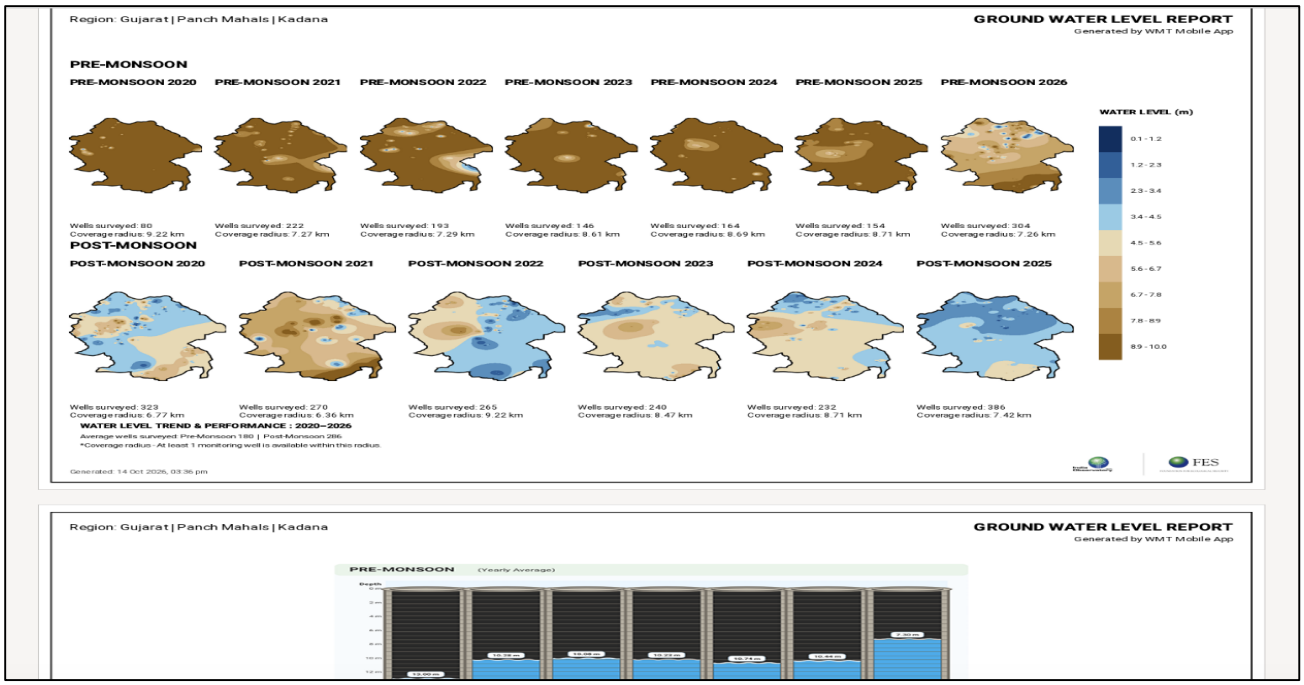
Find answers to frequently asked questions in this section. Browse common questions and get quick, helpful answers to your queries.

23. Generated Reports



View pre-monsoon and post-monsoon reports under Settings > General Reports. Reports appear here only after they are downloaded from the **Report Each Area** option from home screen.

Below is the screen how data shows after clicking view button:





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