



Bangladesh Water Development Board (BWDB)



Kingdom of the Netherlands



Department of Agricultural Extension (DAE)



Orientation Report of Community Agricultural Water Management (CAWM)

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1. Introduction

Blue Gold is a collaboration program between the Government of the Netherlands and the Government of Bangladesh implemented by the Ministry of Water Resources, through Bangladesh Water Development Board (BWDB, lead agency) and the Department of Agricultural Extension (DAE). The starting point of the Program is to organize the communities in to Water Management Groups (WMGs) at village level and Water Management Association (WMA) at catchment level with an aim to ensure participation of local people in to water management practice.

It is commonly perceived that salinity is the main reason for non-adoption of improved agricultural technologies and low productivity in the coastal zone of Bangladesh. But actually the poor water management/ waterlogging, in particular, lack of drainage during and at the end of the rainy season is the root cause of low production in polder areas and also lack of coordination among the polder dwellers on water management and that community coordination is needed to enable wide scale adoption of improved agricultural technologies in the polder ecosystems. To overcome of this problem Blue Gold Program started new intervention which was piloted in polder-30 of Khulna zone, commonly known as Community-led Agricultural Water Management, in six area of 4 polders and four areas of 2 polders in Patuakhali and Khulna respectively.

To orient the farmers and staff (Lid Farmer, DAE, BWDB field staff) and Blue Gold TA part about community-led water management, this 2 days orientation course is planned at Satkhira, Khulna and Patuakhali.

2. Objectives of orientation program

The overall objective of the Orientation identifies and shares the Learning and technology to increase the agriculture water management (CAWM) to words the agriculture productivity. Increase crop rotation and crop pattern through equitable water resource management. Moreover the specific objectives of the workshop included the following:

- To clear concept and understanding of CAWM and present situation of agriculture production in CAWM area;
- To Share experience of last Year FFS Cycle, Intensity, Opportunity and production in the polder area;
- Identify problems, share and find solution of agriculture production in CAWM.

1. Participants Category

The Led farmer's Upazila, Agriculture officer, SAAOs from DAE, SDE, XO of BWDB, CDF and CDF of CAWM area, different Research Institute (BRRI/BARI/SRDI) and Polder Coordinator, Polder Co-coordinator working in CAWM areas total 30 participants were attended in the orientation. (See participant's list-31).

2. Contents

Based on the last year CAWM pilot experience the contents were selected for the targeted participants to achieve the above objectives. Followings are the key topics:

- Introduction and concept of CAWM
- Importance and benefits of CAWM
- Background, objectives and main activities
- Best practices, example and challenges
- Review experience from the last year piloting of 10 CAWM FFS under BGP
- CAWM implementation steps and process
- Problem Analysis crop water system through field visit
- Open discussion on the field visit and group presentation
- Prepare and demonstration of vision of the (Team Building-Dream and Catchments)
- Review of CAWM FFS (T-Aman) curriculum
- Presentation timeline and roles & responsibilities of field staff in CAWM activities.

8. Resource Person.

The resource persons are mainly Training Expert Md. Abul Kashem and FM Shorab Hossain, Community Organization Expert, Md. Aowlad Hossain, Institutional/legal advisor, Shusanto Roy, Business Development Coordinator and Biswas Ali Mortoza, Training Coordinator, Khulna organized and conducted the orientation.

9. Methods and Process

To make the orientation course effective for the participants the interesting, interactive and participatory methods were applied throughout the course:

- Lecture Discussion
- Experience Sharing
- Small Group Discussions
- Field visit and Problem Analysis
- Question & Answer
- Power Point Presentation
- Group Exercise and Demonstration

10. Welcome and Inauguration

Ms. Tahmina Akter welcomed the participants and inaugurated the orientation course. She explained some salient points and benefits from the last year CAWM experiences. Considering those benefits, BGP encouraged to undertake more 14 catchments this year for the benefit of the farmers.

11. Participants Expectations

The facilitator described the background of 2 days orientation and asked their expectation which are compiled bellow:

- Water drainage system
- Steps of implementation CAWM FFS
- How we can remove saline water
- CAWM area selection criteria
- How we can preserve rain water
- After T–Amon crop how we can get support for next crop
- Goal and Objective of CAWM
- Role of WMG on CAWM
- How we can protect water logged on low land crops
- How we get chemical fertilizer and pesticide
- How we can cultivate saline rice resistance variety?
- Best experience of other CAWM FFS
- Importance of CAWM.

12. Role of different parties involved



The facilitator is explained that CAWM is an integrated approach where each of the involved parties has active involvement and support to implement the activities. Facilitators drawn a diagram and introduce the involved parties in CAWM activities.

Divide participants into 3 groups and distribute colour cards to the groups. Then facilitator asked the groups to right the expected roles of different parties for CAWM activities. Facilitator also suggested for consulting with the CDF (in the group who are experience on CAWM piloting). The group outcomes were presented by the group coordinators which are compiled below:

a. Extension Overseer of BWDB expressed their role on CAWM

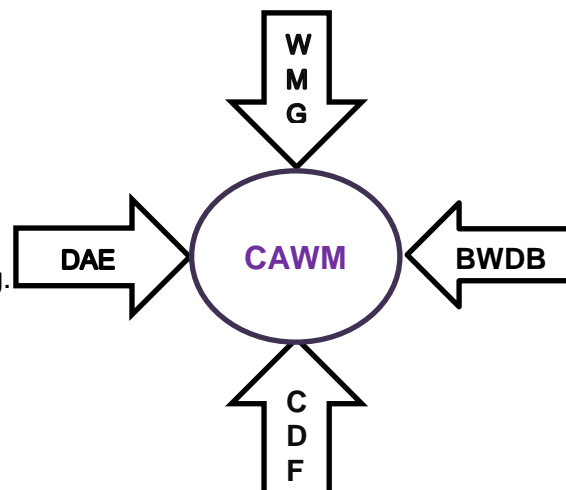
- Infrastructure development (construction & reconstruction)
- Infrastructure maintenance (Major)
- Ensure irrigation systems in proper time
- Organization registration and capacity development
- Registration for functional and sustainability

b. Roles of SAAOs, DAE

- FFS session conduct
- Crop rotation analysis
- Crop marketing
- Group organize and collective action
- New variety and technology introducing.
- Agricultural production and marketing

c. Roles of CDF

- Providing support to the FFS
- Communication and coordination
- Ensure presence of farmers in FFS Session
- Discussion on CAWM of WMG meeting
- Quality seed, fertilizer, pesticide related issues discussion and aware about purchase mechanism
- Consultation



End of three groups CAWM experience sharing then Training expert chalk out a supportive angle properly CAWM supporting systems. We follow the chary rightly then can be a ideal CAWM community of BGP working area.

13. Concept Explain of CAWM.

Before entire the CAWM session and explain concept clear by the speech of FM Shorab Hossain. He explains that sustainable Internal Polder Water Management Intensive technical and agronomic guidance to WMG members via CAWM-FFS sessions. Coaching WMG members to initiate collective action, establish linkages with LGIs and other relevant actors. Maximizing benefit of water management. Reducing crop damage. Diversify crop production.

Then all participants divided three groups and with select three group leaders. Group guidance by group leader on data collection through interview, FGD, field visit; transact work, case study, feasibility justification etc. Three groups travel to field at Polder-29, Gazendrapur FFs, under Dumuria Upazila. Group work lunching in a prescribe formats. Group wise group works out puts are bellows:



Groups leader are busy data collection through questionnaire and FGD.
Then the groups went to CAWM field visit by the guidance of FFS members and group leaders.



Prepare presentation individual groups from Field data.
Information collect and analysis in individual groups discussion and prepare presentation.
Presentation prepare through internal completion who has collected huge number of data, information with analysis from field. Data collection source through FGD, Previous cropping practice, present cropping pattern,



Historical pattern, seasonal calendar etc.

14. Group work presentation and inter action.

Selecting Group work presentation and inter action one to another groups. Here find more analytical issues on the CAWM possibility activities of upcoming season. Most of the groups are try to highlighted to sustain CAWM activities through FFS and WMG initiative areas, water infrastructure, communication, inlet, outlet ,main crop, seed source, agricultural equipment source, interest of community, future infrastructural opportunity etc. Indicate in map local institution UP, school, club, market, road, embankment etc. Total geographical status cite in map, land topography, cropping pattern, water logged areas and probably solution systems etc.



15. Findings of Group work.

Group-1.

- Area of Podkhali channel previously cultivate in this area Amon→ Vegetable→ Boro (few). Lunching CAWM now increasing agri produce Amon→ mastard→Vegetable and → Boro (widely)
- After build podkhali sluice there intensively cultivated Boro but not before now new included vegetable in wide scale.
- For Robi crop of Gazandrapur CAWM area need to a sluice for preserve rain water. In this CAWM winter and rainy season vast problem of water management. Smoothly and batter cropping systems need to water preserve of rain water.
- After kapalidanga channel digging now being a better cropping pattern .Near above 12 years community people is now out of ban and they are very happy to get four types crops.
- There are two types of problem situated after Gazendrapur sluice build, outlet problem of right side people and better crop cultivate for left side people for water preserve so here request and need prepare a regulation by both party seating and opinion.
- If not possible to build new sluice but emergency need to re-digging podkhali khal.
-

Group-2.

- Proposed to boroitola channel digging
- In Robi season masturd, bittergourd, Sweet gourd is going on but newly possible to ladies finger cultivation.
- BRR1 52 is well performance and it's growing up in wide scale.

Group-3.

- There was more possibility to cultivate lentil at boroitola after Boroitola channel digging.
- Highland areas but there are well possible 72 compares to 52.
- Proposed to monayem khal digging.

Three groups were presented their findings but both groups are seems to equal the completion the judge group can't find to select which one are best. Then finally selection process handover to the group leader select the best



The judge group find the best on from left side. output.

Training expert explain the group works



Distribute prize among the winner team and then next on.

16. Experience Sharing and market orientation issues.

Process of marketing

- Element of marketing
- Access in market
- Joint/collective marketing
- Demand based agriculture
- Need assessment of farmers demand?

We consider the incumbent element of marketing then we can easily it access in marketing. Farmers aren't more aware about marketing, so we need to share them about the element elaborately.



17. Horizontal Learning.

Md. Aowlad Hossain discussed on horizontal learning dissemination process. He believed that huge activities performing in BLUE GOLD Program but others are unknown. Most of the organizations are prepared a mechanism on documentation and dissemination of good practice. Really its well practice and need to spread another people community organization.

Horizontal learning is learning process of mutual understanding success among equal intern person to person. Disseminate best practice in adjacent community continue the process by use horizontal learning process. In this process sustain development and going to positive change of development. Horizontal learning process initiatives by BLUE GOLD Program through assistance of BWDB,DAE,WMG, Fisheries, Livestock department and Union Parishad.

Good practice disseminate by different ways, one to one discussion, Mass gathering, leaflet, posturing, electric media, print media etc.



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Objective of learning process:

WMG Organizations check out their best success and take initiatives with assist disseminate their surround community in this process increase WMO confidence for next step.

- Build alliance among inter WMG.
- WMG's success scaling up day by day.
- Effective implement assist to prepare procedure and principals.

Principal of Horizontal Learning.

- Appreciation: Appreciation builds a confidant to do anything. Appreciation is a one kind of abstract power. It's remove self-weakness assist to share any things with others and build him perfectly.
- Internal linkages build up: A cordial appreciation grows strengthen inspire to do something, reduce distance collective group support to group and joint development.
- Learn good practice and disseminate: Practically good work view then try to do more effectively its support to learning extension process.

18. Participants list & attendance of the Orientation.

Sl no.	Name and Designation	Organization	Contract no.	Remarks
1	Sujon Kumar Halder,XO Dumuria	BWDB, Dumu.	01912986551	
2	Md. Asaduzzaman Biswas	CDF,PCC,(31 Pt)	01716977442	
3	Md. Omor Fareque	CDF,PCC,P-22	01716981598	
4	Gostho Behary Mondol	CDF,P-29	01714571202	
5	Md. Rezaul Islam	CDF,CAWM	01748934573	
6	Tahmina Akter	Sr.SE	01712818720	
7	Nurur Rahman	MRL Coordinator	01715405323	
8	Susanto Ray	BDC	01717525641	
9	Md. Abul Kashem	Training Expert	01711733719	
10	Shorab Hossain	COE,CAWM	01711355707	
11	Md. Aowlad Hossain	Institutional advi.	01727184076	
12	Biswas Ali Mortoza	TC	01716310757	
13	Nripendra Chandro Das	TC	01714790077	
14	Subroto Ghosh	Farmer	01748956427	
15	Sukumar Ghosh	Farmer	01940282260	
16	Sankor Joyddar	Farmer	01940282907	
17	Nekhil Sarder	Farmer	01929661552	
18	Bashudev Ray	Farmer	01926781753	
19	Nittanando Sarkar	Farmer	01720965027	
20	FM Abdul Rob	Farmer	01925426073	
21	FM Abdul Hai	Farmer	01981275565	
22	Md. Nur Mohammad Shake	Farmer	01967549007	
23	Md. Abdul Hai Khan	SAAO	01938812268	
24	Jebannando Ray	SAAO	01718181187	
25	Besad Sindue Mondol	SAAO	01921452008	
26	Saley rani Mondol	SAAO	01721185550	
27	Koruna Mondol	SAAO	01728846461	
28	Uttom Kumar Kundu	SAAO	01718849911	
29	Md. Belal Hossain	SAAO	01722889787	
30	Mst. Atiquennahar	AEO	01757048038	
31	Mintu Ray	SAAO	01718336068	

N:B Participants Male-27,Female-04= Total 31.

19. Recommendation:

Participants are requesting to continue this type of orientation before and end of each season. They express their feelings that it's a good orientation they review and gather vast knowledge on CAWM. Participants also request and interest to arrange next time out of region venue select and increase timeframe of the Orientation.

20. Conclusion and Closing.

Before closing of the orientation request to say something of DAE role on CAWM Mst. Atiquennahar Agriculture Extension Officer, Dumuria she express her feelings that BLUE GOLD is a program of DAE she guess it's not a separate program of DAE, She feel DAE have some limitation but involve CAWM she gets more opportunity to learn and share to modern agri. technology through the CAWM FFS. She also request to DAE who are meanwhile involve CAWM.

- Agriculture is core focus of BGP
- Need to build more relationship farmers and retailer.
- 470 kg T -Amon rice seed distributed among 50 FFS members in this season.
- Increase coordination among DAE, BWDB and BGP.

Prepared by:

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BGP, Khulna.