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**Accelerating Agriculture Productivity Improvement (AAPI)
Walmart Foundation Activity
Semi-Annual Report
(July 26-December 31, 2014)**

Submitted to

USAID-Bangladesh

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and

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by



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Acronyms and Abbreviations

AAPI	Accelerating Agriculture Productivity Improvement
COP	Chief of Party
DAE	Department of Agricultural Extension
DC	Deputy Commissioner
FDP	Fertilizer Deep Placement (includes UDP)
FMO	Field Monitoring Officer
FS	Field Supervisor
FTF	Feed the Future
GoB	Government of Bangladesh
ha	hectare
ICM	Integrated Crop Management
IFDC	International Fertilizer Development Center
IPM	Integrated Pest Management
kg	kilogram
mt	metric ton
NGO	Non-Governmental Organization
QPR	Quarterly Progress Report
SAAO	Sub-Assistant Agriculture Officer
SWOT	Strengths, Weakness, Opportunities and Threats
TOT	Training of Trainers
UAO	Upazila Agriculture Officer
UDP	Urea Deep Placement
USAID	United States Agency for International Development
WFA	Walmart Foundation Activity

Accelerating Agriculture Productivity Improvement (AAPI)

Walmart Foundation Activity

Semi-Annual Report

(July 26-December 31, 2014)

Overview

This is the second semi-annual progress report of the AAPI Walmart Foundation Activity (WFA). It covers the work completed during the period from July 26 to Dec. 31, 2014. This also reports on the progress achieved during the sixth quarter (October-December 2014) of project implementation. This overview presents a summary of results, the deliverables and key activities. Further details and a discussion of issues and the near term outlook are provided in the main text. The targets herein were set in the Second Annual Plan (covering the period August 2014 – July 2015). They are governed, in turn, by the Performance and Outcome Indicators that are specified in the Agreement between the International Fertilizer Development Center (IFDC) and the Walmart Foundation.

Deliverables

All of the AAPI-WFA project deliverables were submitted as required during the first half of Year 2 of AAPI-WFA. A summary of the required deliverables and date submitted is shown in Table 1.

Table 1. Project Deliverables and Submission Data

Deliverable	Year 1	Year 2 (July-December 2014)				Year 2 (July-Dec)	Total Project
		July-September	October	November	December		
Workplan	1	1				2	2
Monthly Progress Reports	11	3	1	1	1	6	17
Quarterly Performance Report	3	1	1			2	5
Annual Report							1
Expense Report							1

Results

The first half of Year 2 of AAPI-WFA saw the start of the winter vegetable 2014-15 transplanted and the start of the 2014 summer vegetable harvesting. During the first half of

Year 2 of AAPI-WFA, 11 result indicators out of 13 were active for both summer 2014 and winter 2014-15 vegetables. However, progress against indicators 7-11 and 13 were reported in the April-June quarterly report. As indicated in Table 2, the AAPI-WFA project has achieved all three targets related to individual women who have received Walmart-supported training and/or directly benefited from the Walmart Foundation-supported intervention. The other indicators reported below pertain to the results of summer 2014 vegetables, since harvesting of all crops in farmers' fields has been completed. It may be noted that AAPI-WFA was able to conduct crop cuts for only five crops from farmers' fields, although there was a large number of other crops brought under urea deep placement (UDP) technology by AAPI-WFA direct beneficiaries, due to resource constraints. Therefore, the results presented below pertain only to the five crops for which crop cuts were taken. Of the remaining nine briquetting machines which could not be sold in first year, eight were sold during the first half of the second year to eight rural women entrepreneurs. Another machine is expected to be sold in January 2015.

Table 2. Results Achieved Against Targets in the First Half of Year 2

Sl. #	Result Indicators	Unit	Actual Achievement		Total Achievement (July 26-December 2014)		
			July 26-September 30, 2014	October-December 2014	Target	Actual	% of Target
1	New vegetable area under improved technologies or management practices as a result of Walmart assistance	Ha		3,489 ^a	3,088 ^a	3,489 ^a	113%
2	Number of new women farmers and others who have applied new technologies	No.					
3	Number of new individuals who have received Walmart supported short-term agricultural sector productivity or food security training	No.	11,680 ^a	4,320 ^a	16,000	16,000 ^a	100%
4	Number of rural households benefiting directly from Walmart intervention	No.	11,682 ^a	4,326 ^a	16,000	16,008 ^a	100%
5	Increased yield of vegetables	mt/ha	1.96 to 4.40 ^b		1 to 10	1.96 to 4.40 ^b	
6	Incremental vegetable production	mt	1,113 ^b		4,560 ^b	1,113 ^b	
7	Increased value of vegetable and other crops	U.S. \$ million	0.21 ^b			0.21 ^b	
8	Urea savings	mt	22 ^b			22 ^b	
9	Value of urea saved	U.S. \$ million	0.01 ^b			0.01 ^b	
10	Government of Bangladesh (GoB) saving on urea subsidy	U.S. \$ million	0.01 ^b			0.01 ^b	
11	Average incremental value per ha	U.S. \$	624 ^b			624 ^b	
12	Farmers trained	No.	11,680 ^a	4,320 ^a	16,000 ^a	16,000 ^a	100%
13	Fertilizer briquette machines sold	No.	2	6		8	

Source: 1. The data on results for the July-December, 2014 period are for the summer vegetable crop of 2014 and winter vegetable 2014-15.

2. Data on trainings and households benefiting directly is based on AAPI-WFA records through December 2014.

3. Number = No.; metric ton = mt; ha = hectare.

Note: a = Winter 2014-15; b = Summer vegetable 2014. The area under winter 2014-15 are reported from weekly reports being collected by AAPI-WFA field monitoring officers (FMOs) and will be adjusted after completion of village monitoring survey and follow up trained farmers survey in next quarter.

Highlights of Project Activities

Table 3 provides the highlights of project technical activities. During the first half of Year 2 of AAPI-WFA, 10 activities were targeted, as per the approved workplan. Of these, five achieved the target. The remaining five are progressing well and will be completed by the next quarter. One stakeholders' workshop could not be held due to time constraints of some stakeholders but will be achieved by next quarter.

Table 3. Highlights of Project Technical Activities in the First Half of Year 1

Type of Activity	Unit	Actual Achievement		Total Achievement (July 26-December 2014)		
		July 26-September 30, 2014	October-December 2014	Target	Actual	% of Target
Farmers training	Batch	292	108	400	400	100%
Farmers' orientation for demo establishment	Batch	3		3	3	100%
Establish field demonstrations	No.	9	41	50	50	100%
Motivational field trips	No.		6	7	6	86%
Motivational meetings with trained farmers			6	6	6	100%
Field days	No.	9	16	15	25	167%
Crop cuts from						
• Demo plots	No.	7	3	15	10	67%
• Farmers' field	No.	28		35	28	80%
Selling urea briquette machines at 80% subsidized rate	No.	2	6		8	
Training of briquette producer (technical training)	Batch			1		
Stakeholders' workshop	No.		3	4	3	75%

Note: Figures in parentheses are number of villages.

Estimated Budget and Actual Expenditure

AAPI-WFA is incurring costs as planned. Although this part of the AAPI activity was signed July 26, 2013, virtually all project activities in the field began the last week of August 2013 after the appointment of staff. Therefore, the project's actual expenses started from September 2013, and the expenses reported here are for 16 months through December 2014. In Year 2, the budget for the project was estimated at U.S. \$618,090. Of this, the actual expenses incurred totaled U.S. \$145,627 through December 2014, or 23 percent of the Year 2 budget.

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Walmart Foundation Activity
Semi-Annual Report
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USAID-Bangladesh
Cooperative Agreement Number AID-388-A-10-00002

Introduction

The Walmart Foundation signed a contract with the International Fertilizer Development Center (IFDC) July 26, 2013, for implementation of the Accelerating Agriculture Productivity Improvement (AAPI) Walmart Foundation Activity (WFA) for a period of two years. The goal of the AAPI-WFA is to enhance rural women's empowerment by increasing their capacity to produce and market horticultural crops and to increase their families' food security status by way of the following:

1. Increasing income from the sales of the vegetables and fruits that will be produced.
2. Improving nutrition by increasing the home consumption of these products.

Achieving this goal will result from carrying out a set of integrated strategic activities to enhance the technical knowledge of women in the production and marketing of horticultural crops, which are not only high-value products but are also highly nutritious. Rapid diffusion of fertilizer deep placement (FDP)¹ technology, with concurrent attention to demand- and supply-side issues, and improvement of women's access to and participation in markets will be essential components of the AAPI Walmart activity.

Although this part of the AAPI activity was signed July 26, 2013, virtually all project activities in the field began from the last week of August 2013. This is the semi-annual Progress Report of the AAPI Walmart Activity for Year 2. It incorporates progress achieved

¹ FDP involves point placement of a large fertilizer pellet (up to 3.4 grams by weight) near the root zone of the plant. This reduces fertilizer nitrogen losses and increases crop uptake efficiency of the fertilizer; it is an environmentally friendly technology. Urea deep placement (UDP) technology is well-suited to small, resource-poor farmers, including women.

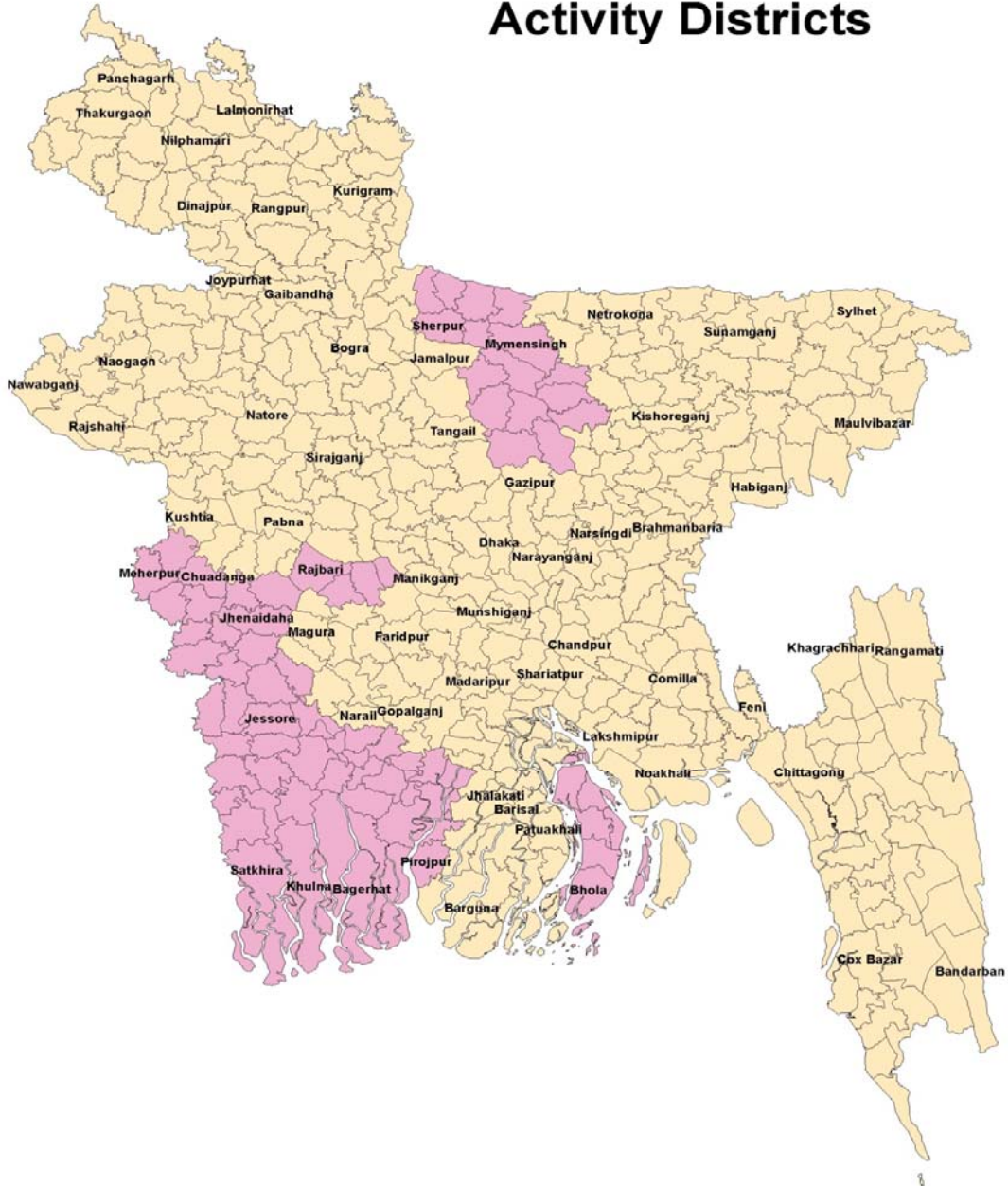
during the second quarter (i.e., October-December 2014) of Year 2 of AAPI-WFA coinciding with the quarterly report of the AAPI project. This document reports the status of results achieved and deliverables; it highlights key project activities. It may be noted that from Year 4, AAPI has set separate targets on the use of FDP technology in other crops. These are reported separately in the AAPI quarterly report. There is no duplication of information as the area of both activities has been demarcated.

The geographic spread of the AAPI-WFA logically divides into three regions: Barisal and Jessore regions (FTF zones), with 24 upazilas in 10 districts; and Mymensingh region (non-FTF zone), with nine upazilas in two districts. Table 4 provides a summary of the number of AAPI-WFA clusters and villages by region, and Map 1 shows the locations. The AAPI-WFA has been directly engaged in winter and summer vegetable activities in all the 329 villages.

Table 4. Number of AAPI Walmart Activity Districts, Upazilas, Clusters and Villages by Regions

Regions	District	Upazila	Cluster	Villages
Barisal	3	5	13	71
Jessore	7	19	34	168
FTF Zone	10	24	47	239
Mymensingh (Non-FTF Zone)	2	9	22	90
Total	12	33	69	329

AAPI-Walmart Foundation Activity Districts



Map 1. AAPI-WFA Cluster Villages

Deliverables

In compliance with the reporting requirements, eight deliverables were required during the fifth quarter. As indicated in Table 5, all were submitted as planned. In addition, although not a contracted deliverable, the AAPI-WFA prepared 12 weekly reports on project performance during this period in order to facilitate project oversight. In this period, AAPI-WFA also prepared the detailed plan for the winter 2014-15 season for vegetable production.

Table 5. List of Deliverables from July 26, 2013 Through December 31, 2014

Deliverable	Year 1	Year 2 (July-December 2014)				Year 2 (July-Dec)	Total Project
		July-September	October	November	December		
Workplan	1	1				2	2
Monthly Progress Reports	11	3	1	1	1	6	17
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Results

The first half of Year 2 of AAPI-WFA saw the start of the winter vegetable 2014-15 transplantation and the start of the summer vegetable 2014 harvesting. During the first half of Year 2 of AAPI-WFA, 11 result indicators out of 13 were active for both summer 2014 and winter 2014-15 vegetables. However, progress against the indicators numbered 7-11 and 13 in the table below were reported in the April-June quarterly report. As indicated in Table 2, AAPI-WFA has achieved all the three targets related to individual women who have received Walmart-supported training and/or have directly benefited from the Walmart Foundation-supported intervention. The other indicators reported pertain to the results from the summer 2014 vegetable season, since harvesting of all crops in farmers' fields has been completed. It may be noted that AAPI-WFA was able to conduct crop cuts for only five crops from farmers' fields, although there was a large number of other crops brought under urea deep placement (UDP) technology by AAPI-WFA direct beneficiaries, due to resource constraints. Therefore, the results presented in the table below pertain only to the five crops for which crop cuts could be conducted. Of the remaining nine briquetting machines which could not be sold in the first year, eight were sold during the first half of the second year to eight rural

women entrepreneurs. Another machine is expected to be sold in January 2015. To align with reporting requirements, the results indicators are presented in Table 6.

The cumulative achievement indicators summarized above indicate that, of the 14 result indicators, targets have been met or exceeded for 10 indicators. The remaining four indicators are making good progress, and we expect to meet the targets for these indicators in the coming quarter.

Vegetable Area Under Improved Technologies or Management Practices *Winter Vegetable 2013-14 and Summer Vegetable 2014*

The FDP coverage data of winter 2013-14 and summer 2014 vegetables was updated after completing the follow-up survey of all the 20,040 trained farmers. These data are collected by AAPI-WFA field monitoring officers (FMOs) using a set format, who then send the completed format to the AAPI Data Management Unit designed by the senior data management specialist under the guidance of the chief of party (COP). The results were reported in the July-September quarterly report.

Table 7 shows that 2,269 hectares (ha) came under UDP technology through September 2014, considering direct beneficiaries only. This is 57 percent of the annual target.

Appendix 1 (A to C) presents *Guti* urea coverage of vegetable area by upazila and by crop based on data collected through follow-up of direct beneficiaries (i.e., trained farmers). The October-December 2014 data for winter 2014-15 are provided from weekly reports, and this will be finally adjusted in the next report after completing the village monitoring survey and the follow-up of trained farmers.

Table 6. Results Achieved Against Targets Through December 2014

Result Indicators	Unit	Year 1			October-December 2014			Year 2 (July-December 2014)			Progress through December 2014		
		Target	Actual	% of Target	Target	Actual	% of Target	Target	Actual	% of Target	Target	Actual	% of Target
Vegetable area under improved technologies or management practices as a result of Walmart assistance	ha	4,000	2,269 ^{ab}	57%	3,088 ^c	3,489 ^c	113%	3,088 ^c	3,489 ^c	113%	7,088	5,357 ^{abc}	76%
Number of women farmers who have applied new technologies	No.	20,000	19,778 ^{ab}	99%							20,000 ^{ab}	19,778 ^{ab}	99%
Number of individuals who have received Walmart supported short-term agricultural sector productivity or food security training	No.	20,159	20,177 ^{ab}	100%	4,000 ^c	4,320 ^c	108%	16,000 ^c	16,000 ^c	100%	36,159	36,177 ^{abc}	100%
Number of rural households benefiting directly from Walmart intervention	No.	20,025	20,056 ^{ab}	100%	4,000 ^c	4,326 ^c	108%	16,000 ^c	16,008 ^c	100%	36,025	36,064 ^{abc}	100%
Increased yield of vegetables	mt/ha	1 to 10	3.24 to 16.64 ^a	166% to 324%				1 to 10	1.96 to 4.40 ^b	96%	1 to 10	1.96% to 16.64 ^{ab}	96% to 324%
Incremental vegetable production	mt	20,000	14,857 ^a	74%				4,560 ^b	1,113 ^b	24%	20,560 ^{ab}	15,970 ^{ab}	65%
Increased value of vegetable and other crops	million U.S. \$	3.14	2.22 ^a	70%					0.21 ^b		3.14 ^{ab}	2.43 ^{ab}	77%
Urea savings	mt	358	270 ^a	75%					22 ^b		358 ^{ab}	292 ^{ab}	82%
Value of urea saved	million U.S. \$	0.14	0.12 ^a	86%					0.01 ^b		0.14 ^{ab}	0.13 ^{ab}	93%
Government of Bangladesh (GoB) saving on urea subsidy	million U.S. \$	0.06	0.07 ^a	117%					0.01 ^b		0.06 ^{ab}	0.08 ^{ab}	133%
Average incremental value per ha	U.S. \$	580	1,312 ^a	226%				580	624 ^b	108%	580	716 ^{ab}	123%
Average incremental income per farm	U.S. \$	115	102 ^a	88%				115	55 ^b	100%	115	123 ^{ab}	107%
Farmers trained	No.	20,000	20,040 ^{ab}	100%	4,000 ^c	4,320 ^c	108%	16,000 ^c	16,000 ^c	100%	36,000 ^{ab}	36,040 ^{ab}	100%
Fertilizer briquette machines sold	No.	25	16	64%		6		3,088 ^c	3,489 ^c	113%	25	24	96%

Source: 1. The data on results for the July-December, 2014 period are for the summer vegetable crop of 2014 and winter vegetable 2014-15.
 2. Data on trainings and households benefiting directly is based on AAPI-WFA records through December 2014.
 3. Number = No.; metric ton = mt; ha =hectare.

Note: a = Winter 2013-14; b = Summer vegetable 2014; c = Winter 2014-15. The area coverage and number of women farmers includes only **direct beneficiaries** after completion of follow up with trained farmers for winter 2013-14 and summer 2014. The area under winter 2014-15 are reported from weekly reports being collected by AAPI-WFA FMOs and will be adjusted after completion of village monitoring survey and follow up trained farmers survey in next quarter. The number of farmers using improve technology will be incorporated after completing the Village monitoring survey and the trained farmers follow up survey.

Table 7. Vegetable Area Covered by FDP Technology by AAPI-WFA Direct Beneficiaries in Winter 2013-14 and Summer Season 2014

District	FDP Coverage by Direct Beneficiaries (ha)		
	Winter	Summer	Total
Bagerhat		61	61
Bhola	566	57	623
Chuadanga	293	29	322
Jessore	190	38	228
Jhenaidah	39	34	73
Khulna		30	30
Meherpur	212		212
Mymensingh	145	36	181
Pirojpur		159	159
Rajbari		99	99
Satkhira		26	26
Sherpur	214	41	255
Total	1,659	610	2,269

Source: AAPI-Walmart Activity Trained Farmer's Follow up Summer Season 2014.

Number of Women Farmers Who Have Applied New Technologies Winter Vegetable 2013-14 and Summer Vegetable 2014

Similarly, Table 8 shows 19,778 farmers using FDP technology in winter 2013-14 (14,333) and summer 2014 (5,445), which is 99 percent of the total trained farmers. The number of direct beneficiaries using FDP technology is presented in Appendix 2 A, B and C for winter 2013-14 vegetable, summer 2014 vegetable and total, respectively.

Table 8. Direct Beneficiaries Using FDP Technology in Winter 2013-14 and Summer Vegetable Season 2014

District	Total Trained Farmers (Winter & Summer)	Total Direct Beneficiary Using FDP			% of Trained Farmers Using FDP
		Winter 2013-14	Summer 2014	Total	
Bagerhat	400	0	397	397	99%
Bhola	2,840	2,470	355	2,825	99%
Chuadanga	3,560	3,151	354	3,505	98%
Jessore	2,440	1,950	461	2,411	99%
Jhenaidah	960	556	388	944	98%
Meherpur	2,240	2,218	0	2,218	99%
Khulna	320	0	316	316	99%
Mymensingh	2,480	1,877	582	2,459	99%
Pirojpur	800	0	800	800	100%
Rajbari	760	0	755	755	99%
Satkhira	240	0	234	234	98%
Sherpur	2,960	2,111	803	2,914	98%
Grand Total:	20,000	14,333	5,445	19,778	99%

Source: AAPI-Walmart Activity Trained Farmer's Follow up—Winter 2013-14 and Summer Season 2014.

Number of Individuals Who Have Received Walmart-Supported Short-Term Agricultural Sector Productivity or Food Security Training

The number of individuals who have received short-term training is calculated from farmers' training, training of government staff and NGOs (training of trainers [TOT]), and training of briquette machine owners. A total of 36,040 women farmers were trained under the AAPI-WFA. In addition, 109 participants attended the AAPI TOT program in the first quarter, and 28 briquette machine owners attended two trainings; thus, the total number of individuals receiving AAPI-WFA short-term training stands at 36,177. The number of women trained by upazila is provided in Appendix 3.

Number of Rural Households Benefiting Directly From Walmart Interventions

A household is a beneficiary if it contains at least one individual who is a beneficiary. For AAPI-WFA, this is defined as an individual engaged with a project activity who has already either shown benefit from the activity or has a high likelihood of gaining benefits due to a significant level of engagement with the project. It is calculated from the number of farmers trained and the number of rural entrepreneurs who procured a fertilizer briquette machine at a reduced rate and directly benefited from an intervention of AAPI-WFA.

During this quarter, two women entrepreneurs received fertilizer briquette machines. Therefore, a total of 36,064 rural households benefited directly from AAPI-WFA interventions through July 2014.

Increased Yield of Vegetables

Summer Vegetable 2014

The incremental yields arising from UDP technology are derived from crop cuts in farmer fields. Each cut consists of two samples – one from a UDP field and another (as close as possible) from a broadcast urea field which used the same variety of seeds and has a similar soil type and equal number of plants. Vegetable crop cuts are recorded for each harvest/picking according to a prescribed format prepared under AAPI-WFA. For the 2014 summer vegetables, 30 crop cuts were targeted and 28 crop cuts were completed. Two fields earmarked for crop cuts could not be done because they were damaged by insect attack

because of poor management practices. Table 9 presents the yield difference of five vegetable crops.

Table 9. Yield Calculated From Farmers' Field Crop Cuts-Summer Vegetable 2014

Crop	Total Number of Samples	Guti Urea Yield (mt/ha)	Broadcast Urea Yield (mt/ha)	Incremental Yield (mt/ha)	Incremental Yield (%)
Cucumber	6	24.76	20.46	4.30	21
Bitter Gourd	7	11.77	9.81	1.96	20
Teasel Gourd	5	24.72	20.32	4.40	22
Ash Gourd	5	34.42	29.04	5.38	19
Taro (Lathi)	2	16.05	13.78	2.28	17
Taro (Mukhi)	3	15.33	12.83	2.50	19

**Source: AAPI Walmart Summer Vegetables 2014 Crop Cut from Farmers' Fields.*

The target of a selected number of vegetables was set at 1-10 mt/ha in the Annual Work Plan. However, the incremental yield ranged from 1.96 mt/ha to 5.38 mt/ha depending on five vegetable crops (cucumber, bitter gourd, teasel gourd, ash gourd and taro). In terms of percentage, the incremental yield ranged 17-22 percent for the same crops. The farmers have used *Guti* urea in many vegetables, which cannot be targeted for crop cuts due to resource constraints. The results can be compared with the data for demonstrations reported in Table 18, where yield increments averaged 4.80 mt/ha for cucumber, 4.04 mt/ha for bitter gourd and 5.04 mt for teasel gourd. As could be expected, yields were generally higher in the demonstrations. However, bitter gourd was much higher in demo plots.

The crop cut of winter vegetables for 2014-15 season has just started and will be reported in the next quarter.

Incremental Vegetable Production

Incremental vegetable production is calculated from the area of UDP coverage and the weighted average yield increments as measured by vegetable crop cuts in farmers' fields. Although more vegetable area has been brought under UDP coverage, the incremental production has been shown only for the four crops (cucumber, taro, bitter gourd and teasel gourd) where direct beneficiaries have used UDP technology. The detailed calculation of incremental production by crop is shown in Table 10. The incremental production would be much more than shown in Table 10.

Table 10. Incremental Vegetable Production – Summer Vegetable 2014

Crop	Yield Difference (mt/ha)	Guti Area Under Crop (ha)	Incremental Vegetable Production (mt)
Cucumber	4.30	134	577
Taro (lathi)	2.28	90	205
Bitter Gourd	1.96	79	155
Teasel Gourd	4.40	40	176
Total		343	1,113

Source: AAPI Walmart Summer Vegetable 2014 Crop Cut from Farmers' Fields.

Increased Value of Vegetables

The increased value of vegetables produced by AAPI-WFA women farmers is calculated from the incremental vegetable production and the sales value of vegetables. From each pick/harvest of each crop, AAPI-WFA FMOs recorded the amount sold to the market and also the value received by the farmers. After the final crop cut was completed, data was compiled in the AAPI Data Management Unit, and the unit price was calculated by dividing total sales value of the crop by the total quantity sold. The details of the increased value by crop are presented in Table 11. This value would have been much higher if this could have been calculated for all crops.

Table 11. Increased Value of Vegetables – Summer Vegetable 2014

Crop	Total Incremental Vegetable Production (mt)	Unit Price (Tk/mt)	Value of Incremental Vegetable Production (million U.S. \$)
Cucumber	577	15,893	0.12
Taro (lathi)	205	13,000	0.03
Bitter Gourd	155	11,871	0.02
Teasel Gourd	176	16,000	0.04
Total	1,113		0.21

Note: U.S. \$1 = Tk 77.

Urea Savings

Urea savings are also calculated from the crop cut data collected from farmers' fields. The results are summarized by crop in Table 12. The Annual Plan assumed urea savings of 10 percent per unit of land for each vegetable crop. But the farmers' field crop cut data indicates that it ranged 19-23 percent for the five types of vegetable crops. Actual urea savings were 36-136 kg/ha. Total urea saved was 22 mt.

Table 12. Urea Savings in Summer 2014 Farmer Field Crop Cut

Crop	UDP (kg/ha)	Broadcast Urea (kg/ha)	Urea Saving		Total Area with UDP (ha)	Urea Saved (mt)
			(kg/ha)	%		
Cucumber	159.39	197.60	38.21	19	134	5
Bitter Gourd	174.45	218.51	44.06	20	79	4
Teasel Gourd	168.78	205.01	36.23	18	40	1
Taro (Lathi)	444.60	580.45	135.85	23	90	12
Total					134	22

Source: AAPI Walmart Summer Vegetables 2014 Crop Cut from Farmers' Fields.

Value of Urea Saved

The value of urea saved is calculated from the urea saved, using the international market price. The Annual Plan set the target using the price of U.S. \$400/mt. The average Bangladesh Chemical Industries Corporation (BCIC) imported urea price, October 2013 to April 2014, was U.S. \$459/mt. This is used to calculate values of urea saved against the four crops shown in Table 11. The higher urea price and higher quantity of urea saved from only four crops have achieved the targets of values of urea saved of U.S. \$10,000.

Government of Bangladesh Saving on Urea Subsidy

The Annual Plan assumed a GoB subsidy of U.S. \$177.78/mt. But the dealer price reduced to Tk 14/kg, or U.S. \$181.81/mt. Using the import parity price reported in the value of urea saved, the subsidy on a ton of urea is U.S. \$277.19. Using this data, the saving on the urea subsidy in four crops of summer 2014 vegetables amounts to U.S. \$10,000. Therefore, this remains above target.

Average Incremental Value per Hectare

The average incremental value per hectare is estimated by dividing the total incremental value of the four crops by the total UDP area of the same four crops. The values are also shown in Table 13 by crop. This is a reflection of higher incremental yield of all four vegetables discussed above.

Table 13. Average Incremental Value/Hectare – Summer Vegetable 2014

Crop	Guti Area Under Crop (ha)	Value of Incremental Vegetable Production (in million U.S. \$)	Average Incremental Value/ha (U.S. \$)
Cucumber	134	0.12	888
Taro (lathi)	90	0.03	384
Bitter Gourd	79	0.02	303
Teasel Gourd	40	0.04	914
Total	343	0.21	624

The AAPI-WFA has also calculated the gross margin using the sample crop cut survey data of the five crops.² The results are presented in Table 14, which shows that the weighted average gross margin is higher for all four crops with UDP technology compared with broadcast application of urea. Therefore, the benefit is that the cost ratio is also high for all UDP crops. Details are presented in Appendix 4.

Table 14. Weighted Average Gross Margin/Hectare – Summer Vegetable 2014

Crop	Gross Margin (U.S. \$/ha)			Benefit-Cost Ratio	
	UDP Plots	Broadcast Urea Plots	Difference	UDP Plots	Broadcast Urea Plots
Cucumber	4,586	3,703	883	9.73	8.12
Bitter Gourd	1,523	1,157	366	6.22	4.26
Teasel Gourd	4,588	3,701	888	9.37	8.09
Ash Gourd	3,872	3,225	648	9.75	8.75
Taro (Lathi)	2,442	2,090	352	10.40	8.63
Taro (Mukhi)	3,396	2,790	606	10.86	9.18

Note: U.S. \$ = BDT 77.

Average Incremental Income per Farm

The average incremental value per farm is estimated by dividing the total incremental value of the four crops by the total UDP direct beneficiaries of all crops. As a result, per farm income is U.S. \$55 per farm against the target of U.S. \$115. It is already mentioned that this estimate is based on only a few crops. The value will be much higher if all crops are taken in to consideration.

² USAID Feed the Future (FTF) indicator definition: The gross margin is the difference between the total value of production of the agricultural product (crop) and the cost of producing that item excluding family labor, divided by the total number of units in production (hectares of crops). Gross margin per hectare is a measure of net income for that farm's activity. Only purchased inputs that represent at least 5 percent of total costs have been considered for calculation of gross margin. Costs include, for example, rent paid but not imputed rent on own land. If a farmer owned the pump that irrigated his or her land, the fuel cost was considered.

Farmers Trained

Through December 2014, all the 901 training programs targeting 36,040 women have been completed. Details by upazila are provided in Appendix 3.

Fertilizer Briquette Machines Sold

Of the 25 briquetting machines targeted in the first year, 24 fertilizer briquette machines have been sold to 24 women entrepreneurs through December 2014. Another is expected to be sold by January 2014.

Activities

Table 15 provides the highlights of the project's technical activities. During the first half of Year 2 of AAPI-WFA, 10 activities were targeted, as per the approved workplan. Of these, five achieved the target. The other five are progressing well and will be completed by next quarter. One stakeholder workshop could not be held due to restriction on movements due to the political situation in the country.

Table 15 further indicates that through December 2014, all the 14 activities, except training of briquette producers, either achieved or exceeded the target.

Table 15. Activity Accomplished Against Targets Through December 2014

Result Indicators	Unit	Cumulative (July 26, 2013-July 25, 2014)			October-December 2014			Year 2 (July 26-December 2014)			Total Project		
		T	A	%	T	A	%	T	A	%	T	A	%
Identification of villages and collection of information on all villages	Set	1	1	100							1	1	100
Conduct baseline survey	No.	1	1	100							1	1	100
Training of trainers (TOT) of DAE field officials, FMOs and FSS	No.	3	3	100							3	3	100
Farmers training	Batch	500	501	100	100	108	108	400	400	100	900	901	100
Farmers' orientation for demo establishment	Batch	3	3	100				3	3	100	6	6	100
Field demonstration	No.	50	50	100	35	41	117	50	50	100	100	100	100
Motivational field trips	No.	10	10	100	7	6	86	7	6	86	17	16	94
Motivational meeting with trained farmers	No.	20	20	100	6	6	100	6	6	100	26	26	100
Field days	No.	50	41	82	15	16	107	15	25	167	65	66	102
Crop cuts from													
· Demo plots	No.	50	50	100	15	3	20	15	10	67	65	60	92
· Farmers' field	No.	50	50	100	35			35	28	80	85	78	92
Selling urea briquette machines at 80% subsidized rate	No.	25	16	64		6			8		25	24	96
Training of briquette producer (technical training)	Batch	2	2	100	3			3			5	2	40
National launching workshop	No.	1									1		
Stakeholders workshop	No.	6	6	100	3	3	100	4	3	75	10	9	90

Note: T = Target; A = Actual

Technology Transfer

Farmer Training on FDP Technology

The women farmer training programs are designed to improve farmer knowledge of vegetable crop management in general, with emphasis on increasing awareness and knowledge of FDP technology and use of good-quality seeds. A training module has been developed for farmer training. Training takes place over a period of two days, and each day involves training for three hours, either in the afternoon or in the morning to match the schedule of women farmers. In one batch, 40 women were trained by a Department of Agriculture Extension (DAE) sub-assistant agriculture officer (SAAO) as the resource person. In some instances, in the absence of a trained trainer, the AAPI-WFA FMO is the resource person. The FMO is responsible for the administration, according to guidelines set by the project. This arrangement helps build the farmer training into the mainstream of DAE field programs while maintaining accountability for the activity within the project. Through

December 2014, a total of 36,040 women farmers were trained under the AAPI-WFA. Details of farmers training are provided by upazila in Appendix 3.

Field Demonstrations

Technology results demonstrations are some of the important activities of the AAPI-WFA. The demonstration plots consist of two plots, each measuring 200 square meters – one using UDP and the other broadcasting conventional urea, keeping all other inputs such as seed and other fertilizers and the management practices constant. Through December 2014, a total of 100 vegetable demonstrations were established, among which 39 were in winter 2013-14, 11 were in summer 2014 and 50 were in winter 2014-15. Details of the demonstrations are provided by upazila in Appendix 5.

Summer 2014 Vegetable Demonstration: There were 11 field demonstrations planned for the winter season. The status of summer demonstrations is presented in Table 16. Out of 11 demonstrations, seven demonstrations were harvested last quarter and three demonstrations were harvested this quarter. Also, one demonstration was damaged due to flooding.

Table 16. Summer 2014 Vegetable Demonstrations (Number)

Demonstration	Target	Harvest Completed			Damaged
		July-Sept	Oct-Dec	Total	
Cucumber	4	3		3	1
Bitter Gourd	2	2		2	
Teasel Gourd	1	1		1	
Eggplant	2	1	1	2	
Taro	2		2	2	
Total	11	7	3	10	1

The harvest of these vegetables occurs in several pickings. Data is collected by AAPI-WFA FMOs as per set format during each pick. The farmers are advised to keep all records of harvest so that FMOs can get correct information. The results of demonstration plots that were completely harvested during October-December period are presented in Table 17.

Table 17. Results of Summer 2014 Vegetable Demonstrations

Crop	No. of Demos	Guti Urea Yield (kg/ha)	Broadcast Urea Yield (kg/ha)	Yield Difference (kg/ha)	Incremental Yield (%)
Eggplant	1	16,539	12,835	3,704	29
Taro (Lathi)	2	24,147	20,718	3,428	17

Source: AAPI Walmart Summer 2014 Vegetable Demonstration.

Winter Vegetable 2014-15 Demonstrations: There are 50 field demonstration for the winter 2014-15 season have been established. Out of these, 41 demonstrations were established this quarter. Among the established demonstrations, crop cuts of three demonstrations have been completed in this quarter, and the results of the demonstration will be presented in the next quarterly report. The demonstrations established by crop are presented in Table 18.

Table 18. Demonstrations Established for Winter 2014-15 Vegetables by Crop

Demonstration Crop	Target	Established (July 26-Dec 2014)			Harvest Completed
		July-Sept	Oct-Dec	Total	
Cauliflower	10	4	6	10	1
Cabbage	11	3	7	11	1
Eggplant	12	1	11	12	
Tomato	7	1	6	7	
Potato	10		10	10	1
Total	50	9	41	50	3

Motivational Field Visits

Motivational field visits allow farmers in a new area to visit and exchange views with those in areas that show the benefits of FDP technology. Normally, about 40 women farmers, along with the SAAO and upazila agriculture officer (UAO) of the DAE, are taken from an area that is new to FDP technology to an area where FDP technology is widely adopted. Therefore, the visits can occur only when there is something to show and learn. There were six motivational field visits in this quarter. Through December 2014, 16 motivational visits were completed against the target of 17. Details by regions are provided in Appendix 6.

Motivational Meeting with Trained Farmers

This activity is undertaken by the staff as a follow-up of the trained farmers to hold their interest in using FDP technology in their vegetable gardens and field crops. The project uses farmer meetings as an effective way to remind farmers of the benefits they received in the earlier season when they used urea briquettes. The purpose is to affirm farmer commitment to use UDP technology in the new season. As the project proceeds, the number of farmers who have already used UDP is growing to the point where they are the majority. Motivational meetings are becoming the key to sustaining the numbers of adopters. During the reporting quarter, six motivational meetings were conducted. Through December 2014, 26 meetings were completed. Details by regions are provided in Appendix 7.

Field Days

In this quarter, 16 field days were held around the winter and summer vegetable harvests of demonstrations. Field days are organized for farmers, including extension agents, mainly to observe the methods and results of UDP technology in the particular demonstration. They also share their experiences through question-and-answer sessions with demonstration and UDP block farmers, as well as with AAPI-WFA senior staff and DAE officials. Through December 2014, 66 field days were organized and completed in the project area. A total of 3,912 participants attended the field days, of which 3,088 were women farmers; 824 other participants included male farmers, DAE field officials, media personnel, briquetting machine owners, local leaders and other project staff Appendix 8 indicates the total number of field days organized by region.

Women's Access to Fertilizer Briquettes

Selling of Briquetting Machines

In this quarter, six machines were sold – one in Mymensingh region and five in Jessore region. Through December 2014, 24 machines were sold. Appendix 9 indicates the briquette machine owners list by region. Of these 24 entrepreneurs, 21 have already started producing fertilizer briquettes. Details by machine owners will be provided next quarter.

Up to this quarter, two training courses were organized for the machine owners and the machine operators of Mymensingh, Barisal and Jessore regions. The training was delivered by the AAPI engineer, AAPI technician and AAPI business management officer. It was a two-day course with a high practical content. The first day was technical training for owners

and operators, and discussion was on machine operations and maintenance, briquette production, quality control, and mixing and briquette applicator use in vegetable/rice in the case of briquette manufacturers. The second day was business management and accounting practices. Appendix 10 and Appendix 11 provide details of the training programs.

Sharing Information and Ideas

Stakeholders Workshop

Through December 2014, nine stakeholders' workshops took place in Jessore, Chuadanga, Rajbari, Khulna, Satkhira, Mymensingh, Sherpur, Meherpur and Jhenaidah districts to acquaint different stakeholders and women communities about the project goal, objectives and activities to be carried out and focusing discussion on women's empowerment through vegetable productivity improvement. The heads of the district administration, deputy commissioners (DCs), were the chief guests of the workshops, which were held in the DCs' conference room. The deputy director of the DAE of the corresponding district chaired the workshops. The workshops' participants were selected from different segments of society associated with agriculture crop production, such as women farmers, private enterprises dealing with agriculture inputs, fertilizer briquette producers, Bangladesh Chemical Industries Corporation (BCIC) fertilizer dealers, retailers, irrigation pump owners, market management committee members, school teachers, mosque imams, union council members (women) and representatives from non-governmental organizations (NGOs).

The objectives of organizing a stakeholder workshop by AAPI-WFA are to (1) inform local stakeholders about AAPI and AAPI-WFA, (2) motivate stakeholders and seek their commitment to support women for expansion of FDP technology in vegetable crops, and (3) create awareness among stakeholders for facilitating the empowerment of women in farmers' families. The project coordinator and AAPI COP briefly presented an overview of AAPI and AAPI-WFA. The workshop was designed for discussion by the participants on women's empowerment through vegetable productivity improvement using FDP technology. In this process, participants were divided into small groups for analysis of strengths, weaknesses, opportunities and threats (SWOT). Small groups identified SWOT for women's empowerment through vegetable production using FDP technology. These were then presented in the workshop for endorsement by all participants. Through December 2014, nine stakeholder workshops were completed. Details by regions are provided in Appendix 12.

Printing and Distribution of Promotional Material

The AAPI-WFA is sharing information about the project activity and FDP technology among the beneficiaries and other stakeholders through leaflets, brochures, signboards and flyers. These are being used in various activities such as stakeholder workshops, motivational tours, farmer training programs, field demonstrations, field days and public handouts. Materials were also distributed to representatives of integrated pest management (IPM)/integrated crop management (ICM) clubs and community leaders. A list of promotional materials prepared, printed and displayed through December 2014 is presented in Appendix 13.

Media Coverage

The project regularly invites members of the electronic and print media to different events for wider coverage. The events are reported and broadcast on several television channels, in local/national newspapers and online. Details on media coverage of the AAPI-WFA are provided in Appendix 14.

Estimated Budget and Actual Expenditure

AAPI-WFA is incurring costs as planned. Although this part of the AAPI activity was signed July 26, 2013, virtually all project activities in the field began the last week of August 2013 after appointment of all staff. Therefore, the project's actual expenses started from September 2013, and the expenses reported here are for 16 months through December 2014. In Year 2, the budget for the project was estimated at U.S. \$641,630. Of this, the actual expenses incurred totaled U.S. \$145,627 through December 2014, or 23 percent of the Year 2 budget. Details of the expenses are provided in Table 19.

Table 19. Financial Achievement Against Estimated Budget in U.S. \$

Line Item	Actual Expense in Year 1	Year 2 Budget	Year 2 Expense Through December 2014	Percent Achieved	Total Expense through December 2014
Personnel, fringe benefits and allowances	305,346	296,200	48,120	16%	353,466
Travel and transportation	112,865	79,300	26,324	33%	139,189
Procurement (equipment/supplies/contracts/grants)	36,726	13,900	4,277	31%	41,003
Training	162,302	106,400	40,373	38%	202,675
Other direct costs	48,132	87,500	13,294	15%	61,426
Total direct costs	665,372	583,300	132,388	23%	797,760
Overhead	66,538	58,330	13,239	23%	79,777
Total Walmart Activity Amount	731,910	641,630	145,627	23%	877,537

Appendix 1. Area Under FDP Coverage by Direct Beneficiaries by Upazilas

A. Winter 2013-14

District	Upazila	Number of Clusters	No. of Direct Beneficiaries	Crop Area Under UDP Coverage (ha)								Total
				Cabbage	Tomato	Cauliflower	Knolkhol	Eggplant	Potato	Watermelon	Other Crops	
Bhola	Bhola Sadar	2	480	7	13	4	0	14	19	2	29	88
	Burhanuddin	2	960	11	42	9	4	43	72	0	36	216
	Char Fasson	5	1,040	30	57	20	0	56	29	6	63	262
Subtotal:		9	2,480	48	112	33	4	113	121	8	128	566
Chuadanga	Alamdanga	2	319	2	0	3	0	10	2		8	25
	Sadar	2	2,187	23	3	47	0	31	18		87	210
	Damurhuda	3	480	1	1	1		12	5	0	21	41
	Jibannagar	1	200	1	0	1		3	2		9	17
Subtotal:		8	3,186	27	4	52	0	56	28	0	125	293
Jessore	Bagherpara	1	80	1	1	0	0	2	0	0	5	10
	Chaugachha	1	160	1	0	1		2	2		6	12
	Sadar	3	1,235	17	1	6	0	42	12		44	121
	Jhikargachha	2	480	3	1	4	0	4	15	0	19	47
Subtotal:		7	1,955	22	3	12	0	49	30	0	74	190
Jhenaidah	Kotchandpur	2	240		0			2	2		11	16
	Maheshpur	2	239	0	0			1	6		12	19
	Shailkupa	1	80					1	0		3	4
Subtotal:		5	559	0	0			4	8		27	39
Meherpur	Gangni	2	957	31	2	17	0	6	6	0	29	91
	Sadar	4	1,039	31	1	19	0	5	16	0	28	101
	Mujibnagar	1	240	2	0	2	0	3	2	0	10	20
Subtotal:		7	2,236	64	3	39	1	14	25	0	67	212
Mymensingh	Ishwarganj	2	520	5	10	5	0	11	7	0	14	53
	Sadar	3	800	1	8	10	0	12	5	0	12	49
	Phulbari	3	480	1	0	2	0	9	5		22	38
	Phulpur	1	80	0	0	0		1	0		3	6
Subtotal:		9	1,880	8	19	17	0	33	17	0	51	145
Sherpur	Nakla	2	960	1	3	1	0	8	45	0	21	78
	Nalitabari	3	920	6	17	6		20	20	0	51	121
	Sadar	1	240	0	2	6	0	3	2		3	16
Subtotal:		6	2,120	7	22	12	0	31	66	0	75	214
Total:		51	14,416	175	162	165	6	302	294	9	547	1,659

Source: AAPI- Walmart Activity Trained Farmer's Follow Up Winter Season 2013-2014.

Note: Other crop included bottle gourd, bitter gourd, banana, long yard bean, cucumber, pointed gourd, sweet gourd, maize, country beans, taro, etc. "0" indicates less than 1.

B. Summer 2014

District	Upazila	Number of Clusters	No. of Direct Beneficiaries	Crop Area Under UDP Coverage (Ha)								Total
				Cabbage	Tomato	Cauliflower	Knolkhol	Eggplant	Potato	Watermelon	Other Crops	
Bagerhat	Sadar	2	400	0.16	0.49	0.22	0.00	17.52	0.16	0.00	41.94	60.50
Sub-total		2	400	0.16	0.49	0.22	0.00	17.52	0.16	0.00	41.94	60.50
Bhola	Char Fasson	2	360	0.00	0.00	0.12	0.11	5.50	0.02	0.00	51.28	57.02
Sub-total		2	360	0.00	0.00	0.12	0.11	5.50	0.02	0.00	51.28	57.02
Chuadanga	Alamdanga	1	200	0.05	0.70	0.19	0.00	3.59	0.77	0.00	10.86	16.16
Chuadanga	Jibannagar	1	160	0.21	0.26	0.23	0.00	4.61	0.71	0.00	7.14	13.15
Sub-total		2	360	0.26	0.95	0.43	0.00	8.20	1.48	0.00	18.00	29.31
Jessore	Chaugachha	1	240	0.00	0.00	0.00	0.00	5.42	0.73	0.11	10.42	16.69
Jessore	Sadar	1	80	0.00	0.00	0.00	0.00	1.99	0.06	0.00	3.31	5.37
Jessore	Jhikargachha	2	160	0.00	0.38	0.00	0.00	2.80	1.60	0.12	10.59	15.49
Sub-total		4	480	0.00	0.38	0.00	0.00	10.21	2.40	0.23	24.32	37.55
Jhenaidah	Kaliganj	1	240	0.00	1.07	0.11	0.00	5.49	0.22	0.06	13.87	20.82
Jhenaidah	Maheshpur	1	80	0.20	0.49	0.00	0.00	1.64	0.17	0.00	3.24	5.73
Jhenaidah	Shaikupa	1	80	0.00	1.18	0.00	0.00	2.48	0.25	0.00	3.80	7.70
Sub-total		3	400	0.20	2.73	0.11	0.00	9.61	0.64	0.06	20.90	34.24
Khulna	Dumuria	1	320	0.05	1.36	0.40	0.00	9.78	0.07	0.00	18.43	30.10
Sub-total		1	320	0.05	1.36	0.40	0.00	9.78	0.07	0.00	18.43	30.10
Pirojpur	Nesarabad	2	800	0.06	0.11	0.17	0.10	22.70	0.31	0.00	135.45	158.90
Sub-total		2	800	0.06	0.11	0.17	0.10	22.70	0.31	0.00	135.45	158.90
Rajbari	Baliakandi	2	320	0.00	3.60	0.00	0.00	14.02	0.00	0.00	26.29	43.91
Rajbari	Sadar	2	440	0.00	3.21	0.00	0.00	23.95	0.00	0.00	27.94	55.10
Sub-total		4	760	0.00	6.81	0.00	0.00	37.97	0.00	0.00	54.23	99.01
Satkhira	Sadar	1	240	0.02	0.02	0.00	0.51	2.17	0.00	0.00	22.80	25.52
Sub-total		1	240	0.02	0.02	0.00	0.51	2.17	0.00	0.00	22.80	25.52
Mymensingh	Phulpur	1	80	0.00	0.00	0.11	0.00	1.12	0.11	0.00	2.94	4.29
Mymensingh	Trishal	4	520	0.09	0.03	0.00	0.00	2.27	0.03	0.00	29.31	31.72
Sub-total		5	600	0.09	0.03	0.11	0.00	3.39	0.14	0.00	32.24	36.00
Sherpur	Jhenaigati	3	440	0.00	0.00	0.00	0.02	5.59	0.13	0.00	16.84	22.57
Sherpur	Nakla	1	80	0.00	0.04	0.00	0.00	1.93	0.00	0.00	4.52	6.49
Sherpur	Nalitabari	1	160	0.00	0.00	0.00	0.00	1.83	0.00	0.00	3.69	5.52
Sherpur	Sadar	1	160	0.03	0.00	0.03	0.00	2.56	0.03	0.00	4.11	6.76
Sub-total		6	840	0.03	0.04	0.03	0.02	11.91	0.16	0.00	29.16	41.35
Grand Total		32	5,560	0.86	12.93	1.60	0.74	138.95	5.37	0.30	448.75	609.51

Source: AAPI-Walmart Activity Trained Farmer's Follow up-Summer Season 2013-2014.

Note: Other crop include papaya, pointed gourd, chili, Indian spinach, banana, long yard bean, wax gourd, ash gourd, bean, etc.

C. Total (Winter 2013-14 and Summer 2014)

District	Upazila	No. of Direct Beneficiaries	Crop Area Under FDP Coverage (ha)								Total
			Cabbage	Tomato	Cauliflower	Knolkhol	Eggplant	Potato	Watermelon	Other Crops	
Bagerhat	Bagerhat Sadar	400	0.16	0.49	0.22		17.52	0.16		41.94	60.50
Sub-total		400	0.16	0.49	0.22	0.00	17.52	0.16	0.00	41.94	60.50
Bhola	Bhola Sadar	480	7.00	13.00	4.00		14.00	19.00	2.00	29.00	88.00
	Burhanuddin	960	11.00	42.00	9.00	4.00	43.00	72.00		36.00	216.00
	Char Fasson	1,400	30.00	57.00	20.12	0.11	61.50	29.02	6.00	114.28	319.02
Sub-total		2,840	48.00	112.00	33.12	4.11	118.50	120.02	8.00	179.28	623.02
Chuadanga	Alamdanga	520	2.05	0.70	3.19		13.59	2.77		18.86	41.16
	Sadar	2,200	23.00	3.00	47.00		31.00	18.00		87.00	210.00
	Damurhuda	480	1.00	1.00	1.00		12.00	5.00		21.00	41.00
	Jibannagar	360	1.21	0.26	1.23		7.61	2.71		16.14	30.15
Sub-total		3,560	27.26	4.95	52.43	0.00	64.20	28.48	0.00	143.00	322.31
Jessore	Bagherpara	80	1.00	1.00			2.00			5.00	10.00
	Chaugachha	400	1.00		1.00		7.42	2.73	0.11	16.42	28.69
	Jessore Sadar	1,320	17.00	1.00	6.00		43.99	12.06		47.31	126.37
	Jhikargachha	640	3.00	1.38	4.00		6.80	16.60	0.12	29.59	62.49
Sub-total		2,440	22.00	3.38	11.00	0.00	60.21	31.40	0.23	98.32	227.55
Jhenaidah	Kaliganj	240		1.07	0.11		5.49	0.22	0.06	13.87	20.82
	Kotchandpur	240					2.00	2.00		11.00	16.00
	Maheshpur	320	0.20	0.49			2.64	6.17		15.24	24.73
	Shailkupa	160		1.18			3.48	0.25		6.80	11.70
Sub-total		960	0.20	2.73	0.11	0.00	13.61	8.64	0.06	46.90	73.24
Khulna	Dumuria	320	0.05	1.36	0.40		9.78	0.07		18.43	30.10
Sub-total		320	0.05	1.36	0.40	0.00	9.78	0.07	0.00	18.43	30.10
Meherpur	Gangni	960	31.00	2.00	17.00		6.00	6.00		29.00	91.00
	Sadar	1,040	31.00	1.00	19.00		5.00	16.00		28.00	101.00
	Mujibnagar	240	2.00		2.00		3.00	2.00		10.00	20.00
Subtotal:		2,240	64.00	3.00	38.00	0.00	14.00	24.00	0.00	67.00	212.00
Pirojpur	Nesarabad	800	0.06	0.11	0.17	0.10	22.70	0.31		135.45	158.90
Sub-total		800	0.06	0.11	0.17	0.10	22.70	0.31	0.00	135.45	158.90
Rajbari	Baliakandi	320		3.60			14.02			26.29	43.91
	Rajbari Sadar	440		3.21			23.95			27.94	55.10
Sub-total		760	0.00	6.81	0.00	0.00	37.97	0.00	0.00	54.23	99.01
Satkhira	Satkhira Sadar	240	0.02	0.02		0.51	2.17			22.80	25.52

District	Upazila	No. of Direct Beneficiaries	Crop Area Under FDP Coverage (ha)								Total
			Cabbage	Tomato	Cauliflower	Knolkhol	Eggplant	Potato	Watermelon	Other Crops	
Sub-total		240	0.02	0.02	0.00	0.51	2.17	0.00	0.00	22.80	25.52
Mymensingh	Ishwarganj	520	5.00	10.00	5.00		11.00	7.00		14.00	53.00
	Sadar	800	1.00	8.00	10.00		12.00	5.00		12.00	49.00
	Phulbari	480	1.00		2.00		9.00	5.00		22.00	38.00
	Phulpur	160			0.11		2.12	0.11		5.94	10.29
	Trishal	520	0.09	0.03			2.27	0.03		29.31	31.72
Sub-total		2,480	7.09	18.03	17.11	0.00	36.39	17.14	0.00	83.24	182.00
Sherpur	Jhenaigati	440				0.02	5.59	0.13		16.84	22.57
	Nakla	1,040	1.00	3.04	1.00		9.93	45.00		25.52	84.49
	Nalitabari	1,080	6.00	17.00	6.00		21.83	20.00		54.69	126.52
	Sherpur Sadar	400	0.03	2.00	6.03		5.56	2.03		7.11	22.76
Sub-total		2,960	7.03	22.04	13.03	0.02	42.91	67.16	0.00	104.16	256.35
Grand Total		20,000	175.86	174.93	165.60	4.74	439.95	297.37	8.30	994.75	2,270.51

Source: AAPI-Walmart Activity Trained Farmer's Follow up winter 2013-14 and Summer Season 2014.

Appendix 2. Number of Women Direct Beneficiaries Using FDP by Upazila

A. Winter Season 2013-14

District	Upazila	Total Trained Farmers	Total Direct Beneficiary Using FDP	% of Trained Farmers Using FDP
Bhola	Bhola Sadar	480	479	100
	Burhanuddin	960	951	99
	Char Fasson	1,040	1,040	100
Sub-total		2,480	2,470	100
Chuadanga	Alamdanga	320	320	100
	Chuadanga Sadar	2,200	2,172	99
	Damurhuda	480	474	99
	Jibannagar	200	185	93
Sub-total		3,200	3,151	98
Jessore	Bagherpara	80	80	100
	Chaugachha	160	160	100
	Jessore Sadar	1,240	1,236	100
	Jhikargachha	480	474	99
Sub-total		1,960	1,950	99
Jhenaidah	Kaliganj			
	Kotchandpur	240	240	100
	Maheshpur	240	238	99
	Shailkupa	80	78	98
Sub-total		560	556	99
Meherpur	Gangni	960	955	99
	Meherpur Sadar	1,040	1,024	98
	Mujibnagar	240	239	100
Sub-total		2,240	2,218	99
Mymensingh	Ishwarganj	520	520	100
	Mymensingh Sadar	800	799	100
	Phulbari	480	479	100
	Phulpur	80	79	99
	Trishal			
Sub-total		1,880	1,877	100
Sherpur	Jhenaigati			
	Nakla	960	954	99
	Nalitabari	920	917	100
	Sherpur Sadar	240	240	100
Sub-total		2,120	2,111	100
Grand-Total		14,440	14,333	99

Source: AAPI-Walmart Activity Trained Farmer's Follow up—Winter Season 2013-2014.

B. Summer Season 2014

District	Upazila	Total Trained Farmer	Total Direct Beneficiary Using FDP	% of Trained Farmer's Using FDP
Bagerhat	Bagerhat Sadar	400	397	99
Subtotal		400	397	99
Bhola	Bhola Sadar	480		
	Burhanuddin	960		
	Char Fasson	1,400	355	25
Subtotal		2,840	355	13
Chuadanga	Alamdanga	520	199	38
	Chuadanga Sadar	2,200		
	Damurhuda	480		
	Jibannagar	360	155	43
Subtotal		3,560	354	10
Jessore	Bagherpara	80		
	Chaugachha	400	229	57
	Jessore Sadar	1,320	77	6
	Jhikargachha	640	155	24
Subtotal		2,440	461	19
Jhenaidah	Kaliganj	240	237	99
	Kotchandpur	240		
	Maheshpur	320	71	22
	Shailkupa	160	80	50
Subtotal		960	388	40
Khulna	Dumuria	320	316	99
Subtotal		320	316	99
Mymensingh	Ishwarganj	520		
	Mymensingh Sadar	800		
	Phulbari	480		
	Phulpur	160	75	47
	Trishal	520	507	98
Subtotal		2,480	582	23
Pirojpur	Nesarabad	800	800	100
Subtotal		800	800	100
Rajbari	Baliakandi	320	318	99
	Rajbari Sadar	440	437	99
Subtotal		760	755	99
Satkhira	Satkhira Sadar	240	234	98
Subtotal		240	234	98
Sherpur	Jhenaigati	440	420	95
	Nakla	1,040	79	8
	Nalitabari	1,080	150	14
	Sherpur Sadar	400	154	39
Subtotal		2,960	803	27
Grand Total		20,000	5,445	27

Source: AAPI-Walmart Activity Trained Farmer's Follow up—Summer Season 2014.

C. Cumulative (Winter 2013-14 and Summer 2014)

District	Upazila	Total Trained Farmer	Total Direct Beneficiary Using FDP	% of Trained Farmer's Using FDP
Bagerhat	Bagerhat Sadar	400	397	99
Subtotal		400	397	99
Bhola	Bhola Sadar	480	479	100
	Burhanuddin	960	951	99
	Char Fasson	1,400	1,395	100
Subtotal		2,840	2,825	99
Chuadanga	Alamdanga	520	519	100
	Chuadanga Sadar	2,200	2,172	99
	Damurhuda	480	474	99
	Jibannagar	360	340	94
Subtotal		3,560	3,505	98
Jessore	Bagherpara	80	80	100
	Chaugachha	400	389	97
	Jessore Sadar	1,320	1,313	99
	Jhikargachha	640	629	98
Subtotal		2,440	2,411	99
Jhenaidah	Kaliganj	240	237	99
	Kotchandpur	240	240	100
	Maheshpur	320	309	97
	Shailkupa	160	158	99
Subtotal		960	944	98
Khulna	Dumuria	320	316	99
Subtotal		320	316	99
Meherpur	Gangni	960	955	99
	Meherpur Sadar	1,040	1,024	98
	Mujibnagar	240	239	100
Subtotal		2,240	2,218	99
Mymensingh	Ishwarganj	520	520	100
	Mymensingh Sadar	800	799	100
	Phulbari	480	479	100
	Phulpur	160	154	96
	Trishal	520	507	98
Subtotal		2,480	2,459	99
Pirojpur	Nesarabad	800	800	100
Subtotal		800	800	100
Rajbari	Baliakandi	320	318	99
	Rajbari Sadar	440	437	99
Subtotal		760	755	99
Satkhira	Satkhira Sadar	240	234	98
Subtotal		240	234	98
Sherpur	Jhenaigati	440	420	95
	Nakla	1,040	1,033	99
	Nalitabari	1,080	1,067	99
	Sherpur Sadar	400	394	99
Subtotal		2,960	2,914	98
Grand Total		20,000	19,778	99

Source: AAPI-Walmart Activity Trained Farmer's Follow up—Winter 2013-14 and summer Season 2014

Appendix 3. Women Farmers Trained Through December 2014 by Upazila

District	Upazila	No. of Clusters	Total Year 1		October December 2014		Year 2 (July-Dec 2014)		Total Project	
			Batch	Total Participants	Batch	Total Participants	Batch	Total Participants	Batch	Total Participants
A. FTF Zone										
Bagerhat	Bagerhat Sadar	2	10	400	4	160	4	160	14	560
Sub-Total		2	10	400	4	160	4	160	14	560
Bhola	Bhola Sadar	2	12	480	6	240	9	360	21	840
	Burhanuddin	2	24	960			13	520	37	1,480
	Char Fasson	5	35	1,400			19	760	54	2,160
Sub-Total		9	71	2,840	6	240	41	1,640	112	4,480
Chuadanga	Alamdanga	2	13	520			20	800	33	1,320
	Chuadanga Sadar	2	57	2,280	9	360	12	480	69	2,760
	Damurhuda	3	11	440			17	680	28	1,120
	Jibannagar	1	9	360	6	240	6	240	15	600
Sub-Total		8	90	3,600	15	600	55	2,200	145	5,800
Jessore	Bagherpara	1	2	80			4	160	6	240
	Chaugachha	1	10	400			9	360	19	760
	Jessore Sadar	3	35	1,400			14	560	49	1,960
	Jhikargachha	2	16	640			15	600	31	1,240
Sub-Total		7	63	2,520			42	1,680	105	4,200
Jhenaidah	Kaliganj	1	6	240	2	80	10	400	16	640
	Kotchandpur	2	6	240			8	320	14	560
	Moheshpur	2	8	320	2	80	12	480	20	800
	Shailkupa	1	4	160	2	80	8	320	12	480
Sub-Total		6	24	960	6	240	38	1,520	62	2,480
Khulna	Dumuria	1	8	320	6	240	10	400	18	720
Sub-Total		1	8	320	6	240	10	400	18	720
Meherpur	Gangni	2	24	960	5	200	5	200	29	1,160
	Meherpur Sadar	4	24	960	11	440	20	800	44	1,760
	Mujibnagar	1	6	240	2	80	6	240	12	480
Sub-Total		7	54	2,160	18	720	31	1,240	85	3,400
Pirojpur	Nesarabad	2	20	800	15	600	15	600	35	1,400
Sub-Total		2	20	800	15	600	15	600	35	1,400
Rajbari	Baliakandi	2	8	320			11	440	19	760
	Rajbari Sadar	2	11	440			20	800	31	1,240
Sub-Total		4	19	760			31	1,240	50	2,000

District	Upazila	No. of Clusters	Total Year 1		October December 2014		Year 2 (July-Dec 2014)		Total Project	
			Batch	Total Participants	Batch	Total Participants	Batch	Total Participants	Batch	Total Participants
Satkhira	Satkhira Sadar	1	6	240			8	320	14	560
Sub-Total		1	6	240			8	320	14	560
FTF Total		47	365	14,600	70	2,800	275	11,000	640	25,600
B. Mymensingh Zone										
Mymensingh	Ishwarganj	2	13	520			10	400	23	920
	Mymensingh Sadar	3	20	800			20	800	40	1,600
	Phulbaria	3	12	480	6	240	16	640	28	1,120
	Phulpur	1	4	160	7	280	7	280	11	440
	Trishal	4	13	520			22	880	35	1,400
Sub-Total		13	62	2,480	13	520	75	3,000	137	5,480
Sherpur	Jhenaigati	3	7	280	7	280	7	280	14	560
	Nakla	2	30	1,200	10	400	18	720	48	1,920
	Nalitabari	3	27	1,080	4	160	15	600	42	1,680
	Sherpur Sadar	1	10	400	4	160	10	400	20	800
Sub-Total		9	74	2,960	25	1,000	50	2,000	124	4,960
M&S Total		22	136	5,440	38	1,520	125	5,000	261	10,440
Grand Total		69	501	20,040	108	4,320	400	16,000	901	36,040

Appendix 4. Weighted Average Gross Margin by Crop (Tk/ha)

Item	UDP Plots by Crop						Broadcast Urea Plots by Farm Category					
	Cucumber	Bitter Gourd	Teasel Gourd	Ash Gourd	Taro (Lati)	Taro (Mukhi)	Cucumber	Bitter Gourd	Teasel Gourd	Ash Gourd	Taro (Lati)	Taro (Mukhi)
Total Return	393,543	139,771	395,520	332,275	208,000	288,026	325,149	116,461	325,120	280,339	182,000	241,065
Total Cost	40,435	22,472	42,221	34,093	20,000	26,532	40,045	27,341	40,176	32,045	21,086	26,255
Gross Margin	353,108	117,299	353,299	298,182	188,000	261,494	285,104	89,120	284,944	248,294	160,914	214,810
Gross Margin in U.S. \$	4,586	1,523	4,588	3,872	2,442	3,396	3,703	1,157	3,701	3,225	2,090	2,790
Gross Margin (%)	873	522	837	875	940	986	712	326	709	775	763	818
Benefit Cost Ratio (BCR)	9.73	6.22	9.37	9.75	10.40	10.86	8.12	4.26	8.09	8.75	8.63	9.18

Appendix 5. UDP Demonstration Established for Vegetable Crops by Upazila

District	Upazila	No. of Clusters	Year 1 Total	October-December 2014						Year 2				Total Project
				Cauliflower	Tomato	Cabbage	Eggplant	Potato	Total	Cauliflower	Tomato	Cabbage	Eggplant	
A. FTF Zone														
Bagerhat	Sadar	2	2	1		1				2	1		1	4
Sub-Total		2	2	1		1				2	1		1	4
Bhola	Bhola Sadar	2	2				1		1				1	3
	Burhanuddin	2	3		1		1	1	3		1		1	6
	Char Fasson	5	3	1		1			2	1		1		5
Sub-Total		9	8	1	1	1	2	1	6	1	1	1	2	14
Chuadanga	Alamdanga	2	2				1		1				2	4
	Sadar	2	5							1				6
	Damurhuda	3	1			1			1			1		2
	Jibannagar	1								1				1
Sub-Total		8	8			1	1		2	2		1	2	13
Jessore	Bagherpara	1												
	Chaugachha	1	1					1	1					2
	Jessore Sadar	3	4				1		1			1	1	6
	Jhikargachha	2	1			1		1	2			1	1	3
Sub-Total		7	6			1	1	2	4			2	1	11
Jhenaidah	Kaliganj	1					1		1				1	1
	Kotchandpur	2					1		1				1	1
	Moheshpur	2	1					1	1					2
	Shailkupa	1												
Sub-Total		6	1				2	1	3				2	4
Khulna	Dumuria	1	1		1	1			2	1	1	1		4
Sub-Total		1	1		1	1			2	1	1	1		4
Meherpur	Gangni	2	1									1		2
	Sadar	4	3	1					1	1		1		5
	Mujibnagar	1	1											1
Sub-Total		7	5	1					1	1		2		8
Pirojpur	Nesarabad	2	1		1				1		1			2
Sub-Total		2	1		1				1		1			2
Rajbari	Baliakandi	2	1	1				1	2	1				3
	Sadar	2	1	1	2				3	1	2			4
Sub-Total		4	2	2	2			1	5	2	2			7

District	Upazila	No. of Clusters	Year 1 Total	October-December 2014						Year 2				Total Project
				Cauliflower	Tomato	Cabbage	Eggplant	Potato	Total	Cauliflower	Tomato	Cabbage	Eggplant	
Satkhira	Satkhira Sadar	1	1				1	1	2				1	3
Sub-Total		1	1				1	1	2				1	3
FTF Total		47	35	5	5	5	7	6	28	8	5	8	8	70
B. Mymensingh Zone														
Mymensingh	Ishwarganj	2	2				2		2				2	4
	Sadar	3	2							1	1			4
	Phulbaria	3	1				1		1				1	2
	Phulpur	1												
	Trishal	4	2	1		1			2	1		1		4
Sub-Total		13	7	1		1	3		5	2	1	1	3	14
Sherpur	Jhenaigati	3	1			1	1		2			1	1	3
	Nakla	2	3					3	3					6
	Nalitabari	3	3		1			1	2		1			5
	Sadar	1	1			1			1			1		2
Sub-Total		9	8		1	2	1	4	8		1	2	1	16
M&S Total		22	15	1	1	3	4	4	13	2	2	3	4	30
Grand Total		69	50	6	6	8	11	10	41	10	7	11	12	100

Appendix 6. Motivational Field Visits Through December 2014

District	Participants From	Visited Place	Year 1			October December 2014				Total Project				
			No. of Visits	Male	Female	Total	No. of Visits	Male	Female	Total	No. of Visits	Male	Female	Total
A. FTF Zone														
Bagerhat	Bagerhat Sadar	Jessore Sadar					1	16	47	63	1	16	47	63
Sub-Total							1	16	47	63	1	16	47	63
Bhola	Bhola Sadar													-
	Burhanuddin	Char Fasson	2	19	94	113					2	19	94	113
	Char Fasson													-
Sub-Total			2	19	94	113					2	19	94	113
Chuadanga	Alamdanga													-
	Chuadanga Sadar	Jessore Sadar	2	16	88	104					2	16	88	104
	Damurhuda													-
	Jibannagar													-
Sub-Total			2	16	88	104					2	16	88	104
Jessore	Bagherpara													-
	Chaugachha													-
	Jessore Sadar	Magura	1	8	46	54					1	8	46	54
	Jhikargachha													-
Sub-Total			1	8	46	54					1	8	46	54
Jhenaidah	Kaliganj													-
	Kotchandpur													-
	Moheshpur													-
	Shailkupa	Chuadanga Sadar					1	10	50	60	1	10	50	60
Sub-Total							1	10	50	60	1	10	50	60
Khulna	Dumuria	Jessore Sadar					1	11	49	60	1	11	49	60
Sub-Total							1	11	49	60	1	11	49	60
Meherpur	Gangni	Magura	1	12	46	58					1	12	46	58
	Meherpur Sadar	Rajbari	1	11	46	57					1	11	46	57
	Mujibnagar													-
Sub-Total			2	23	92	115					2	23	92	115
Pirojpur	Nesarabad	Nesarabad					1	11	49	60	1	11	49	60
Sub-Total							1	11	49	60	1	11	49	60

District	Participants From	Visited Place	Year 1				October December 2014				Total Project			
			No. of Visits	Male	Female	Total	No. of Visits	Male	Female	Total	No. of Visits	Male	Female	Total
Rajbari	Baliakandi	Chuadanga Sadar					1	13	47	60	1	13	47	60
	Rajbari Sadar													-
Sub-Total							1	13	47	60	1	13	47	60
Satkhira	Satkhira Sadar	Jessore Sadar					1	14	46	60	1	14	46	60
Sub-Total							1	14	46	60	1	14	46	60
FTF Total			7	66	320	386	6	75	288	363	13	141	608	749
B. Mymensingh Zone														
Mymensingh	Ishwarganj													-
	Sadar													-
	Phulbaria	Trishal	1	15	46	61					1	15	46	61
	Phulpur													-
	Trishal													-
Sub-Total			1	15	46	61					1	15	46	61
Sherpur	Jhenaigati													-
	Nakla	Mymensingh Sadar	1	11	47	58					1	11	47	58
	Nakla	Muktagacha	1	13	47	60					1	13	47	60
	Nalitabari													-
	Sherpur Sadar													-
Sub-Total			2	24	94	118					2	24	94	118
M&S Total			3	39	140	179					3	39	140	179
Grand Total			10	105	460	565	6	75	288	363	16	180	748	928

Appendix 7. Motivational Meetings with Trained Farmers Through December 2014

District	Upazila	No. of Clusters	Year 1				October December 2014				Total Project			
			Batch	Male	Female	Total	Batch	Male	Female	Total	Batch	Male	Female	Total
A. FTF Zone														
Bagerhat	Bagerhat Sadar	2				-	1	10	40	50	1	10	40	50
Sub-Total		2				-	1	10	40	50	1	10	40	50
Bhola	Bhola Sadar	2	1	1	42	43				-	1	1	42	43
	Burhanuddin	2	1	4	46	50				-	1	4	46	50
	Char Fasson	5	2	3	92	95				-	2	3	92	95
Sub-Total		9	4	8	180	188	-	-	-	-	4	8	180	188
Chuadanga	Alamdanga	2	2	12	98	110				-	2	12	98	110
	Chuadanga Sadar	2	1	5	55	60				-	1	5	55	60
	Damurhuda	3	1	7	43	50				-	1	7	43	50
	Jibannagar	1				-				-	-	-	-	-
Sub-Total		8	4	24	196	220	-	-	-	-	4	24	196	220
Jessore	Bagherpara	1				-				-	-	-	-	-
	Chaugachha	1				-				-	-	-	-	-
	Jessore Sadar	3	2	24	96	120				-	2	24	96	120
	Jhikargachha	2				-	1	8	42	50	1	8	42	50
Sub-Total		7	2	24	96	120	1	8	42	50	3	32	138	170
Jhenaidah	Kaliganj	1				-				-	-	-	-	-
	Kotchandpur	2				-				-	-	-	-	-
	Moheshpur	2	1	3	52	55				-	1	3	52	55
	Shailkupa	1	1	9	51	60				-	1	9	51	60
Sub-Total		6	2	12	103	115	-	-	-	-	2	12	103	115
Khulna	Dumuria	1				-	1	8	42	50	1	8	42	50
Sub-Total		1				-	1	8	42	50	1	8	42	50
Meherpur	Gangni	2	1	5	55	60				-	1	5	55	60
	Meherpur Sadar	4				-				-	-	-	-	-
	Mujibnagar	1	1	10	50	60				-	1	10	50	60
Sub-Total		7	2	15	105	120	-	-	-	-	2	15	105	120
Pirojpur	Nesarabad	2				-	1	1	49	50	1	1	49	50
Sub-Total		2				-	1	1	49	50	1	1	49	50

District	Upazila	No. of Clusters	Year 1				October December 2014				Total Project			
			Batch	Male	Female	Total	Batch	Male	Female	Total	Batch	Male	Female	Total
Rajbari	Baliakandi	2				-				-				-
	Rajbari Sadar	2				-				-				-
Sub-Total		4				-				-				-
Satkhira	Satkhira Sadar	1				-				-				-
Sub-Total		1				-				-				-
FTF Total		47	14	83	680	763	4	27	173	200	18	110	853	963
B. Mymensingh Zone														
Mymensingh	Ishwarganj	2	1	10	41	51				-	1	10	41	51
	Sadar	3	1	9	41	50				-	1	9	41	50
	Phulbaria	3				-				-				-
	Phulpur	1				-				-				-
	Trishal	4				-	1	9	41	50	1	9	41	50
Sub-Total		13	2	19	82	101	1	9	41	50	3	28	123	151
Sherpur	Jhenaigati	3	1	18	42	60				-	1	18	42	60
	Nakla	2	1	9	41	50				-	1	9	41	50
	Nalitabari	3	1	9	41	50	1	9	41	50	2	18	82	100
	Sherpur Sadar	1	1	3	47	50				-	1	3	47	50
Sub-Total		9	4	39	171	210	1	9	41	50	5	48	212	260
M&S Total		22	6	58	253	311	2	18	82	100	8	76	335	411
Grand Total		69	20	141	933	1,074	6	45	255	300	26	186	1,188	1,374

Appendix 8. Field Days Organized Through December 2014

District	Upazila	Year 1		October-December 2014		Year 2		Total Project	
		Batch	Total Participants	Batch	Total Participants	Batch	Total Participants	Batch	Total Participants
A. FTF Zone									
Bagerhat	Bagerhat Sadar	1	60	2	120	4	240	5	300
Sub-Total		1	60	2	120	4	240	5	300
Bhola	Bhola Sadar	2	120		-	-	-	2	120
	Burhanuddin	2	120		-	-	-	2	120
	Char Fasson	3	180		-	1	60	4	240
Sub-Total		7	420		-	1	60	8	480
Chuadanga	Alamdanga			1	60	1	60	1	60
	Chuadanga Sadar	6	355	1	60	1	60	7	415
	Damurhuda	1	55	1	60	1	60	2	115
	Jibannagar			1	60	1	60	1	60
Sub-Total		7	410	4	240	4	240	11	650
Jessore	Bagherpara				-	-	-	-	-
	Chaugachha	2	120		-	-	-	2	120
	Jessore Sadar	2	120	1	60	2	120	4	240
	Jhikargachha				-	-	-	-	-
Sub-Total		4	240	1	60	2	120	6	360
Jhenaidah	Kaliganj				-	-	-	-	-
	Kotchandpur	2	120		-	-	-	2	120
	Moheshpur	1	50		-	-	-	1	50
	Shailkupa				-	-	-	-	-
Sub-Total		3	170		-	-	-	3	170
Khulna	Dumuria			1	52	2	112	2	112
Sub-Total				1	52	2	112	2	112
Meherpur	Gangni	1	60	1	60	1	60	2	120
	Meherpur Sadar	3	180	1	60	1	60	4	240
	Mujibnagar	1	60		-	-	-	1	60
Sub-Total		5	300	2	120	2	120	7	420
Pirojpur	Nesarabad				-	-	-	-	-
Sub-Total					-	-	-	-	-
Rajbari	Baliakandi	2	120		-	-	-	2	120
	Rajbari Sadar			1	60	1	60	1	60
Sub-Total		2	120	1	60	1	60	3	180
Satkhira	Satkhira Sadar				-	1	60	1	60
Sub-Total					-	1	60	1	60
FTF Total		29	1,720	11	652	17	1,012	46	2,732
B. Mymensingh Zone									
Mymensingh	Ishwarganj	4	240		-	-	-	4	240
	Sadar	2	120	2	120	2	120	4	240
	Phulbaria				-	-	-	-	-
	Phulpur				-	-	-	-	-
	Trishal	1	60	1	60	3	180	4	240
Sub-Total		7	420	3	180	5	300	12	720

District	Upazila	Year 1		October-December 2014		Year 2		Total Project	
		Batch	Total Participants	Batch	Total Participants	Batch	Total Participants	Batch	Total Participants
Sherpur	Jhenaigati				-	1	60	1	60
	Nakla	3	160	1	60	1	60	4	220
	Nalitabari	1	60		-	-	-	1	60
	Sherpur Sadar	1	60	1	60	1	60	2	120
Sub-Total		5	280	2	120	3	180	8	460
M&S Total		12	700	5	300	8	480	20	1,180
Grand Total		41	2,420	16	952	25	1,492	66	3,912

Appendix 9. Number of Briquette Machine Owners by Upazila

District	Upazila	No. of Clusters	Up to July 25, 2014		Up to July-September 2014		October-December 2014		Total Machines
			Union	Machine	Union	Machine	Union	Machine	
A. FTF Zone									
Bhola	Bhola Sadar	2							-
	Burhanuddin	2	Boro Marita	1					1
	Char Fasson	5	Ninnagar	1					1
Sub-Total		9		2			-	-	2
Chuadanga	Alamdanga	2							-
	Chuadanga Sadar	2	Padmavilla	1					1
	Damurhuda	3	Damurhuda	1			Jorampur	1	2
	Jibannagar	1	Abdolbaria	1					1
Sub-Total		8		3				1	4
Jessore	Bagherpara	1							-
	Chaugachha	1	Patibila	1	Jogodishpur	1			2
	Jessore Sadar	3							-
	Jhikargachha	2							-
Sub-Total		7		1		1		-	2
Jhenaidah	Kaliganj	1					Niamotpur	1	1
	Kotchandpur	2							-
	Moheshpur	2							-
	Shailkupa	1					Mirazapur	1	1
Sub-Total		6		-		-		2	2
Khulna	Dumuria	1	Atlia	1			Khornia	1	2
Sub-Total		1		1				1	2
Pirojpur	Nesarabad	2	Madra	1					1
Sub-Total		2		1				-	1
Rajbari	Baliakandi	2	Nababpur	1			Nababpur	1	2
	Rajbari Sadar	2	Shahid Wahabpur	1					1
Sub-Total		4		2				1	3
Satkhira	Satkhira Sadar	1	Alipur	1					1
Sub-Total		1		1				-	1
FTF Total		47		11		1		5	17

District	Upazila	No. of Clusters	Up to July 25, 2014		Up to July-September 2014		October-December 2014		Total Machines
			Union	Machine	Union	Machine	Union	Machine	
B. Mymensingh Zone									
Mymensingh	Ishwarganj	2							-
	Sadar	3			Boror Char	1			1
	Phulbaria	3	Putijana	1			Bakta	1	2
	Phulpur	1							-
	Trishal	4	Boilor	1					1
Sub-Total		13		2		1		1	4
Sherpur	Jhenaigati	3							-
	Nakla	2	Charastadhar	1					1
	Nalitabari	3	Poragaon	1					1
	Sherpur Sadar	1	Lasmonpur	1					1
Sub-Total		9		3		-		-	3
M&S Total		22		5		1		1	7
Grand Total		69		16		2		6	24

Appendix 10. Technical Training of Briquette Shop Owners Through December 2014

Districts	Upazilas	Total Project to Date			
		Batches	Participants		
			Male	Female	Total
Jessore	Sadar	1	8	8	16
FTF Districts Total:		1	8	8	16
Mymensingh	Sadar	1	6	6	12
Mymensingh Zone Total		1	6	6	12
Grand Total:		2	14	14	28

Appendix 11. Business Management Training of Briquette Shop Owners Through December 2014

Districts	Upazilas	Total Project to Date			
		Batches	Participants		
			Male	Female	Total
Jessore	Sadar	1	8	8	16
FTF Districts Total:		1	8	8	16
Mymensingh	Sadar	1	6	6	12
Mymensingh Zone Total		1	6	6	12
Grand Total:		2	14	14	28

Appendix 12. Stakeholders Workshop Through December 2014

District	Upazila	No. of Clusters	Year 1				October-December 2014				Total Project		
			Batch	Male	Female	Total	Batch	Male	Female	Total	Male	Female	Total
A. FTF Zone													
Bagerhat	Bagerhat Sadar	2											
Sub-Total		2											
Bhola	Bhola Sadar	2											
	Burhanuddin	2											
	Char Fasson	5											
Sub-Total		9											
Chuadanga	Alamdanga	2											
	Chuadanga Sadar	2	1	53	33	86				53	33	86	
	Damurhuda	3											
	Jibannagar	1											-
Sub-Total		8	1	53	33	86				53	33	86	
Jessore	Bagherpara	1											
	Chaugachha	1											
	Jessore Sadar	3	1	56	24	80				56	24	80	
	Jhikargachha	2											
Sub-Total		7	1	56	24	80				56	24	80	
Jhenaidah	Kaliganj	1					1	38	33	71	38	33	71
	Kotchandpur	2											
	Moheshpur	2											
	Shailkupa	1											
Sub-Total		6					1	38	33	71	38	33	71
Khulna	Dumuria	1	1	26	22	48				26	22	48	
Sub-Total		1	1	26	22	48				26	22	48	
Meherpur	Gangni	2											
	Meherpur Sadar	4					1	32	31	63	32	31	63
	Mujibnagar	1											
Sub-Total		7					1	32	31	63	32	31	63
Pirojpur	Nesarabad	2											
Sub-Total		2											
Rajbari	Baliakandi	2											
	Rajbari Sadar	2	1	38	23	61				38	23	61	
Sub-Total		4	1	38	23	61				38	23	61	
Satkhira	Satkhira Sadar	1	1	31	18	49				31	18	49	
Sub-Total		1	1	31	18	49				31	18	49	
FTF Total		47	5	204	120	324	2	70	64	134	274	184	458

District	Upazila	No. of Clusters	Year 1				October-December 2014				Total Project		
			Batch	Male	Female	Total	Batch	Male	Female	Total	Male	Female	Total
B. Mymensingh Zone													
Mymensingh	Ishwarganj	2											
	Mymensingh Sadar	3	1	39	33	72					39	33	72
	Phulbaria	3											
	Phulpur	1											
	Trishal	4											
Sub-Total		13	1	39	33	72					39	33	72
Sherpur	Jhenaigati	3											
	Nakla	2											
	Nalitabari	3											
	Sherpur Sadar	1					1	37	35	72	37	35	72
Sub-Total		9					1	37	35	72	37	35	72
M&S Total		22	1	39	33	72	1	37	35	72	76	68	144
Grand Total		69	6	243	153	396	3	107	99	206	350	252	602

Appendix 13. Inventory of Promotional Material Produced, Distributed and Displayed Through December 2014

Items	July 2013-September 2014		October-December 2014		Cumulative December 2014	
	Number Produced	Number Distributed	Number Produced	Number Distributed	Number Produced	Number Distributed
Signboard for Cluster 42"x36"	69	69			69	69
Signboard for Demo 2.5'x2'	41	41	18	18	59	59
Sign for Gura Urea (7"x11")	41	41	35	35	76	76
Sign for Guti Urea (7"x11")	41	41	35	35	76	76
Signboard for Briquette shop (3'x6')	12	12	5	5	17	17
Indicator Board For Briquette Shop	12	12	5	5	17	17
Sticker	100	40		29	100	69
Project Profile: Bangla	4,000	923		215	4,000	1,138
Project Profile: English	1,000	151			1,000	151
Training Bag:	1,265	663		219	1,265	882
Booklet (Different Crops)	4,500	3,940		153	4,500	4,093
Writing Pads	4,000	1,258		555	4,000	1,813
Flyer	50,000	36,278		420	50,000	36,698

Appendix 14. Media Coverage of AAPI Walmart Activity Through December 2014

Event	Media	Name of Media	Date and Time
Field days in Jessore	Television	Channel I	December 2013 5.15 pm Agriculture News
Field days in Chuadanga	Local newspaper	Dainik Matha Vangga	December 28, 2013
	National newspaper	The Daily Ittefaq	December 27, 2013
	National newspaper	The Daily Janakantha	December 28, 2013
	Online	www.Banglapost.com	December 25, 2013
	Online	www.shamolbangla.com	December 25, 2013
	Television	Mohona TV	December 27, 2013 5 pm Local News
	Television	My TV	December 27, 2013 5 pm News
	Television	Channel I	December 27, 2013 5.15 pm Agriculture News
	Print media	The Daily Ittefaq, Amader Somoy	January 21, 2014
		Barisal Barta	January 26, 2014
	Online	www.crimereportnewsbd.com	January 26, 2014
	Print media	Ajker Barisal	February 3, 2014
		Ajker Poriborton, The Daily Ittefaq	February 6, 2014
Ajker Poriborton, The Daily Ittefaq		February 19, 2014	
Ajker Barta, The Daily Jugantor		March 5, 2014	

Event	Media	Name of Media	Date and Time
Field days in Jessore region	Television	Channel i	February 17, 2014
			5.15 pm Agriculture News
	Print media	Dainik Matha Vangga	March 21, 2014
			March 25, 2014
Stakeholder workshop in Jessore	Television	Shomokal	March 21, 2014
		Desh Thatho	March 25, 2014
	Television	Desh	March 18, 2014
		Banglavisision	March 18, 2014
Print media	Channel i	March 20, 2014	
	Financial Express	March 19, 2014	
Stakeholder workshop in Chuadanga	Print media	Dainik Mathavanga	April 3, 2014
Stakeholder workshop in Rajbari	Print media	Dainik Matrikonto	April 18, 2014
		Jai Jai Din	April 18, 2014
		Daily Nagorik Batra	April 20, 2014
	Online	Abnews24.com	April 20, 2014
Field Days in Mymensingh region	Print media	The Daily Azker Bangladesh	May 15, 2014
		The Daily Azker Bangladesh	May 16, 2014
		Daily Shodesh Sagbad	May 16, 2014
Motivational Field Visit in Mymensingh	Print Media	The Daily Azker Mymensingh	June 12, 2014
		The Weekly Trisal Batra	June 15-21, 2014
		The Daily Diganta Bangla	June 15, 2014
Field Days in Mymensingh region	Print media	Dainik Azker Khobor	June 16, 2014
		Dainik Sabuz	June 26, 2014
		The Daily Azker Mymensingh	June 26, 2014
		Dainik Kaler Alo	June 26, 2014
		Dainik Diganta Bangla	June 26, 2014
Field Days in Mymensingh region	Print media	Daily Shojon	July 14, 2014
	Print media	The Daily Diganta Bangla	July 14, 2014
	Print media	The Daily Azker Mymensingh	July 14, 2014
Field Days in Barisal region	Print media	Dainik Paribartan	July 18, 2014
		Dainik Sangbad	July 18, 2014
Field Days in Jessore	Print media	Dainik Nobo Chinta	July 21, 2014
Stakeholder workshop in Satkhira	Print media	Dainik Kafela	July 24, 2014
Stakeholder workshop in Khulna	Print media	Independent	July 25, 2014
		The Daily Anirvan	July 25, 2014
		The Dakhinanchal Protidin	July 25, 2014
		The Daily Banglar Khobor	July 25, 2014
Field Days in Jessore region	On line	The report 24.com	August 13, 2014
		www.brekingnews.com.bd	August 13, 2014
	Print media	Dainik Drishtipat	August 14, 2014
		Shomoyer Khabor	August 14, 2014
Field Days in Mymensingh region	Print media	The Daily Tathya	August 14, 2014
		Dainik Diganta Bangla	August 28, 2014
		Dainik Kaler Alo	August 28, 2014
		Dainik Azker Khobor	August 28, 2014
		Daily Ittefaque	August 29, 2014
	Print media	Shodesh Sangbad	August 29, 2014

Event	Media	Name of Media	Date and Time
Field Days in Barisal	Print media	Khulna Anchol	August 29, 2014
	Print media	Shomoyer Katha	August 29, 2014
	Print media	Songbad Shokal	September 5, 2014
	Print media	Bhorer Anggikar	September 5, 2014
	Print media	Dainik Paribartan	September 5, 2014
	Print media	Shomoyer Khobor	September 30,2014
	Print media	Shomazer Kotha	September 30,2014
Stakeholders Workshop in Sherpur	Print Media	Kaler Konto	November 21,2014
	Print Media	The Independence	November 21,2014
Stakeholders Workshop in Jhenaidah	On line	www.cnnbd24.com	December 12,2014
Stakeholders Workshop in Meherpur	Television	Bangla Vision	December 10,2014
	On line	www.meherpurnews24.com	December 10,2014
	Print Media	Bir Darpan	December 12,2014
	Print Media	Dainik Bonik Barta	December 12,2014
	Print Media	Desh Totho	December 11,2014
Field Days in Jessore Region	Print Media	Amader Sogbad	December 3,2014
	Print Media	Dainik Matha Vangga	December 9,2014
	Print Media	Akash Khobor	December 9,2014
	Print Media	Rajbari Kontho	December 14,2014
	Print Media	Dainik Spondon	December 16,2014
	Print Media	Lok Shomaj	December 16,2014
	Print Media	Shomajer Kotha	December 16,2014
Field Days in Mymensingh Region	Print Media	The Daily Sabuj	December 4,2014
	Print Media	The Daily Sabuj	December 5,2014
	Print Media	The Daily Azker Mymensingh	December 4,2014
	Print Media	The Daily Azker Mymensingh	December 9,2014
	Print Media	The Daily Diganta Bangla	December 9,2014
	Print Media	Somokal	December 22,2014
	Print Media	The Daily Sabuj	December 22,2014
	Print Media	The Daily Azker Mymensingh	December 22,2014
	Print Media	Lok Lokantor	December 22,2014
	Print Media	Diganta Bangla	December 22,2014
	Print Media	Azker Bangladesh	December 22,2014
	Print Media	Kaler Alo	December 22,2014
	On line	www.kalerkontho.com	December 23,2014
	Print Media	Weekly Kaler Dak	December 29,2014
Field Days in Barisal	Print Media	Shomoyer Kotha	December 24,2014
	Print Media	Shomoyer Khobor	December 24,2014
	Print Media	Daily Shomoy	December 24,2014
	Print Media	Daily Shomoy	December 31,2014
	Print Media	Daily Probaho	December 31,2014
	Print Media	Daily Onirban	December 31,2014