

Green Ag: Transforming Indian Agriculture for Global Environmental
Benefits and the Conservation of Critical Biodiversity and Forest
Landscapes

User Manual

Android application for Household survey



1. Introduction

1.1 Green-Ag Project

The Global Environment Facility (GEF) approved the Government of India's GEF-6 project titled, "Green-Ag: Transforming Indian agriculture for global environmental benefits and the conservation of critical biodiversity and forest landscapes". The project objective is to catalyze transformative change for India's agricultural sector to support the achievement of national and global environmental benefits and conserve critical biodiversity and forest landscapes. The project is being implemented in the following high-conservation value landscapes in the five states:

- Chambal Landscape (Madhya Pradesh),
- Dampa landscape (Mizoram),
- Similipal Landscape (Odisha),
- Desert National Park Landscape (Rajasthan), and
- Corbett- Rajaji Landscape (Uttarakhand)

1.2 What is a household survey?

Household survey consists of a set of questionnaires. The survey is conducted with a sample of households in landscape. This survey is aimed at capturing the reality of the landscape in terms of socio-economic condition, livelihood options, awareness of individual about different government programmes and schemes. When executed properly, the surveys provide quantitative and qualitative information which generates baseline data and helps in decision making.

1.3 Objective of the Household survey

Household survey in the Green-Ag project will help generate baseline data on the current state of socio-economic status, livelihood options, the dependence of project villages/ communities on forest resources, and availability of access to government institutions/ schemes in the field level in concerned landscapes. The progress made by the project will be assessed by comparing the baseline data with end line data. Gender disaggregated data on all relevant parameters will be collected.

1.4 How to conduct survey?

Identification of households-

- Before starting the survey, the sample households will be identified using statistical sampling method.
- After the households have been identified, the Community Resource Persons (CRPs) should inform the sarpanch/panch/ village council president and seek their consent for conducting the survey.
- Further the CRPs should meet the household head and inform him/her about the project, the household survey and the approximate time that will be needed to complete it. Then fix a suitable date and time for conducting the survey and also enquire who will be answering the questions related to the survey.
- CRPs should also inform the household head that some sections involve data to be collected on women's role. Hence women members should be asked to be present during the survey.

Note: In any case the CRPs are not supposed to forcefully ask to furnish any information from the respondents.

Things to remember during the survey-

- CRPs should greet the respondent and enquire if they are ready for the survey.
- CRPs should sit in a place provided by the respondent or in an open space- preferably just outside the house. They should encourage participation of other family members also.
- CRPs need to listen the respondent carefully and patiently to capture accurate responses to the questions.
- Optimal ignorance- do not try to be precise to the second decimal point in each data item (may it be income, production, the value of the sale, or any other item), as we are interested in general data about the situation not very specific for the person/ household. A good approximation will be okay , very specific data is not required.
- Be mindful about the religious beliefs and customs of the respondents. It is advisable to converse with the respondents in local language.
- Be sensitive to the local gender norms and respectful towards the local traditions.
- CRPs should try to complete the full survey (for one Household) in a single sitting.

Logging In the Application



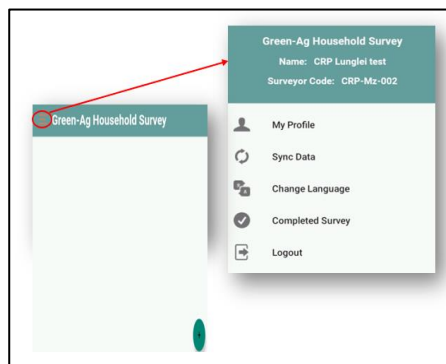
Step 1

- Enter your Login Credentials (*Email ID and Password provided by the State/District team*).
- Click the login button to login into the application.



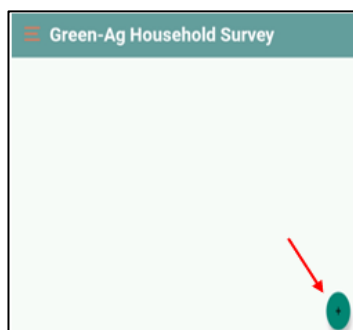
Step 2

- Once logged in successfully, select your preferred language from “Choose language” menu.



Step 3

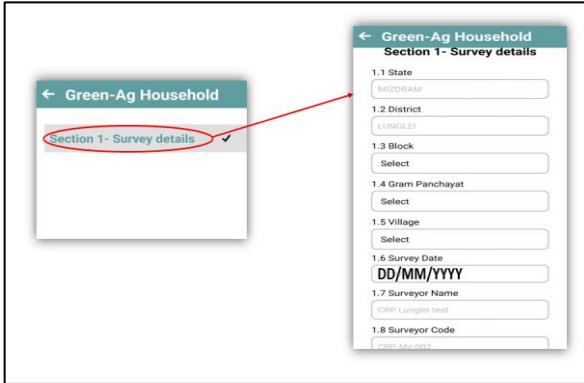
- Click the top left corner menu button on the screen for the following sub menu.
 - Check user profile
 - Synchronize data
 - Change language
 - Completed survey
 - Log out of the application



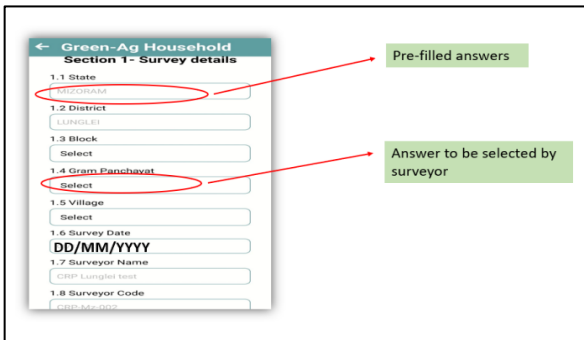
- Press the ‘+’ button at the bottom right corner to start the survey.
- Ongoing surveys are displayed at the top of the screen.

General Instructions

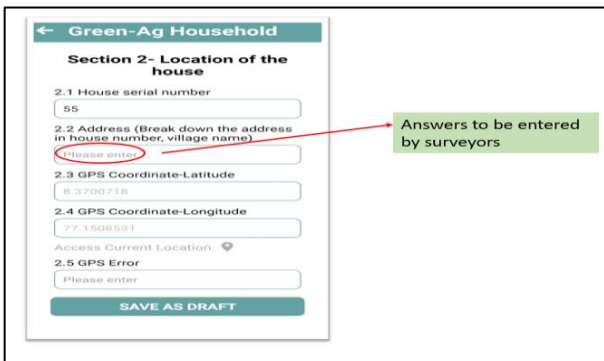
An Internet connection is required only for logging into the application and during data synchronization.



- Clicking on any survey section will display the questions of that section



- Pre-filled data/information are watermarked and need not be filled/updated by the surveyor.
- Few questions will show "Select option", wherein the surveyor has to select options from the drop-down menu



- For the questions with the "Please enter" option, the surveyor needs to manually enter the answers.
- Do not use any special characters (. , # @ etc.) while entering the data.

General Instructions

← Green-Ag Household

4.1.7 Education status of the household head

Higher secondary education

4.1.8 Household head ID card type#

Driving License

4.1.9 Household head ID card number#

Please enter

Not Mandatory

- The questions marked with a "#" mark are **not mandatory**. The survey can be completed without filling in those parts also.

← Green-Ag Household

Section 1 - Survey details

SAVE AS DRAFT

- Once the answers are filled in for the respective section, click the "Save As Draft" button at the bottom to save the answers.
- The details will be saved only when all the fields are filled appropriately.

← Green-Ag Household

Section 1 - Survey details ✓✓

Section 2 - Location of t... ✓

Completed

Upcoming/Incomplete section

- Double tick mark indicates that the section is completed.
- Single tick mark indicates upcoming or incomplete section.

To go back to the previous page

← Green-Ag Household

Section 1 - Survey details ✓✓

Section 2 - Location of t... ✓

- To go back to the previous page, click on the arrow on the top left.

Section 1 Survey Details

Green-Ag Household Survey

Section 1- Survey details

1.1 State
BIHAR

1.2 District
JHARSUGAR

1.3 Block
Select

1.4 Gram Panchayat
Select

1.5 Village
Select

1.6 Survey Date
06/11/22

1.7 Surveyor Name
ESP_Jasalmer Test

1.8 Surveyor Code
00000000

SAVE AS DRAFT

Select appropriate Block, Gram Panchayat & Village details from the drop-down menu

- This section has eight parts, and all questions are mandatory.
- Out of 8 parts, the surveyor needs to select appropriate Block, Gram Panchayat & Village details from the drop-down menu.
- Remaining five parts are pre-filled.
- Once completed double tick mark will appear.

Section 2 Location of the House

Green-Ag Household Survey

Section 2- Location of the house

2.1 House serial number
Please enter

2.2 Address (Break down the address in house number, village name)
Please enter

2.3 GPS Coordinate-Latitude
28.5708463

2.4 GPS Coordinate-Longitude
77.2011161

Access Current Location

2.5 GPS Error
Please enter

SAVE AS DRAFT

This field is alphanumeric. The surveyor can enter both numbers and alphabets.

- This section has five questions of which four are mandatory.
- Out of five, the surveyor needs to enter the house's serial number and address.
- The house serial number and address are both alphanumeric fields. The surveyor can enter both numbers and alphabets.

Section 3 Respondent Information

← Green-Ag Household Survey

Section 3- Respondent Information

3.1 Respondent's name
Please enter

3.2 Respondent's ID /Code
Please enter

3.3 Son /Daughter/Husband/Wife of
Please enter

3.4 Gender
Select

3.5 Age group
Select

3.6 Relationship of the respondent to the household head
Select

3.7 Primary Contact number
Please enter

3.8 Secondary Contact number
Please enter

SAVE AS DRAFT

Answers need to be filled by the surveyor.

Appropriate options to be selected from the drop-down menu

Answers need to be entered by the surveyor.

- This section captures basic information about the respondent in form of 8 questions of which 7 are mandatory.
- Section has eight parts about the respondent:
 - Name, ID, father's/husband's/wife's name, gender, age, relationship with household head, and contact number.
- Questions 3.1 to 3.3 and 3.7 to 3.8 are to be manually filled in.
- Options are to be selected from drop-down menu for Questions 3.4 to 3.6.

Section 4 Socio-demographic details

This section has following eight subsections.

- I. **Sub-Section 4.1: General information of household head-** Nine questions for details on household head, where two questions are optional and seven are mandatory.
- II. **Sub-section 4.2: Details about the household members** – Six questions/sub-questions for details on other household members. Four questions are mandatory and two are optional.
- III. **Sub-section 4.3: General information of household** – Seven questions/sub-questions for details on ownership of house, electricity, sanitation, drinking water etc. All questions are mandatory.
- IV. **Sub-section 4.4: Household access to health services** – One mandatory question on health services
- V. **Sub-section 4.5: Household access to social schemes and services-** Three questions/sub-question on social schemes of which two are mandatory and in a follow-up question at least one type of information has to be filled.
- VI. **Sub-section 4.6: Loan facility** – One mandatory main question and a follow-up question to be filled for the loan facility

Section 4 Socio-demographic details

VII. Sub-section 4.7: Occupation of household head- One mandatory question on primary and secondary occupation of the household

VIII. Sub-section 4.8: Household income and expenditure- Two mandatory questions and three optional questions on income and expenditure of the household.

IX. Few questions in this section will be visible depending upon the option selected/filled for the previous question. Hence, they may be visible for one household and not visible for another household.

Major Source of Income	Available screen/section
Agriculture & Horticulture	5,11,13,14,15 &16
Agriculture labour	13,14,15 & 16
Poultry	7,11,13,14,15&16
Fish farming	8,11,13,14,15&16
Bee Keeping	9,11,13,14,15 & 16
Sericulture	10, 11,13,14,15 & 16
Livestock	6,11,12,13.14,15&16

Section 5 Agriculture/Farm Information

Green-Ag Household Survey

4.8 Household Income & expenditure

4.8.1 What is the major source of income of the household? (Please choose the option)

Select

4.8.2 What were the major areas of expenditure of the household in last one year? (Please choose the option)

Select

4.8.5 Please share the income and expenditure details related to following activities?

a) Dairy farming

4.8.5.2 Income (Approx. amount)

Please enter

4.8.5.3 Expenditure (Approx. amount)

Please enter

b) Poultry farming

4.8.5.2 Income (Approx. amount)

Please enter

4.8.5.3 Expenditure (Approx. amount)

Please enter

c) Piggery

4.8.5.2 Income (Approx. amount)

Please enter

4.8.5.3 Expenditure (Approx. amount)

Please enter

d) Fish farming

4.8.5.2 Income (Approx. amount)

Please enter

4.8.5.3 Expenditure (Approx. amount)

Please enter

- This section will appear only if the main source of household income is selected as **Agriculture** in **Section 4**.
- Once Agriculture is selected as the main source of household income, other sections from 6 to 10 and 12 on livestock, poultry, fish farming, beekeeping, sericulture, and fodder will not be available for data entry option.

This section captures data related to agriculture resources, inputs and cropping practices, production etc. It includes the following subsections.

- I. **Subsection-5.1: Land resources**
- II. **Sub-section 5.2: Irrigation sources**
- III. **Sub-section 5.3: Field crops -general**
- IV. **Sub-section 5.4: Horticulture crops (three Screens)**
- V. **Sub-section 5.5: Seeds and nursery**
- VI. **Sub-section 5.6: Soil health management**
- VII. **Sub-section 5.7: Weed & pest management**
- VIII. **Sub-section 5.8: Farm implements/ equipment**
- IX. **Sub-section 5.9: Crop yield**
- X. **Sub-section 5.10: Harvest, post-harvest & marketing; and**
- XI. **Sub-section 5.11: Challenges associated with crop production.**

Green-Ag Household Survey

- 5.1 Land resources ✓
- 5.2 Irrigation sources ✓
- 5.3 Field crops- General details ✓
- 5.4 Horticulture crops details Part - 1 ✓
- 5.4 Horticulture crops details Part - 2 ✓
- 5.4 Horticulture crops details Part - 3 ✓
- 5.5 Seeds & Nursery ✓
- 5.6 Soil health management & nutrition ✓
- 5.7 Weed & pest management ✓
- 5.8 Farm implements/equipments- Please provide details... ✓
- 5.9 Crop yield ✓
- 5.10 Harvest, post-harvest & marketing ✓
- 5.11 Challenges associated with crop production ✓

Note:

- All sub-sections under section 5 are to be Saved AS DRAFT individually.
- Section 5 will be completed only when all 11 sub-sections are done.

Section 6 Livestock

← Green-Ag Household Survey

4.8 Household income & expenditure

4.8.1 What is the major source of income of the household? (Please choose the option)

Select

4.8.2 What were the major areas of expenditure of the household in last one year? (Please choose the option)

Select

4.8.5 Please share the income and expenditure details related to following activities?

a) Dairy farming

4.8.5.2 Income (Approx. amount)

Please enter

4.8.5.3 Expenditure (Approx. amount)

Please enter

b) Poultry farming

4.8.5.2 Income (Approx. amount)

Please enter

4.8.5.3 Expenditure (Approx. amount)

Please enter

c) Piggery

4.8.5.2 Income (Approx. amount)

Please enter

4.8.5.3 Expenditure (Approx. amount)

Please enter

d) Fish farming

4.8.5.2 Income (Approx. amount)

Please enter

4.8.5.3 Expenditure (Approx. amount)

Please enter

- This section will appear only if the main source of household income is selected as **Livestock** in **Section 4.8.1**.

This section on livestock has three sub-sections.

- I. **Sub-section 6.1: Livestock management**
- II. **Sub-section 6.2: Livestock feed and production**
- III. **Sub-section 6.3: Disease management**

← Green-Ag Household Survey

Section 6- Livestock

6.1 Livestock management

6.1.1 Species

a) Cow

6.1.2 Category/ breed

Select

6.1.3 Breed Name

Please enter

6.1.4 How many do you own?

Please enter

6.1.5 What is the main source of the young stock?

Select

6.1.6 Type of breeding methods followed

Select

6.1.7 Who all in your family engaged in livestock management?

Section 7 to 10

- Sections 7 to 10 are related to poultry farming, fish farming, bee keeping and sericulture.
- These sections will appear only if any of these activities have been selected as the major source of household income in Section 4.8.1

← Green-Ag Household Survey

Section 7- Poultry farming

Please share the following details on poultry farming

7.1 Which of the following birds you have as poultry farming?
a) Chicken

7.2 What are the categories /breed?

7.3 Method of rearing

7.4 What feed do you use?

7.5 Who all engaged in poultry farming?

7.6 For what purpose these birds are being used?

← Green-Ag Household Survey

Section 8- Fish farming

Please provide following details on fish farming

8.1 Please provide following details on fish farming - Fish breed
a) Species 1

8.2 Type of breed

8.3 Place of rearing

8.4 Total area of rearing (ha)

8.5 No. of fishlings released in the pond/paddy field

8.6 Source of fishlings

← Green-Ag Household Survey

Section 9- Bee keeping

9.1 Are you practicing bee keeping?

9.2 If yes, then please share the following details.

a) How long you been engaged in beekeeping? (in Months)

b) Number of box/hives placed

c) If the honey was sold please select the option

d) Who all in your family engaged in beekeeping?

← Green-Ag Household Survey

Section 10- Sericulture

10.1 Are you practicing sericulture?

10.2 If yes, then please share the following details.

10.2.1 Mode of undertaking sericulture

10.2.2 How long you been engaged in sericulture? (in Months)

10.2.3 Please mention the tree name on which the silk worm is reared.

10.2.4 Who collects the cocoon?

Section 11 Forest Resources

← Green-Ag Household Survey

Section 11- Forest resources

11.1 Are you dependent on forest resources for your livelihood or other domestic needs?

Yes

11.1.1 If yes, then please choose for what produce you are dependent on the forests?

a) Food

Select

b) Wood & timber products

Select

c) Fodder

Select

d) Other forest products

Select

11.1.2 Please provide following details on Forest produce

- This section captures information about the extent of the dependence of household on forest resources.
- This section seeks answers under four categories: a) food, b) wood and timber products, c) fodder, and d) other forest products.

Section 12 Fodder

← Green-Ag Household Survey

Section 12- Fodder

12.1 Do the animals go for grazing?

Yes

12.1.1 If yes, then where do they go for grazing?

Select

12.1.2 Can you provide, how much time the animals have to travel to reach the grazing lands (hours)?

Please enter

12.1.3 How many hours do the animals spend in grazing?

Please enter

- This section will appear only if livestock is selected as the major source of household income.

Section 13 Access of household to Government institutions and services

← Green-Ag Household Survey

Section 13- Access of household to Government institutions and services

13.1 Services

a) Agriculture extension officer

13.2 Are you aware of these facilities and departments?

Yes

13.3 Distance from village

Select

13.4 Are you presently availing any services?

Select

b) Horticulture extension officer

- This section captures the extent of awareness and availability of government institutions and services to the respondent household.
- This includes information regarding agriculture extension officers, horticulture extension agents, animal husbandry department extension agents, forest guards, and fisheries extension officers.

Section 14 Access of household to Government programmes and schemes

← Green-Ag Household Survey

Section 14- Access of household to programmes and schemes (agriculture and allied sectors)

14.1 Is anyone from this house is a beneficiary of the following programmes and schemes?

14.2 If yes, then please provide the following details - Name of programme/ schemes
a) NMSA

14.2.3 Gender of beneficiary

14.2.4 a) Please rate the benefits that have been gained by household/ individual - Knowledge improvement

14.2.4 b) Please rate the benefits that have been gained by household/ individual - Livelihood improvement

- This section explores the access of households to programmes and schemes.

Section 15 Training

← Green-Ag Household Survey

Section 15- Training

15.1 Have you or any of your household members received any training for?

15.2 From where you received the training

15.3 To which extent have these trainings improved your household/agriculture/allied activities?

SAVE AS DRAFT

- This section captures information on trainings received by the respondent.

Section 16 Survey status

← Green-Ag Household Survey

Section 16- Survey status

16.1 Supervisor Name

16.2 Supervisor Code

SAVE AS DRAFT

- Surveyor has to fill in the details of the supervisor.

Final Submission

- Once all the data has been filled, the surveyor needs to submit the data to be uploaded on the server
- Once the survey is submitted successfully, **no change can be made**.

← Green-Ag Household Survey

- Section 1- Survey details ✓
- Section 2- Location of the house ✓
- Section 3- Respondent Information ✓
- Section 4- Socio-economic & demographic details of the household ✓
- Section 5- Agriculture/Farm Information ✓
- Section 6- Livestock ✓
- Section 7- Poultry farming ✓
- Section 8- Fish farming ✓
- Section 9- Bee keeping ✓
- Section 10- Sericulture ✓
- Section 11- Forest resources ✓
- Section 12- Fodder ✓
- Section 13- Access of household to Government institutions and ser... ✓
- Section 14- Access of household to programmes and schemes (agri... ✓
- Section 15- Training ✓
- Section 16- Survey status ✓

SUBMIT

← Green-Ag Household Survey

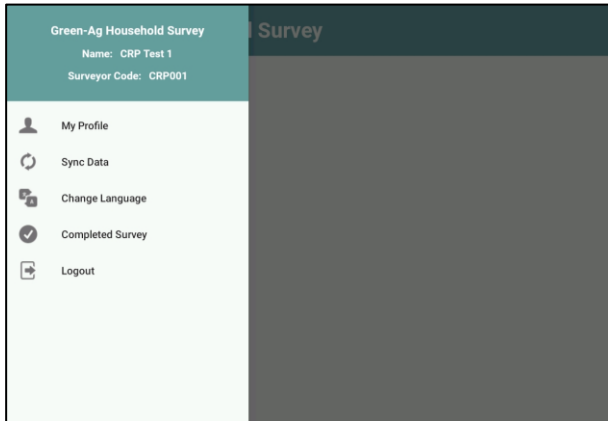
- Section 4- Socio-economic & demographic details of the household ✓
- Section 5- Agriculture/Farm Information ✓
- Section 6- Livestock ✓
- Section 7- Poultry farming ✓
- Section 8- Fish farming ✓
- Section 9- Bee keeping ✓
- Section 10- Sericulture ✓
- Section 11- Forest resources ✓
- Section 12- Fodder ✓
- Section 13- Access of household to Government institutions and ser... ✓
- Section 14- Access of household to programmes and schemes (agri... ✓
- Section 15- Training ✓
- Section 16- Survey status ✓

Survey submitted successfully!

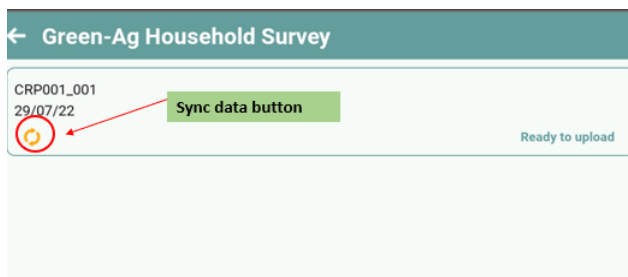
CANCEL OK

SUBMIT

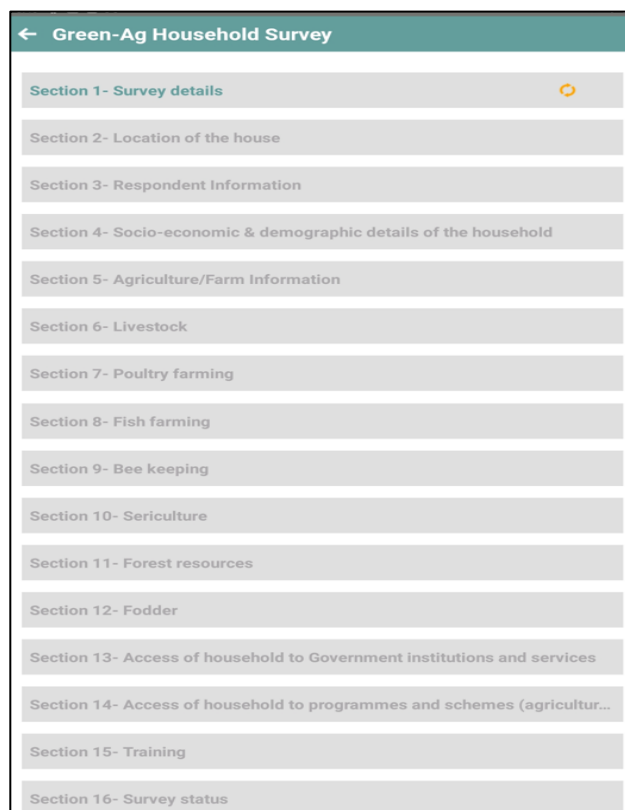
Data Synchronization



- After data submission, Press Menu button on the top left corner of the mobile app.
- Menu has following sub menu.
 - i. My profile
 - ii. Sync Data
 - iii. Change Language
 - iv. Completed Survey
 - v. Logout



- **Completed Survey**
 - Press Sync data button.
 - Select the survey ready to be uploaded
 - Wait for each section to be synchronized



Note

- ***Please ensure a stable internet connection is available while data is being synchronized***
- ***If the internet connection is weak, the data synchronization may take a long time.***

A pair of hands is shown from the bottom, cupping a mound of dark, rich soil. A small, vibrant green seedling with several leaves grows out of the center of the soil. The background is a soft, out-of-focus green, suggesting a natural outdoor setting. The overall mood is one of care, growth, and environmental stewardship.

Green-Ag Household Survey