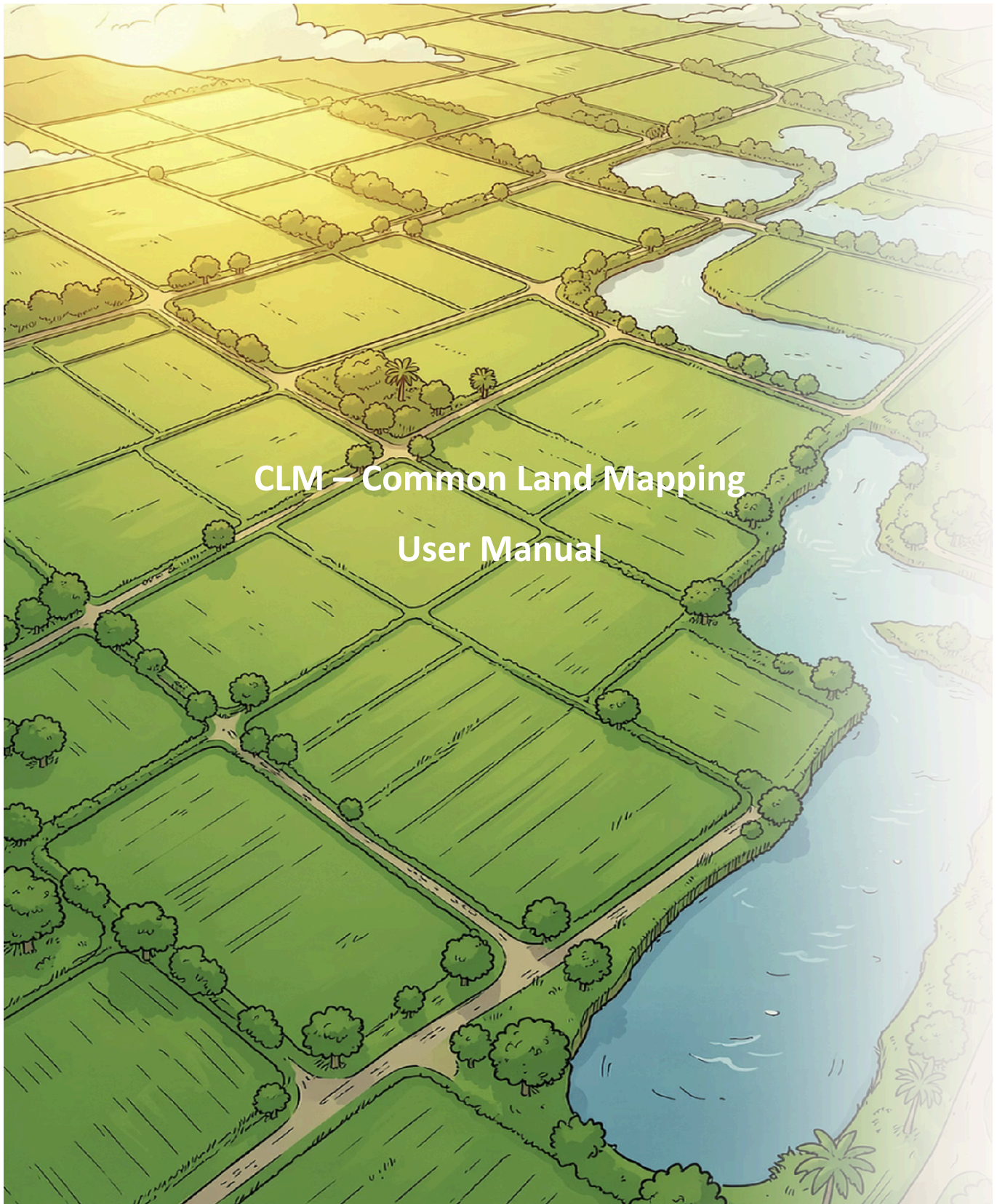




Common Land Mapping User Manual

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Common Land Mapping User Manual

What is this app?

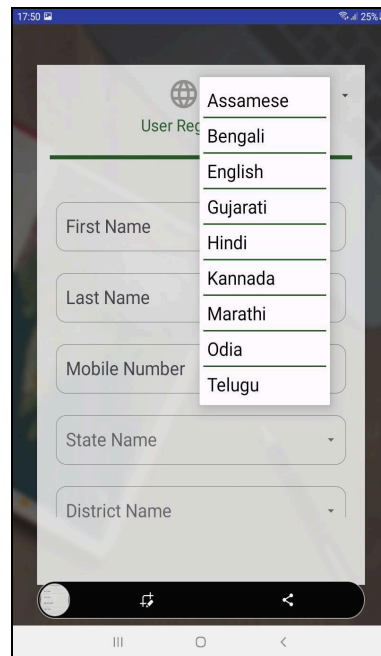
CLM Mobile App helps user map and manage common land. This app is part of FES's India Observatory work. User can use this app to walk on land, mark its boundary, take photos, and save the information.

Who can use this app?

Any field worker or volunteer who is collecting land information can use this app.

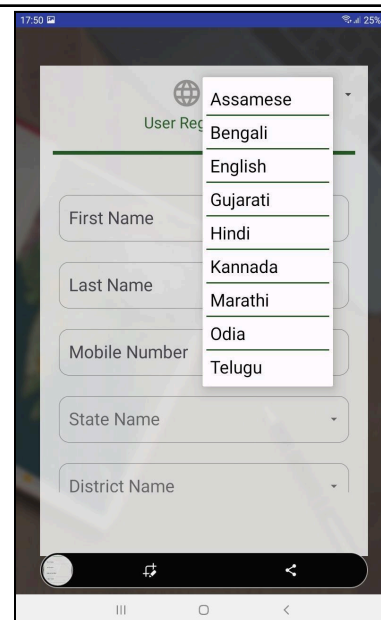
Step 1: Select Language

- User can choose the language they are comfortable with.
- Language options available: Assamese, Bengali, English, Gujarati, Hindi, Kannada, Marathi, Odia, Telugu.
- Tap on any one language to select it



Step 2: User Registration

- After selecting language, a registration form
- User needs to fill:
 - o First Name
 - o Last Name
 - o Mobile Number
 - o State Name
 - o District Name
 - o Organisation Name

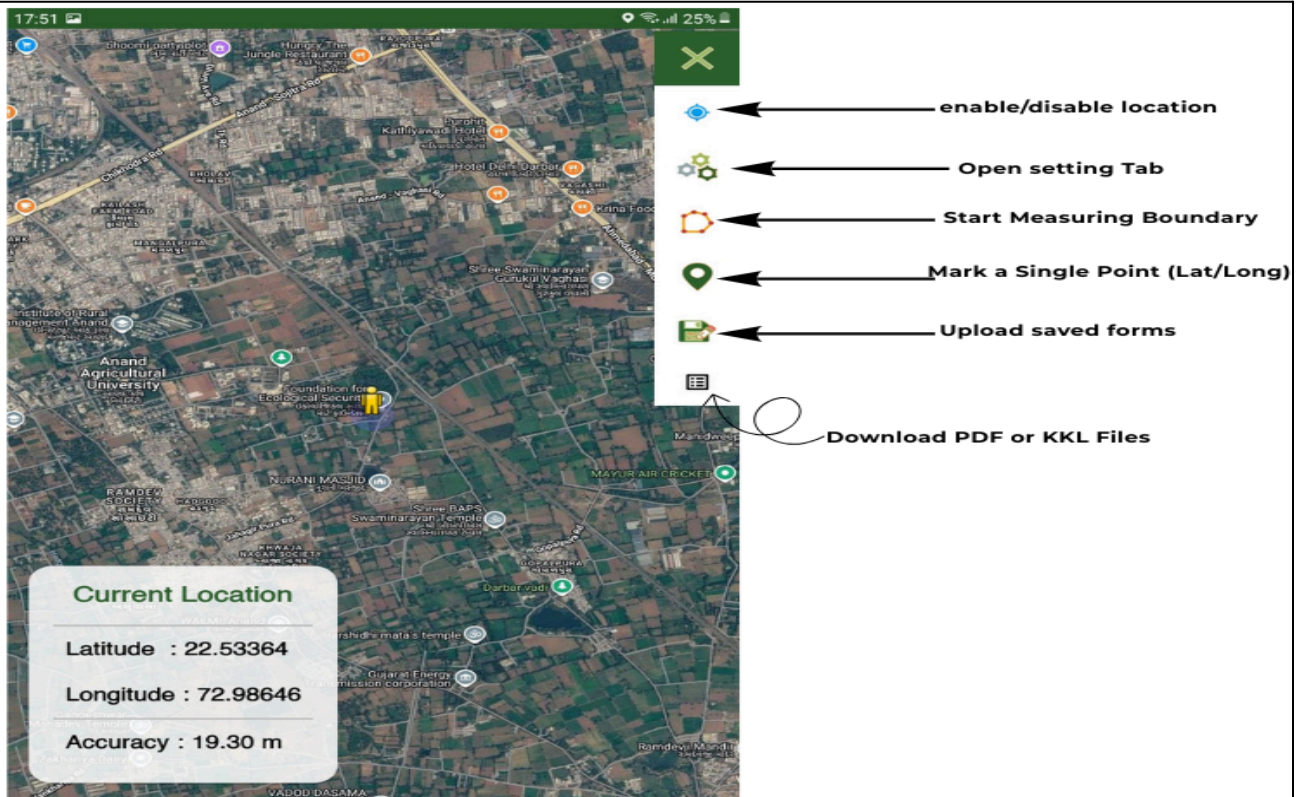
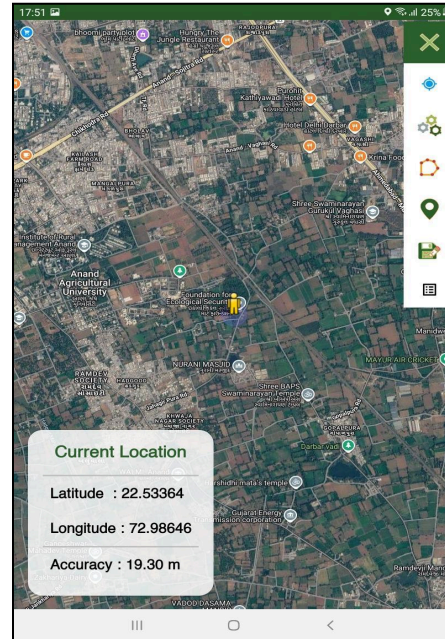


Ste 3: Home Screen (Map Screen)

After registration, user will see the map screen. This screen shows the current location on map.

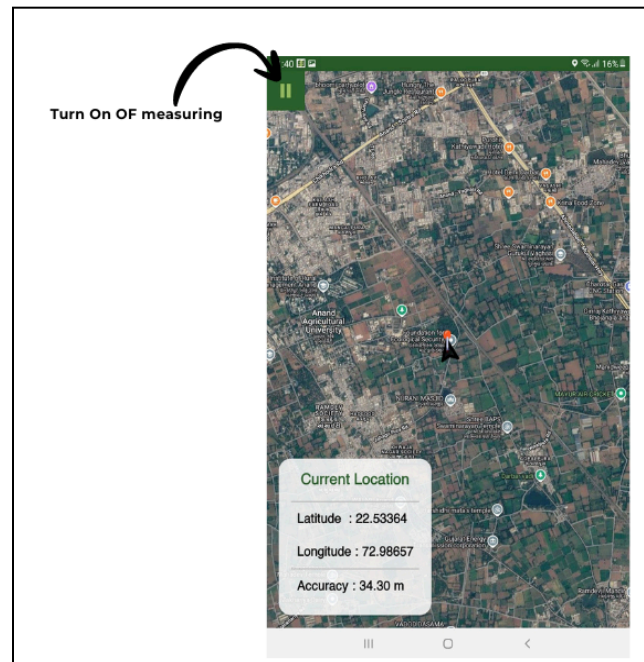
On this screen, user will see some icons on the right side:

- **Location icon** – shows user's current location on map.
- **Settings icon** – opens app settings.
- **Polygon icon** – used to start mapping land boundary.
- **Pin icon** – used to mark a point location.
- **Save icon** – used to save the map after mapping is done.
- **List icon** – shows saved records.



Step 4: Start Mapping the Land |

- To start mapping, user should tap the polygon icon and begin walking along the boundary of the land.
- While walking, the app will keep recording the path on the map.
- User can see the Current Location (Latitude, Longitude, Accuracy) updating live at the bottom of the screen.
- To pause the recording, user can tap the pause button on top left.
- When you turn off your phone still it can take lat lon in background.

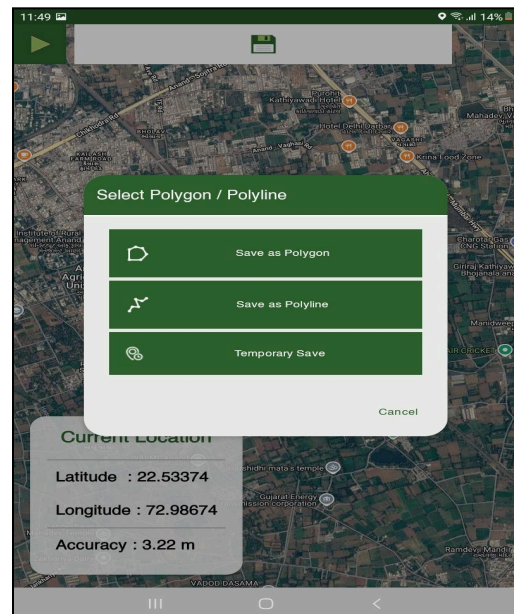


Step 5: Save the Map |

After walking the full boundary, user should tap the stop icon. A popup will open with three options:

- **Save as Polygon** – use this when the land boundary makes a closed shape (like a field).
- **Save as Polyline** – use this when mapping a line, like a road or canal, not a closed shape.
- **Temporary Save** – use this to save the work for now and resume it later.

User can select the option that matches their work, or tap Cancel to go back.



Step 6: Fill the Questionnaire

After saving the map from top tab bar save button, a Questionnaire form will open.

Once all details and photos are added, user should tap the SAVE button at the bottom to submit the form. Above save button shows all lat lon covered by user

Questionnaire

All * marked questions are mandatory

Data Collection Type:

Choose Form Type:

State Name:

District Name:

Block / Mandal Name:

SAVE

Questionnaire

Upload Photos *

Add another photo

Approx. Distance 118.70 (m)

Total Recording Duration: 00:01:57

Polyline Points:

22 5336413 72 905501 6 300000190734863 33 232 22 5336376 72 9055336 6 300000190734863 7 715 22 5335988 72 9055285 6 300000190734863 8 812 22 5335798 72 9055198 6 300000190734863 9 145 22 5335527 72 9055008 8 300000190734863 10 197 22 5334746 72 9055052 8 300000190734863 8 389 22 5334196 72 9055038 6 300000190734863 5 145 22 5337795 72 9055395 6 300000190734863 4 697 22 5338609 72 9055296 6 300000190734863 11 702 22 5340776 72 9055059 6 300000005367432 8 668 22 5341131 72 9055042 5 300000005367432 3 216 22 5341859 72 9055405 5 300000005367432 3 216 22 5342436 72 9055157 6 300000190734863 3 216 22 5343191 72 9055002 6 300000190734863 3 216 22 5344176 72 9055544 6 300000190734863 3 359 22 5344725 72 9055228 6 300000190734863 3 216;

SAVE

Step 7: Saved Forms



After saving, user can go to the Saved Forms screen. Here user will see all the forms they have filled and saved. At the bottom of this screen, user will also see a note:

You can check synced data on:

<https://apps.fes.org.in/mapping>

Username: guest

Password: guest2018 User can use this link to check their uploaded data on computer also.

- **UPLOAD** – to send the saved form to the server you can upload one form each time, not able to select multiple.

Saved Forms

Form name : Common_Land_(MELIA_STUDY)_t_03-07-2026_11.43.20

Saved at : 2026-07-03 11:43:20

You can check synced data on

<https://apps.fes.org.in/mapping>

Username: guest

Password: guest2018

VIEW

UPLOAD

Step 8: View Form Details

Two buttons are given at the bottom:

- VIEW – to see the full details of the saved form

The screenshot shows a mobile application interface for viewing form details. The title bar at the top reads 'Common_Land_(MELIA_STUDY)_t_03-07-2026...'. Below the title bar, there is a list of form fields, each with a label and a value. The fields are: ID (2), FORM TYPE (3), DATE (2026-07-03 11:43:20), FORMNAME (Common_Land_(MELIA_STUDY)_t_03-07-2026_11.43.20), NAME OF COMMON LAND (t), LAND CATEGORY (Grazing Land), and AREA OF THE LAND (HA) (SURVEY NO WISE) (2). The bottom of the screen shows a navigation bar with three icons: a list icon, a home icon, and a back icon.

Step 9: Synced Forms PDF and KML Files



- After the form is uploaded, user can go to Synced Forms screen. Here user will see the list of all forms that are synced with the server.
- PDF – tap to open the form as a PDF file
- KML – tap to open the form as a KML file

Below that, user will see three buttons for each form:

- VIEW – tap to open and see the file
- DOWNLOAD – tap to save the file on the phone
- SHARE – tap to send the file to someone, like on WhatsApp or Email

The screenshot shows a mobile application interface for the 'Synced Forms' screen. The title bar at the top reads 'Synced Forms'. Below the title bar, there is a list of forms. The first form is 'Common_Land_(MELIA_STUDY)_t_03-07-2026_11.43.20'. Below the form name, there are two buttons: 'PDF' and 'KML'. Below these buttons, there are three buttons: 'VIEW', 'DOWNLOAD', and 'SHARE'. The second form is 'Private_Land_test_02-07-2026_18.01.35'. Below the form name, there are two buttons: 'PDF' and 'KML'. At the bottom of the screen, there are three buttons: 'MERGED KML', 'MERGED KML', and 'MERGED KML'. The bottom of the screen shows a navigation bar with three icons: a list icon, a home icon, and a back icon.

Step 10: Show PDF

The PDF report includes:

- Basic Location Details – State, District, Block, Village
- Category – example: Polyline
- Length (in meters) and Time Duration of the mapping walk
- Name of the Panchayat and Name of Common Land
- Land Category – example: Grazing Land
- Area of the Land (ha) – Survey number wise
- Total number of common lands in the village

Step 11: Setting



- User can open Settings anytime from the map screen to:
- Select Language – change the app language. Tap on it, and a list will open where user can choose the preferred language.
- Do's and Don'ts – read important tips before using the app. This content will show in the same language that user has selected.
- Update App – check and update to the latest app version.
- The screen also shows when the Form Questions were last updated, and the Current App Version number.

Additional Notes (Important Points to Remember):

1. Single Point (Pin Icon) Direct to Questionnaire



- When user taps the **Pin icon**, it takes only one Latitude and Longitude point (a single location), instead of mapping a full boundary.
- After marking this single point, user should tap the Save button on the Home Screen.
- This will directly open the Questionnaire form, where user can fill the details.

2. Polygon and Polyline in PDF Report



- If user has selected Polyline while mapping, the PDF report will show the result in its own unit — Length (in meters)
- If user has selected Polygon while mapping, the PDF report will show the result in its own unit — Area (in hectares)
- So the PDF automatically shows the correct unit based on what type of mapping user has done.

3. Temporary Save button For Large Areas



- If the land area is very big and cannot be measured in one go, user can tap Temporary Save instead of finishing it fully.
- This will save the mapping work halfway, so user does not lose the progress already made.
- User can come back later even the next day and continue the same mapping.
- To continue, user should go to the Home Screen and tap the Start button on the top left corner to resume mapping from where they left off.

4. Mapping Continues Even If Mobile Screen Is Closed

- User does not need to keep the app open on screen all the time while measuring.
- Even if the mobile screen is locked or closed, the app keeps recording the location in the background.
- User can check the live Latitude and Longitude updating inside the phone's notification bar, to confirm that mapping is still running.