





#### **BLUE GOLD PROGRAM**

#### **WORKSHOP REPORT**

#### ON

# RABI SEASON PLANNING FARMER FIELD SCHOOL (FFS) FORCOMMUNITY AGRICULTURAL WATER MANAGEMENT (CAWM) AREAS Ava Center, CSS, Khulna October 20, 2016

#### PREPARED BY

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BLUE GOLD PROGRAM, BANGLADESH WATER DEVELOPMENT BOARD

362,SHERE-E-BANGLA ROAD,KHULNA

#### **Workshop Report on Rabi Season Planning**

## Farmer Field School (FFS) for Community Agricultural Water Management (CAWM) Areas

#### Ava centre, CSS, Khulna, October 20, 2016

#### Objectives:

- To share the current progress, challenges and lessons learnt during the Aman season in the CAWM areas;
- To discuss the needs, preferences and challenges of CAWM-WMG members for Rabi season cultivation and decide on the cultivation pattern for the Rabi season;
- To discuss the major drainage and other water management problems in the CAWM areas, how they will effect Rabi cultivation and to identify potential solutions;
- To discuss potential marketing challenges (related to inputs, outputs, market linkages) for the selected Rabi crops and to identify possible solutions;
- To discuss the required preparations and planning for the upcoming FFS sessions in the Rabi season.

Participants: SAAOs ,SAE, PFs and COs working in CAWM areas in Khulna(see Annexure)

Organisation	Designation	Number	Names
DAE	Trainer	7	<ul><li>3 (2 Trained Facilitator + 1 Local SAAO)</li></ul>
	SAAO/SAPPO		from Dumuria
	Local SAAO	3	<ul> <li>4 (3 Trained Facilitator + 1 Local SAAO)</li> </ul>
			from Botiaghata each
			<ul> <li>3 (2 Trained Facilitators + 1 Local SAAO</li> </ul>
			from Paikgacha
BWDB	Chief Water	1	Chief Water Management inaugurates the
	Management		workshop
	SAEs	3	Only those working in CAWM areas
TA BGP	COs	3	Only those working in CAWM areas
	PFs	3	Only those working in CAWM areas
Total		20	
DAE	UAO	3	Batiaghata, Paikgacha and Dumuria
For support& fa	acilitation		
	Zonal TA staff	7	Trainer facilitator, Jahangir Alam
			AmalenduBiswas; Shusanto (involved in

		MFS Rice); TahminaAkhter, Azizur Rahman, Atikur Rahman
Dhaka TA staff	5	AbulKashem; Shorab Hossain; Judith de Bruijne,

The workshop was inaugurated by Chief Water Management Md.Mahfuz Ahmed, BWDB, Dhaka. He said that Bangladesh Water Development Board works on periphery level. They have no scope to work with farmer directly in the micro level agric-unit. The DAE has large number of manpower specially SAAO's are directly working with the farmers in close supervision. The Community-led Agricultural Water Management(CAWM) pilot is implemented by DAE,BWDB and BlueGold TA team jointly, obviously a nice initiative. This approach has started from Aman season/16.He said that the objective of the CAWM is to increase cropping intensity through proper water utilization. If this initiative is successful then it will possible to spread out the concept all the polders. Judith told about the objective of CAWM and sheared her own country experience how the people cultivate their land through community approach. The Netherland is a deltaic country. It is formed through the land reclamation from the sea. Netherland has been reclaiming land from the sea since 1200 century.



Figure: Chief Water Management inaugurated the CAWM-FFS Rabi season planning workshop.

There was water logging. But they saved themselves from the water logging by constructing embankment surrounding the country. At first their land was fragmented. They formed groups by involving small land holders but amazing things is that large land holders took the leadership in

forming the groups. In this way community approach cultivation started in her country. Now Netherland is an intensive production country.

A game is played for icebreaking the participants. All the participants are divided into five groups. Five cards written on five topics are given to each of the group. From each group one speaker is requested to say on the particular subject. From group one SAAO Abdul hai said on 'Extension of CAWM." He said that Bangladesh is an Agricultural Country. The average cropping intensity is about to 200%. But coastal areas are leg behind. The farmers of the coastal belt are not aware about the improved technologies. But there is a scope for increasing production. For increasing cropping intensity CAWM can be an appropriate mechanism for the coastal belt. The running pilots are implemented by the DAE,BWDB and BlueGold. After some time Blue Gold can leave the project. BWDB does not work with the farmer directly. The DAE is the only organization of whose staffs are working with farmer in close supervision.DAE can take the responsibility for extension of CAWM. In that case policy level discussion is needed

In the icebreaking session, second group leader Uttam Kumer Kundhu delivered his speech on 'Water Management& Marketing'. Proper Water management plays a vital role in implementing CAWM. In the gate operating the involving of WMG is minor. Steps have to be taken by the concern authorities so that WMGs can play their role effectively in water management related activities specially in gate operation & maintenance .Sectioning of land by making dykes, bunds is necessary for carrying water all the plot. Marketing facility is also another factor for crop production. If the farmer does not know how, where and when their product will be sold they would not be inspired. He also said that in polder 22, CAWM is implemented in small areas in comparison with the polder. If it would not be spread all the catchment otherwise water management will be difficult.

Third group leader SAAO chandan discussed on the 'Water logging and Crop production'. The main causes of water logging is uneven topography of land, idle influence and heavy rainfall during monsoon. In some cases the fishermen lift water through the sluice for cultivating fish in the Gher. At that time they do not consider farmer's interest for crop production either water is required or not. Due to water logging yield is reduced drastically and hampered next crop cultivation. Some physical interventions and farmer, fisherman and LGI's collaboration is needed for overcoming the crises. Forth group leader P,F Rezual spoke about the 'Employment and CAWM'. The CAWM has increased the busyness of the farmer through incorporating improved technology among them. The farmers that learning from the CAWM-FFS session applying in the field. After harvesting Aman rice they will cultivate Rabi crops. In the CAWM women's session the participant gaining knowledge and applying it in their homestead through vegetable production that will enhance nutrition. Ffth group leader SAAO Billal talked about the 'Role of CAWM in mitigating the demand of child food and nutrition.' Vegetable and fruits are the main source of nutrition. The BRRI dhan 72 is a zinc content rice variety. By incorporating improved field crop such as sunflower, mugbean ,water melon and in the homestead different

vegetables family food security can be ensured. He also told that in the training there is a provision of learning improved cooking method that also ensured nutritional food.

Shorab Hossain presented a presentation on the progress (variety, time of transplanting, area covered,no.of farmers, CAWM-FFS session.) of Aman season/16 of ten CAWM areas in the workshop. He emphasized on the horizontal learning. It can be done in the three steps( Before harvesting: experience shearing between WMG to WMG with in the polder, During harvest:WMG to WMG between the polders and crop cutting festible in ten locations). For smoth running of the pilots coordination among the stakeholders(farmers,DAE,BWDB,LGIs and BG TA staff) is to be strengthen.

### The participants found Challenges and measures from the Aman season through group discussion are listed below:

Sl.no.	Challenges	Solutions
1	Timely supply of	Inputs is to be ensured in due time.
	inputs(fertilizer,seeds).	
2	Use of balance fertilizer	Awareness should be increased through
		establishment of demonstration plot.
3	Attendance of the participant in FFS	Arrangement of honorarium and snacks for the
	training is not satisfactory.	participant and meeting with WMG.
4	Unplanned pesticide use.	Farmer is to be trained up about IPM.
5	Synchronize crop cultivation	Motivation of farmer through CAWM
		activities.
6	Reduce drainage congestion	Excavation/re-excavation of drain, field
		channel by WMG and land leveling.
7	Unavailability of training equipment	Provide multimedia, projectile and camera for
		training facilitation.
8	Poor gate operating	Coordinated action among WMG,DAE,BWDB
		,LGIs and BG TA staff is to be ensured.

## The present and potential rabi crops opportunities & risks were found out through group work presentation as listed below.

Pol der	Present crops	Potential crops	Opportunities	Risks
29	Fallow	BRRI Dhan 28(demo),Sunflower, Sesame, Mugbean	Adjacent sluice linkage khal in which water can be stored, Scope of pipe installation, market demand	Salinity,draught, Early monsoon, Insect&Pest attack.

22	Sesame,Water	Sunflower, Sesame,	Conservaion cannl	Salinity
	melon,Mugbean	Watermelon, Mung	Available but require	effect,synchronize
		bean, Pumpkin	some intervention	cultivation,timely
				seed sowing.
31p	Fallow	BR-	Perched aquifer, silted	If silted up canal is
art		28(demo),Sunflower,	up kash canal, less	re-excavate then
		Mung bean, Water	water requirement	fresh water could
		melon, Sesame	crops except rice.	be stored and drain
			Marketing facility	out. Salinity effect.
			available.	Drainage problem
				due to excess
				rainfall.

Amalendu Biswas presented a power point presentation relating to internal drainage and water management problems in four CAWM areas in Khulna. He tried to find out the possible interventions for solving drainage problems in four CAWM areas in Khulna. After that all the participants are divided into three groups according to polder.



Fig: The participants are preparing their group presentation through group work.

They worked in groups on water management challenges in CAWM areas and their group leader presented the finding at the workshop as listed below:

Polder	<b>Identified Proble</b>	ems	Possible	solution	ns		Lead Responsible
29	Water logging		Drain excavation		WMG/CAWM farmers		
			Pipe inst	allation			Pipe will be provided by BG installed by WMG,
	Keeping water	in the	Making	bunds	around	the	CAWM farmers

	field	plot.	
31part	Kallyn shree Khal silted	Re-excavation of khal	BG ,UP and WMG
	up		
	Water logging	Needs to excavate Drainage	CAWM-farmer/BG TA
		canal	part
	Uneven topography of	Sectioning of land through	WMG farmers
	land	making bunds,ridge and	
		dykes	
	Miss management of	Controlled management is	BWDB,WMG,BG
	sluice gate	needed,	
22	Un uniform land pattern	Sectioning of land through	CAWM farmers
		making ails,dykes	
	Open mouth culvert	Needs to install fallboard at	BG TA part/WMG
		the mouth of the culvert.	

BDC Shusanta Roy presented a presentation on business opportunity of different Rabi crops relating to comparison of production cost, income &profit and barriers. Through a plenary discussion the participants gave their opinion relating to problems of Rabi crops inputs and marketing those are listed below.

Sl.no.	Name of Crops	Input (seed) problem	Marketing problems	Solution
1	Sesame	Lack of quality seeds	Low price, market is	Collective action is
			so far	needed
2	Water melon	Lack of quality seed	Low price farm gater	Assessment of price in
			level	different market.
3	Pumkin	No problem	No problem	No problem
4	Sunflower	Lack of quality seeds	It is not sold in local	If large area covered
			market, low price	then big buyer will be
				attracted.
5	Mung bean	No problem-	Price is low of BARI	Farmer should be trained
			Mug-6	up for large covered.

Atikur Rahman (TC) facilitated the session in preparing Time line for preparation and planning Rabi season through plenary discussion in presence of UAOs as mentioned below.

Date	Activities	Lead Responsible	Remarks
01-15 Nov	Preparation and Planning  Organizing Community Meeting (WMG/WMA)  Potential Rabi crops identification and Planning for Rabi crop cultivation	BG TA & DAE	
15-30 Nov	Technical training on FFS curriculum Rabi Season for field staff (SAAO/XO/CO/PF)	BG TA & DAE/BWDB	
01 Nov 15 December	Implementation of intervention for Water Management Related Problem in CAWM areas  Drainage related small structure repairing- Planning, Designing, Preparation Budget Fund allocation Implementation	BWDB/UP/TA	
15-30 Nov	Drainage of water from Aman rice field  planning drainage of water	Farmers/WMOs/ BWDB/UP	at least two weeks before Aman harvesting
15-30 Nov	Planning and Budget preparation for Rabi crop cultivation (Seed and other input collection)	Farmers/ WMG	
15 Dec – 15 Jan	Start of Rabi-CAWM FFS Land preparation	Farmers/WMG/DAE	After harvesting of Aman rice
01 – 15 Jan	Seed sowing	Farmers/ WMG	
Jan- April	Organizing CAWM-Rabi FFS  Intercultural operation of Rabi field Horizontal learning	Farmers/WMG/DAE	
15 March April	Rabi Crop harvesting (crop harvesting festival)	Farmers/ WMG	
April-April	Planning for Aman season	Farmers/WMG/DAE	

Bangladesh Water Development Board

Blue Gold Program, Khulna.

**Annexure: Participants list** 



#### BLUE GOLD PROGRAM

## WORKSHOP ON RABI SEASON PLANNING FARMER FIELD SCHOOL (FFS) FOR COMMUNITY AGRICULTURAL WATER MANAGEMENT (CAWM) AREAS Venue: Ava Center, CSS, Khulna

#### **Attendance Sheet**

			T	Date: 20 October 16
51 #	Name	The Line is the	Cell#	an Signature
01	Most Raksana Khatum	P.F	01798-580882	- (MONTA)
02	ZIBAHOHDA ROY	S.A.A0	21318181183	(and
03	kamalesh eale	S.A.A.	017214368M	ROPE
04	Med About Howm	15000	01938812268	Aly
0.5	Md Kaiser Klan	Co	0/712681201	(de)
06	Kazi Hayat Massed	SAE, BWDB	01724-229133	Hom
07	S.M. Mojakan Ali	SAAO	01714961811	(d-6
08	Ultam Kumar Kunda	SAAO	01718849911	-9-
09	Shesonalt Ray	BDC	01717325641	AND PROPER
10	Emar faring	PF	01716981598	Bar San
11	Kumareph Dam	ev	01774-994193	-Danz_
12	Md Medus Solcham	SATE	01711-452017	Agon
13	DHRAUBO DOTT SARKE		01938812251	Exam.
14	Hd. Humayunkabi	CO-	01750-938749	While,
15	CHANDAN KUMAK. BISWAS	SAAO	01734-9852-21	band
16	Md. Altaf Hossain	SAAO	01711-194816	(Bala)
17	DIPON KUMERHAL	3140	01719-55788	Offer-



S			Date: 20 October'16			
#	Name	Designation & Organization	Cell#	Signature		
18	Mezael Sar	n PF	0174893457	23 (2500)		
19	Md. Sayedar Ral	u SAE/BOW	3 017-11-450035			
20	Md. Azizur Ruhm		07711-044421			
21	Zahangir Alau	. Agriculturist	01715-2090	416		
22	Md. Billal Hossan	in SAAO	01722-889787	विशिष्ट्र		
3	Slamina Akter Shan		01719-489532	Some		
4	Mahfuz Ahamad	chief water Management, BWDB, Bhaka.	01716496668	Zu en cury of		
5	Judith de Bruijne		017 60523 697	20 11/1		
6	A.H.M. Jahangin Alam		01714-716788	110am		
7	Md Abril Kashem	TE	01711733719	77030:10.16		
3	Rubayet Ara	UAO, Batiaghata		Show?		
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	Md. Nazpul Islam	UAO, DAE	OR16463 463	DAN .		
	Should Hossach	COE, BG.	0411-353707	Joan		
	Mst. Shamima Wassin	TC	01716-281955	800		
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