

**Household Survey for  
Profitable Opportunities for Food Security (PROOFS)  
Project**



**Methodology, Field Survey Status and Preliminary Findings**

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## Survey Methodology

This study adopted a mixed method approach where quantitative data and qualitative information was collected. Randomly selected beneficiary households were interviewed using structured questionnaire designed for target indicators.

Sampling plan was devised for household survey using structured questionnaire covering 7 intervention districts where the intervention was distributed across 5 Sub-sectors (Mung bean, Vegetables, Potato, Fish, and Maize). Group Discussions were conducted with FBG members and female members within beneficiary HHs (this group included adults as well as adolescents). The FGDs were arranged with support from PROOFS field staff and moderated by HDRC field staff. In each district, 2 FGDs took place. The detailed sample distribution is available in Table 2.

Structured data collection tool was prepared for household survey in consultation with PROOFS expert team. Separate FGD guidelines were prepared for FBG members and female members within beneficiary HHs.

Data Collection Method	Question type	Survey type	Respondent group
Quantitative	Structured Questionnaire	Household survey	Random Treatment Households
Qualitative	Discussion guideline	Focus Group Discussions	1. FBG members 2. female members within beneficiary HHs

## Sampling Plan

The design for Random Treatment Household survey was stratified and selected in three stages. Each district by PROOFS intervention sub-sectors was considered as separate strata. Samples were selected independently from each stratum in two stages. The Smallholder farmers are within project coverage is being organized into competitive Farm Business Groups (FBGs). Hence the FBG was the Primary Sampling Unit (PSU) in treatment area.

In the first stage of selection, FBGs were selected with probability proportional to size (PPS) and with independent selection in each sampling stratum. In the second stage, PGs were selected from FBGs through same procedure. List of beneficiary households were available in each selected PGs. In the third stage, a fixed number of households -15, per PG were selected with an equal probability systematic selection. The qualitative discussants and interviewees were selected with support from PROOFS officials on the field.

Table 1: Distribution of PGs and FBGs across project location for sample survey

District/Region	Sub-sectors											
	Vegetable		Fish		Mung bean		Potato		Maize		Total	
	PG	FBG	PG	FBG	PG	FBG	PG	FBG	PG	FBG	PG	FBG
Barisal	4	4	2	2	2	2					8	8
Bhola	2	2	3	3	3	2					8	7
Patuakhali	4	3	2	1	2	2					8	6
Rangpur	2	2					3	3	2	2	7	7
Gaibandha	3	2					3	3	1	1	7	6
Kurigram	4	3					3	3			7	6

District/Region	Sub-sectors											
	Vegetable		Fish		Mung bean		Potato		Maize		Total	
	PG	FBG	PG	FBG	PG	FBG	PG	FBG	PG	FBG	PG	FBG
Nilphamari	2	2					3	2	2	2	7	6
North region	11	9					12	11	5	5	28	25
South region	10	9	7	6	7	6					24	21
<b>Total</b>	<b>21</b>	<b>18</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>6</b>	<b>12</b>	<b>11</b>	<b>5</b>	<b>5</b>	<b>52</b>	<b>46</b>

Note: One FBG in South Region was replaced in consolation with PROOFS officials. In Rangabali upazila of Patuakhali district, Choto Baishdiya FBG was replaced by Rangabali FBG.

Table 2: Summary of Field Data Collection

Sl.	District/Region	Random Treatment HH	FGD
1	Rangpur	106	2
2	Gaibandha	105	2
3	Nilphamari	105	2
4	Kurigram	105	2
5	Barisal	120	2
6	Patuakhali	120	2
7	Bhola	121	2
8	North region	421	8
9	South region	361	6
10	<b>Total</b>	<b>782</b>	<b>14</b>

### Data Collection Method

Data for this survey was collected using android based tablets. Data collection application used ODK platform. As soon as HDRC completed Bangla translation on the first draft of structured questionnaire for HH survey, the IT expert in communication with the professional team of HDRC initiated preparing android application of questionnaire for Tablet based data collection. The electronic version was updated and modified according to updates in questionnaire. The application went through necessary modifications and updates as alongside the updates in questionnaire.

### Survey Implementation

#### Field team Structure

The field team was under close supervision of HDRC (Human Development Research Centre) core team members and programme officer. The field personnel were divided into 7 teams, each team containing 3 field enumerators and team leader. Among the 7, 4 teams worked in North region and 3 worked in south region. Contact information of each team was circulated among HDRC and PROOFS officials for any necessary verification. Each team was also provided with a field plan to collect data in a systematic manner. These plans were shared with PROOFS officials too.

#### Project Orientation

HDRC arranged 2 day (29-30 July 2018) long orientation at HDRC Dhaka office. PROOFS officials were present to provide greater insights into project activities, targets, and feedbacks to questionnaires. The HDRC team with technical advice from PROOFS officials continued classroom sessions for one day. Then tablet based orientation continued for another day. The orientation ensured uniform understanding among survey staff about the project approach, its results, and data verification process.

### **The Fieldwork**

The field teams travelled for field location on 31 July 2018. The field data collection continued from 1-8 August 2018. PROOFS team from Dhaka undertook field visits to North region on 2-3 August 2018 and to South region on 5-6 August 2018.

## **Quality Control Measures**

### ***Field data Collection***

Data quality control mechanism for the household's survey was an important issue as most of the data for this survey was quantitative. A data quality protocol was prepared (including facilitation techniques for HH survey and FGDs) to ensure data quality and consistency during survey. HDRC has undertaken the following strategies/activities during field survey for data quality assurance in line with the data quality assurance protocol:

- A core team member was in the field at each region\*.
- At the beginning of data collection, HDRC team conducted meetings with PROOFS regional officials.
- HDRC team shared their experiences, observations, finding with PROOFS officials every day during field works.
- Field team supervisors shared corresponding field updates every day.
- Team supervisors have addressed to HDRC for any difficulties about tools, fields etc. and HDRC has taken steps immediately.
- Core team members have maintained communication and supervision to field enumerators throughout the survey.
- HDRC staff maintained field survey protocol at every step of data collection.
- Field team conducted daily review session among themselves.

Note: Due to a nationwide student protest, road communication was limited to North region. This caused delay in reaching HDRC official in the field in North region.

### ***Communication Modality on the Data Quality Control***

The overall field activities was monitored by the PROOFS team who kept close contact with the Field Team Leaders on the quality issues.

### ***Data Quality Control***

HDRC took the following steps for quality control during data management, computerization and cleaning:

- Data from devices was uploaded on a daily basis
- Data cleaning included generating single variable tables for consistency check
- Data was cleaned by consistency checks and cross tabulations and cross checking values with original questionnaire
- Inconsistencies were solved through asking the field enumerator and his/her supervisor

### **Tabulation and analysis plan**

Tabulation and analysis plan for survey data and information was finalized in consultation with relevant PROOFS officials through a consultation meeting. Preliminary findings were presented based on the Tabulation and analysis plan.

### **Survey Limitations**

- The agricultural outcomes and food security status has a positive bias (due to seasonal variation within a year). Hence, in many instances such comparison was not reported.

### **Index prepared for the Survey**

<b>Equitable food distribution</b>
<p>Calculation is done using data on Food consumption among HH members in the last 24 hours. The distribution is considered equal if all HH members consume at least one food from each of the following three food groups in a day:</p> <ol style="list-style-type: none"> <li>1. Heat &amp; energy producing food (like; rice, bread, potato, molasses, sugar, oil, butter, ghee, fat, honey, nuts etc.)</li> <li>2. Food responsible for recovery &amp; growth (like; fish, meat, soybean, other pulses, milk, egg, beans seed, small fish &amp; big fish, liver etc.)</li> <li>3. Food that prevents disease by improving immunity of the body (Deep &amp; green color all types of vegetables and fruits)</li> </ol>

<b>Household Dietary Diversity Score</b>
<p>Households calculate the HDDS applying the frequency of consumption of 12 different food items during 24 hours prior to survey. A score is obtained by summing number of consumption frequency during 24 hours prior to survey. Each food group is assigned equal weight. Household food consumption score is calculated/summarized as average of scores obtained by households within a certain cluster (in this case district or region).</p> <p>List of food items included for Household Dietary Diversity Score</p> <ol style="list-style-type: none"> <li>1. Cereals (rice, noodles, bread)</li> <li>2. Roots/Tubers (cassava, potatoes, sweet potatoes, plantains)</li> <li>3. Legumes/Pulses (beans, peas, groundnuts, cashews)</li> <li>4. Dairy products (milk, yogurt, cheese)</li> <li>5. Meat (beef, offal, Poultry, mutton)</li> <li>6. Fish/seafood</li> <li>7. Oils, fats, butter, Ghee</li> <li>8. Sugar/honey</li> <li>9. Fruits</li> <li>10. Eggs</li> <li>11. Vegetables</li> </ol>

12. Others (spices, sodas.etc)

**Box -3: The Household Food Insecurity Access Scale (HFIAS)**

HFIAS score is calculated for each household by summing the codes answered for each of 9 questions. Before summing the frequency-of-occurrence codes, the data analyst should code frequency-of-occurrence as 0 for all cases where the answer to the corresponding occurrence question was “never”. The maximum obtainable score for a household is 27 (the household response to all nine frequency-of-occurrence questions was “often”, coded with response code of 3); the minimum score is 0 (the household responded “never” to all occurrence questions, coded 0). The lower the HFIAS score, the better it is in terms of food security.

Table B: Instrument to compute food security (HFIAS)

<b>Food security (HFIAS) questions</b>	
Q1. In the past four weeks, did you worry that household would not have enough food? If response is ‘yes’ go to Q1a; if ‘no’ go to Q2.	Q1a. If yes, how often did this happen?
Q2. In the past four weeks, were you or any household member not able to eat the kinds of foods you preferred because of a lack of resources? If response is ‘yes’ go to Q2a; if ‘no’ go to Q3.	Q2a. If yes, how often did this happen?
Q3. In the past four weeks, did you or any household member have to eat a limited variety of foods due to a lack of resources? If response is ‘yes’ go to Q3a; if ‘no’ go to Q4.	Q3a. If yes, how often did this, happen?
Q4. In the past four weeks, did you or any household member have to eat some foods that you really did not want to eat because of a lack of other types of food? If response is ‘yes’ go to Q4a; if ‘no’ go to Q5.	Q4a. If yes, how often did this happen?
Q5. In the past four weeks, did you or any household member have to eat smaller meal than you felt need because there was not enough food? If response is ‘yes’ go to Q5a; if ‘no’ go to Q6.	Q5a. If yes, how often did this happen?
Q6. In the past four weeks, did you or any household member have to eat 2/1 times fewer meals in a day because there was not enough food? If response is ‘yes’ go to Q6a; if ‘no’ go to Q7.	Q6a. If yes, how often did this happen?
Q7. In the past four weeks, did you or any household member ever not get any kind of food because of lack of affordability? If response is ‘yes’ go to Q7a; if ‘no’ go to Q8.	Q7a. If yes, how often did this happen?
Q8. In the past four weeks, had you or any household member to sleep in starvation because there was not enough food? If response is ‘yes’ go to Q8a; if ‘no’ go to Q9.	Q8a. If yes, how often did this happen?
Q9. In the past four weeks, did you or any household member go to a whole day and night without eating anything because there was not enough food?	Q9a. If yes, how often did this happen?

The HFIAS categorizes the households in four ultimate categories which are: Category 1 (Food secure); Category 2 (Mildly food insecure); Category 3 (Moderately food insecure); and Category 4 (Severely food insecure).

## Preliminary Tables

### Reported Source of Collecting Agricultural Inputs by beneficiaries

	North Region					South Region				Total
	Gaibandha	Kurigram	Nilphamari	Rangpur	North All	Barisal	Bhola	Patuakhali	South All	
From FBG-EC (Federation/Samity/Committee)	1	4	0	1	1	16	24	8	16	8
From company representative	2	60	1	3	16	5	15	6	9	13
Direct from FBA	9	13	9	38	17	41	21	0	21	19
Local market/Company representative with the help of FBA Assistant	40	10	52	19	30	49	7	43	33	31
From local market	30	90	56	64	60	67	61	87	71	65

### Reported Channels of selling Agricultural Products (outputs) by beneficiaries

	North Region					South Region				Total
	Gaibandha	Kurigram	Nilphamari	Rangpur	North All	Barisal	Bhola	Patuakhali	South All	
From FBG-EC (Federation/Samity/Committee)	0	0	0	0	0	3	8	15	9	4
CP (Collection place of PROOFS/from MMC with the help of FBA Assistant	1	3	4	2	2	14	12	13	13	7
Collection from the ground	5	16	0	4	6	18	17	0	11	9
Direct from FBA	8	8	11	20	12	18	7	0	8	10
Company representative with the help of FBA Assistant	10	1	36	8	14	17	1	21	13	13
From the formal market	32	12	2	2	12	10	17	50	26	18
From local market	25	82	59	62	57	69	48	67	61	59

### Reported source of services relevant to input purchase/collection by beneficiaries

	North Region					South Region				Total
	Gaibandha	Kurigram	Nilphamari	Rangpur	North All	Barisal	Bhola	Patuakhali	South All	
From FBG-EC (Federation/Samity/Committee)	2	6	0	2	2	32	27	8	22	12
From company representative	0	48	1	6	14	8	17	7	11	12
Direct from FBA	20	11	12	44	22	49	26	0	25	23
Local market/Company representative with the help of FBA Assistant	48	29	52	18	37	48	7	35	30	33
From local market	12	75	49	62	50	63	55	88	69	58

**Reported source of services relevant to selling Agricultural Products (outputs) by beneficiaries**

	North Region					South Region				Total
	Gaibandha	Kurigram	Nilphamari	Rangpur	North All	Barisal	Bhola	Patuakhali	South All	
From collection points	0	12	1	3	4	9	11	0	7	5
From local market	1	3	0	0	1	17	9	13	13	7
From FBG-EC (Federation/Samity/Committee)	1	7	6	5	5	15	7	12	11	8
From company representative	16	3	0	3	5	10	17	43	23	14
Direct from FBA	17	1	15	30	16	43	20	0	21	18
Local market/Company representative with the help of FBA Assistant	41	14	33	14	26	43	1	23	22	24
Local market	9	78	58	56	50	58	48	68	58	54

**Contribution of PROOFS in market linkage**

Contribution of PROOFS	North Region					South Region				Total
	Gaibandha	Kurigram	Nilphamari	Rangpur	North All	Barisal	Bhola	Patuakhali	South All	
Source of Collecting Agricultural Inputs	50	28	61	58	49	96	52	50	69	58
Channels of selling Agricultural Products (outputs)	19	11	51	29	28	51	27	49	42	35
Source of services relevant to input purchase/collection	70	46	65	64	61	98	60	43	77	68
source of services relevant to selling Agricultural Products (outputs)	59	34	55	52	50	99	38	35	61	55

**Reported Key Benefit received by the beneficiaries due to introducing market linkages**

	North Region					South Region				Total
	Gaibandha	Kurigram	Nilphamari	Rangpur	North All	Barisal	Bhola	Patuakhali	South All	
Having bargaining opportunity	11.4	3.8	3.8	3.8	5.7	10.0	10.7	13.3	11.4	8.3
Can reach easily	9.5	2.9	1.9	6.6	5.2	19.2	18.2	19.2	18.8	11.5
Lower labour cost	10.5	3.8	16.2	6.6	9.3	25.0	14.0	6.7	15.2	12.0
Actual weight	9.5	7.6	2.9	11.3	7.8	4.2	28.9	22.5	18.6	12.8
Takes short time	19.0	1.9	11.4	12.3	11.2	26.7	26.4	20.8	24.7	17.4
Lower transport cost	22.9	2.9	22.9	17.0	16.4	20.0	23.1	20.0	21.1	18.5
Actual price	23.8	6.7	16.2	9.4	14.0	25.0	43.0	22.5	30.2	21.5

### Progress out of Poverty Index Score

	1 <sup>st</sup> HH survey	2 <sup>nd</sup> HH survey	3 <sup>rd</sup> HH survey	4 <sup>th</sup> HH survey	End line survey	HH Survey August 2018
	Treatment					
Below US\$ 1.25	19	16	8.9	3.6	6	2
US\$ 1.25-2.5	54	26	17.8	17.7	15	22
Above US\$ 2.50	27	58	73.3	78.7	79	76

### Status of HDDS score

	1 <sup>st</sup> HH survey	2 <sup>nd</sup> HH survey	3 <sup>rd</sup> HH survey	4 <sup>th</sup> HH survey	End line survey	HH Survey August 2018
	Treatment					
HDDS Score of HHs	4.21	6.71	7.2	7.8	8.5	9.0
% of HHs having HDDS score over baseline	-	-	90.8	97.0	99.7	100.0

### Region wise HDDS Score

Region	3 <sup>rd</sup> HH survey	4 <sup>th</sup> HH survey	End line survey	HH Survey August 2018
North	7.18	7.6	8.16	8.86
South	7.23	8	8.85	9.21
Total	7.2	7.75	8.51	9.0

### Equitable distribution of food

	1 <sup>st</sup> HH survey	2 <sup>nd</sup> HH survey	3 <sup>rd</sup> HH survey	4 <sup>th</sup> HH survey	End line survey	HH Survey August 2018
	Treatment					
Equitable distribution of food (% of HH)	88	90	76	87	96.8	99.4

### HHs with 12 month food security (%)

	3 <sup>rd</sup> HH survey	4 <sup>th</sup> HH survey	End line survey	HH Survey August 2018
North	72.7	81.3	79.5	77
South	85.7	78.9	74.4	83
Total	77.8	79.2	77.5	79

### Food Security Status (HFIAS Score) (%)

Region	Food Secure HH	Mildly Food Insecure HH	Moderately Food Insecure HH	Severely Food Insecure HH
North	85	7	5	3
South	82	9	6	3
Total	84	8	5	3

**average cultivable land size (in decimal)**

	3 <sup>rd</sup> HH survey	4 <sup>th</sup> HH survey	End line survey	HH Survey August 2018
North	134	128	99	98
South	157	155	170	138
Total	146	142	134	117.0

**Status of latrine ownership (%)**

Region	Owns latrine	Does not own latrine
North	89	11
South	100	0
Total	94	6

**Status of latrine used by HHs (%)**

Region	Hygienic	Unhygienic
North	53	47
South	74	26
Total	63	37

**Average Yield of Major Crops/Subsector Crops (Kg/decimal)**

	1 <sup>st</sup> HH survey	2 <sup>nd</sup> HH survey	3 <sup>rd</sup> HH survey	4 <sup>th</sup> HH survey	End line survey	HH Survey August 2018
Vegetable	34.6	35.1	43.9	47.2	56.3	60.4
Fish	23.3	26.8	28.8	29.1	30.5	31.5
Maize	38.0	27.3	35.0	34.0	35.3	34.7
Potato	35.2	51.2	63.2	67.5	84.6	73.5
Mung Bean	4.2	6.0	7.7	7.7	6.8	6.4

**% HHs increased yield by atleast 20% from base value**

	1 <sup>st</sup> HH survey	2 <sup>nd</sup> HH survey	3 <sup>rd</sup> HH survey	4 <sup>th</sup> HH survey	End line survey	HH Survey August 2018
% HHs increased yield by atleast 20% from base value	-	46.8	56.6	65.9	81.7	79.1

## **Annex: Questionnaires**

# Household survey questionnaire

Name of the Field Investigator:-----

Survey date:-----

**Demographic Information:**

Name of the respondent:-----Husband/Father's name-----  
-----

Village-----Union/FBG-----Upazila-----District-----  
-----

Age:-----Sex:-----Religion:-----  
-----

Total HH member:-----Female 18+-----Male 18+-----CU3-5-----CU2-----  
-----

Main occupation:-----Headed by:Male/Female

Total land (decimal):-----Own-----Sharecropping-----Lease-----Mortgage---  
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Do your household have any latrine? Yes/No

If yes, what type of latrine: Hygienic/Unhygienic

**1. Household Dietary Diversity Score (HDDS)**

Question	Coding
<b>For HH members</b>	
<p>1. 1. Did you or anyone else in your household ate yesterday during the day and at night (24 hours recall) (Q-HDDS)</p> <p>Put number- Yes-1/No-2</p>	<p>1. Cereals (rice, noodles, bread)..... <input type="checkbox"/></p> <p>2. Roots/Tubers (cassava, potatoes, sweet potatoes, plantains)..... <input type="checkbox"/></p> <p>3. Legumes/Pulses (beans, peas, groundnuts, cashews)..... <input type="checkbox"/></p> <p>4. Dairy products (milk, yogurt, cheese)..... <input type="checkbox"/></p> <p>5. Meat (beef, offal, Poultry, mutton)..... <input type="checkbox"/></p> <p>6. Fish/seafood..... <input type="checkbox"/></p> <p>7. Oils, fats, butter, Ghee ..... <input type="checkbox"/></p> <p>8. Sugar/honey..... <input type="checkbox"/></p>

	9. Fruits..... <input type="checkbox"/> 10. Eggs..... <input type="checkbox"/> 11. Vegetables..... <input type="checkbox"/> 12. Others (spices, sodas.etc)..... <input type="checkbox"/>
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1.2. Do you think, all consumed foods were distributed fairly into the HH members? Please tick mark

Food item	Only HH head	Only male HH members	Female HH Members and Children	Only Children	Only Female	All members
1. Cereals (rice, noodles, bread)						
2. Roots/Tubers (cassava, potatoes, sweet potatoes, plantains)						
3. Legumes/Pulses (beans, peas, groundnuts, cashews)						
4. Dairy products (milk, yogurt, cheese)						
5. Meat (beef, offal, Poultry, mutton)						
6. Fish/seafood)						
7. Oils, fats, butter, Ghee						
8. Sugar/honey						
9. Fruits						
10. Eggs						
11. Vegetables						
12. Others (spices, sodas.etc)						

**2. Month of Adequate Household Food Provision (MAHFP)**

2.1. In the past 12 months, were there months in which you did not have enough food to meet your family's needs?	Yes <span style="float: right;">1</span> No <span style="float: right;">2</span>
2.2. If yes, which were the months (in the past 12 months) in which you did not have enough food to meet your family's needs? Please put tick into the box [Multiple response] Question –(MAHFP) Reff:	Boishakh (Apr-May) Joishtho (May-June) ..... <input type="checkbox"/> Ashaar (June-July) )..... <input type="checkbox"/> Srabon (July-Aug) )..... <input type="checkbox"/> Bhadro (Aug-Sep) )..... <input type="checkbox"/> Ashhin (Sep-Oct) )..... <input type="checkbox"/> Kartik (Oct-Nov) )..... <input type="checkbox"/>

	Agrhayan (Nov-Dec) ..... <input type="checkbox"/> Poush (Dec-Jan) ..... <input type="checkbox"/> Magh (Jan-Fe) ..... <input type="checkbox"/> Falgun (Feb-Mar)..... <input type="checkbox"/> Chotro (Mar-Apr))..... <input type="checkbox"/>
<b>3. Household Food Insecurity Access Scale (HFIAS)</b>	
3.1. In the past four weeks did you worry that your household would not have enough food?	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3 Never 4
3.2. In the past 4 weeks were you or any household member not able to eat the kinds of foods you preferred because of a lack of resources?(Ask after Eid day for Muslim family )	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3 Never 4
3.3. In the past 4 weeks did you or any household member have to eat a limited variety of foods due to a lack of resources?	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3 Never 4
3.4. In the past 4 weeks did you or any household member have to eat some foods that you really did not want to eat because of lack or resources to obtain other kinds of food?	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3 Never 4
3.5. In the past 4 weeks did you our any household member have to eat a smaller meal than you felt you needed because there was not enough food?	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3 Never 4
3.6. In the past 4 weeks did you our any household member have to eat fewer meals in a day because there was not enough food?	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3 Never 4
3.7. In the past 4 weeks, was there ever no food of any kind to eat because of lack of resources to get food?	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3

	Never 4
3.8. In the past 4 weeks did you or any household member go to sleep hungry because there was not enough food?	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3 Never 4
3.9..In the past 4 weeks did you or any household member go a whole day and night without eating anything because there was not enough food?	Rarely (once or twice in past 4 weeks) 1 Sometimes (3-10 times in past 4 weeks) 2 Often (> 10 times in past 4 weeks) 3 Never 4
3.10. Has the household consumed less preferred foods In the last seven days?	1. Never 2. Rarely (once) 3. From time to time (2 or 3 times) 4. Often (5 or more times)
3.11. Have you reduced the quantity of food served to men in this household In the last seven days?	1. Never 2. Rarely (once) 3. From time to time (2 or 3 times) 4. Often (5 or more times)
3.12. Have you reduced your own consumption of food In the last seven days?	1. Never 2. Rarely (once) 3. From time to time (2 or 3 times) 4. Often (5 or more times)
3.13. Have you reduced the quantity of food served to children in this household in the last seven days In the last seven days?	1. Never 2. Rarely (once) 3. From time to time (2 or 3 times) 4. Often (5 or more times)
3.14. Have members of this household skipped meals in the last seven days In the last seven days?	1. Never 2. Rarely (once) 3. From time to time (2 or 3 times) 4. Often (5 or more times)
3.15. Have members of this household skipped meals for a whole day In the last seven days?	1. Never 2. Rarely (once) 3. From time to time (2 or 3 times) 4. Often (5 or more times)

#### 4. Progress out of Poverty Index (PPI) Questions

4.1 Number of HH members equal or below 12 years.	No one in this age	0	
	1 person	1	
	2 persons	2	
	3 persons or more	3	
4.2 Do all HH members within 6-12 years attend school?	No one in this age	0	
	Yes	1	
	No	2	
4.3 Did any HH member ever work for which s/he was paid on a daily basis in last year?	Yes	1	
	No	2	
4.4 How many rooms does your house have (excluding those used for business?)	1 Room	1	
	2 Rooms	2	
	3 Rooms or more	3	
4.5 Main construction material of walls of main room	Hemp, Hay, Bamboo	1	
	Mud brick, CI sheet, Wood	2	
	Brick, cement	3	
4.6 Is there any TV in the house?	Yes	1	
	No	2	
4.7 How many ceiling fans are there in the house? No fans	No fans	0	
	1 fan	1	
	2 fans or more	2	
4.8 How many mobile phones are there in the house?	No phone	0	
	1 phone	1	
	2 phones or more	2	
4.9 Is there any bicycle, motorcycle or motor car in the house?	Yes	1	
	No	2	
4.10 Does the HH own, or rent, or sharecrop or mortgage in or out 51 or more decimal of agricultural land (excluding uncultivable land and dwelling house or homestead land)?	Yes	1	
	No	2	

## 5. Production and sales

### Production and Sales for last one year

Category of product	Product Name	Land/Pond Used (Decimal)	Total cost of production (BDT)	Total Production* (kg)	Amount of Vegetables in shares	Waste/ loss (in kg.)	Family Consumption (kg)	Volume sold (Kg)	Average sales price/ kg. (BDT)
a) Veg1									
b) Veg 2									
c) Veg 3									
d) Veg 4									
e) Veg 5									
f) Veg 6									
g) Veg 7									
h) Veg 8									
i) Fish									
j) maize									
k) potato									
l) mung bean									
Vegetables: cabbage = 1, cauliflower = 2, turnip = 3, Radish = 4, Been = 5, cowpea = 6, sakalu = 7, pumpkin = 8, gourd = 9, cucumber = 10, Kherai = 11, momordica charantia / bitter gourd = 12, momordica cochinchinensis = 13, cataract = 14, snake gourd = 15, eggplant = 16, tomatoes = 17, ladies finger = 18 bits = 19, lettuce=20, carrots = 21, edible root= 22, olakacu = 23, drumstick = 24 , kachakala = 25, lemon = 26, papaya (vegetables) = 27, amaranth = 28, spinach = 29, Indian spinach = 30, datasaka = 31, kalamisaka = 32, potato = 33, sweet potato = 34, other (please specify)... ..									
*Ensure DEs are collecting whole production information (shared crop with owner and labours not only the production farmers getting									

## 6. Input and output sources for HHs

The following questions were used in previous surveys for measuring input and output channels:

6.1 From where do you buy the inputs?  (Multiple answer)	FBA	1
	FBG-EC	2
	Local market (Retailer and Dealer)	3

	Company representative	4
	Other (please specify) .....	
6.2 Through whom/ where do you sell the outputs?  (Multiple responses)	FBA	1
	Collection point	2
	FBG-EC	3
	Informal market (IMC)	4
	Local market	5
	Other (please specify) .....	
6.3 From where do you get services related to inputs?  (Multiple responses)	FBA	1
	FBG-EC	2
	Local market (Retailer and Dealer)	3
	Company representative	4
	Other (please specify) .....	
6.4 Through whom/where do you get services regarding outputs?  (Multiple responses)	FBA	1
	Collection point	2
	FBG-EC	3
	Informal market (IMC)	4
	Local market	5
	Other (please specify) .....	
6.5 If HHs using CP/IMC then ask: Through whom/where do you get services regarding outputs? (Multiple responses)	Reducing transportation cost	1
	Reducing labor cost	2
	Savings of time	3
	Fair price	4
	Easy access to distance buyers	5
	More bargaining power	6
	Fair weight	7
	Information regarding post- harvest handling, etc.	8
	Other (please specify) .....	

**Geolocation:**

**Focus Group Discussion (FGD) with:  
Females in Beneficiary HHs (Mother/Caregiver)**

Identification

FBG.....

Village .....

Upazila .....

District .....

Sl. No.	Name	Age	Age at first marriage	Number of children	Education	Occupation	Signature
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							

**Discussion Issues**

1. If you want to purchase nutrition products for your household (for example: iron folic acid, micronutrient supplements/powder, infant formula) how do you do that?  
{Facilitator Guide: allow the respondent to answer open-ended without prompting about PROOFS first.}
2. Did you purchase any nutrition products from an NSA *{insert local nutrition sales agent name here}*? Why or why not?  
  
If yes, will you continue to do so in the future?
3. If you want to purchase hygiene products for your household (for example: sanitary napkins) how do you do that?  
{Facilitator Guide: allow the respondent to answer open-ended without prompting about PROOFS first.}
4. Did you purchase any hygiene products from an NSA *{insert local nutrition sales agent name here}*? Why or why not?

5. Have you received any nutrition related trainings?  
If yes, what type of trainings and who delivered it?
  
6. If question five is yes, what did you learn from the nutrition trainings?
  
7. Have you received any hygiene related trainings?  
If yes, what type of training and who delivered it?
  
8. Did you receive any home visits for nutrition or hygiene support? If yes, what type of support did you receive from them?
  
9. Have there been any changes or improvement in your household's nutrition? What types and why?  
{Facilitator guide: first allow them to respond without PROOFS specific prompting. Then follow-up if there are specific aspects of PROOFS that may have contributed}
  
10. Have there been any changes or improvement in your household's sanitation? What types and why?  
{Facilitator guide: first allow them to respond without PROOFS specific prompting. Then follow-up if there are specific aspects of PROOFS that may have contributed}

Date	
Name and signature of the Moderator	Name and signature of the Note Taker

## Focus Group Discussion (FGD) with: Producer Group Members

### Identification

FBG.....

Village .....

Upazila .....

District .....

Sl. No.	Name	Age	Education	Occupation	Signature
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					

### Discussion Issues

1. How do you source your inputs for agricultural production?  
(Facilitator guide: first allow the respondents to offer up their sources of inputs, without prompting about PROOFS FBA option.)
  
2. Are you aware of *[insert local FBA name]* working within your area to provide inputs?  
  
If yes, do you work with him or her? How did they help regarding the acquisition or collection of inputs for agricultural activities?
  
3. How do you sell your agricultural products?  
(Facilitator guide: first allow the respondents to offer up their sources buyers, without prompting about PROOFS FBA option.)
  
4. Are you aware of *[insert local FBA name]* working within your area to provide buyer options?  
  
If yes, do you work with him or her? How did they help regarding the marketing/selling of your agricultural products?
  
5. Do you consider yourself an active member of your Producer Group?

If yes, what types of benefits or support does your Producer Group provide for you?

If no, why not? {Facilitator guide: probe if it is because they are not interested in the PG, or if it is because their PG is inactive}

6. Has your Producer Group gathered you to provide any information or training on agriculture technologies or latrine products for you to purchase?

If yes, have you purchased any of them? Which ones and why?

7. Has there been increase in your agricultural yields? How and why so?  
{Facilitator Guide: don't immediately ask about PROOFS. Ask first if they've observed an increase in yield and allow them to respond to why without prompting them that it is due to PROOFS. See if they mention it anyways. Then probe if it is due to their involvement with FBAs, new technologies used, etc. from PROOFS}

8. Has there been increase in your HH income? How and why so?  
{Facilitator Guide: don't immediately ask about PROOFS. Ask first if they've observed an increase income and allow them to respond to why without prompting them that it is due to PROOFS. See if they mention it anyways. Then probe if it is due to their involvement with FBAs, new technologies used, etc. from PROOFS}

9. What has been the most significant impact for you and your household as being a part of the PROOFS project. Please be specific to which aspects of PROOFS project you are referring: being a PG member, working with the input FBA, working with the output FBA, purchasing a latrine, etc.

you contact them? Please mention some names .....

Date	
Name and signature of the Moderator	Name and signature of the Note Taker