



Bangladesh Water Development Board (BWDB)



Kingdom of the Netherlands

Embassy of the Kingdom of the Netherlands (EKN) Dhaka, Bangladesh



Department of Agricultural Extension (DAE)



Annual Work Plan

July 2017 to June 2018

June 2017



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Blue Gold Program

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List of Abbreviations

ADP	Annual Development Plan
ADG	Additional Director General
AEO	Agricultural Extension Officer
AGEP	Agricultural Growth and Employment Program
BAU	Bangladesh Agriculture University
BWDB	Bangladesh Water Development Board
CAHW	Community Animal Health Worker
CBO	Community-Based Organisation
CDMP	Comprehensive Disaster Management Program
CDF	Community Development Facilitator
CDSP IV	Char Development and Settlement Project Phase IV
CEIP	Coastal Embankment improvement Project
CGIAR	Consultative Group on International Agricultural Research
CIMMYT	International Maize and Wheat Improvement Centre
CO	Community Organizer
CPWF	Challenge Programme on Water and Food (CPWF)
CSISA	Cereal Systems Initiative for South Asia
DAE	Department of Agricultural Extension
DAM	Department of Agricultural Marketing
DLS	Department of Livestock Services
DoC	Department of Cooperatives
DOC	Day old chick
DoF or DOF	Department of Fisheries
DP III	Department of Planning III
DPP	Development Project Proforma
DTL	Deputy Team Leader
EKN	Embassy of the Kingdom of the Netherlands
EOI	Expression of Interest
EMM	Euroconsult Mott MacDonald
EWM	Equitable Water Management
FFS	Farmers Field School
FGD	Focus group Discussion
GAP	Gender Action Plan
GESAP	Gender Equality Strategy and Action Plan (of BWDB)
GoB	Government of Bangladesh
GoN	Government of the Netherlands
GPWM	Guidelines for Participatory Water Management
IRRI	International Rice Research Institute
ha	Hectare
HH	Household
IF	Innovation Fund
IFMC	Integrated Farm Management Component
IGA	Income Generating Activity
IMRC	Inter-Ministerial Review Committee
IPM	Integrated Pest Management
IPSWAM	Integrated Planning for Sustainable Water Management
IPSWARM	Guidelines for Integrated Planning for Sustainable Water Resources Management
IWM	Institute of Water Modelling
IWMI	International Water Management Institute
IWRM	Integrated Water Resources Management
KNKS	Karapara Nari Kalyan Shangstha
LCG	Local Consultative Group
LCS	Landless/Labour Contracting Societies
LG	Local Government
LGED	Local Government Engineering Department
LGI	Local Government Institutions
M&E	Monitoring and Evaluation
MRL	Monitoring, Reflection & Learning
MoU	Memorandum of Understanding

MoWR	Ministry of Water Resources
MTR	Mid – Term Review Mission
NGO	Non-Governmental Organisation
O&M	Operation and Maintenance
PCD	Project Coordinating Director
PCWM	Polder Community Water Management
PD	Project Director
PDP	Polder Development Plan
PMC	Project Management Committee
PM	Progress Marker
PSC	Program Steering Committee
PWMR	Participatory Water Management Rule
SDE	Sub-Divisional Engineer
SVC	Strengthened Value Chains
SWAIWRPMP	Southwest Area Integrated Water Resources Planning and Management Project
TA	Technical Assistance
T&C	Training & Communications
TL	Team Leader
TNA	Training Needs Assessment
TOT	Training of Trainers
UAO	Upazilla Agricultural Officer
UP	Union Parishad
WAP	Water Management Group Action Plan
VC	Value Chain
VCA	Value Chain Analysis
VCD	Value Chain Development
VCS	Value Chain Selection
WASH	Water Sanitation and Hygiene education
WMA	Water Management Association
WMG	Water Management Group
WMIP	Water Management Improvement Project
WMO	Water Management Organisation
WRM	Water Resource Management
WUR	Wageningen University and Research Centre
XEN	Executive Engineer (BWDB)
ZSEs	Zonal Socio-Economists

1. Context

The Blue Gold Program (BGP) has been developed based on the lessons learned from IPSWAM and other water sector projects in Bangladesh. It is a poverty reduction and economic development program with a central focus on the water management – agricultural & economic development nexus, which is being implemented by BWDB and DAE and which is funded by the Governments of Bangladesh and the Netherlands. Its major task is to reduce poverty and stimulate economic development by linking improved, participatory water management with agricultural production and value chain interventions. The Blue Gold Program is designed to use improved water resource management as a catalyst for agricultural and economic development in the polders. Blue Gold is implemented in 4 coastal districts of Bangladesh; Patuakhali, Barguna, Khulna and Satkhira.

The program is taking place during a six year period from March 2013 to June 2020 (Financial End: December 2020).

Following the project documents and DPPs the Blue Gold Program covers around 22 polders under Patuakhali, Barguna, Khulna and Satkhira districts. Minor repairs/upgrading will be done in polders already rehabilitated by other projects/IPSWAM, WMIP, ECRRP and GoB. The works will in general include minor re-sectioning of embankments, repair/construction/reconstruction and /or improvement of drainage sluices, outlets, and irrigation inlets, re-excavation of internal canals and improvement of on-farm water management etc.

The rehabilitation will be done in polders which have not been rehabilitated by other projects/IPSWAM, WMIP, ECRRP and GoB in last few years. The works will in general include major re-sectioning of embankments, repair/construction/reconstruction and /or improvement of drainage sluices, outlets, and irrigation inlets, re-excavation of internal canals and improvement of on-farm water management etc.

Up to now total number of identified and selected polders is 22 with a gross area of about 1,15,000 ha, which confirms to the recommendations of the MTR Mission 2015 and also by the Inter Ministerial Review Committee, March 2016. In 1st batch a total of 12 polders have already been selected; 9 IPSWAM polders and 3 non IPSWAM polders. In 2nd batch 10 non IPSWAM polders have been identified and approved.

1.1 Program Rationale & Objective

Bangladesh, the largest river delta in the world, depends largely for its economic growth on integrated and sustainable water resources management. The three major river systems of the country mark its physiographic and life of its people. Its waters, its Blue Gold, have fundamentally shaped Bangladesh culture. Efficient management of this immense natural resource remains a continuing challenge and offers at the same time tremendous opportunities.

The approach applied can be best described as water management for development. The BGP is one of several projects implemented by BWDB (and in the case of BGP by BWDB & DAE) that applies the Guidelines for Participatory Water Management¹. In a nutshell that means enabling and facilitating participatory infrastructure planning (Water Management Organisations take a keener interest in operation and maintenance if infrastructure is configured in

¹ Government of the People's Republic of Bangladesh, Ministry of Water Resources, Guidelines for Participatory Water Management, Dhaka, 2000; and: Government of the People's Republic of Bangladesh, Participatory Water Management Rules, 2014, Circular 20 Magh 1420 Bangla Year/2 February 2014 AD, published in Bangladesh Gazette, Additional Issue, February 11, 2014 (translation: Blue Gold). These regulations are reinforced by provisions for local governance: Government of the People's Republic of Bangladesh, Local Government (Union Parishad) Act, 2009, Additional Gazette, Dhaka, October 15, 2009 / 30 Asshin, 1416 (Translation World Bank)

response to their desires) and operation and maintenance (joint effort of BWDB, other government bodies and Water Management Organisations).

‘Water management for development’ implies that working on participatory water management needs to be justified by positive development outcomes. The efforts of BGP are not only aimed at establishing water management organisations (WMOs), but also at activating these to use agricultural opportunities created by water management and to use business opportunities created by the improved production environment.

The focus of BGP is therefore not on establishing local water management organisations (WMOs), but on reaping local benefits from improved water management practices. This requires initiatives by WMOs and relevant partners, such as: adapting crop choices to water management; enlisting other resources to further fine-tune local infrastructure; bulking, grading and packaging of produce to serve other markets, etc. More often than not these initiatives required will be shared by the WMOs (or sections thereof) and other actors in the area: local governments, line departments, non-government organisations and the private sector. In order to accomplish this, building active networks of local communities, local governments (e.g. Union Parishads and Upazila Parishads), government bodies and departments (e.g. BWDB and DAE) is extremely important. Shared development initiatives require that WMOs interact with other entities; making participation synonymous with cooperation with and between relevant entities. The approach of BGP is more than organisational strengthening of newly established water management organisations. It also builds the institutional linkages (relationships and partnerships). Through which the linked organisations can take joint initiatives and enhance their effectiveness through cooperation.

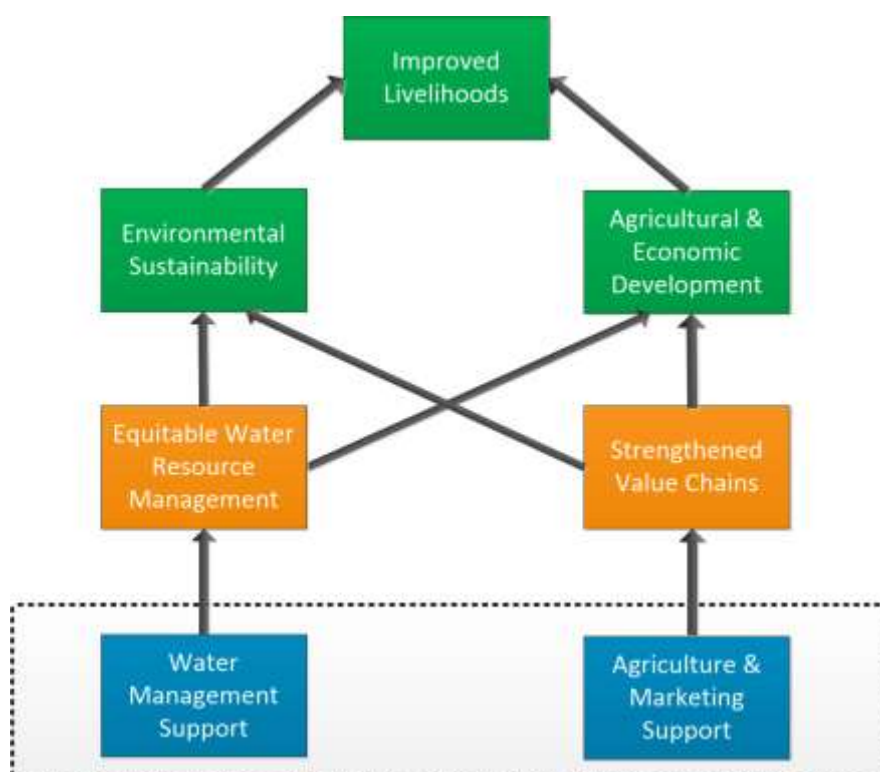


Figure 1: High-level Results Chain

1.2 Overall Goal & Specification

The overall BGP Goal is to ‘Reduce Poverty and Improve Food Security through Equitable Water Management, Agricultural Development, and Economic Growth in Coastal Polders.’

As part of the Theory of Change, a summary Results Chain (Fig. 1) has been developed. It emphasises the water management, agriculture and market development nexus. Hereafter the specific BGP objectives are summarised. A more in-depth narrative, including underlying assumptions in the Results Chain, is included in the full Theory of Change²

As can be seen in the figure above, the Results Chain has 3 levels. The blue level is a summary of the activities that Blue Gold implements. These have been summarised around support for water management and agricultural & marketing support. The activities need to lead to sustainable and systemic changes, represented by the orange level of the result chain. Without sustainable changes in the way water management or value chains are organised, impact of the program will only be temporary. The activities should facilitate these changes on the orange level. If these sustainable changes are accomplished, the program will have an impact on polder and household level, the green level of the result chain. The impact on polder and household level is the final goal of the program and accomplished because the changes in water management and agricultural practices result in more environmental sustainability and agricultural & economic development.

1.3 Program Management

The BGP TA has been decentralised and reorganised over the last year. To increase collaboration and coordination, cross-disciplinary teams have been formed both at Polder level (cross-disciplinary Polder teams) and at Dhaka level (cross-disciplinary advisory groups – Strengthened Value Chain Group & Equitable Water Management Group). In addition to improved coordination and collaboration, BGP management has initiated decentralisation and reorganisation for further integration in BGP activities with BWDB, DAE, LGIs, other line departments/relevant agencies and WMOs.

BGP zonal and polder support TA teams have been reformed under the BGP decentralised approach with the mandate of working independently with BWDB, DAE, LGIs, other relevant line departments/agencies, and WMOs at district and polder levels. Following the MTR, performance assessment was made for all CDFs working under polder teams; few CDFs were discontinued due to their low performance and the remaining were reshuffled/ posted in all 22 polders. It may be noted that concentration of CDF has been reduced in old 9 IPSWAM polders while higher number of CDFs are engaged in new polders. Blue Gold program recruited 23 new CDFs of which 13 CDFs are engaged against the vacant/discontinued positions while 10 are engaged under CWM as additional support to BWDB.

During 2017-18 FY Blue Gold plans to phase-out from old 9 IPSWAM polders except the implementation of infrastructure development activities. Ten new CDFs guided and supervised by the field officials of CWM will be posted to old polders, and assisted by existing BGP CDFs until end of 2017. Thereafter, a reduced number of BGP CDFs will continue in the old polders to ensure O&M activities of water management infrastructure, CA (collective actions) and HL (horizontal learning) and to continue for capacity development of the CWM CDFs. The main focus in 2018 for higher engagement of CDFs will be in new polders.

BGP is presently working in unified approach and all TA members at central, zonal and polder levels are oriented on the approach. A manual on Participatory Water Management for Blue gold program has also been developed specially for Zonal and Polder level staff members and will be distributed to them soon. The Blue Gold TA plans to consolidate all recent changes during 2017-18 FY.

² BGP Working Paper 5 'Theory of Change', May 2016

2. Annual work Plan – Workgroups & Service Team

A. Workgroup wise Plan

2.1 Equitable Water Management

Progress up to now June 2017

The EWM group played an active role in formulation of the BGP PWM manual and its adoption in BGP. Important achievements of the EWM group are:

- Piloting 10 Community-led Agriculture Water Management schemes;
- Linkage development with DAE, DLS and DoF through different activities and field programs;
- Cooperation and linkage development with UPs;
- Conceptual development of DAE -SAAOs and other officers on integrating organization, water management and agricultural production;
- Organizing workshops on water and Land use planning at polder level;
- Organizing catchment level O&M planning;
- Polder wise WMA formation;
- WMG boundary fixation based on hydrological unit for new polders;
- 100% WMGs under audit system;
- Collective actions initiated by WMOs;
- Initiate community based fisheries;
- Monitored BAU Action Research activities on fruits & veggies in the fields;
- Monitored some of the Innovation Funds supported activities e.g., Eco-Pond program by WorldFish Center and Cage Culture by Practical Action;
- Exposure visit at CAWM for horizontal learning.

Early rainfall in March and April 2017 damaged Rabi crop in Patuakhali which hampered the spirit of the farmers to go for changing cropping pattern and improved cultivation practices. Delayed progress on infrastructural work also caused limited scope for utilizing better water management options for crop production and strengthening WMOs.

Lessons learned

- a. Establishing institutional framework and working with all stakeholders can bring improved water management situation
- b. Focusing on polder level internal water management with the involvement of community members can maximize benefit of peripheral water infra improvement
- c. Infrastructure and internal water management is the key for agricultural production and economic development
- d. Up-scaling of CAWM concept to cover greater area would be effective means for sustainable PWM
- e. Consistently motivate DAE staffs to consider water management, organization strengthening as a better option and inspire the farmers to achieve greater impact on agricultural production. It would bring conceptual change to DAE-SAAOs.
- f. TA polder staff can play a complimentary role to assist GoB partners to improve livelihood of the farmers.

2017 / 2018 objectives

Motivation of the farming community to take water management issues up for utilizing production potentials and income generation is a key priority for the EWM team. In order to achieve that, WMOs will be supported to implement their catchment-level operation and maintenance plan to utilize water resources more effectively for agricultural production. EWM pursues this in the following areas by various activities.

1. DAE considers community water management issues in their FFS implementation
2. Bringing visible change in cropping patterns in the polders utilizing combined effort of WMOs, DAE, UP and polder development team by ensuring better water management situation.
3. Encouraging FFS members and FTs to become internal force for strengthening WMGs
4. Support up-scaling of CAWM to wider areas
5. Expanding good practices through horizontal learning

2017/2018 Planned activities

All the planned activities undertaken by the EWM group mainly to assist and support the Zonal and Polder team for the development of a strong and functional WMGs and ultimately WMAs in the Blue Gold Program areas. However, logics for some specific planned activities are given below:

- a. **Facilitate UP-WMA joint planning meeting** - each UP prepare budget for each fiscal year for small infrastructure and communication development, the WMOs shall advocate for budget allocation for better water management in their catchment area;
- c. **Facilitate Upazila briefing meeting** - important to get support from the Upazila Parishad and LGI representatives;
- d. **Providing guideline for WAP review** - the EWM team will assist WMG to prepare WMG Action Plan combining GAP and CAP;
- e. **Polder level WMA formation** - EWM can fasten the process making close liaison with Chief Water Management for reforming WMAs;
- f. **Assist Zonal & Polder Team in maintaining linkage with different key stakeholders (e.g. BWDB, DAE and LGIs)** - for planning and implementing different project activities;
- g. **Participate Zonal and Tri-zonal meeting** - The EWM team will present their activity and give advice or suggestions for achieving Blue Gold goal and objectives;
- h. **Plan to assist Zonal & Polder Team in CAWM activities** - planning for infrastructure work for better water management in the CAWM catchment areas and maintain liaison with DAE;
- i. **Participate catchment O&M planning workshop** - to assist and provide guidelines for preparation effective catchment level O&M plan and
- j. **Reviewing monthly zonal reports** - to provide assistance to the field.

2.1.1 Annual Work Plan with timeline

Step	Activities	Target	Partners Involvement						2017-2018														Rationale
			BWDB	DAE	DoF/DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J		
1	EWM team monthly meeting	12								x	x	x	x	x	x	x	x	x	x	x	x	Includes review and discussion of zonal monthly reports. Include DAE discussion on group support etc.	
2	EWM team attend zonal monthly meetings	12								x	x	x	x	x	x	x	x	x	x	x	x	Ensure planning for O&M committees at catchment level. Training O&M. Promote horizontal learning, cross visits, etc. on WMG good practices. Promote linkages WMG with line departments.	
3	EWM team attend tri-zonal meetings	4									x			x			x			x		It's important to know about zonal activities to support them	
4	Participate WMG-EC formation meeting									x	x	x	x									Backstopping Zone and polder team for the activities	
5	Participate WMA-EC formation meeting (Polder Level)												x	x								Backstopping Zone and polder team for the activities	
6	Participate monthly/bi-monthly meeting of WMGs/WMA									x	x	x	x	x	x	x	x	x	x	x	x	Backstopping Zone and polder team for the activities	
7	Participate UP-WMA Joint Planning Meeting									x	x	x										Backstopping Zone and polder team for the activities	
8	Participate Upazila Briefing Meeting										x	x										Assist and backstopping Zonal team for the activity	
9	Participate Catchment O&M Planning Workshop									x	x	x										Backstopping Zone and polder team for the activities	

Annual Work Plan July 2017 – June 2018

2.2 Strengthened Value Chain

Progress up to now June 2017

The Strengthened Value Chains (SVC) workgroup has completed FFS cycle 8 successfully and FFS cycle 9 is on-going. Market oriented (MO) issues were incorporated in DAE DT & FT trainings. SVC promoted Cropping System MFS and could show the benefit of cultivating short duration T. Aman rice to allow for an additional crop (e.g. Mustard) before Mung or Sesame. SVC group promoted MO learning to WMG members. Many CA and networking workshops, meetings and trainings were conducted. SVC group trained 48 input retailers as part of its initiative to strengthen value chain actors. SVC experiences were shared with polder teams zonally to enable them to facilitate similar activities. SVC group trained existing CDF and contributed to the training of newly recruited CDF. SVC team members assess Innovation Fund applications and support several IF funded projects to test and expand business ideas (e.g. Women Business Centres, Just Farming on Mung).

DAE was appreciative of SVC training of DT and FT staff and modifying FFS curricula with MO issues. EUGLENA, a Japanese company and sole exporter of Mung, filled a large share of their demand through the supply of good quality Mung by BG farmers and was enthusiastic about SVC activities. Sharing of our experience was welcomed at different forum, i.e. World Bank and R4D. Most important farmer appreciation of CA is increasing.

As DLS and DoF have insufficient manpower in field level, FTs could be a good resource (extension agent) for disseminating and providing livestock services & technology to the door step of farmers and also it is a sustainable process as the FTs are from those local areas. That is why Focal Point of DLS and DoF expressed their satisfaction on Blue Gold for organising such a training that incorporates their module and extension support services.

Organisational changes within BGP have impacted on the availability and responsibility of experts and field staff for SVC activities. The BGP TA is working on re-prioritising the activities of technical experts and CDFs. The focus shall be on water management for improving productivity in the primary sector.

The income gain shown by demonstrating cropping system shifts made considerable impact on farmers where WRM conditions allow. SVC group managed to transfer knowledge from MFS to WMGs. Many workshops were organized with WMG members, Resource Farmers, CDFs and Value Chain actors to use networking for goods, services and information, and the role of CA therein to overcome challenges to improve profitability. DAE enthusiasm and willingness to incorporate MO in their DT & FT training can be noted as a good example.

Lessons learned

- CAWM FFS not performing yet at full potential in terms of incorporating WRM and MO.
- Awareness of potential for improvement in production systems related to improve WRM makes a good contribution to WRM interest when shared with WMG members.
- While mobiles are increasingly in the hands of farmers and other Value Chain actors, the use of ICT in their search for information seems to be a key to achieve leverage in overcoming constraints.
- It remains a challenge to marry WRM and extension, and therein in turn to marry production and market orientation, including CA to enhance inclusiveness, in our approach to stimulate the polder economies.

2017 / 2018 objectives

Production systems constitute the core livelihoods of the polder inhabitants and are a major source of poverty reduction. SVC seeks to make a major contribution to introduce production system changes on a sustainable basis. SVC pursues this in three major areas by various activities.

1. Strengthening the capacity of DAE in terms of value chain development
2. Integrating production system improvements in our polder development, wherein WMGs take a central role.
3. Support innovations with potential for up scaling in the polders

SVC will undertake this by advising the line management on practical approaches, and by motivating and extending support to polder development teams.

2017/2018 Planned activities

A first set of activities are aimed at supporting the capacity of DAE to marry production and market orientation in their DAE FFS and CAWM FFS. SVC will under the banner of DAE, support and facilitate workshops, exchange visits and capacity building programs for Value Chain actors and staff.

A second set of activities aims to stimulate production system improvements in a sustainable manner as part of overall polder development led by polder teams. The first focus is on efforts which help to create awareness of the potential of shifting production systems and thereby motivate WMG farmer members to take an actual interest in WRM. The second area of attention is on facilitating the actual shift in the production systems through polder resource persons and a broader range of market actors. This includes enhancing networking for goods, services and information, stimulating of collective actions and partnerships, and horizontal learning related to the production systems. In addition, SVC engages to complement TA FFS with market orientation and to integrate it in the broader polder development objectives.

The third set of activities focuses on innovation. Besides encouraging companies to come forward with ideas, SVC reviews proposals to the Innovation Fund and supports the implementation of funded proposals in the field. Women empowerment and ICT have specific relevance.

2.2.1 Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target								2017-2018											
Process	Step			BWDB	DAE	DoF / DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	
A		Strengthening the Capacity of DAE in terms of VC development																				
	1	Experience Sharing Workshop	2																			
	2	VC actor linkage Seminar/meetings/workshops	3																			
	3	Network building workshops with FFS/WMG/CF/GL/RF/SAAO/RF	8																			
	4	Collaborate in CAWM/ cropping system trials with MO	8																			
	5	Exposure visit/learning visit to enterprises	2																			
B		Integrating production system improvements in our polder development, wherein WMGs take a central place where possible																				
	6	Facilitate linkage among WMG/Private company for CA for input and CA for output	2																			
	7	Facilitate linkage among WMG/micro enterprises for timely services (CAHW/tillage etc.) and CA	2																			
	8	Promoting CA/Networking among WMO/RF/CF/GL/LF/FT/SAAO	6																			
	9	Input trader / output buyer capacity building programs	2																			
	10	Linkage meeting/workshop/seminar with VC actors	1																			
	12	Trials with Private companies	6																			
	13	Workshop for RF/CF/FT/SAAO/others capacity building	4																			
	14	Organize HL events	2																			
	15	Strengthen RF's /actor's network and capacity (Bus planning or others)	8																			
	4	TA FFS: cycle 9 (fish, cattle, nutrition)	Cycle 9 FFS																			

V1 June 2017

2.3 Gender mainstreaming

2017 / 2018 objectives

Gender equity is addressed as an integral part of each Blue Gold activity cluster. Presence and active participation of women in the water management organisations is a key priority. Women need to be in leadership positions to be role models for others in the area. This is e.g. addressed through the Gender & Leadership Training. Women are placed in leadership positions in Water Management Organisations and have a mandatory presence in the Executive Board and in decision-making positions of these bodies.

Furthermore, the program aims at economic empowerment e.g. through providing women with equal access to (new) technologies and practices and through promotion of joint decision making about income.

2.3.1 Annual Work Plan with timeline

SN	Activities	Target								2017-18												Remarks
			BWDB	DAE	DoF / DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
1	Ensure 40% women involve with WMGS	100 WMGs										X	X	X	X	X	X	X	X	X		
2	40% women involvement EC committee and 3% as a president and Secretary	100 WMGs										X	X	X	X	X	X	X	X	X		
3	Courtyard session for women empowerment	700 sessions								X	X	X	X	X	X	X	X	X	X	X		
4	Support to and monitoring of GLD training for WMGs	132 WMGs Phase 1								X	X	X	X	X	X	X	X	X	X	X	133 phase 2	
5	Build strong linkage with UP (5% Up) financial support for women empowerment	10 UP									X	X	X	X	X	X	X	X	X	X		
6	Provide training on linkage development and women empowerment at CAWM area	2 CAWM groups								X	X	X	X	X	X	X	X	X	X	X		
7	Increase women involvement in collective centre for economic empowerment	10 collective centre								X	X	X	X	X	X	X	X	X	X	X		
8	Follow-up on the impact assessment of the GLD training	100 WMG								X	X	X	XX			X	X	X	X	X		
9	Support gender research in CWM of university students	One CAWM group								X	X											
10	Gender training for zonal and field staff	2-day training								X	X											
11	Support the implementation of the LCS study	Start March 2017								X	X	X	X	X	X	X						

12	Support other colleagues in unified approach in their work, such as:	all time								x	x	x	x	x	x	x	x	x	x	x	
13	Attend polder meeting with polder team for regular coordination																				
14	Collect Success story and best practice of blue gold on women empowerment	20 story																			
15	Follow-up (and support when needed) of Innovation Fund projects, especially those with clear gender aspects (e.g. Nice Foundation, GIZ, WorldFish)	As per requirement								x		x		x		x		x		x	
16	Provide support to DAE Like TOT and Gender strategy plan	5 batch								x		x		x		x		x		x	
17	International Women's day celebration at UP level	all UP															x				
18	Support and coordinate with BWDB in updating their Gender Action Plan									x	x	x	x	x	x	x	x	x	x	x	
19	Collect monitoring data on gender related activities / gender-disaggregated data (in coordination with others)	preferably starting by Sept 2016								x		x		x		x		x			

B. Service Team wise Plan

2.4 Water Resource Management

WRM Team is responsible for assisting BWDB in planning, implementation, monitoring, and quality control of water management infrastructure rehabilitation works. UP to now, the team has done lot of work, but is behind on schedule due to different factors, including inadequate scope and fund provision in the original DPP as well as inadequate manpower and facilities in BWDB field and design offices. As per recommendations of the annual and mid-term review missions, the revised scope of work and additional fund provision have been made in the proposed revised DPP, which was supposed to be approved by June 2016. But unfortunately, this is taking much longer time and is still in a state of processing in the planning commission. It expected that the RDPP will be approved by 30 June 2017. This means many works that were initially planned for 2016-17 FY based on the proposed RDPP could not be done or initiated in 2016-17. These plans were then merged in the 2017-18 rehabilitation plan but if the RDPP is not approved by 30 June 2017, the 2017-18 rehabilitation plans will also be hampered. In spite of all the limitations, the BWDB and BGP WRM Team together contributed a lot towards achieving the infrastructure rehabilitation objectives of the program. The cumulative up to date status of the WRM infrastructure rehabilitation activities as of May 2017 is shown in the table below.

Item		Target	Completed	C/O and Ongoing	Remaining
		m/km/ nos	m/km/ nos	m/km/ nos	m/km/ nos
Embankment	Reparing/Resectioning (km)	359.81	173.18	81.14	105.48
	Retired, km	19.58	2.84	4.12	12.63
Canal R/E		566.97	45.78	91.74	429.45
Repair of Structures	Sluice, nos.	186	21	43	122
	Outlet, nos.	27	8	10	9
	Inlet, nos.	211	171	-	40
New Structures	Sluice, nos.	31	-	7	24
	Outlet, nos.	17	-	5	12
	Pipe Inlet, nos.	8	1	2	5
	Culvert, nos.	32	-	-	32
	Drain Pipe, m	12,800.00	-	-	12,800.00
	Pump Shed & Basin, nos.	6	-	-	6
Low Cost Bank Protection, km		8.00	-	-	8.00
Internal Dike, km		21.00	-	-	21.00
Closure/ Cross-bundh, km		1.00	-	-	1.00

The items mentioned in table above are the major hardware activities. WRM team in association with BWDB and other partners has also completed many other related activities, which are enumerated below:

1. Final selection of all 22 Blue Gold Program Polders.
2. Engineering assessment consultation meetings with WMOs, UPs, BWDB, DAE and other partners in all 22 polders.
3. Completion of Digital Elevation Models (DEM) and catchment identification maps in 14 polders. These activities are ongoing in the remaining 8 polders.
4. Completion of topographical survey and updating of existing water management infrastructure maps for 14 polders. Maps for 8 newly selected polders have been roughly updated based on field visits and reconnaissance surveys. Topographical surveys and mapping in these polders are in progress and will be updated soon.
5. Prepared tentative timeline and year wise distribution budget for implementation of the rehabilitation works.
6. Preparation of approximate rehabilitation cost estimates based on needs assessment consultation meetings, topographical surveys, field visits, reconnaissance surveys and previous experience for all 22 polders.
7. Validation of rehabilitation needs and priorities by WMOs and /or UPs for 14 polders and preparation of rehabilitation maps for these 14 polders.

8. Identification of inadequate rehabilitation needs and funding provisions in the original DPP and presenting the same to EKN and the Review Missions.
9. Preparation different rehabilitation options and cost scenarios for EKN to facilitate recommendation of higher GoN contribution towards BGP infrastructure rehabilitation program (currently EKN increased its contribution from 15.75 million Euro as per the original DPP to 27.32 million Euro for the proposed RDPP).
10. Facilitating identification of new rehabilitation items and cost estimates for preparation and submission of the proposed RDPP.
11. Updating existing O&M guideline for water management infrastructures with more focus on the operation aspects.
12. Complementary contribution to CAWM and other internal water management activities. Cooperation with other activities clusters.
13. Contribution to several water management related studies like Water Apps for Polder Water Management, Roads for Water Management, Pumped Drainage, and Managed Aquifer Recharge (MAR) for Irrigation etc. The MAR for irrigation was not finally found feasible for BGP.
14. Contribution to the proposition of feasibility/pre-feasibility studies for dredging / silt clearance in silted up outfall-rivers, and studies on erosion dynamics in tidal rivers around Blue Gold Program polders.
15. Contribution to pilot study and emergency sand filled geo-bag revetment works in polder 29.

Lessons Learned:

In spite of all the good intentions and hard work by BWDB and the WRM TA team, it was difficult to achieve the desired progress and quality of the rehabilitation works. Some of the key lessons learned from previous experiences are listed below:

- During preparation of a project DPP enough time should be allowed so that actual field conditions can be assessed and actual needs and costs can be properly estimated.
- Since revision of any DPP has lot of administrative and legal formalities, it takes much longer time than that can normally be anticipated. Therefore, formulation of DPP that aims specially at participatory water management which needs to accommodate dynamic stakeholder needs and variable climatic factors should have enough flexibility, block allocations and projected cost estimates to take care of any time gap between DPP formulation and actual implementation.
- The infrastructure rehabilitation plan should have enough lead time to allow for WMO formation/reorganization and registration, identification of water management problems; rehabilitation needs assessment, preparation of rehabilitation plans and validation by WMOs, engineering survey and design data collection, detail engineering designs and tendering. Therefore, in any participatory water management DPP, there should be less intensive rehabilitation plan in first few years and more weight should be given to participatory rehabilitation needs assessment and planning, and preconstruction activities.
- BWDB field and design offices have insufficient manpower and facilities, which are not always easy to mitigate through existing government and legal procedures. Therefore, such water management projects should have provisions for a full pledged set up built in the project for engineering survey, design data collection and detail engineering designs; with BWDB having the monitoring and approval/concurrence roles.
- In the current project document, inadequate attention has been given to outfall river activation and internal polder water management, which are vital for the success of any participatory water management project. In future projects/phases, these two issues should be adequately focused and addressed.
- The task force is a very important concept in ensuring good governance, progress and quality of rehabilitation works but there is no regular staffing for running such a huge and important task. The task force normally draws regular staff from different design, planning and monitoring offices, making already understaffed departments more stressed. This, in addition to incomplete and inadequate design data from the field, contributes at least to some extent in the piling of regular activities in the design offices. It would have been better if a pool of experts could be created for the task force.
- The technical specification and rates for earthwork in coastal polders need to be rationalized as the working time is only a few months with semidiurnal tidal flooding, water filled fish culture ghers/ ponds, unauthorized houses/structures on the right of way, lack of specified soil, crops in the field, lack of dry borrow pits for filling soil and lack of space for spoil earth. Layering, clod breaking and compaction with local wet clayey soil is not always practical. The specification can be rationalized with multi-year contracts, thicker wet soil layers or dumping with natural stabilization and adequate shrinkage factor.

- Apparently, LCSs through WMGs do not seem to be a desired option considering ownership, responsibility, progress and quality of works. There should some specific directions and guidelines in this regards.
- Small contractors are mostly inexperienced local influential/political activists who do not have the aptitude, professionalism and capacity for achieving planned progress and good quality works. Larger contract packages with professional contractors might improve the situation.

2017 / 2018 objectives

The WRM TA team was continuously supporting BWDB in achieving the objectives but in addition to inadequate DPP provisions, lack of manpower and facilities in BWDB field and design offices; design data collection, detail designs and estimates could not be done in time. The PWRM-14, which dictated LCS works through WMGs, also greatly affected the progress and quality of works. Small contractors, who are mostly political activists, did not have the capacity and attitude to complete the works in time. All these contributed to the apparently less than expected achievement in WRM rehabilitation activities. The greatest success of our team is that in spite of so many limitations we are still continuing to improve the situation and are expecting that once the RDPP is revised and adequate provisions are made revised planned progresses would be achieved.

The objective of the 2017-18 plans is to cover up as much work as possible within the specified time. To achieve this objective, plans are also suggested to make bigger work packages so professional and capable contractors can be recruited to complete the works in time and per specification.

2017/2018 Planned activities

The objective of the 2017-18 plans is to cover up as much work as possible within the specified program period. To achieve this objective, plans are also suggested to make bigger contract packages so that professional and capable contractors can be recruited to complete the works in time and as per specification. Suggested item as well as division wise larger contract packages are shown in Annex-1 (Excel Sheet: WRM Annex- Contract Packages).

2017-18 Rehabilitation Plan:

During 2017-18, Blue Gold Program has infrastructure rehabilitation plan in all the 22 polders. Total estimated budget for the 2017-18 rehabilitation plans is around BDT 7,579 lakh. However, some rehabilitation works from 2016-17 will also be continued/ carried over to 2017-18 plan. It is anticipated that rehabilitation works equivalent to BDT 2,061 lakh will be added to the 2017-18 plan, making the total 2017-18 budget around BDT 9,640 lakh (96.40 crore). It is proposed that 25% of the earthwork will be given to LCSs through WMGs. All other works including the remaining earthworks will be given to contractors.

Tentative estimates for all works planned for 2017-18 has been prepared in 2016-17 and will be updated during early 2017-18. Suggested contract packages have been prepared based on the current estimate. Though the total estimate of the rehabilitation works to be initiated/started during 2017-18 is BDT 15,935 lakh, actual rehabilitation budget for this year will be much less, BDT 7,579 lakh (75.79 crore) as most of these contracts will continue for several years.

The contract packages in Annex-xx are suggested with the assumption that 25% of the earth work will be kept reserved for LCS and the remaining works will be given to comparatively large contractors, one for each item of work in each division (Option-1). An alternative is also suggested assuming that 25% of the earthwork will be kept reserved for LCS and all the remaining works, irrespective of work items, in one division will be given to a large contractor (Option 2). The LCS packages are suggested considering a maximum limit of BDT 10.00 Lakh each. Most of the contractor packages and some of LCS packages will be multiyear contracts.

2.5 Polder Infrastructure Assessment Consultation – Output & Plans

Polder Infrastructure Assessment Consultation: Plans and Outputs

Blue Gold Program has 22 polders, covering an area of about 119,124 ha in 4 coastal districts. Infrastructure rehabilitation needs assessment in 12 polders including previous IPSWAM polders were done through consultation meetings with the existing WMGs, WMAs and UPs in respective water management units/ catchments. For other polders where WMOs were not yet formed during assessment, infrastructure rehabilitation needs were assessed

through consultation meetings in different unions with UP Chairperson and members, and selected local stakeholders as advised by UP Chairperson. BWDB, DAE officials as well as zonal and central TA team including representatives from all activity clusters were also present in the consultation meetings.

In 2016, the last batch of 8 polders, namely polders 47/3 and 47/4 under Patuakhali WD Division, 25, 27/1, 27/2, 28/1, 28/2 under Khulna O&M Division-1 and polder 21 under Khulna O&M Division-2 were selected. Infrastructure needs assessment in these polders was completed during November 2016 to January 2017. But later due to some local conflict, the concerned Member of the Parliament advised to drop Polder 21. Accordingly this polder was dropped from the list of Blue Gold Program and a new polder 34/2 (part) was selected instead of Polder 21. Polder 34/2 (part) includes 3 unions namely Amirpur, Bhanderkot and Baliadangi. Infrastructure needs assessment in this polder was completed during March /April 2017.

In the consultation needs assessment meetings water resources management related issues like water logging, water stress, flooding, cropping pattern, cropping intensity, proposed cropping systems etc. were identified and probable solutions to mitigate or eliminate the water management related problems were discussed. The solutions are often presented in a manner where the representatives suggested rehabilitation of different water resource management infrastructures like repair/construction of sluices, inlets, outlets; re-excavation of khals and re-sectioning/ repair of embankment etc.

During WRM infrastructure rehabilitation needs assessment in the polders, lists of different rehabilitation needs were made with different priority settings depending on their urgency, usefulness, relevance and fund availability. After finalization of the lists and priorities, these were again validated with the WMOs and UPs for their concurrence. For 8 new polders, where WMGs are not yet fully formed, the infrastructure needs assessment lists and the priorities will be validated later when WMOs will be formed/reorganized and registered. A tentative polder wise list of different infrastructure rehabilitation needs with tentative budgets, within the proposed total RDPP provision, is given in the tables below. Item quantities and costs for each polder within a zone as mentioned in the RDPP (Barisal Zone and Khulna Zone) may change depending on the actual field requirement but the total item quantities and costs for a particular zone shall remain within the provision of RDPP. Currently proposed rehabilitation budget for Barisal and Khulna zones are BDT: 1,390.366 million and BDT: 1,691.651 million, totaling to BDT: 3,082.017 million.

Table 1
Infrastructure Rehabilitation Needs Assessment-Tentative Item Quantities and Estimated Costs

Sl. No.	Polder	Area, Ha	Work Item											
			Embankment						Internal Dike		Closure/ Cross-bundh		Canal R/E	
			Upgrading		Resectioning		Retired							
			km	BDT	km	BDT	km	BDT	km	BDT	km	BDT	km	BDT
1	43/2A	5,182	-	-	30.79	41,830,828	6.84	69,545,540		-			28.75	27,999,789
2	43/2B	5,460	-	-	16.47	19,661,573	2.00	22,000,000		-	1.00	2,000,000	19.21	23,374,210
3	43/2D	6,500	-	-	32.80	26,901,135	-	-		-			28.69	36,806,978
4	43/2E	1,650	-	-	3.03	4,000,000	-	-		-			16.30	14,346,160
5	55/2A	7,166	-	-	15.00	25,500,000	-	-		-			25.00	30,000,000
6	55/2C	6,275	-	-	15.00	27,000,000	2.00	22,000,000		-			30.00	36,000,000
7	43/1A	2,675	-	-	18.42	25,944,409	-	-		-			14.60	14,804,072
8	43/2F	4,453	-	-	28.28	25,335,030	-	-		-			18.14	22,072,263
9	47/3	2,025	-	-	13.00	16,900,000	-	-		-			15.83	20,735,890
10	47/4	6,600	-	-	22.05	35,373,908	0.50	5,500,000		-			27.50	33,000,000
11	34/2	4,900	-	-	20.00	44,000,000	1.00	11,000,000		-			25.00	37,500,000
12	22	1,630	-	-	4.08	4,000,000	0.50	5,500,000		-			9.27	10,490,278
13	30	6,396	-	-	15.80	16,000,000	-	-		-			26.10	34,830,064
14	31-part	4,848	8.92	28,456,318	4.00	8,706,637	2.00	22,000,000	5.00	2,285,700			26.92	35,820,860
15	25	17,400	-	-	21.00	30,247,651	1.50	15,000,000		-			73.00	84,950,000
16	26	2,696	10.69	31,112,972	2.00	3,400,000	-	-		-			25.04	30,463,129
17	27/1	3,765	-	-	4.00	5,200,000	-	-	6.00	2,742,900			29.00	40,600,000
18	27/2	495	-	-	4.00	5,200,000	-	-		-			9.50	12,350,000
19	28/1	5,600	-	-	10.00	12,000,000	-	-		-			18.00	27,000,000
20	28/2	2,590	-	-	7.00	10,500,000	1.50	16,500,000		-			35.50	56,800,000
21	29	8,218	-	-	18.38	21,112,041	1.74	20,450,644		-			29.62	35,590,902
22	2	12,600	3.90	24,441,057	31.00	49,930,121	-	-	10.00	4,571,400			36.00	70,000,000
Total		119,124	23.51	84,010,347	336.10	458,743,333	19.58	209,496,184	21.00	9,600,000	1.00	2,000,000	566.97	735,534,594

Table 1: Infrastructure Rehabilitation Needs Assessment-Tentative Item Quantities and Estimated Costs (Continued)

Sl. No.	Polder	Area, Ha	Work Item												
			Repair of Structures						New Structures						
			Sluice		Outlet		Inlet		Sluice		Outlet		Pipe Inlet		
			nos.	BDT	nos.	BDT	nos.	BDT	nos.	BDT	nos.	BDT	nos.	BDT	
1	43/2A	5,182	4	8,378,816	2	1,691,052	34	5,714,190	2	43,000,000	2	15,284,000	3	6,750,000	
2	43/2B	5,460	4	8,559,666	-	-	42	4,708,957	2	54,000,000	2	15,284,000	-	-	
3	43/2D	6,500	17	27,433,701	3	4,405,000	46	6,437,684	-	-	2	15,284,000	2	4,500,000	
4	43/2E	1,650	7	7,196,992	2	1,545,115	25	8,088,285	-	-	1	7,642,000	-	-	
5	55/2A	7,166	12	48,000,000	3	3,750,000	4	604,270	2	50,000,000	2	15,284,000	-	-	
6	55/2C	6,275	7	37,100,000	-	-	-	-	1	16,000,000	-	-	-	-	
7	43/1A	2,675	5	9,318,354	5	1,117,562	11	2,357,394	-	-	-	-	-	-	
8	43/2F	4,453	15	17,154,534	3	2,928,658	38	9,337,647	2	35,000,000	5	38,210,000	-	-	
9	47/3	2,025	8	32,458,317	2	2,500,000	3	453,202	1	16,000,000		-	-	-	
10	47/4	6,600	23	62,002,160	-	-	1	100,000	2	30,000,000	1	7,642,000	-	-	
11	34/2	4,900	5	11,000,000	-	-	-	-	3	51,000,000	-	-	-	-	
12	22	1,630	3	3,151,000	4	8,000,000	3	500,000	-	-	-	-	2	4,500,000	
13	30	6,396	11	27,296,975	-	-	-	-	1	30,000,000	-	-	-	-	
14	31-part	4,848	4	19,147,297	-	-	1	200,000	2	60,000,000	1	7,642,000	1	2,250,000	
15	25	17,400	16	34,802,349	-	-	-	-	-			-	-	-	
16	26	2,696	1	2,279,074	-	-	-	-	3	46,000,000	-	-	-	-	
17	27/1	3,765	5	17,500,000	-	-	-	-	-	-		-	-	-	
18	27/2	495	3	6,000,000	-	-	-	-	-	-		-	-	-	
19	28/1	5,600	8	20,000,000	1	1,250,000	-	-	1	16,500,000		-	-	-	
20	28/2	2,590	6	15,000,000	-	-	-	-	1	17,000,000		-	-	-	
21	29	8,218	12	16,181,684	2	1,793,735	-	-	-	-	1	7,642,000	-	-	
22	2	12,600	10	30,500,000	-	-	-	-	8	170,800,000	-	-	-	-	
Total			119,124	186	460,460,919	27	28,981,122	208	38,501,629	31	635,300,000	17	129,914,000	8	18,000,000

2.5.1 Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target								2017-2018												Rationale
Process	Step			BWDB	DAE	DoF / DLS	LGI	Core Group/ WMO	Zonal/ Central	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A		Pre-Construction Works																					
	1	DEM & Catchment Identification	8 polders																			Outsourced to CEGIS. Needs at least one wet season	
	2	Rehabilitation Needs Assessment & Validation	8 Polders																			Validation in 8 polders will be done after formation/reorganization of WMOs in new polders	
	3	Engineering Assessment & Topographic Survey	8 Polders																			For approximate cost estimate and budget preparation by TA Team	
	4	Design Data Collection (for 2017-18)	as per requirement																			Design data collection for all structures and earthwork to be rehabilitated during 2017-18 will be done in steps upto September 2017.	
	5	Design Data Collection (for 2018-19)	as per requirement																			Design data collection for all structures to be implemented in 2018-19 will also collected during 2017-18	
	6	Detailed Design (for 2017-18)	as per requirement																			All engineering designs for 2017-18 will be done	

Annual Work Plan July 2017 – June 2018

Annual Work Plan July 2017 – June 2018

Annual Work Plan July 2017 – June 2018

2.6 Monitoring, Reflection Learning

Progress up to now June 2017

Major achievements of MRL Team during the last fiscal year (2016-2017) include:

- revision of BGP Logframe in RDPPs of BWDB and DAE
- finalization of baseline survey methodology and conduction of baseline (field) survey
- development and implementation of WMG tracker
- development and implementation of participatory monitoring
- development of MIS dashboard (on-going)
- issuance of Trends Watcher (seasonal bulletin)
- coordination of Half-yearly reports

The MRL Team achieved its targets on development, implementation, and revision of monitoring tools. But the team could not achieve all its targets on reflection and learning, which the team will take up with increased efforts in the coming year.

BWDB, DAE and MRL Team worked closely together on finalization of indicators and baseline methodology. The Annual Review Mission 2016 recommended setting up WMG Tracker, MIS Dashboard and Monitoring Bulletin, which MRL Team followed up.

Lessons learned

- MRL Team needs to put extra effort to facilitate reflection and learning together with the polder teams.
- MRL Team needs to develop efficient plan to meet the challenges to implement the reflection and learning issues.
- Writing extensive reports is not the best way to share monitoring findings. It is advisable to discuss findings with implementing colleagues.

2017 / 2018 objectives

The main objective of MRL Team is to support the Blue Gold implementing teams to achieve their targets.

Examples of concrete objectives:

- Support Polder Teams with required information and by facilitating reflection and learning processes.
- Support BWDB and DAE in assessing the effectiveness of interventions.
- Provide the management team with sufficient information for decision making.

2017/2018 Planned activities

During 2017-2018 the MRL Team plans to finalize baseline survey report and MIS Dashboard and to start impact monitoring survey. Along with the regular works, the MRL Team will put an extra effort to facilitate reflection and learning together with the polder teams.

2.6.1 Annual Work Plan with timeline

SI		Description of activities	Target								2017-2018											
Process	Step			BWDB	DAE	DoF / DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J
A		Half-yearly Progress Report Compilation	2																			
B		Baseline Survey Phase II - Report	1																			
C		WMG Tracker	4																			
D		Participatory Monitoring	2																			
E		Dashboard and MIS System																				
	1	Design & development of MIS System																				
	2	Review design of MIS System																				
	3	Data updating																				
F		Trends Watcher (Seasonal Bulletin)	3																			
G		Case Studies	20																			
H		Impact Monitoring Surveys	3																			
I		Sharing of and reflection on survey results/data																				
J		Capacity Building																				
	1	Training of new CDFs on participatory monitoring	2																			
	2	Training of new WMGs on participatory monitoring	26																			
	3	Skill development of MRL Team members	1																			
K		Monthly Coordination Meeting of MRL Team	12																			

2.7 Training & Communication

Progress up to now June 2017

Over the Period of July 2016 to June 2017 Training & Communication Team (T&C) supported to achieve the Blue Gold Objectives through arranging different Training activities for the WMOs Members and staff of BGP TA, DAE and BWDB staff. This team assist management through design and organizing Retreat, Workshops, and Seminars. During last year, the Blue Gold TA team went through unique changes in terms of its approach of field operation. Accordingly, T&C Team also changed its strategy and approach for effective support service to the project.

T&C Team provided support to BGP TA team (both zonal and polder team) to reach a common understanding on PWM & Functional WMOs through organizing crash training program for all TA staff (zonal and polder team). On the basis of the outcomes of this crash training program the Field Manual (Participatory Water Management Approach for BGP) was strengthened.

This year T&C team designed and organized Retreat 2017 where strengthening the Zonal & Polder Teams, identification of bottlenecks and way to overcome them was the main focus.

Last year T&C team successfully organized Gender and Leadership Training for WMGs in five polders and completed Accounts Keeping and Audit Systems Training for 332 WMGs in 79 batches and Participatory Monitoring 51 batches as very important training for WMG. This year T&C Team designed and organized Foundation Training on PWM for 25 newly recruited Community Development Facilitators.

During last year Training Team redesigned/compiled different Training Module such as Training Module for Gender and leadership development Training and CAWM-FFS module (1st part-T Aman FFS). As service team T&C team improved good collaboration with BWDB and DAE after decentralization of team both in HQ and Zone.

Lessons learned

A project may have several interventions which are required to implement for livelihood security of the targeted people. But if those interventions are not implementing coordinated way, teams do not have common understanding and commitment to implement together as a team, the total effort will not bring desired benefits for the targeted group of people.

2017 / 2018 objectives

Examples of concrete objectives:

- Support Polder Teams in scaling up good practices through horizontal expansion
- Support DAE in developing curricula for year-round FFS]

Objectives of Training & Communication Team for 2017/2018:

- Develop capacity of DAE and BWDB field staff (SAAO, XO) on Facilitation Skill, Participatory Water Management;
- Provide support to Polder Teams to perform their new roles and responsibilities through organizing training on Facilitation, coordination and management issues.
- Enhance the capacity of the zonal teams to for effective management of polder teams through better collaboration & coordination among the teams and implementing partners;
- Provide support to DAE in developing training module on CAWM- FFS (2nd part- Rabi Season)
- Develop module on Operation and Maintenance Training for WMOs and provide support to zonal and polder team to conduct training for WMO capacity building.

2017/2018 Planned activities

During the 2017/2018, T&C Team planned different training program for WMOs such as Organizational Management, Accounts Keeping, Operation and Maintenance training, Participatory Monitoring for WMG which is essential for develop their capacity towards functional WMOs.

To make the WMG sustainable T&C Team planned to organize workshops at polder level such as Joint Planning Workshop with UP, workshop on Participatory Water management, BGP Coordination Workshop for Upazila which will strengthen the capacity of WMOs to develop linkage with different Government Organizations and NGOs.

In the phase out polder T&C Team has planned to develop community resource groups among the WMG and develop their capacity so that they can carry out the organizational activities for functional WMO. On the other hand T&C Team will support polder teams to expedite the Collective Actions and Horizontal learning in the phase in polders for functional & sustainable WMG.

On the other hand in the up-coming year BGP T&C Team also planned some training and workshop for BGP TA, BWDB and DAE staff such as ToF, ToT on O&M Training, Participatory Water Management which will help the field staff to perform towards achieving the objectives of Blue Gold Program i.e. Functional WMOs.

2.7.1 Annual Work Plan with timeline

SI		Work Process and Steps	Total Target batches	Target for July '17 to June 18	BWDB	DAE	DoF / DLS	LGI	Core Group/WMO	Zonal team	Polder team	2017-2018												Rationale
Process	Step											J	A	S	O	N	D	J	F	M	A	M	J	
	A	Blue Gold orientation																						
	1	UP Orientation (01 day)	21	0																				
	2	Upazila Orientation	5	5									2		2	1								
	B	Capacity Building of WMOs																						
	3	Organizational Management Training	93	44								6	6	3	0	6	5	3	4	5	3	3	0	
	4	Accounts Keeping and Audit System for WMG	46	14											4	3		5	2					
	5	Gender & Leadership Development Training for WMG (03 days)	93	44								6	6	5	6	6	0	6	6	4	0	0	0	
	6	Management of Agricultural Machineries for WMG	89	0																				
	7	Savings and Credit Management Training for WMGs	12	0																				
	8	Training on LCS works Management	0	0																				
	9	Training on monitoring and Quality Control	22	0																				
	10	Training on Operation & Maintenance with Water Management and Resource Mobilization (03 days)	10	6									3	3										

10.1	Gate Operation training for gatekeepers (Practical)	10	6								3	3								
10.2	O&M Plan preparation (Field visit Training)	10	6								3	3								
11	Training on Participatory Water Management																			
12	Training to Env. and DRR Champions and UDMCs on Env Safeguard and Dis. Mgmt.																			
13	Training on Participatory Monitoring system for WMG	27	4														2	2		
14	ToT for Community Resources Group	10	6								2	2	2							
C	Planning Workshop																			
15	Water and Land Use Planning Workshop	4	0																	
16	WMA Action Planning Workshop (02 days)	10	5								3	2								
17	Joint Planning Workshop (01 day)	21	0																	
18	Consultation Meeting for Need Assessment	5	0																	
D	Exposure visit/ Learning Sharing Visit for WMOs																			
19	Exposure visit to polders/Projects/Organization																			
20	Exchange visit to WMGs/ polder																			

2.8 Innovation Fund

Progress up to now June 2017

Since its roll-out in 2015, the Blue Gold Innovation Fund has completed 10 projects on water resource management and agricultural production and food security, with currently 13 more proposals under implementation.

The projects implemented through the Innovation Fund provide possibilities for economic growth and business development inside the BGP area, and contribute to a wider understanding of development opportunities amongst both Blue Gold staff and beneficiaries.

The Blue Gold partner organizations, BWDB, DAE and EKN, have each expressed their support for the experimental approach of the projects implemented through the Innovation Fund.

BWDB is interested in seeing practical knowledge and experience of Dutch water management practices implemented in the coastal region (for example, the use of high density plastic as a replacement for steel infrastructure components).

DAE welcomes new approaches and production technologies in agriculture, and would to see Dutch agriculture solutions, such as saline tolerant crop varieties or hydroponics, implemented in the coastal region.

EKN supports Bangladeshi and Netherlands based entrepreneurs experiment with different concepts and ideas, and looks towards an increase in the exchange of knowledge, capacity building and establishment of trade ties through the implementation of Innovation Fund projects.

Lessons learned

- Bangladesh offers huge potential for business development in both agriculture and water management
- The realities of the Blue Gold Program area are difficult to understand by both Bangladesh and Netherlands based applicants, and do not offer the smoothest implementation landscape
- Attracting innovative conceptual thinking from Bangladesh and Netherlands based applicant is possible, but requires significant investment in awareness creation and guidance through the Innovation Fund application structure
- Scaling up initiatives into full-fledged and self-supporting businesses requires more time and effort than the Innovation Fund structure currently allows

2017 / 2018 objectives

Examples of concrete objectives:

- Support Polder Teams in identifying potential areas for innovation (bottom-up approach) in water management and agriculture
- Support BWDB in identifying potential areas for innovation in Water Management
- Support DAE in identifying potential areas for innovation in Agriculture
- Support Netherlands based entrepreneurs to make the leap to Bangladesh and profit from the opportunities that the Blue Gold Innovation Fund provides
- Support local entrepreneurs from the BGP area to develop and implement their innovative business ideas

2017/2018 Planned activities

For 2017 – 2018 the core focus of the Innovation Fund is on increasing the engagement with the Netherlands-based SME segment. To this extent a marketing campaign will be rolled-out with help of the Dutch Network Group, which will run till October 2017 with potential for extension (if successful).

Besides the continued focus on implementing new, unsolicited, concepts and ideas from Bangladesh and Netherlands-based entities (expecting 10 to 15 applications for 2017 – 2018), the Innovation Fund will launch two large tenders that are aimed at implementing innovative solutions on two pre-selected topics:

- Improved information in agriculture through the use of ICT
- Innovative options for small scale food processing for the Blue Gold polders

2.8.1 Annual Work Plan with timeline

SN	Description of the Unified Work Process and Steps	Target	Partners Involvement							2017-2018											
			BWDB	DAE	DoF / DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J
1.	FHRC - Collective action for improved water management	Complete pilot																			
2.	WorldFish - Tilapia fish feed improvement	Complete pilot																			
3.	SBYA - Blue Gold Innovation Challenge	6 feasible businesses created																			
4.	Aspire - Insect fish feed feasibility study	Business plan developed																			
5.	United Purpose - Women business centres	Setup 4 WBCs																			
6.	Dutch Network Group - Marketing campaign for the BG IF	Realize 8 to 20 applications to the BG IF																			
7.	Proportion Inc. - Soil testing kits business plan development	Business plan developed																			
8.	BAU - Germ Plasm Center	Complete pilot																			
9.	Light Castle - Farmer's market place feasibility study	Complete feasibility study																			
10.	AUG - Aquaculture intervention in waterlogged areas	Complete pilot																			

3. Annual Budget Estimate

S.N	Task Name	Quantity	Budget BDT (Lakh)	Budget EUR (K)	Remarks EUR : BDT -> 1 : 86.2898
1	<i>Equitable Water Management</i>				
1.1	Organize UP and WMGs Joint planning meeting	50.00	25.00	28.97	
1.2	Organize Catchment level O&M Planning meeting	100.00	30.00	34.77	
1.3	Organize Polder wise WMA Planning meeting	22.00	13.20	15.30	
1.4	Organize Water and Land Use Planning Workshop	7.00	2.40	2.78	
1.5	WMGs install accounts keeping system and undergo audit	384.00	19.00	22.02	
1.6	Network Building workshop /meeting with LGI	50.00	10.00	11.59	
1.7	Organise EC exchange visits	40.00	20.00	23.18	
1.8	Organize HL sharing Networking workshop at Zonal level	3.00	3.00	3.48	
1.9	Household Surevey & Enrty	9 Polder	25.00	28.97	
1.1	WMOs WAP review and formulation meeting	384.00	16.00	18.54	
1.11	Community Fisheries	40.00	8.00	9.27	
1.12	Infrastructural improvement. (incl design)	TBD	52.80	61.19	Only for new upscaling areas; about 40% will be paid for by the WMOs
1.13	Inputs buying for Rabi & Aman season	TBD	14.30	16.57	Partially financed out of DAE budget (BDT 25,000/FFS group); no provision for existing 10 upscaling areas. Estimates are on the high side, as we got in Year 1 seeds for free from IRRI
1.14	Provide CWM-FFS training through DAE	TBD	12.00	13.91	Fully financed out of DAE budget; no provision for existing 10 upscaling areas
1.15	Horizontal learning visits of neighbouring WMGs to CWM area within polder	TBD	6.60	7.65	Only subsidise travel costs for participants; no provision for existing upscaling areas
1.16	WM/O&M plan dialogues sessions with UPs/others	TBD	1.76	2.04	Only subsidise travel costs for participants; no provision for existing upscaling areas
1.17	Development of promotion and learning materials	TBD	10.41	12.06	Communication strategy budget minus spendings Year 1
1.18	Costs* Aman/Rabi planning workshops and refresher training field staff	TBD	6.00	6.95	General/technical field staff training and curriculum development workshops organised in Year 1, so only planning and refreshers training required in Year 2
1.19	Costs* mini-Facilitator training of SAAOs for Rabi season	TBD	3.00	3.48	TBC with AK; consider 3 batches of 2 days each; part to be paid out of DAE budget

1.2	Extra Staffing for CAWM Area	TBD	4.62	5.35	TA Budget support to extra presence of XO/SO in CAWM areas, not yet used. Other honorarium are financed out of DAE-FFS budget (we contribute to extra biweekly CWM preparation & training meetings for about 100 SAAOs)
1.21	External M&E in CAWM area	TBD	24.98	28.95	Outsourcing to BRAC.. What is left after Year 1
1.22	Freelance support in BGP baseline and output/progress study reports on CAWM areas	TBD	3.48	4.03	Outsourcing, not yet started and not expected before June 2017
1.23	Miscellaneous cost for CAWM	TBD	15.00	17.38	
1.24	CAWM: FFS	TBD	7.70	8.92	Joint planning and implementation by BG Ta and DAE
1.25	Training TA team cost	TBD	18.77	21.75	Horizontal learning, WMO/O&M plan, dialogue session with Ups, Development promotional materials, Planning for Aman and Rabi, Coordination meeting with SAAOs
1.26	Subtotal of EWM	N/A	353.02	409.11	
2	Strengthen Value Chain				
2.1	Strengthening the Capacity of DAE in terms of VC development	TBD	6.72	7.79	
2.2	Integrating production system improvements in our polder development, wherein WMGs take a central place where possible	TBD	49.82	57.74	
2.3	Support Innovations with potential for upscaling in the polder	TBD	0.25	0.29	
2.4	TA FFS: Workshop curriculum poultry/homestead	120.00	126.55	146.66	
2.5	TA demo: Year round crop demo	44.00	6.60	7.65	
2.3	DAE FFS: T.Aman (rice, homestead, nutrition)	138 FFS	104.88	121.54	
2.4	DAE FFS: Rabi (Rabi crops, homestead, nutrition)	150 FFS	114.00	132.11	
2.5	DAE demos:Demos vegetables and Rabi	100.00	15.30	17.73	
2.6	DAE farmer's group support	150.00	30.00	34.77	
2.7	Subtotal SVC	N/A	454.12	526.27	
3	Water Resource Management				
3.1	Embankment Re-sectioning (km)	48.86	496.32	575.18	
3.2	Embankment Retirement (km)	13.50	726.84	842.33	
3.3	Canal Re-excavation (km)	253.52	1,932.54	2,239.59	
3.4	Repair of Sluices (nos.)	98.00	1,624.64	1,882.77	
3.5	Repair of Outlets (nos.)	11.00	66.93	77.57	
3.6	Repair of Inlets (nos.)	49.00	49.31	57.14	
3.7	Construction of Sluices (nos.)	21.00	1,719.00	1,992.12	
3.8	Construction of Outlets (nos.)	11.00	449.74	521.20	
3.9	Construction of Inlets (nos.)	5.00	112.50	130.37	
3.10	Construction of Culverts (nos.)	24.00	149.40	173.14	
3.11	Pump Shed & Stilling Basin (nos.)	6.00	135.00	156.45	
3.12	Low Cost Bank Protection (km)	1.00	76.25	88.37	
3.13	Internal/ Interior Dike (km)	6.00	20.57	23.84	
3.14	Cross Dam (km)	1.00	20.00	23.18	
3.15	Carried Over Works from 2016-17	-	2,061.00	2,388.46	
3.16	Sub Total WRM	-	9,640.04	11,171.71	

4	Environmental & Social Management / Disaster Risk Reduction (DRR)				
4.1	Environmental compliance monitoring and reporting to DoE	TBD	0.42	0.49	
4.2	Facilitate outsourced organization for conduction of EIA and obtaining of ECC	TBD	0.00	0.00	Budget will not be required
4.3	Awareness raising on Disaster Preparedness, WatSan and environmental safeguard through WMOs regular meeting	2.00	2.00	2.32	
4.4	Environment and DRR Day Observance	2.00	3.00	3.48	
4.5	Subtotal Env. & DRR		5.42	6.28	
5	Training & Communication				
5.1	Blue Gold orientation	TBD	7.20	8.34	
5.2	Capacity Building of WMOs	TBD	442.00	512.23	
5.3	Training/ Seminar/ Workshop at Zonal and Central Level	TBD	83.00	96.19	
5.4	Subtotal Training budget		532.20	616.76	
6	Innovations				
6.1	Tender 1: Improved Information in Agriculture	3.00	431.45	500.00	
6.2	Tender 2: Options for Small-Scale Food Processing	3.00	431.45	500.00	
6.3	Deltares: Umbrella contract	1.00	32.44	37.60	
6.4	Deltares: Pump drainage Polder 2	1.00	43.14	50.00	
6.5	ProPortion - Soil testing kits	1.00	12.94	15.00	
6.6	BAU - Germ Plasm Center	1.00	34.52	40.00	
6.7	AUG - Aquaculture in Waterlogged Areas	1.00	34.52	40.00	
6.8	Innovation Fund Project under Review (not yet committed)	6.00	142.38	165.00	
6.9	Sub Total Innovations		1,162.84	1,347.60	
7	Monitoring, Reflection and Learning (MRL)				
7.1	Baseline Phase II	1.00	31.50	36.50	
7.2	MIS Dashboard Development	1.00	22.70	26.31	
7.3	Impact Monitoring	2.00	50.00	57.94	
7.4	MRL Capacity Development	TBD	2.00	2.32	
7.5	Reflection & Learning Meetings	TBD	3.00	3.48	
7.6	Sub Total MRL		109.20	126.55	
	Sub Total (Cluster 1 - 7)		12,256.85	14,204.29	
	Miscellaneous (7%)		857.98	994.30	
	TOTAL		13,114.83	15,198.58	

Annex 1. Tentative Work Plan and Budget for 2017-18 Rehabilitation Works - with Suggested Contract Packages

Option 1: Item Wise Rehabilitation Cost and Suggested Contract Packages for Each Division

BWDB Division	Work Item	Estimate Cost, Lakh BDT	Contractor		LCS		Implementation Years & Budget		
			Amount, LBDT	No. of Packages	Amount, LBDT	No. of Packages	2017-18 LBDT	2018-19 LBDT	2019-20 LBDT
Patuakhali O&M, Patuakhali	Earthwork	1,663	1,247	1	416	42	1,021	642	
	Structure Repair	975	975	1	-	-	509	466	
	Structure Construction	2,441	2,441	2	-	-	940	1,013	488
	Low Cost Bank Protection	-	-	-	-	-	-	-	-
	Sub-Total	5,079	4,663	4	416	42	2,470	2,121	488
Patuakhali WD, Kalapara	Earthwork	466	350	1	117	12	350	117	
	Structure Repair	975	975	1	-	-	488	488	
	Structure Construction	616	616	1	-	-	295	321	
	Low Cost Bank Protection	-	-	-	-	-	-	-	-
	Sub-Total	2,057	1,941	3	117	12	1,132	925	-
Barguna O&M, Barguna	Earthwork	221	166	1	55	6	110	111	
	Structure Repair	74	74	1	-	-	52	22	
	Structure Construction	560	560	1	-	-	180	340	40
	Low Cost Bank Protection	19	19	1	-	-	19	-	-
	Sub-Total	874	819	4	55	6	361	473	40
Khulna O&M -1, Khulna	Earthwork	1,972	1,479	1	493	49	982	990	
	Structure Repair	1,024	1,024	1	-	-	517	507	
	Structure Construction	571	571	1	-	-	204	253	114
	Low Cost Bank Protection	-	-	-	-	-	-	-	-
	Sub-Total	3,567	3,074	3	493	49	1,703	1,750	114
Khulna O&M-2, Khulna	Earthwork	656	492	1	164	16	416	240	
	Structure Repair	50	50	1	-	-	25	25	

	Structure Construction	1,400	1,400	1	-	-	437	683	280
	Low Cost Bank Protection	57	57	1	-	-	57	-	-
	Sub-Total	2,163	1,999	4	164	16	935	948	280
Satkhira O&M-2, Satkhira	Earthwork	635	476	1	159	16	318	318	
	Structure Repair	300	300	1	-	-	150	150	
	Structure Construction	1,260	1,260	1	-	-	510	498	252
	Low Cost Bank Protection	-	-	-	-	-	-	-	-
	Sub-Total	2,195	2,036	3	159	16	978	966	252
New Plan for 2017-18, Lakh BDT		15,935	14,532	21	1,403	141	7,579	7,182	1,174
Carried Over Works from 2016-17:							2,061		
Total Budget for 2017-18, Lakh BDT							9,640		

Option 2: Division Wise Rehabilitation Costs and Suggested Contract Packages Irrespective of Work Items

BWDB Division	Work Item	Estimate Cost, Lakh BDT	Contractor		LCS		Implementation Years & Budget		
			Amount, LBDT	No. of Packages	Amount, LBDT	No. of Packages	2017-18 LBDT	2018-19 LBDT	2019-20 LBDT
Patuakhali O&M, Patuakhali	Earthwork	1,663	1,247	1	416	42	1,021	642	
	Structure Repair	975	975		-	-	509	466	
	Structure Construction	2,441	2,441		-	-	940	1,013	488
	Low Cost Bank Protection	-	-		-	-	-	-	-
	Sub-Total	5,079	4,663	1	416	42	2,470	2,121	488
Patuakhali WD, Kalapara	Earthwork	466	350	1	117	12	350	117	
	Structure Repair	975	975		-	-	488	488	
	Structure Construction	616	616		-	-	295	321	
	Low Cost Bank Protection	-	-		-	-	-	-	-
	Sub-Total	2,057	1,941	1	117	12	1,132	925	-
Barguna O&M, Barguna	Earthwork	221	166	1	55	6	110	111	
	Structure Repair	74	74		-	-	52	22	
	Structure Construction	560	560		-	-	180	340	40
	Low Cost Bank Protection	19	19		-	-	19	-	-
	Sub-Total	874	819	1	55	6	361	473	40

Khulna O&M -1, Khulna	Earthwork	1,972	1,479	1	493	49	982	990	
	Structure Repair	1,024	1,024		-	-	517	507	
	Structure Construction	571	571		-	-	204	253	114
	Low Cost Bank Protection	-	-		-	-	-	-	-
	Sub-Total	3,567	3,074	1	493	49	1,703	1,750	114
Khulna O&M-2, Khulna	Earthwork	656	492	1	164	16	416	240	
	Structure Repair	50	50		-	-	25	25	
	Structure Construction	1,400	1,400		-	-	437	683	280
	Low Cost Bank Protection	57	57		-	-	57	-	-
	Sub-Total	2,163	1,999	1	164	16	935	948	280
Satkhira O&M-2, Satkhira	Earthwork	635	476	1	159	16	318	318	
	Structure Repair	300	300		-	-	150	150	
	Structure Construction	1,260	1,260		-	-	510	498	252
	Low Cost Bank Protection	-	-		-	-	-	-	-
	Sub-Total	2,195	2,036	1	159	16	978	966	252
New Plan for 2017-18, Lakh BDT		15,935	14,532	6	1,403	141	7,579	7,182	1,174
Carried Over Works from 2016-17:							2,061		
Total Budget for 2017-18, Lakh BDT							9,640		

Annex 2. Annual Work Plan Zonal & Polder

2.1 Khulna Zonal Plan

Khulna zone consisted of 5 Upazila and 24 unions. There are 11 Polders among them 3 are IPSWAM Polders, 2 are rehabilitation polder (started in 2014) and others 6 new polders which have started working on 2017. Up to May 2017, 135 WMGs has been formed and got registered by BWDB under Participatory Water Management Rules, 2014. Polder wise 6 WMAs have been formed recently and registration documents has been submitted to BWDB, earlier WMA were formed based on catchment now it has to be formed polder level. Nine (09) polder coordinators have been coordinating 11 polders.. Above 50% of WMGs have raised O&M fund. Community led Agriculture Water Management (CAWM) has established and successfully completed in the FY 2016-17 and some innovative works in CAWM area is also completed. Farmers get benefit regarding water management from next season. 15 CDFs has joined in Khulna on 14th May, 2017 of which 6 are recruited by BWDB. Every month we conduct Zonal meeting regularly and share polder wise progress. A field manual has been produced based on participatory water management which is briefed to the field staff and distributed.

As a result of the decentralisation, the Khulna Zonal Team is managing the field operations now. The Zonal team takes care of regular and effective communication with DAE, BWDB and LGIs.

Lessons learned

The unified working approach has improved the coordination between different experts from different disciplines in BGP and has led to more effective use of staff. Community led Agriculture Water Management (CAWM) is a good initiative for internal water management and it is an classic example of participatory water management as well. We learned that teamwork is a strength which helps moving together and can achieve the success. Involving UP in program can create smooth operational environment as locality is led by UP.

2017/2018 Objectives

Objectives of the zonal planning are as follows:

- Establish a functional and sustainable relation among the stakeholder as well as project
- Reducing overlapping work and ensure quality of work
- Ensuring quality result of all initiatives
- Assist and support to Polder team activities with high professionalism;
- Promote gender equality and Leadership of WMOs;
- Promote collective action, business planning and Linkage with private sector;
- Scaling up community initiatives
- Establish good coordination, collaboration, and build professional relation among the project including implementing agencies and stakeholder.
- Mobilizing and engaging relevant stakeholders and making them emissary of the program.

2017 / 2018 Planned activities

Planned activities:	Why we planned:
▪ Monthly Zonal meeting ▪ Tri-zonal Coordination Meeting ▪ Upazila Briefing Session ▪ Workshops ▪ SVC Group Strategic Workshop ▪ Fingerlings nursery owners capacity building ▪ Exposure visit	▪ Progress review and planning of the zonal activities ▪ Unified work process establish ▪ Better understanding of project activities ▪ Getting unified opinions and result ▪ Strategy for SVC ▪ For supply good quality fingerling in polder areas ▪ Inspiring WMO members ▪ For their capacity building

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target								2017-18												Remarks
Process	Step			BWDB	DAE	DoF/DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A		Organization, Water Management and Coordination																					
	1	Zonal Coordination meeting	12								x	x	x	x	x	x	x	x	x	x	x	x	
	2	Organize Quarterly staffs meeting at zonal level	4										x						x			x	
	3	Conduct Briefing session on BGP at Upazila level	3									x											
	4	Half Yearly report Prepare	22								x						x						
	5	Annual plan review and sharing with Polder team	11													x						x	
	6	Assist catchment level meeting and Planning	48								x	x	x										
	7	Polder Coordination meeting	132								x	x	x	x	x	x	x	x	x	x	x	x	
	8	Attend Tri-Zonal Meeting	4									x			x			x			x		
	9	Organize Exchange Visit for new staffs on CA, HL and Good practices	1								x												
	10	Rapid WMG functionality appraisal	135								x	x	x	x	x	x	x	x	x	x	x	x	
	11	Develop Operational guidance for O&M	1								x												
	12	Conduct Staffs performance Appraisal	All CDFs																		x		
	13	Attend Upazila and district coordination meeting	as required								x	x	x	x	x	x	x	x	x	x	x	x	
	14	O&M agreement Between WMA and BWDB	17																				
	15	Polder Development Planning	1								x	x											
	16	Monthly coordination meeting with SAAO-DAE, BWDB and ZTA on CAWM	12								x	x	x	x	x	x	x	x	x	x	x	x	
	17	Experience sharing visit (HL) at CAWM areas	8												x	x							
	18	New CAWM up scaling areas selection & finalization	10															x	x	x	x	x	

V1 June 2017

V1 June 2017

A. Polder Phasing out Polders

Polder 22

Progress up to now June 2017

A total of 12 WMGs have been established under an umbrella of one WMA. Already 12 WMG got registration from BWDB and WMA registration under process. Total $(3.900 + 0.375)$ km = 4.275 km Re sectioning and Repair of the Embankment already completed. Already 9.265 km Re-excavation of Khal completed. 2 sluice, 3 outlet, 1 inlet repairing already completed. 1 outlet repairing on going and 01 Construction of Inlet also on going.

10 MFS Cropping System and 17 FFS were conducted where 341 male and 334 female farmers were trained up on cropping system and Sesame, Homestead Vegetables, Fish, Poultry and Beef fattening. Two workshops already conducted on Promote Collective action, Business planning and Linkage with Private Sector with WMG and linkage building workshop between RF/ CF/LF/FT & Market actors have been done. WMG level collective action on Moringa and Inputs already started and it will be increases day by day. Collectively participation for embankment repairing also remarkable in polder 22.

Lessons learned

In functional WMG all members shall be active and participating for improved water management Benefits for better production and income shall be equally shared among WMG members. Otherwise a WMG cannot sustain. Through Blue Gold Program different types of activities the polder dwellers can learn new technologies for production, income generation and also participatory water management. Best practices from different activities gradually expanded through horizontal learning. Some collective actions for water management, buying inputs and selling products also benefit the WMG members. If WMG can regularly manage infrastructure properly for better water management they will harvest the benefits from it.

2017 / 2018 objectives

- Assist WMG to be more functional so that they can play a role by themselves for Water Management.
- Establish a functional WMA
- Improve performance of the WMGs for infrastructure management, OM and CA's
- Develop Gender and Leadership among the WMG members.
- Include members of WMGs in UP standing committee;
- Promote collective action, business planning and Linkage with private sector.
- Linkage establishment among RF, CF, LF, FT and market actors; and
- Establish strong relations with DAE, DLS, DoF, UPs, WMGs and BWDB officials.

2017/2018 Planned activities

Planned activities:

- WMA Registration
- O & M sub-committee formation
- Promote and implement identified new CAs with WMGs
- Continue assisting WMGs
- Conduct Training on GLD and O&M
- O&M Agreement between WMA and BWDB
- O&M Plan and Implementation
- Inclusion of WMGs members in the UP Standing Committee
- Participatory monitoring in 12 WMGs
- Repair of sluice
- Form and strengthening the producers group to promote the collective action at WMO's level
- Conduct a session/meeting for MFS members and Non-MFS members for networking and new CA
- Phasing out Meeting with polder level stakeholders.

Why we do what we do:

- Make the WMG functional.
- Operate and maintain the sluices and other structure for water management
- Participatory Water management through WMG
- Linkage with market actors/ Service providers, price negotiation and CA
- Status analysis, provide final direction and to say goodbye.
- Continue the operation and maintenance after departure of Blue Gold
- Take part in decision making for different polder development activities.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target								2017-18												Rationale
Process	Step			BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A		Organization and Water Management/O&M																					
	1	Assist in WMA Registration	1								X	X											
	2	Assist in Catchment level O&M subcommittee formation	7								X	X											
	3	Assist to organize Catchment level O&M Planning meeting	7																				
	4	Assist to organize Polder wise WMA Planning meeting	1								X												
	5	Assist to organize Quarterly meeting of WMGs	12									X			X								
	6	Organise UP and WMG joint Planning meet	1								X												
	7	Organise CA exchange visits/horizontal learning on O&M, business on seed production	2								X	X											
	8	Promote and implement identified new CAs with WMGs	6								X	X	X	X									
	9	Assist to collect O&M fund in WMGs (12 WMGs X 2000/- = BDT 24000)	24,000/-								X	X	X										
	10	Assist in Savings deposition in 12 WMGs	48,000/-								X	X	x	X	X	x							
	11	Assist to Operate collective IGA in WMGs	4 WMGs								X	X	x	X	X	x							
	12	Assist to operate Individual IGA in WMG level	8 WMGs								X	X	x	X	X	x							
	14	Conduct O & M training for WMAs (3 days)	1 batches												x								
	15	Conduct training on Gate Operation of sluices	1 batch												x								
	17	O&M Agreement between WMA and BWDB	1									X											

V1 June 2017

Private sector

At the same meeting of Joint Planning Workshop

Polder 26

Progress up to now June 2017

Polder 26 is situated under Dumuria Upazila. In this polder a total of 15 WMGs has been formed. One WMA has been formed within the 15 WMGs. In this polder 4 catchment areas were identified. Total 32 FFSs were formed within the 15 WMGs. Learning sessions were conducted on fish culture, beef fattening, poultry, vegetables and nutrition where 800 male and female farmers were trained up. Different infrastructure related activities are going on, i.e. sluice gate, embankment, canal. Total 33 LCS worked in the infrastructure section. Different inputs i.e. vegetables seed, fertilizers, ducklings; fingerlings were distributed to the FFS farmers.

Lessons learned

The participation of WMG members in all activities of WMG makes the WMG sustainable. WMG members are empowered in planning, organising and decision making process. They have strong communication, liaison, and network with UP, CBOs, DAE, DoF and BWDB which helps them to make a functional WMG.

In this polder BGP facilitated 32 FFS and implementing different activities in the polder level. O & M fund were collected from the WMGs.

2017 / 2018 objectives

It's a phase-out Polder. Objectives of the of this planning are as follows:

- Establish a functional WMA;
- Improve performance of the WMGs;
- Develop Gender and Leadership;
- Linkage establishment among CF, LF, and market actors;
- Establish strong relations with UPs, WMGs and BWDB, DoF, DLS and DAE officials.

2017/2018 Planned activities

Planned activities:

- One WMA formation and Registration
- O & M sub-committee formation
- Promote and implement identified new CAs with WMGs
- Continue assisting WMGs
- Conduct Training on GLD and O&M
- O&M Agreement between WMA and BWDB
- O&M Plan and Implementation
- Inclusion of WMGs members in the UP Standing Committee
- Participatory monitoring in 15 WMGs
- Form & Mobilize the WMA level Monitoring committee
- Repair of sluice
- Phasing out Meeting with polder level stakeholders.

Why we do what we do:

- Maintain the functionality of WMOs
- Operate and maintain the sluices for water management
- Better performance of the WMOs
- Operate the sluices smoothly
- Take part in decision making for polder development activities
- Observe the status of the WMGs
- Keep the WMA in right track and also to advise
- Proper water management
- Linkage, discussion, negotiation and Intervention designing
- Status analysis, provide final direction and to say goodbye.

Annual Work Plan with timeline

SI	Process	Step	Description of the Unified Work Process and Steps	Target								2017-18												Rationale
					BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A			Organization and Water Management/O&M																					
		1	Assist in WMA Registration	1								X	X											
		2	Assist in Catchment level O&M subcommittee formation	7								x	x											
		3	Assist to organize Catchment level O&M Planning meeting	7																				
		4	Assist to organize Polder wise WMA Planning meeting	1									x											
		5	Assist to organize Quarterly meeting of WMGs	12										x			x							
		6	Organize UP and WMG joint Planning meet	1								x												
		7	Organise CA exchange visits/horizontal learning on O&M, business on seed production	2								x		x										
		8	Promote and implement identified new CAs with WMGs	6								x		x	x	x								
		9	Assist to collect O&M fund in WMGS (12 WMGs X 2000/- = BDT 24000)	24,000/-								x	x	x										
		10	Assist in Savings deposition in 12 WMGs	48,000/-								X	X	x	X	X	x							
		11	Assist to Operate collective IGA in WMGs	4 WMGs								X	X	x	X	X	x							
		12	Assist to operate Individual IGA in WMG level	8 WMGs								X	X	x	X	X	x							
		14	Conduct O & M training for WMAs (3 days)	1 batches												x								
		15	Conduct training on Gate Operation of sluices	1 batch												x								
		17	O&M Agreement between WMA and BWDB	1									x											
		18	Assist in Regular catchment level water management and O&M Plan review and Implementation	8								x	X		x	X								

Annual Work Plan July 2017 – June 2018

At the same meeting of Joint Planning Workshop

Polder 30

Progress up to now June 2017

A total of 40 WMGs have been established under an umbrella of one WMA. A WMA office has also been established in the polder. WMGs have been taught how to keep accounts. O & M fund have been raised of 30 WMG out of 40. Two workshops -one with WMO to Promote Collective action, Business planning and Linkage with Private Sector and another one on linkage workshop between RF/ CF/LF/FT & Market actors have been done. Sixty MFSs were conducted (cropping system -24, Poultry- 12 and Sesame- 24) where 1500 male and female farmers were trained up on cropping system, Poultry and Sesame. On the other hand a total of 53 FFSs were conducted on fish culture, beef fattening, poultry, vegetables and nutrition where 1325 male and female farmers were trained up. In collaboration with BAU eight demonstration plots of dragon fruit have been established and they are fruiting and extended. In 2017 Blue Gold has distributed 2400 ducklings and 800 fruit tree saplings.

A total of 17.10 Km canal was Re-excavated and 15.87 kl embankment was re-sectioned. Five sluices have been repaired and repairing of another three is going on.

Lessons learned

Based on the above section, describe lessons learned. Please be brief. Lessons learned need to be as specific as possible.

The strong organizational committee can hold a functional WMG where the members of the WMG get the equal benefit. Otherwise a WMG cannot sustain. Blue Gold implementing different activities in the polder level among which the activities through which members of WMG getting benefit are sustaining; e.g. beef fattening, new crop introduction, poultry rearing through improved methods are sustaining in the polder. Some collective actions sustain through which the members of WMG get benefits.

2017 / 2018 objectives

It's a phase-out Polder. Objectives of the of this planning are as follows:

- Establish a functional WMA;
- Improve performance of the WMGs;
- Develop Gender and Leadership;
- Include members of WMGs in UP standing committee;
- Promote collective action, business planning and Linkage with private sector;
- Linkage establishment among RF, CF, LF, FT and market actors; and
- Establish strong relations with UPs, WMGs and BWDB and DAE officials.

2017/2018 Planned activities

Planned activities:

- Polder wise WMA formation and Registration
- O & M sub-committee formation
- Promote and implement identified new CAs with WMGs
- Continue assisting WMGs
- Conduct Training on GLD and O&M
- O&M Agreement between WMA and BWDB
- O&M Plan and Implementation
- Inclusion of WMGs members in the UP Standing Committee
- Participatory monitoring in 40 WMGs
- Form & Mobilize the WMA level Monitoring committee
- Repair of sluice
- VC Actors meeting with WMO for Linkage, Discussion negotiation and Intervention designing
- Phasing out Meeting with polder level stakeholders.

Why we do; what we do:

- Maintain the functionality of WMOs
- Operate and maintain the sluices for water management
- Harvest maximum benefit and hold the unity of WMGs
- Better performance of the WMOs
- Lead the WMG in the right track
- Do the operation and maintenance after departure of Blue Gold
- Operate the sluices smoothly
- Take part in decision making for polder development activities
- Observe the status of the WMGs
- Keep the WMA in right track and also to advise
- Proper water management
- Linkage, Discussion negotiation and Intervention designing
- Status analysis, provide final direction and slowly phase out.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target								2017-18												Remarks
Process	Step			BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A		Organization and Water Management/O&M																					
	1	Assist in WMA Registration	1								x												
	2	Assist in Catchment level O&M subcommittee formation	11								x	x											
	3	Assist to organize Catchment level O&M Planning meeting	11																				
	4	Assist to organize Polder wise WMA Planning meeting	1									x											
	5	Assist to organize Quarterly meeting of WMGs	40										x			x							
	6	Organize UP and WMGs joint planning meeting	2 UPs								x												
	7	Assist to WMA to Participate in Upazila coordination meeting	6								x	x	x	x	x	x							
	8	Organise CA exchange visits/horizontal learning on O&M, business on seed production	2								x		x										
	9	Promote and implement identified new CAs with WMGs	4								x		x	x	x								
	10	Assist to collect O&M fund in WMGs (30 WMGs X 2000/- = BDT 60000)	60,000/-								x	x	x										
	11	Assist in Savings deposition in 40 WMGs	100,000/-								x	x	x	x	x	x							
	12	Assist to Operate collective IGA in WMGs	5 WMGs								x	x	x	x	x	x							

V1 June 2017

V1 June 2017

Annual Work Plan July 2017 – June 2018

Polder 29

Progress up to now June 2017

A total of 56 WMGs have been established under two umbrellas of two WMAs. WMAs have their own office buildings. WMGs have been taught how to keep accounts. O & M fund have been raised of 35 WMG out of 56. Two workshops -one with WMO to Promote Collective action, Business planning and Linkage with Private Sector and another one on linkage workshop between RF/ CF/LF/FT & Market actors have been done. Fifteen MFSs were conducted (cropping system -7 and Sesame- 8) where 200 male and female farmers were trained up on cropping system and Sesame. On the other hand a total of 56 FFSs were conducted on fish culture, beef fattening, poultry, vegetables and nutrition where 1550 male and female farmers were trained up. In collaboration with BAU 11 demonstration plots of dragon fruit have been established and they are fruiting and extended. In 2017 Blue Gold has distributed 600 ducklings and 200 fruit tree saplings.

A total of 17.71 km embankment was re-sectioned and repairing of three sluices is going on.

Lessons learned

Based on the above section, describe lessons learned. Please be brief. Lessons learned need to be as specific as possible.

The strong organizational committee can hold a functional WMG where the members of the WMG get the equal benefit. Otherwise a WMG cannot sustain. Blue Gold implementing different activities in the polder level among which the activities through which members of WMG getting benefit are sustaining; e.g. beef fattening, new crop introduction, poultry rearing through improved methods are sustaining in the polder. Some collective actions sustain specially and significantly on Moring through which the members of WMG get benefits.

2017 / 2018 objectives

It's a phase-out Polder. Objectives of the of this planning are as follows:

- Establish a functional WMA;
- Improve performance of the WMGs;
- Develop Gender and Leadership;
- Include members of WMGs in UP standing committee;
- Promote collective action, business planning and Linkage with private sector;
- Linkage establishment among RF, CF, LF, FT and market actors; and
- Establish strong relations with UPs, WMGs and BWDB and DAE officials.

2017/2018 Planned activities

Planned activities:

- Polder wise WMA formation and Registration
- O&M sub-committee formation
- Promote and implement identified new CAs with WMGs
- Continue assisting WMGs
- Conduct Training on GLD and O&M
- O&M Agreement between WMA and BWDB
- O&M Plan and Implementation
- Inclusion of WMGs members in the UP Standing Committee
- Participatory monitoring in 40 WMGs
- Form & Mobilize the WMA level Monitoring committee
- Repair of sluice
- VC Actors meeting with WMO for Linkage, Discussion negotiation and Intervention designing
- Phasing out Meeting with polder level stakeholders.

Why we do; what we do:

- Maintain the functionality of WMOs
- Operate and maintain the sluices for water management
- Harvest maximum benefit and hold the unity of WMGs
- Better performance of the WMOs
- Lead the WMG in the right track
- Do the operation and maintenance after departure of Blue Gold
- Operate the sluices smoothly
- Take part in decision making for polder development activities
- Observe the status of the WMGs
- Keep the WMA in right track and also to advise
- Proper water management
- Linkage, Discussion negotiation and Intervention designing
- Status analysis, provide final direction and to say goodbye.

Annual Work Plan with timeline

SI	Process	Step	Description of the Unified Work Process and Steps	Target								2017						2018						Remarks
					BWDB	DAE	DoF/DLS	LGI	Core Group/Union	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A			Organization and Water Management/O&M																					
		1	Assist in WMA Registration	2								X	X											
		2	Assist in Catchment level O&M subcommittee formation	11								X	X											
		3	Assist to organize Catchment level O&M Planning meeting	11																				
		4	Assist to organize Polder wise WMA Planning meeting	2									X											
		5	Assist to organize Quarterly meeting of 56 WMGs	112										X			X							
		6	Organize UP and WMGs Joint planning meeting	4 Ups								X												
		7	Assist to WMA to Participate in Upazila coordination meeting	6								X	X	X	X	X	X							
		8	Organise CA exchange visits/horizontal learning on O&M, business on seed production	3								X		X										
		9	Promote and implement identified new CAs with WMGs	2								X		X	X	X								
		10	Assist to collect O&M fund in WMGS (25 WMGs X 2000/- = BDT 50000)	50,000/-								X	X	X										
		11	Assist in Savings deposition in 56 WMGs	200,000/-								X	X	X	X	X	X							
		12	Assist to Operate collective IGA in WMGs	3 WMGs								X	X	X	X	X	X							
		13	Assist to operate Individual IGA in WMG level	30 WMGs								X	X	X	X	X	X							
		14	Conduct Training on GLD	11 batches										X	X	X	X							
		15	Conduct O & M training for WMA (3 days)	2 batches												X								
		16	Conduct training on Gate Operation of sluices	1 batch												X								

V1 June 2017

V1 June 2017

Polder 31 Part

Progress up to now June 2017

A total of 12 WMGs have been established under an umbrella of one WMA. Already 12 WMG got registration from BWDB and WMA registration under process. 8.622 km Embankment Re sectioning already completed and another 2.700 Km on going. Already 10.645 km Re-excavation of Khal completed and another 11.275 km on going. One Inlet and One sluice construction on going and four repairing of sluice also on going. Four MFS Cropping System and 14 FFS were conducted where 161 male and 289 female farmers were trained up on cropping system and Sesame, Homestead Vegetables, Fish, Poultry and Beef fattening. Two workshops already conducted on Promote Collective action, Business planning and Linkage with Private Sector with WMG and linkage building workshop between RF/CF/LF/FT & Market actors have been done. WMG level collective action on Moringa and Inputs already started and it will be increases day by day. LCS works already completed successfully and especially female participation in LCS work was very inspiring.

Lessons learned

A functional WMG where the members are active and participating for improved water management there all the WMG members get the equal benefits for better production and income. Otherwise a WMG cannot sustain. Through Blue Gold Program different types of activities the polder dwellers can learn new technologies for production, income generation and also participatory water management. Best practices from different activities gradually expanded through horizontal learning. Some collective actions for water management, buying inputs and selling products also enhance WMG members befitted. If WMG can regularly manage infrastructures properly for better water management they will get befits properly.

2017 / 2018 objectives

Objectives of the of this planning are as follows:

- Assist WMG to be more functional so that they can play a role by themselves for Water Management.
- Establish a functional WMA
- Improve performance of the WMGs for infrastructure management, OM and CA's
- Develop Gender and Leadership among the WMG members.
- Include members of WMGs in UP standing committee;
- Promote collective action, business planning and Linkage with private sector.
- Linkage establishment among RF, CF, LF, FT and market actors; and
- Establish strong relations with DAE, DLS, DoF, UPs, WMGs and BWDB officials.

2017/2018 Planned activities

Planned activities:

- WMA Registration
- O & M sub-committee formation
- Promote and implement identified new CAs with WMGs
- Continue assisting WMGs
- Conduct Training on GLD and O&M
- O&M Agreement between WMA and BWDB
- O&M Plan and Implementation
- Inclusion of WMGs members in the UP Standing Committee
- Participatory monitoring in 12 WMGs
- Repair of sluice
- Form and strengthening the producers group to promote the collective action at WMO's level
- Conduct a session/meeting for MFS members and Non-MFS members for networking and new CA
- Phasing out Meeting with polder level stakeholders.

why we do what we do:

- Make the WMG functional.
- Operate and maintain the sluices and other structure for water management
- Participatory Water management through WMG
- Linkage with market actors/ Service providers, price negotiation and CA
- Status analysis, provide final direction and to say goodbye.
- Continue the operation and maintenance after departure of Blue Gold
- Take part in decision making for different polder development activities.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target									2017-18												Rationale
Process	Step			BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J		
A		Organization and Water Management/O&M																						
	1	Assist in WMA Registration	1							X														
	2	Assist in Catchment level O&M subcommittee formation	8							X	X													
	3	Assist to organize Catchment level O&M Planning meeting	8																					
	4	Assist to organize Polder wise WMA Planning meeting	1								X													
	5	Assist to organize Quarterly meeting of WMGs	12									X			X									
	6	Organize UP and WMG joint Planning meet	6							X														
	7	Organise CA exchange visits/horizontal learning on O&M, business on seed production	2							X		X												
	8	Promote and implement identified new CAs with WMGs	6							X		X	X	X										
	9	Assist to collect O&M fund in WMGS (12 WMGs X 2000/- = BDT 24000)	24,000/-							X	X	X												
	10	Assist in Savings deposition in 12 WMGs	48,000/-							X	X	X	X	X	X									
	11	Assist to Operate collective IGA in WMGs	4 WMGs							X	X	X	X	X	X									
	12	Assist to operate Individual IGA in WMG level	8 WMGs							X	X	X	X	X	X									
	13	Conduct Training on GLD	6 batches									X	X	X	X									
	14	Conduct O & M training for WMAs (3 days)	1 batches											X										
	15	Conduct training on Gate Operation of sluices	1 batch											X										

V1 June 2017

V1 June 2017

B. Phase in Polders

BGP have learned lessons for Phase in Polders in Khulna from KJRDP project. The main findings of that project were:

- During and after the exit of the KJRDP project, few community people were benefited individually. Only WMA was little bit active as because they have some funds but WMA never supervise the WMG's activities and as a result all WMGs were inactive.
- We learned that if Union Parishad helps the formation process of WMGs then WMGs might work very easily and community involvement could be remarkable.
- It is easy to form ad-hoc committee as well as form the WMG executive bodies, if LGI representatives are present in community led development activities.
- Engineering consultation meeting and inception workshop helps us to improve the positive response of communities towards project, if it is started from the beginning of the project period.

2017/2018 Objective

- The main objective of this plan is to have a clear guideline and provision for internal discussion in the Blue Gold TA team and the implementing agencies (BWDB and DAE).
- Planned activities are very much linked with Blue Gold's logical frameworks, so that it helps to achieve the overall program objectives.
- This plan helps WMGs a base for developing their own WMG Action Plans (WAP).
- This plan helps to establish good coordination, collaboration, and build professional relation among the project including implementing agencies and stakeholder.
- This plan helps to improve the participatory water management system by empowering the WMOs.

2017 / 2018 Overall Planned Activities

Activities	Why we do	What we do
Facilitating Collective Actions, Polder Planning and WMG formation with registration	To effectively manage water infrastructural facilities in the polder area.	- HHs survey. - Ad-hoc committee formation. - Member's enrolment. - Form active EC bodies at WMG's
WMA/WMG Functioning & strengthening	- To ensure sustainable water management led by WMOs. - To implement all activities efficiently and effectively.	- Facilitate WAP. - Capacity enhance of Executive bodies. - Community mobilization - Fund generation - Events organize.
Infrastructure Development	- To secure life and livelihoods by protect river bank erosion and flash flood in the polder area. - To reduce waterlogging problem and improve the drainage facilities in the polder area.	- Re sectioning of embankment. - Constructed sluice gate, inlet-outlet.
Agriculture production and Business Development	- To establish network and make business relation among the VC actors. - To introduce new agricultural technology as a mean of income generation. - To promote collective action.	- VC product selection. - Actor list preparation. - Workshops organize. - Training facilitates. - Demonstration set up

Polder 25

Polder 25 is under Khulna BWDB O&M division-1 and was constructed during 1963-67 and later on was rehabilitated under the KJDRP project from in early 1996 to 31 December 2002. It is surrounded by 61 Km embankment. There are 17 sluice in polder areas but 6 Sluices outfall dead. Polder 25 consisted of 10 unions such as Khornia, Rudaghora, Rughunathpur, Dhamalia and Rangpur unions in Dumuria Upazila; Damudor, Jamira and Atra Gilatola (P) union in Fultola Upazila; and Arongghata (P) and Jogipol (P) union in Digholia Upazila under Khulna district. The gross area is 17400 ha and benefitted cultivation land is 14379 ha. The major land types of this polder are High land 27%, Medium Land 26% and Low land 47%. Polder dwellers are involved in crop production and fish culture. Livestock rearing. There are about 114 recognizable khals with branches and having a total length of above 299.00 km.

Institutional Framework for Participatory Water Management

Polder 25 situated in the two Zone-A & D of Khulna-Jessore Drainage Rehabilitation Project (KJDRP). In this Zone a total of 65 WMGs (A=41, D=24) and two WMA were formed in the year 1996 & 1997 by KJDRP. Among them 12 (Twelve) WMGs has got registration by BWDB with condition to fulfill 55% enrollment within six month but yet not achieve the target. Maximum WMGs are inactive. So it is very difficult to work with the WMO. Blue Gold Program has been starting work in 1st January, 2017. After starting BGP deployed field staffs (CDFs), community immersion through mass meeting, small meeting, court yard session and one to one contact. Intensive program dissemination with Program Orientation in 10 union Parishad & GoB representatives, identified existing 13 nos collective action work and formed 11 core group, Made 10 Unions Map where is indicated all infrastructure and others important issues. We have Re-fixation of WMG boundary where was involved BWDB, LGIs, DAE, key informant and existing WMGs active leaders. Considering the all aspect (Hydraulically, Social and HHs & administration) WMGs has finalized 60 WMGs. Up to May 2017. We formed 11 Ad-hoc committee and members' enrollment ongoing. .

Infrastructure Development

Prioritized the infrastructure work through consultation meeting. We conducted 7 meeting where was present BWDB, DAE, LGIs and Key informants. No infrastructure has been developed by Blue Gold Program in the FY 2016-17. This is new Polder for Blue Gold Program and began to work 1st January 2017 but this year Re-sectioning of embankment 6.4 km has estimated vetting completed. Tender under processing as reported.

Agricultural & Business Development:

We have started FFS in 21 WMGs on Beef fattening, Fish Culture and Nutrition. and Community led Fisheries 4 site has selected (3 Ponds & 1 Khal). Under business development activities, we have started collective action on Moringa, Milk and Vegetable in 3 WMGs, collected & prepared input provider list in our Polder area, trial plot selected for promote cropping intensity as a mean of income generation, and selected some producers groups for implementing the collective action activities. We have also plan to organize linkage building workshop among the different market actors, capacity building training for actors (RF/IPs), demonstration activities and promotion of collective action.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target									2017-18												Remarks
Process	Step			BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J		
A		Facilitating Collective Actions, Polder Planning and WMG formation with registration																						
	1	Identify and support existing collective actions (CA) and liaise with their leadership	40							x	x	x	x	x	x	x	x	x	x	x	x			
	2	Conduct walk-through, mapping with CA leadership & key informants	30									x						x				x		
	3	Form core group of interested CA leadership and organise horizontal learning	60							x	x	x	x											
	4	Organize Water and Land Use Planning Workshop	7								x													
	5	Conduct Household Survey	60							x						x								
	6	Assist Core Group to form of Ad-hoc Committee.	24												x							x		
	7	Assist to Ad-hoc committee enrol minimum 55% Household	60							x	x	x	x											
	8	Assist to WMG Enrol at least 40% women of WMG general membership	60							x	x	x	x	x	x	x	x	x	x	x	x			
	9	Assist Include at least 33% women in WMG EC membership	60								x			x			x				x			
	10	Assist Election of WMG Executive Committee	60								x	x	x											
	11	Assist tot WMGs for submitting Registration documents	60									x	x	x										
B		WMA Formation and Registration								x	x	x	x	x	x	x	x	x	x	x	x			
	1	Assist Ad-hoc Committee formation (Polder Wise)	2												x									
	2	Assist WMA Executive Committee formation	2														x							
	3	Assist WMA registration documents submit to BWDB	2															x						

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V1 June 2017

Polder 27/1

27/1 polder It has covered 04 unions. In North West Roghunathpur, In west Khornia, In east and south Gutudia and most of the area coverage by Dumuria Sadar union. It's around 43 km embankment. Drainage sluice is 05 (04 is active). We did transit work, find out infrastructure including khal, sluice, main Calvert and also find out water logged area. We worked on mapping the cropping pattern, we did functionality assessment meetings, and by doing so we identified on-going collective actions and existing core groups. We found and physically proved WMG boundaries, Input providers, output sellers and floating sellers in the polder areas. We did serious of court yard meeting, village meeting, WMG boundary selection meeting, We identified key informers and we developed polder development plans (PDPs). We have established an effective linkage between the WMGs and Union parishad and mobilized the community in the polder area for water management.

We observed disaster preparedness week and daily newspaper has published that news. We have made catchment wise map, water logging map, cropping pattern map, Khals map, WMG boundary map. We made Blue Gold program publicity in different forum. We planned up to last day of this month we will accomplished 15 Ad- Hoc committee. We selected WMGs for FFS (03) and DAE blue Gold (01) and connecting it social meeting, as per criteria we selected farmers and later we did BBT and problem analysis. Ponds and khals were selected for fishery. Community people and union parishad are highly interested to work on water management and the belonging the ownership of Blue Gold program. Here we have a mutual faith and strong inter personal relationship WMOs, BWDB, DAE and Ups. The largest success is that we managed to get the Union Parishad actively involved in BGP activities in this polder.

Institutional Framework for Participatory Water Management:

By doing a boundary selection meeting we formed 15 WMGs with the participation of UP & WMG representatives. We have made a very good linkage with Union parishad and together mobilizing community in the polder area for water management. Blue Gold Program has been starting work in 1st January, 2017 by deploying field staff (CDFs). During this period, we successfully accomplished the union inception workshop to establish a common understanding towards the Blue Gold project and we conducted a motivational meeting (courtyard meeting) with WMGs. Very recently we started ad-hoc committee formation meeting after finalizing the WMGs boundary and already started members' enrolment on a priority basis. Also we developed the Polder map by indicating WMG's location & Mouza, waterlogging map and cropping pattern map. We had planned to start the HHs survey, but did not accomplish this as the required human resources were not available. .

Infrastructure Development

Water management facilities of Polder 28/1 are fully interrupted due to silted canals and inactive sluice gates. Some fishermen (Gher owner) and some influencing people who illegally occupied canals made some barriers to planning for construction of water infrastructure. During this period we successfully accomplished engineering consultation meeting for find out the work of water infrastructure development. After consultation meeting we have planned.

Retd. Embankment	4 km
Re-sectioning of embankment	29 km
Re-excavation of Khal	5 Nos.
Repair of sluice	6 km
Low cost Bank protection	1 km.

Agricultural & Business Development:

We have started FFS activities in 3 WMGs on Beef fattening, Fish Culture and Nutrition, and 2 ponds selected for start Community led Fisheries. Under business development activities, we have started collective action on Moringa in 3 WMGs, collected & prepared input provider list in our Polder area, trial plot selected for promote cropping intensity as a means of income generation, and selected some producers groups for implementing the collective action activities. We have also plan to organize linkage building workshop among the different market actors, capacity building training for actors (RF/IPs), demonstration activities, collective action promotion activities etc.

Annual Work Plan with timeline

SI			Target								2017-18												Remarks
Process	Step	Description of the Unified Work Process and Steps		BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A		Facilitating Collective Actions, Polder Planning and WMG formation with registration																					
	1	Identify and support existing collective actions (CA) and liaise with their leadership	15								x	x	x	x	x	x	x	x	x	x	x	x	
	2	Conduct walk-through, mapping with CA leadership & key informants	15										x						x			x	
	3	Form core group of interested CA leadership and organise horizontal learning	15								x	x	x	x									
	4	Organize Water and Land Use Planning Workshop	1									x											
	5	Conduct Household Survey	15								x						x						
	7	Assist to Ad-hoc committee enrol minimum 55% Household	15								x	x	x	x									
	8	Assist to WMG Enrol at least 40% women of WMG general membership	15								x	x	x	x	x	x	x	x	x	x	x	x	
	9	Assist Include at least 33% women in WMG EC membership	15									x			x			x			x		
	10	Assist Election of WMG Executive Committee	15									x	x	x									
	11	Assist tot WMGs for submitting Registration documents	15										x	x	x								
B		WMA Formation and Registration									x	x	x	x	x	x	x	x	x	x	x	x	
	1	Assist Ad-hoc Committee formation (Polder Wise)	1												x								
	2	Assist WMA Executive Committee formation	1															x					
	3	Assist WMA registration documents submit to BWDB	1																x				
C		Functioning & strengthening of WMGs									x	x	x	x	x	x	x	x	x	x	x	x	

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Annual Work Plan July 2017 – June 2018

Polder 27/2

27/2 polder It has covered 3 unions. In North West In west Khornia, in east and south Gutudia and most of the area coverage by Dumuria Sadar union. It's around 18.2km embankment. Drainage sluice is 03(02 is active). We did transit work, find out infrastructure including khal, sluice, main culvert and also find out waterlogged area. We worked on identifying the cropping pattern, we did functionality assessment meetings and by doing that we tried to what is the current condition collective actions and find out core groups, We found and physically proved WMG boundaries, Input providers, output sellers and floating sellers in the polder areas. We facilitated the organisation of courtyard meeting, village meetings and WMG boundary selection meetings. We found out key informants and also we drafted the polder development plan (PDP). We have established an effective linkage with the Union parishad and together with them we mobilized the community in the polder area for water management.

We observed disaster preparedness week and the daily newspaper has published that news. We have made catchment wise map, waterlogging maps, cropping pattern maps, Khals maps, WMG boundary maps and collectively moringa selling (one WMG). We made Blue Gold program publicity in different forum. We planned up to last day of this month we will accomplished 06 Ad- Hoc committee. We selected WMGs for FFS (03) and DAE blue Gold (02) and connecting it social meeting, as per criteria we selected farmers and later we did BBT and problem analysis. . Community people and union parishad are highly interested to work on water management and the belonging the ownership of Blue Gold program. Here we have a mutual faith and strong inter personal relationship with WMOs, BWDB, DAE and UPs.

Institutional Framework for Participatory Water Management:

Through a boundary selection meeting we formed 06 WMGs although during KJDRP it was number 05. We have made an effective linkage with Union parishad and together mobilizing community in the polder area for water management. Blue Gold Program has been starting work in 1st January, 2017 by deployed field staffs (CDFs). During this period, successfully accomplished union inception workshop for make common understanding towards Blue Gold project, and conducted motivational meeting (courtyard meeting) with WMGs. Very recently started ad-hoc committee formation meeting after finalization of the WMGs boundary and already started members' enrolment as priority basis. Also we developed the Polder map by indicating WMG's location & Mouza, waterlogging map and cropping pattern map. We had planned to start the HHs survey, but did not accomplish this as the required human resources were not available.

Infrastructure Development

Water management facilities of Polder 27/2 are fully interrupted due to Silted canal and inactive sluice gates. Some fishermen (Gher owner) and some influencing people who illegally occupied canals created barriers for planning of water infrastructure construction. During this period we successfully accomplished engineering consultation meeting for find out the work of water infrastructure development.

Re-sectioning of embankment (carried over)	4 km.
Re-excavation of Khal	9.5 km.
Repair of sluice	3 Nos.

Agricultural & Business Development:

We have started FFS activities in 3 WMGs on Beef fattening, Fish Culture and Nutrition, and 2 ponds selected for start Community led Fisheries. Under business development activities, we have started collective action on Moringa in 3 WMGs, collected & prepared input provider list in our Polder area, trial plot selected for promote cropping intensity as a mean of income generation, and selected some producers groups for implementing the collective action activities. We have also plan to organize linkage building workshop among the different market actors, capacity building training for actors (RF/IPs), demonstration activities, collective action promotion activities etc.

Annual Work Plan with timeline

SI											2017-18												Remarks
Aprocess	Step	Description of the Unified Work Process and Steps	Target	BWDB	DAE	DoF/DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
		Facilitating Collective Actions, Polder Planning and WMG formation with registration																					
	1	Identify and support existing collective actions (CA) and liaise with their leadership	6								x	x	x	x	x	x	x	x	x	x	x	x	
	2	Conduct walk-through, mapping with CA leadership & key informants	6										x						x			x	
	3	Form core group of interested CA leadership and organise horizontal learning	6								x	x	x	x									
	4	Organize Water and Land Use Planning Workshop	1									x											
	5	Conduct Household Survey	6								x						x						
	8	Assist to WMG Enrol at least 40% women of WMG general membership	6								x	x	x	x	x	x	x	x	x	x	x	x	
	9	Assist Include at least 33% women in WMG EC membership	6									x			x			x			x		
	10	Assist Election of WMG Executive Committee	6									x	x	x									
	11	Assist tot WMGs for submitting Registration documents	6										x	x	x								
B		WMA Formation and Registration									x	x	x	x	x	x	x	x	x	x	x	x	
	1	Assist Ad-hoc Committee formation (Polder Wise)	1												x								
	2	Assist WMA Executive Committee formation	1															x					
	3	Assist WMA registration documents submit to BWDB	1																x				
C		Functioning & strengthening of WMGs									x	x	x	x	x	x	x	x	x	x	x	x	

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Polder 28/1

Polder 28/1 was constructed in 1966-71 by the Bangladesh Water Development Board (BWDB) and later on was rehabilitated under the KJDRP project from 1996 to 2002. The polder covers a big portion of Gutudia union under Dumuria Upazila and small portion of Jalma union under Batiaghata upazila of Khulna district. The polder is surrounded by the Upper Sholmari (west) and Moury (east) rivers. Total length of embankment of this Polder is 32.2 km with estimated cultivable land is 3660 ha, flashing sluice is 06 and length of canal is 76 km among which 6 main canal and others 36 canal is secondary and tertiary.

Institutional Framework for Participatory Water Management:

Previously it was 14 WMGs under KJDRP project among them 12 was registered but all are inactive considering functionality and now it is 8 WMGs after conducted boundary selection meeting with the participation of UP & WMG's representative. We have made a very good linkage with Union parishad and together mobilizing community in the polder area for water management. Blue Gold Program has been starting work in 1st January, 2017 by deployed field staffs (CDFs). During this period, successfully accomplished union inception workshop for make common understanding towards Blue Gold project, and conducted motivational meeting (courtyard meeting) with WMGs. Very recently started ad-hoc committee formation meeting after finalized the WMG boundaries and already started members' enrolment as priority basis. Also we developed the Polder map by indicating WMG's location & Mouza, waterlogging map, cropping pattern map etc. We had planned to start the HHs survey, but did not accomplish this as the required human resources were not available.

Infrastructure Development

Water management facilities of Polder 28/1 are fully interrupted due to Silted canal and inactive sluice gates. Some culture fisher (Gher owner) and some influencing people who illegally occupied canals they can make some barriers to planning for construction of water infrastructures. During this period we successfully accomplished engineering consultation meeting for find out the work of water infrastructure development. After consultation meeting we have planned of Re-sectioning of embankment 10 km, Re-excavation of canal 18 km, repair of sluice 7 Nos, and construction of sluice 1 Nos, but did not started the infrastructural work by Blue Gold Program in the FY 2016-17.

Agricultural & Business Development:

We have started FFS activities in 3 WMGs on Beef fattening, Fish Culture and Nutrition, and 2 ponds selected for start Community led Fisheries. Under business development activities, we have started collective action on Moringa in 3 WMGs, collected & prepared input provider list in our Polder area, trial plot selected for promote cropping intensity as a mean of income generation, and selected some producers groups for implementing the collective action activities. We have also plan to organize linkage building workshop among the different market actors, capacity building training for actors (RF/IPs), demonstration activities, collective action promotion activities etc.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target							2017-18												Remarks	
Process	Step			BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M		J
A		Facilitating Collective Actions, Polder Planning and WMG formation with registration																					
	1	Identify and support existing collective actions (CA) and liaise with their leadership	8							x	x	x	x	x	x	x	x	x	x	x	x		
	2	Conduct walk-through, mapping with CA leadership & key informants	8									x					x				x		
	3	Form core group of interested CA leadership and organise horizontal learning	8							x	x	x	x										
	4	Organize Water and Land Use Planning Workshop	1								x												
	5	Conduct Household Survey	8							x						x							
	6	Assist Core Group to form of Ad-hoc Committee.	4											x							x		
	7	Assist to Ad-hoc committee enrol minimum 55% Household	8							x	x	x	x										
	8	Assist to WMG Enrol at least 40% women of WMG general membership	8							x	x	x	x	x	x	x	x	x	x	x	x		
	9	Assist Include at least 33% women in WMG EC membership	8								x			x			x			x			
	10	Assist Election of WMG Executive Committee	8								x	x	x										
	11	Assist tot WMGs for submitting Registration documents	8									x	x	x									
B		WMA Formation and Registration								x	x	x	x	x	x	x	x	x	x	x	x		
	1	Assist Ad-hoc Committee formation (Polder Wise)	1											x									
	2	Assist WMA Executive Committee formation	1														x						
	3	Assist WMA registration documents submit to BWDB	1															x					

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Polder 28/2

Polder 28/2 was constructed in 1966-71 by the Bangladesh Water Development Board (BWDB) and later on was rehabilitated under the KJDRP project from 1996 to 2002. The polder covers a big portion of Jalma union under Batiaghata upazila of Khulna district. The polder is surrounded by 6 rivers like Kazibacha river, Sholmari river, Kaya river, Alutala river, Sachibunia river, Chara river. Total length of embankment of this Polder is 30 km with estimated cultivable land is 1048 ha, flashing sluice is 07 and total of 35 canal are branches all over the Polder area.

Institutional Framework for Participatory Water Management:

Previously it was 16 WMGs under KJDRP project among them 9 was registered but all are inactive considering functionality and now it is 12 WMGs after conducted boundary selection meeting with the participation of UP & WMG's representative. We have made a very good linkage with Union parishad and together mobilizing community in the polder area for water management. Blue Gold Program has been starting work in 1st January, 2017 by deployed field staffs (CDFs). During this period, successfully accomplished union inception workshop for make common understanding towards Blue Gold project, and conducted motivational meeting (court yard meeting) with WMGs. Very recently started ad-hoc committee formation meeting after finalized the WMGs boundary and already started members' enrolment as priority basis. Also we developed the Polder map by indicating WMG's location & Mouza, waterlogging map, cropping pattern map etc. We was planned to start HHs survey but did not accomplished due to not deployed LF in Blue Gold program.

Infrastructure Development

Water management facilities of Polder 28/2 are fully interrupted due to Silted canal and inactive sluice gates. Some fishermen (Gher owner) and some influencing people who illegally occupied canals they can make some barriers to planning for construction of water infrastructure. During this period we successfully accomplished engineering consultation meeting for find out the work of water infrastructure development. After consultation meeting we have planned of Re-sectioning of embankment 1.50 km, Re-excavation of canal 5.8 km, repair of sluice 6 Nos, and construction of sluice 1 Nos, but did not started the infrastructural work by Blue Gold Program in the FY 2016-17. But in the place of Kachubunia erosion point, Blue Gold already take it as priority task and go for estimated vetting and tendering process.

Agricultural & Business Development:

We have started FFS activities in 3 WMGs on Beef fattening, Fish Culture and Nutrition, and 1 ponds selected for start Community led Fisheries. Under business development activities, we have started collective action on Moringa in 2 WMGs, collected & prepared input provider list in our Polder area, trial plot selected for promote cropping intensity as a mean of income generation, and selected some producers groups for implementing the collective action activities. We have also plan to organize linkage building workshop among the different market actors, capacity building training for actors (RF/IPs), demonstration activities, collective action promotion activities etc.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target							2017-18												Remarks	
Process	Step			BWDB	DAE	DoF/DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M		J
A		Facilitating Collective Actions, Polder Planning and WMG formation with registration																					
	1	Identify and support existing collective actions (CA) and liaise with their leadership	12							x	x	x	x	x	x	x	x	x	x	x	x		
	2	Conduct walk-through, mapping with CA leadership & key informants	12									x						x			x		
	3	Form core group of interested CA leadership and organise horizontal learning	12							x	x	x	x										
	4	Organize Water and Land Use Planning Workshop	1								x												
	5	Conduct Household Survey	12							x						x							
	6	Assist Core Group to form of Ad-hoc Committee.	12												x						x		
	7	Assist to Ad-hoc committee enrol minimum 55% Household	12							x	x	x	x										
	8	Assist to WMG Enrol at least 40% women of WMG general membership	12							x	x	x	x	x	x	x	x	x	x	x	x		
	9	Assist Include at least 33% women in WMG EC membership	12								x			x			x			x			
	10	Assist Election of WMG Executive Committee	12								x	x	x										
	11	Assist tot WMGs for submitting Registration documents	12									x	x	x									

V1 June 2017

V1 June 2017

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Polder 34/2 part

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Institutional Framework for Participatory Water Management

The Extension Department of BWDB was facilitated formation of WMGs in the year 2006-2007 and a total of 42 WMGs have been formed. Later in the year 2007-2008 the IPSWAM project was provided training on Organizational Management, Gender and Leadership, and Operation and Maintenance. Currently there is no WMGs functioning due to lack of support and no physical works was implemented.

Infrastructure Development

After consultation meeting we have planned sluice reconstruction and repairing (flushing and drainage), construction of retired embankment, re-sectioning of embankment, khal re-excavation etc.

Annual Work Plan with timeline

Annual Work Plan with timeline		Description of the Unified Work Process and Steps	Target										2017-18												Remarks			
SI				B	W	D	B	D	A	E	D	o	F	D	L	S	C	o	r	e	G	r	o	u		p	M	O
A	Process	Step																										
																					</							

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V1 June 2017

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2.2 Satkhira Zonal Plan

BGP Satkhira Zone work at Polder 2 and Extension is situated North side of Betna River , West side of Morichap river and located at Budhhata and Kulla unions under Assasuni Upazilla and Brahmarajpur, Fingri, Dhulihar, Labsa, Jhuadanga & Balli unions under Satkhira Sadar Upazilla, Satkhira district with administrative jurisdiction under the Satkhira O&M Division-2, BWDB, Satkhira. The polder was constructed in 1963-65 by the Bangladesh Water Development Board (BWDB). BGP work started from August 2014 treated as a Rehabilitation Polder in Polder-2 and from January, 2017 work started in Polder-2 Extension part. Total Benefited area 12,600 hectare and living 28,129 HHs.

Cumulative achievement up to June 2017: Community Mobilization 55%, Infrastructural Physical work Progress 40% and Agriculture & Economic Development 60% achieved.

2016-17 Annual Plan Activity Achieved of Community Mobilization and participatory Water Management 65%, WM Infrastructural Physical works Progress 60% in gross progress and 100% achieved in Farmer Field Schools (FFS) activities.

9 CDFs have worked in Satkhira. Every month we conduct Zonal and Polder meeting regularly and share polder progress. Zonal team is working independently and strong team building can operate field. Many problematic issues from field can solve zonal team with great innovative strategy. Zonal Team liaising with administration, DAE, BWDB, LGIs in different stakeholders.

Lessons learned

58 WMG Formed and got registration. 3 WMA reformed and under process of registration. In short period of assistance 62% of HHs Covered within 45 % Female member enrolment. WMG functionality: Good-20, Fair-25, Poor-13. Identified good practice replication for Horizontal Learning in 10 WMG for O&M, IGA, Small Maintenance and Local initiative and prepared factsheets.

2017-2018 objectives

- We learned that doing work in a unified team is a great strength and moving together is success.
- Enhance Strong linkage, networking and communication established with UPs, WMOs and BWDB and DAE, DLS & DoF officials
- Improve drainage capacity of the polder
- Increase field cropping yields
- Promote gender equality and leadership of WMOs
- Promote Collective action, business planning and linkage with private sector.
- Scaling up Community initiatives through Horizontal Learning.

2017 / 2018 planned activities

Planned activities:

- Monthly Polder & Zonal Coordination meeting
- Tri-zonal Coordination Meeting
- Upazila Briefing Session Workshops
- WMG led Collective Fisheries
- capacity building Training on OM, O&M and GLD
- Exposure visit for HL and follow-up replication of good practices
- Explore CAWM activities

Why we planned:

- Progress review and planning of the zonal activities
- Establishment Unified work approach
- Better understanding of project activities
- For Community/ WMG led fisheries through collectively and CAWM in polder areas
- Inspiring WMO members for their capacity building

Annual Work Plan with timeline

SI	Process Step	Description of the Unified Work Process and Steps	Target									2017-18												Remarks
				DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J			
A		Organization and Water Management/O&M																						
	1	Selection of Sub catchment and new WMG Formation	6 WMGs									x	x	x	x	x	x						Polder-2 Extension	
	2	WMGs Registration Process	6 WMGs														x	x	x	x	x	x	Polder-2 Extension	
	3	Polder wise WMA Re-/formation and Registration	03 WMA									x	x	x	x	x	x						3 WMA in P-2	
	4	Catchment level O&M Sub-committee formation	3									x	x	x	x	x	x						3 WMA Level	
	5	Promote and implement identified new CAs with WMGs	20 WMGs									x	x	x	x	x	x	x	x	x	x	x	Collective Fisheries, Group IGA, Seed, Milk, CAWM, O&M	
	6	Organize Collective Action exchange visits/horizontal learning on O&M, Collective business, Joint Fisheries, FFS and HL learning	10 Events									x	x	x	x	x	x	x	x	x	x	x	WMG to WMG, Polder to Polder and 3 CA for Women economic empowerment	
	7	Continue assisting WMGs to improve performance	58+6 WMGs									x	x	x	x	x	x	x	x	x	x	x	58 in P-2 & 6 in Ext.(6 month)	
	8	Regular catchment level water management and O&M Plan and Implementation	3									x	x	x	x	x	x	x	x	x	x	x	Prepare WM Operation & Maintenance plan	
	9	Develop Savings and IGA	15 Lac									x	x	x	x	x	x	x	x	x	x	x	58 Savings & 20 WMGs IGA	
	10	Collect O&M Fund from WMGs and fund use for implementation	5 Lac									x	x	x	x	x	x	x	x	x	x	x	O&M fund collection 40 WMGs & use for 20 WMGS	

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B		Infrastructure Development																		
1	Re-sectioning of embankment (carried over)	10 km																		
2	Re-sectioning of embankment (New)	11.65 km																		
3	Re-excavation of Khal (carried over)	21.385 km																		
4	Re-excavation of Khal (New)	25.777 km																		
5	Repair of sluice	8																		
6	Construction / Re-Construction of sluice	3																		
7	Pump and Pump Sheds and Stilling Basin	4																		
8	Low cost Bank protection	1 km																		
9	Water management Culverts	7																		
10	Drainage Pipes	100																		
11	LCS Formation, on job Training and work implementation	10																		
C		Agriculture and Economic Development																		
1	2+6 FFS session Facilitate (10 Cycle FFS)	8																		
2	Backstopping old FFS	56 WMGs																		
3	Farmers Field day observing	8																		
4	End line survey (2+6 FFS)	200 HHs																		
5	DAE FFS activities	20																		
6	New Crop variety demonstration by WMG (CF)	2 Plot																		
7	Form & strengthening the producers group to promote the collective action at WMO's level	6 group																		

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2.3 Patuakhali Zonal Plan

Progress up to now June 2017

The Blue Gold Program area under Patuakhali zone covers two districts, namely, Patuakhali and Barguna, 6 Upazila and 21 Unions. There are 10 Polders among them 6 are IPSWAM Polders. 161 WMGs have been formed/re-formed under Patuakhali zone among which 155 WMGs have been registered under Participatory Water Management Rules, 2014. For O&M activities, around 4.0 lac have been collected by 50 WMGs as O&M fund. 14 Community led Fisheries have been established in 4 Polders (among which 7 are khal and 7 are ponds) by WMG members. 6 Community led Agriculture Water Management (CAWM) was established and successfully completed in the FY 2016-17 and some innovative works in CAWM area is also completed. Farmers get benefit regarding water management from next season. We started work in two new Polders in Kalapara from January, 2017 where we could not established WMGs yet.

Lessons learned

Community led Agriculture Water Management (CAWM) were a good initiative for internal water management. Community led Fisheries may be potential in Patuakhali Zone. For WMG sustainability this type of collective action is very much needed. Otherwise WMG may not sustain.

2017 / 2018 objectives

Objectives of the zonal planning are as follows:

- Establish a functional and sustainable WMOs;
- Enhance and support Polder team activities;
- Develop Gender and Leadership of WMOs;
- Promote collective action, business planning and Linkage with private sector;
- Establish strong relations with UPs, WMGs and BWDB and DAE, DoF, DLS officials.

2017/2018 Planned activities

Planned activities:

- Tri-zonal Coordination Meeting
- Upazila Briefing Workshop
- SVC Group Strategic Workshop
- Fingerlings nursery owners capacity building
- Exposure visit
- Organize ToT for FT

Why we planned:

- Progress and planning of the zonal activities
- To orient upazila Officials/LGI about BGP activity
- Strategy for SVC
- For supply good quality fingerling in polder areas
- Inspiring WMO members
- For their capacity building

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Target								2017-18											
Process	Step			BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J
A		Organization, Management and Coordination																				
	1	Arrange Zonal Coordination meeting	12								x	x	x	x	x	x	x	x	x	x	x	x
	2	Review Monthly polder action plan	84								x	x	x	x	x	x	x	x	x	x	x	x
	3	Arrange Quarterly Zonal Coordination meeting (In presence of BWDB, DAE, DLS, DOF representatives)	4										x			x			x			x
	4	Organize Quarterly staffs meeting at zonal level	4										x			x			x			x
	5	Conduct Briefing session with Upazila Parishad	5									x										
	6	Prepare of Half Yearly Report	2								x						x					
	7	Annual plan review and sharing with Polder team	10													x						x
	8	Prepare Catchment O&M planning	78								x	x	x									
	9	Attend Polder Coordination meeting	84								x	x	x	x	x	x	x	x	x	x	x	x
	10	Attend Tri-Zonal Meeting	4									x			x			x			x	
	11	Organize exchange visit for new staffs on CA, HL and Good practices	1								x											
	12	Conduct rapid WMG functionality appraisal	161								x	x	x	x	x	x	x	x	x	x	x	x
	13	Develop operational guidelines for O&M	1								x											
	14	Conduct Staffs performance Appraisal	All CDFs												x							
	15	Attend Upazila Coordination Meeting	as required								x	x	x	x	x	x	x	x	x	x	x	x
	15	Assist WMAs to sign O&M agreement with BWDB	6												x							
	16	Prepare Polder Development Plan (PDP)	4								x											
B		Water Resource Management																				
	1	Engineering Assessment and Topographic surveys	26								x	x										
	2	Site survey, assist in design data collection	89								x	x	x									
	3	Pre-work survey	73									x	x	x								

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	1	Provide training on linkage development and women empowerment at CAWM area	2 CAWM groups								x	x	x	x	x	x	x	x	x	x	x	x	x	x
	2	Follow-up on the impact assessment of the GLD training	100 WMG								x	x	x	xx			x	x	x	x	x	x	x	x
	3	Support gender research in CWM of university students	One CAWM group								x	x												
	4	Gender training for field staff (2 days)	2 batches								x	x	x	x	x	x	x	x	x	x	x	x	x	x
	5	Support the implementation of the LCS study	As per requirement								x	x												
	6	Observe International Women's day	as per requirement																x					
G		Environmental Sustainability and DRR																						
	1	Facilitate session on environmental safeguard at the contractor's orientation program										x												
	2	Facilitate session on Environment and DRR at upazila level briefing program									x	x	x	x	x	x	x	x	x	x	x	x	x	x
	3	Environmental compliance monitoring and reporting									x													
	4	Facilitate Polder Teams for formulation of ESMP and CBDRR plan									x	x	x	x	x	x	x	x	x	x	x	x	x	x
	5	Integration Environment and DRR into all training and IEC materials									x	x	x	x	x	x	x	x	x	x	x	x	x	x
	6	Facilitate outsourced organization for conduction of EIA and obtaining of ECC									x	x	x	x	x	x	x	x	x	x	x	x	x	x
	7	Participate at the workshop/meeting at zonal and central level									x	x	x	x	x	x	x	x	x	x	x	x	x	x

A. Phasing Out Polders (Patuakhali)

Patuakhali phasing out Polders are working with same sort of objectives & planned similar activities. An overall summary is provided below:

2017 / 2018 objectives

Objectives of the of this planning are as follows:

- Establish a functional WMA;
- Establish sustainable WMGs;
- Assist WMG to perform economic activities;
- Develop Gender and Leadership of WMG members;
- Promote collective action, business planning and Linkage with private sector;
- Linkage establishment among RF, CF, LF, FT and market actors; and
- Establish strong relations with UPs, WMGs and BWDB and DAE officials.

2017/2018 Planned activities

Planned activities:

- Polder wise WMA formation and Registration
- O&M sub-committee formation
- Promote and implement identified new CAs with WMGs
- Continue assisting WMGs
- O&M Agreement between WMA and BWDB
- O&M Plan and Implementation
- Inclusion of WMG members in the UP Standing Committee
- Participatory monitoring in 19 WMGs
- Phasing out Meeting with polder level stakeholders.

Why we do:

- Maintain the functionality of WMOs and O&M agreement
- Operate and maintain the sluices for water management
- Harvest maximum benefit and hold the unity of WMGs
- Better performance of the WMOs
- Do the operation and maintenance after departure of Blue Gold
- Operate the sluices smoothly
- Take part in decision making for polder development activities
- Observe the status of the WMGs
- Status analysis, provide final direction and exit slowly.

Polder 43/2A

Progress up to now June 2017

A total of 22 WMGs have been established in this Polder. 19 WMGs registered and 3 WMGs is not registered due to Court Case. WMGs maintained record keeping by themselves. O & M fund have been raised of seven WMGs out of 22. Audit by BWDB of 19 WMGs have been completed. One linkage workshop among RF/ CF/LF/FT & Market actors has been done. There were four collective IGAs in this polder.

A total of 2.80 km retired embankment and 24.74 km embankment was re-sectioned. Four sluices, 34 inlets and 2 outlets have been repaired.

Lessons learned

Collective action, Economic Activities and collective IGAs is the main pillar of functional WMG. Otherwise a WMG cannot sustain. 19 FFS on poultry rearing, Vegetables and Nutrition conducted in FY 2014-15, but these have not been followed up yet. . Some collective actions/IGAs sustain through which the members of WMG get benefits.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Unit	Target								2017-18												Remarks
Process	Step				BWDB	DAF	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A		Organization and Water Management/OWM																						
	1	Polder wise WMA formation	Nos	1									x	x										
	2	WMGs Executive Committee Election	Nos	19							x	x	x											
	3	WMGs Registration	Nos	3								x	x											
	4	Polder wise WMA Registration	Nos	1										x										
	5	Catchment level O&M subcommittee formation	Nos	5							x	x												
	6	Organise CA exchange visits/horizontal learning on O&M, business on seed production	Nos	11							x	x	x	x	x	x								
	7	Promote and implement identified new CAs with WMGs	Nos	5							x	x	x	x	x	x								
	8	Continue assisting WMGs to improve performance	Nos	22							x	x	x	x	x	x								
	9	Collect O&M Fund in 22 WMGS	Tk.	70,000							x	x	x	x	x	x								
	11	O&M Agreement between WMA and BWDB	Nos	1											x									
	12	Catchment level Water Management and O&M Plan preparation and Implementation	Nos	22							x	x	x	x	x	x								
	13	Inclusion of WMGs members in the UP Standing Committee	Nos	2										x	x									
	14	Polder wise WMA Planning meeting	Nos	1										x										
	15	WMGs Action Plan preparation review and implementation	Nos	22							x	x	x	x	x	x								

V1 June 2017

V1 June 2017

Polder 43/2B**Progress up to now June 2017**

A total of 28 WMGs have been established in this Polder. WMGs maintained record keeping by themselves. O & M fund have been raised of twenty WMGs out of 28. Audit by BWDB of 28 WMGs have been completed. Eight CAG workshops and one linkage workshop among RF/ CF/LF/FT & Market actors have been done. Eight collective actions (e.g. Agricultural input buying and selling, land tillage) developed in this polder. Two Community led Agriculture Water Management (Collective Action) established in this polder.

Eight MFSs were conducted (cropping system) where 200 male and female farmers were trained up on cropping system and 28 no FFSs were conducted where 700 male and female farmers were trained on Poultry, Vegetables and Nutrition.

A total of 16.74 Km canal was Re-excavated and 16.47 km embankment was Re-sectioning completed. Two sluices have been repaired. 42 no Inlet repair completed.

Lessons learned

Collective action, Economic Activities and collective IGAs is the main pillar of functional WMG. Otherwise a WMG cannot sustain. 28 FFS on poultry rearing, Vegetables and Nutrition conducted in FY 2014-15 but there was no follow up in the next. Community led Agriculture Water Management may be potential for collective Action. Some collective actions/IGAs sustain through which the members of WMG get benefits.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Unit	Target								2017-18												
Process	Step				BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M		
A		Organization and Water Management/OWM																						
	1	WMG Executive Committee Election	Nos	28							x	x	x											
	2	Polder wise WMA formation	Nos	1									x											
	3	Polder wise WMA Registration	Nos	1										x										
	4	Catchment level O&M subcommittee formation	Nos	5							x	x												
	5	Organise CA exchange visits/horizontal learning on O&M, business on seed production	Nos	4									x	x	x									
	6	Promote and implement identified new CAs with WMGs	Nos	28							x	x	x	x	x	x								
	7	Continue assisting WMGs to improve performance	Nos	28							x	x	x	x	x	x								
	8	Collect O&M Fund in 28 WMGS	Tk.	35,000							x	x	x	x	x	x								
	9	Organizational Management (OM) Training for WMG (03 days)	Batch	14							x	x	x											
	10	Training on Operation & Maintenance with Water Management and Resource Mobilization (03 days)	Batch	1										x										
	11	Gate Operation training for gatekeepers (Practical)	Batch	3										x										
	12	O & M Plan preparation (Field visit Training)	Batch	3										x										
	13	Gender & Leadership Development Training for WMG (03 days)	Batch	14								x	x	x										

14	O & M Agreement between WMA and BWDB	Nos	20							x	x	x	x	x	x						
15	Catchment level Water Management and O&M Plan preparation and Implementation	Nos	6									x	x	x	x						
16	Inclusion of WMGs members in the UP Standing Committee	Nos	3											x	x						
17	Polder wise WMA Planning meeting	Nos	1											x							
18	WMGs Action Plan preparation review and implementation	Nos	28							x	x	x	x	x	x						
19	Participatory monitoring in 28 WMGs	Nos	28									x			x						
20	Annual General Meeting in 28 WMGs	Nos	1							x	x										
21	Formation of WMA Monitoring committee	Nos	1											x							
22	Facilitate & Assist CAWM activities	Nos	2												x						
23	Saving Collection 28 WMGs	Tk.	55,000							x	x	x	x	x	x						
24	Individual IGA in WMGs Level	Nos	8							x	x	x	x	x	x						
25	Collective IGAs in WMGs	Nos	7							x	x	x	x	x	x						
26	International Woman's day observation by WMGs	Nos	2																x		
27	Polder Coordination Meeting	Nos	6							x	x	x	x	x	x						
B	Infrastructure Development																				
1	Re-sectioning of embankment	Km	3.965								x	x	x	20	20	15	15	15	15		
2	Re-excavation of Khal	Nos	1								x	x	x	15	15	15	15	15	15	10	
3	Repair of inlet	Nos	2								x	x	x	10	10	10	10	10	10	10	
4	Construction of sluice	Nos	2								x	x	x	15	15	15	15	15	15	10	
														%	%	%	%	%	%	%	
C	Agriculture and Economic Development																				
1	FFS Facilitate	Nos	6							x											
2	Organize training & Workshop for different Market actors and CA Group																				

	3	Introduce New technology on agriculture and market development																		
	4	Workshop with WMO to Promote Collective action, Business planning and Linkage with Private Sector	Nos	1								x								
	5	VC Actors meeting with WMO for Linkage, Discussion negotiation and Intervention designing	Nos	1										x						
	6	Linkage workshop between RF/ CF/LF/FT & Market actors	Nos	1								x								
	7	Linkage meeting/workshop/seminar with VC actors	Nos	1								x								
	8	Training on output market actors on post-harvest handling and management	Nos	1									x							
	9	Training on post-harvest and management for RF	Nos	1										x						
	10	Training on business plan preparation and management for RF/Business Focal person	Nos	1								x								
	11	Refresher training of input market actors																		
D		Environmental Sustainability and DRR																		
	1	Day observation (NDPD, IDDR)	Nos	2										x						
	2	Reconstitution of UDMCs	Nos	2									X	X						
	3	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt/ Coordination workshop with UDMC	Nos	2												x				
E		Phasing out Meeting with polder level stakeholders																		
	1	Phased out meeting among UP, BWDB and WMG representatives	Nos	1											x					

Polder 43/2D

Progress up to now June 2017

A total of 28 WMGs functional in this Polder. Most of the WMGs are capable to organize and conduct monthly meeting but some of them don't organize meeting in each Month. They are being updating books and records by themselves but still they need some back stopping from Blue Gold. About 50% WMG raised O & M. Audit by BWDB of 28 WMGs have completed. One Collective action promotion Workshop, one GL+CL+RF+FT and one actors meeting have completed. A total of 19 WMGs have purchased seeds, fertilizer, pesticide collectively and 11 WMGs have sold Mung Bean collectively.

18 nos. Of Mung Bean MFSs, 12 nos. of GIFT MFS, and 12 nos. of MFS rice cropping system were conducted where 429 male and 281 female farmers were trained upon cropping system and 39 FFSs were conducted where 158 male and 867 female farmers were trained on Poultry, Vegetables, Nutrition and Cattle fattening. Three CAWM were established. Just Farming is being implementing an ICT support based project under innovation fund of Blue Gold Program. Two nos. of Community Fisheries have initiated. There are some fruit trials have established in this polder.

A total of 18.57 Km canal was Re-excavated and 32.80 km embankment was re-sectioned. Fourteen sluices, 46 inlets and 3 outlets have been repaired.

Lessons learned

Self-evolving activities, Collective action, Economic Activities and collective IGAs are the main pillar of functional WMG. Although organizational management capacity is essential for efficient and effective implementation of organization's activities. Without participation of general members of the WMO in decision making process and in implementation it will not be possible to make the WMOs functional and sustainable. Financial transparency is very essential for an organization to attain trust of general members. Some exotic fruit trials have been established in this polder but result of these trials are not satisfactory due to inadequate follow up. 39 FFS were established in this polder but there need FFS on poultry rearing, Vegetables and Nutrition conducted in FY 2014-15 but there was no follow up in the next. Community led Fisheries may be potential for collective IGAs. Some collective actions sustain through which the members of WMG get benefits.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Unit	Target								2017-18											
Process	Step				BWDB	DAE	DoF/DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J
A		Organization and Water Management/OWM																					
	1	Polder wise WMA formation	Nos	1									x	x									
	2	WMGs Executive Committee Election	Nos	27								x	x	x									
	3	WMG Registration	Nos	1										x									
	4	Polder wise WMA Registration	Nos	1											x								
	5	Catchment level O&M subcommittee formation	Nos	17								x	x										
	6	Organise CA exchange visits/horizontal learning on O & M, business on seed production	Nos	3											x	x							
	7	Promote and implement identified new CAs with WMGs	Nos	14								x				x	x						
	8	Continue assisting WMGs to improve performance	Nos	28								x	x	x	x	x	x						
	9	Collect O&M Fund in 17 WMGS	Tk.	45,000								x	x	x	x	x	x						
	10	O & M Agreement between WMA and BWDB	Nos	1												x							
	11	Organizational Management (OM) Training for WMGs (3 days)	Batch	1								x											
	12	Training on O&M with Water Management and and Resource Mobilization	Batch	1										x									
	13	Gate Operation training for gatekeepers (Practical)	Batch	5										x									
	14	O&M Plan preparation (Field Training)	Batch	5										x									

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	10	Construction of Culvert No.	No.	1								x	x	x		15 %	15 %	15 %	15 %	15 %	15 %	1	0 %
C		Agriculture and Economic Development																					
	1	2 FFS Facilitate	Nos																				
	2	Backstopping Old FFS	Nos									x	x	x	x	x	x						
	3	2 Field Farmers day observe	Nos	1													x						
	4	End line survey (27 FFS)	Nos																				
	5	Organize training & Workshop for different Market actors and CA Group	Nos																				
	6	Introduce New technology on agriculture and market development (Synchronization)	Nos	4								x											
	7	Workshop with WMO to Promote Collective action, Business planning and Linkage with Private Sector	Nos																				
	8	VC Actors meeting with WMO for Linkage, Discussion negotiation and Intervention designing	Nos	1								x											
	9	Linkage workshop between RF/ CF/LF/FT & Market actors	Nos																				
	10	Actor Meeting (linkage/discussion/negotiation/intervention designing)	Nos	1								x											
	11	Training of output market actors on post-harvest handling and management	Nos	1										x									
	12	Training on Business Plan development and management for RF/Business Focal Person	Nos	1									x										
	13	Training on post-harvest handling and management for RF	Nos	1										x									
	14	Refreshers training of last year's inputs providers	Nos	1								x											

V1 June 2017

Polder 43/2E**Progress up to now June 2017**

A total of 12 WMGs have been established in this Polder. WMGs maintained record keeping by themselves. O & M fund have been raised of four WMGs out of 12. Audit by BWDB of 12 WMGs have been completed. One CAG workshop and one linkage workshop among RF/ CF/LF/FT & Market actors have been done. Four collective actions (Agri. Input buying and selling) developed in this polder.

Four MFSs were conducted (cropping system) where 100 male and female farmers were trained up on cropping system and Twelve FFSs were conducted where 300 male and female farmers were trained on Poultry, Vegetables and Nutrition. Two Community led Fisheries was established. FHRC working in Fedainagar WMG of Blue Gold Innovative fund. Juban Ali khal (500m) re-excavated by FHRC in Fedainagar WMG area.

A total of 4.60 Km canal was Re-excavated and 3.03 km embankment was re-sectioned. Seven sluices and 2 outlets have been repaired.

Lessons learned

Collective action, Economic Activities and collective IGAs is the main pillar of functional WMG. Otherwise a WMG cannot sustain. 12 FFS on poultry rearing, Vegetables and Nutrition conducted in FY 2014-15 but there was no follow up in the next. Community led Fisheries may be potential for collective IGAs. Some collective actions sustain through which the members of WMG get benefits.

Annual Work Plan with timeline

SI	Process	Step	Description of the Unified Work Process and Steps	Unit	Target								2017-18											
						BWDR	DAE	DoF/DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J
	A		Organization and Water Management/OWM																					
		1	Polder wise WMA formation	Nos	1								x	x	x									
		2	WMGs Executive Committee Election	Nos	12										x	x								
		2	Polder wise WMA Registration	Nos	1										x	x								
		3	Catchment level O&M subcommittee formation	Nos	7								x											
		4	Organise CA exchange visits/horizontal learning on O&M, business, fish cultivation etc.	Nos	3												x	x						
		5	Promote and implement identified new CAs with WMGs	Nos	6												x	x						
		6	Continue assisting WMGs to improve performance	Nos	12								x	x	x	x	x	x						
		7	Collect O&M Fund in 12 WMGs	Tk.	12								x	x	x	x	x	x						
		8	O&M Agreement between WMA and BWDB	Nos	1												x							
		9	Regular catchment level water management and O&M Plan and Implementation	Nos	7								x	x	x	x	x	x						
		10	Inclusion of WMGs members in the UP Standing Committee	Nos	1								x	x	x	x	x	x						
		11	Polder wise WMA Planning meeting	Nos	1										x									
		12	Action Plan review and implement in the 12 WMGs	Nos	12								x	x	x	x	x	x						

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	5	Repair of outlet	No.	0																	
	6	Repair of inlet	No.	25							x	x	x	15 %	15 %	15 %	15 %	15 %	15 %	10 %	
	8	Construction of outlet	No.	1							x	x	x	15 %	15 %	15 %	15 %	15 %	15 %	10 %	
C		Agriculture and Economic Development																			
	1	Backstopping Old FFS	Nos	12																	
	2	Organize training & Workshop for different Market actors and CA Group	Nos																		
	3	Introduce New technology on agriculture and market development	Nos																		
	4	Workshop with WMO to Promote Collective action, Business planning and Linkage with Private Sector	Nos																		
	5	VC Actors meeting with WMO for Linkage, Discussion negotiation and Intervention designing	Nos																		
	6	Linkage workshop between RF/ CF/LF/FT & Market actors	Nos																		
	7	Community led Fisheries	Nos	2							x	x	x	x	x				x	x	x
D		Environmental Sustainability and DRR																			
	1	Reconstitution of UDMCs																			
	2	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt/ Coordination workshop with UDMC											x	x							
	3	Awareness about Disaster Preparedness	Nos										x	x							
E		Phasing out Meeting with polder level stakeholders													x						



	1	Phased out meeting among UP, BWDB and WMG representatives	Nos	1												x						
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Polder 43/1A

Progress up to now June 2017

43/1A is a phase-out polder. The Polder consists of 14 WMGs. . 13 WMGs are registered of the polder. There are two WMA in the polder but process has been started to formation of one WMA instead of two. Most of activities as per plan have been completed. CAWM activities (canal preparation) are also going on to smooth flow of water for agriculture production. Three WMGs has been awarded for LCS amounting of Tk. 28, 11,789.00. but will be difficult to accomplish LCS in time due to delay signing of agreement with WMG. 13 WMGs already have been audited by Bangladesh Water Development Board. During the reporting period unexpected heavy rainfall damaged most profitable and cash crop in this polder. About 70-80% mungbean, water melon, groundnut and chilli damaged by rainfall. To minimization production cost, attractive large buyers and finally to be an agriculture is a profitable business most of WMG have been started collective purchasing and selling of agriculture inputs and products like seeds, fertilizers, crop protection solution. Good business relationships has been developed with different inputs and output market actors and also establish relationship with different organizations like UP, BWDB, DAE, NGOs which helps to get support to smooth running WMG activities. Community-led Fish farming in a canal under the leadership of WMG is a new and innovative initiatives started last year in one WMG. Last year they made income of TK. 27,100. This year they are expecting profit around BDT 1, 00,000. Local Union Parishad is supporting this WMG for this initiative. They will share certain percentage of profit with the WMG.

Lessons learned

- The WMGs where proactive leadership exists, are more functioning than other WMGs
- WMGs now are realizing their organization strength and weakness through using of participatory monitoring tools and are taking initiatives for their improvement.
- In most cases the same people from a WMG are participating in most events organized by BGP and/or other organizations where as other members are not getting the opportunity to participate, as a result alternative leadership is not growing.
- WMGs are very much interest on LCS activities rather than other organizations activities
- Most WMGs are collectively purchasing /selling agriculture inputs and products for their economic development and also organize collective initiatives in some social issues.
- WMGs have been created good relationship with different actors which are helping them to get different services, inputs and information for their organization as well as economic development.
- Some WMGs have taken initiatives to create O&M fund to smooth operation which is a good sign for sustainability.
- Some WMGs are using their fund as IGA for livelihoods improvement of poor and extreme poor.

2017 / 2018 objectives

- Capacity development of WMGs/WMA for their transparency and organizational sustainability and also establish linkages with BWDB, DAE and UPs
- Increase cropping intensity
- Make a functional linkage with different inputs market actors for ensuring quality inputs in time which are very much essential for best crop production on the other hand make a linkage with output market actors for ensuring fair price of products.
- For environmental sustainability and DRR, develop capacity of environmental & DRR councillors and UDMC

2017/2018 Planned activities

The broader objectives of planned activities have been taken for organizational development of WMGs/WMA and infrastructure development for equitable water management, agriculture and economic development.

Annual Work Plan with timeline

SI	Process	Step	Description of the Unified Work Process and Steps	Unit	Target								2017-18												Remarks
						BWDB	DAE	DoF/DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A			Organization and Water Management/OWM																						
		1	WMGs Executive Committee Election	Nos	14									x	x	x									
		2	WMG Registration	Nos	1								x												
		3	Polder wise WMA formation	Nos	1										x										
		4	Polder wise WMA Registration	Nos	1											x									
		5	Catchment level O&M subcommittee formation	Nos	5								x	x											
		6	Organise CA exchange visits/horizontal learning on O&M, business on seed production	Nos	3										x	x	x								
		7	Promote and implement identified new CAs with WMGs	Nos	14								x	x	x	x	x	x							
		8	Continue assisting WMGs to improve performance	Nos	14								x	x	x	x	x	x							
		9	Collect O&M Fund in 14 WMGS	Tk.	60,000								x	x	x	x	x	x							
		10	Organizational Management (OM) training for WMGs	Batch	1										x										
		11	Training on Operation & Maintenance with Water Management and Resource Mobilization (03 days)	Batch	1									x											
		12	Gate Operation training for gatekeepers (Practical)	Batch	2									x											
		13	O&M Plan preparation (Field visit Training)	Batch	2									x											
		14	O&M Agreement between WMA and BWDB	Nos	1												x								
		15	Catchment level Water Management and O&M Plan preparation and Implementation	Nos	5								x	x	x	x	x	x							
		16	Inclusion of WMGs members in the UP Standing Committee	Nos	2								x	x	x	x	x	x							
		17	Polder wise WMA Planning meeting	Nos	1												x								
		18	WMGs Action Plan preparation review and implementation	Nos	14								x	x	x	x	x	x							

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	11	Trial on potential profitable cropping system followed by chance crops considering water management	Nos	2								x	x										
D		Environmental Sustainability and DRR																					
	1	Day observation (NDPD, IDDR)	Nos	2											x								
	2	Reconstitution of UDMCs	Nos	2										x	x								
	3	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt/ Coordination workshop with UDMC	Nos	2												x							
E		Phasing out Meeting with polder level stakeholders																					
	1	Phased out meeting among UP, BWDB and WMG representatives	Nos	1												x							

Polder43/2F

Progress up to now June 2017

This planning is for polder 43/2F, which situated at Amtali upazila of Barguna district. The planned activities for FY 2016-17 under strengthened water management partnership, agriculture and strengthened value chain and training & orientation activities are achieved successfully but the infrastructures activities like khal re-excavation, sluice, outlet reconstruction and repairing is not completed due to late approval of revised DPP. During the reporting period 14 WMGs took part in self-initiated collective activities like embankment repairing, sluice/outlet/inlet maintenance and khal cleaning activities as part of water management though WMG O&M fund using, self-labour and somewhere with the cooperation of local union parishad. The major accomplished activities in the polder are 26 AGM held among 27 and in one WMG AGM didn't been held due to conflict among the WMG members. 12 Market Oriented Farmers Field School (MFS) have been conducted on rice based cropping systems in order to make profitable the farm activities, find out profitable and potential cropping system, and increase cropping intensity in the polders' area. In 16 WMGs collective action is held on economic development activities like collectively agricultural inputs (seeds, fertilizers, pesticides) purchase and sold their products, and collectively tilled land for crop production in order to reduce production cost, get fair price for product and build strong cohesion among WMG members.

During the reporting period (2016-17) the great successes are (i) Dakshin Pashim Kalibari WMG took part in the field channel excavation as their own initiative through self-labour without any financial support of Blue Gold or any other institute/organization/project. This initiative solved the water logged condition from 350-400 acre of land, which contributes to more crop production and save crop damage which about yearly worth is about BDT 15 million. (ii) 5 WMGs have established fund for water infrastructures operation and maintenance and still deposited cash is Tk. 9,865, and 3 WMGs appointed paid gate main for sluice/outlet operation and maintenance. (iii) Another great success in polder 43/2F is introducing short duration and sub-merged tolerant T-Aman rice (BRRI Dhan 52) followed by mustard before mungbean, thus increase the cropping intensity as well as income in the polder.

Lessons learned

- In accomplishing the last year planned activities we have learned some lessons those are as below.
- Water management activities need to be linked/relates with the benefits of economic activities and transformed in terms of money, otherwise community mobilize for water management would be difficult.
- If the capital/savings of WMO is invested in potential IGA then the WMO members express interest to participate in the WMO activities, e.g. DakshinPurbaKalibari, Dakshin Dalachara, and Uttar Aungulkata WMG etc.
- Seasonal crop contribution collection from the land owners is a good and easy practice to create operation and maintenance fund for water infrastructures
- CAG Workshop/orientation of collective action on economic activities at WMG level is an important tool for participating of WMO members in collective action for economic development
- Cultivating short duration T-aman rice — mustard — mungbean cropping system is very potential and helpful to demonstrate the benefit of well water management practices in the polders' area
- Collective action on inputs purchase and land tillage is an important measure to reduce crop production cost that leads the increase of profit
- As part of climate smart agriculture BARI mung-6 and BRRI dhan 52 are very good variety to escape or minimize the climate risk for its short life cycle and pod setting characteristics and submerge tolerance characteristic accordingly.

2017 / 2018 objectives

- To accomplish the Blue Gold activities in polder 43/2F properly, timely and efficiently
- To strengthen WMGs so that they can to identify their problems achieve and partners and able to solve the raised problems and establish functional partnership with relevant agencies including private sectors

2017/2018 Planned activities

- **Organization and Water Management/O&M:** In this section 18 different activities are planned to perform in 2017. The major activities are focused on phasing out strategy thus AGM and WAP approval, selection for WMO committees, water infrastructures operation and maintenance and collaboration with LGIs.
- **Infrastructure Development:** In this polder embankment re-construction and inlet, outlet repairing activities already been done thus only 2 sluices construction and 15 sluices repairing activities are planned for this year.
- **Agriculture and Economic Development:** In this section mainly livelihoods protection and promotion activities are planned. Thus market development, actor capacity development, linkage and networking activities will be done.
- **Environmental Sustainability and DRR:** Under this section planned work with UDMCs and capacity building of UDMCs, due to UDMC is a permanent organization for DRR related activities in polder.
- **Phasing out Meeting with polder level stakeholders:** Since 43/2F polder is phasing out polder thus there are two activities have been planned for phasing out.

Annual Work Plan with timeline

SI		Description of the Unified Work Process and Steps	Unit	Target									2017-18												Remark (s)
Process	Step				BWDB	DAE	DoF/DLS	LGI	Core Group/MMO	Local team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J		
A		Organization and Water Management/OWM																							
	1	WMGs Executive Committee Election	Nos	27								x	x	x											
	2	Polder wise WMA formation	Nos	1								x	x												
	3	Polder wise WMA Registration	Nos	1										x											
	4	Catchment level O&M subcommittee formation	Nos	15								x	x												
	5	Organise CA exchange visits/horizontal learning on O&M, business on seed production	Nos event	2											x										
	6	Promote and implement identified new CAs with WMGs	Nos WMGs	20								x			x										
	7	Continue assisting WMGs to improve performance	Nos WMGs	26							x	x	x	x	x										
	8	Collect O&M Fund in 27 WMGS	Tk.	20,000							x	x	x	x	x	x								Earlier 5 achieved	
	9	O&M Agreement between WMA and BWDB	Nos	1											x										
	10	Organizational Management (OM) Training for WMG (03 days)	Batch	1									x												
	11	Gender & Leadership Development Training for WMG (03 days)	Batch	1										x											
	12	Training on Operation & Maintenance with Water Management and Resource Mobilization (03 days)	Batch	1							x														
	13	Gate Operation training for gatekeepers (Practical)	Batch	3								x													

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	4	Training for WMGs' representatives on business planning and linkage & networks	Event	2										x	x							
	5	Workshop with WMO to Promote Collective action, Business planning and Linkage with Private Sector	Event	2									x									
	6	VC Actors meeting with WMO for Linkage, Discussion negotiation and Intervention designing	Event	2																		
	7	GL+CF+RF+PF+FT & Market actors linkage workshop	Event	1									x									
	8	Training on post-harvest handling and management for RF	Nos	1							x	x	x	x	x	x						
	9	Develop Seed producers and providers at local level/polder/WMG's member	Nos	1																		
	10	Linkage meeting/workshop/seminar with VC actors	Event	1							x											
	11	VC Actors meeting with WMO for Linkage, Discussion negotiation and Intervention designing	Event	1										x								
	12	Refreshers Training for Input providers	Trial	2							x	x	x	x	x	x						
	13	Trial on potential profitable cropping systems/ technologies followed by chance crop	Event	1									x									
D		Environmental Sustainability and DRR																				
	1	Day observation (NDPD, IDDR)	Nos	2										x								
	2	Reconstitution of UDMCs	Nos	1									X	X								
	3	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt/ Coordination workshop with UDMC	Nos	1												x						
E		Phasing out Meeting with polder level stakeholders																				
	1	Consultation meeting with WMGs and exit	Nos	1											x							
	2	Consultation meeting with WMA and exit	Nos	1											x							

B. Phase in Polders

Polder 55/2A

Progress up to now June 2017

Polder 55/2A is a phase in polder. Former there WMIP project implemented in this polder and formed 14 WMGs and one WMA. One WMG is not registered. But they have no documents about members registered, cash book, ledger book, resolution etc. So, we reform WMGs and enrolment of members. 10 WMGs covered 55% Household. 4 WMGs remaining for 55% household coverage. One linkage workshop among WMG, Market actors and DAE have been done. Two collective actions (Agricultural input buying and selling) developed in this polder.

Twenty-four FFSs were conducted where 600 male and female farmers were trained on Poultry, Vegetables and Nutrition; beef fattening, fish culture and nutrition. 6 FFS on beef fattening, fish culture and nutrition is on-going. Two Community led Fisheries was established.

11.80 km embankment was re-sectioned.

Lessons learned

Collective action, Economic Activities and collective IGAs is the main pillar of functional WMG. Otherwise a WMG cannot sustain. Community led Fisheries may be potential for collective IGAs. Some collective actions sustain through which the members of WMG get benefits.

2017 / 2018 objectives

It's a phase-In Polder. Objectives of the of this planning are as follows:

- Reformed WMGs;
- Establish a functional WMGs;
- Assist WMG to perform economic activities;
- Develop Gender and Leadership of WMG members;
- Promote collective action, business planning and Linkage with private sector;
- Linkage establishment among RF, CF, LF, FT, SAAOs and market actors; and

2017/2018 Planned activities

Establish strong relations with UPs, WMGs and BWDB and DAE officials.

Planned activities:

- Blue Gold Public Drama
- Reform WMGs
- O&M sub-committee formation
- Promote and implement identified new CAs with WMGs
- Continue assisting WMGs
- O&M Agreement between WMA and BWDB
- O&M Plan and Implementation
- Inclusion of WMGs members in the UP Standing Committee
- Participatory monitoring in 14 WMGs
- Upazila Orientation Workshop

Why we do:

- Publicity of Blue Gold Activities
- Ensure 55% household coverage
- Maintain the functionality of WMOs and O&M agreement
- Operate and maintain the sluices for water management
- Better performance of the WMOs
- Do the operation and maintenance after departure of Blue Gold
- Operate the sluices smoothly
- Take part in decision making for polder development activities
- Observe the status of the WMGs
- To disseminate Blue Gold activities and objectives

Annual Work Plan with timeline

			Unit	Target									2017-2018												Remarks
Process	Step				BWDB	DAE	DoF / DLS	LGI	Core Group/MMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J		
A		Preparation																							
B		Facilitating Collective Actions, Polder Planning and WMG formation																							
	1	Members enrolment for 55% Household Coverage	Nos.	4								x	x	x											
	2	Ad-hoc Committee formation	Nos.	8								x													
	3	WMG Election for EC	Nos.	14								x	x	x	x	x									
	5	Conduct UP & Upazila orientation	Nos.	2										x	x									UP done	
	6	Assist Annual General Meeting	Nos.	14								x	x	x											
	7	O&M fund collection	Tk.	20,000								x	x	x	x	x	x	x	x	x	x	x	x		
	8	Identify and support existing collective actions (CA) and liaise with their leadership	Nos.	2												x	x								
	9	Prepare first draft PDP and submit to BWDB	Nos.	1								x													
	10	Facilitate and expand existing CAs	Nos.	2														x	x						
	11	WMG Registration	Nos.	1										x											
	12	Promote and implement new CAs with WMG as identified in the catchment level planning meetings	Nos.	5											x	x	x	x							

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	26	Training on Participatory Water Management	Batch	1														x	x		
	27	Training on Participatory Monitoring system for WMA	Batch	1															x		
	28	ToT for Community Resources Group	Batch	1											x						
	29	Saving Collection 14 WMGs	Tk.	30,000							x	x	x	x	x	x	x	x	x	x	x
	30	Individual IGA in WMGs Level	Nos	4							x	x	x	x	x	x	x	x	x	x	x
	31	Collective IGAs in WMGs	Nos	5							x	x	x	x	x	x					
	32	International Woman's day observation by WMGs	Nos	2														x			
	33	Polder Coordination Meeting	Nos	12							x	x	x	x	x	x	x	x	x	x	x
C		WMA Formation & Development																			
	1	Construction monitoring	Nos.	1										x	x						
	2	Continue assisting WMA to improve performance	Nos.	1							x	x	x	x	x	x	x	x	x	x	x
D		Pre-construction works																			
	1	Engineering Assessment and Topographic surveys	Km	4							x										
	2	Site survey, design data collection and detailed design	No.	29							x	x	x	x							
	3	Preparation of work packages	No.	20									x	x							
	4	Presentation LCS-approach	No.	20									x	x							
	5	LCS preparation 1	No.	20									x	x				x			
	6	LCS training (WMG)	No.	5										x	x						
	7	Draft contract, tendering and work award	No.	20									x	x	x						
	8	Construction monitoring training (WMAs)	No.	2										x	x						

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3	Disaster Preparedness and implementation of CBDRR plan	Nos	2									x	x					x	x				
4	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.	Batch	2											x	x								

Polder 55/2C

Progress up to now June 2017

Polder 55/2C is constituted by the parts of Galachipa, Dashmina and Baufal Upazilas of Patuakhali district with 6275 ha of areas. It has total 46 km length embankment with 7 sluice gates & no inlet or outlet. About 10,173 households are in this polder of which 6,231 households have been involve with Water Management Group (WMG) activities and mostly depend on agricultural activities.

Blue Gold Program has extended its activities in this polder about one & half year back and has been working for livelihood improvement of the polder dwellers through forming functional WMGs. In the meantime, targeted 16 WMGs have been formed and are registered with BWDB. Yet, we could not organize basic trainings for the WMGs and not facilitated to prepare WMG Action Plan (WAP). Even then, they are maintaining their accounts and keeping record properly by the help of CDFs.

After polder establishment, no repair work for embankment and sluice gate has been done so total 17 km of embankment is identified for re-sectioning of which 7.3 km re-sectioning activities is going on and rest will be done in the next season. All 7 sluices are identified for repairing and total 15 km Khal is marked for re-excavation. All these will be done in the next season. At present, water logging is very common in the polder area.

Lessons learned

To develop leadership among the WMGs, we have to organize all basic training including Leadership Development training for the WMG EC members. Local people are not aware on participatory water management activities; WMGs should have that capacity to motivate local people. So, capacity development training is needed for the WMGs as well as needed to organize exchange visit for the farmers to the place where water management is maintained by the farmer themselves. For the WMG sustainability and for the active involvement of WMG members, every WMG should have economical activities e.g. WMG own or collective IGAs should be operated.

2017 / 2018 objectives

Plan is very much important to accomplish any activity effectively so, objectives of annual plan of BGP are given below:

- To enhance BGP achievements in the polder efficiently, effectively within timeframe.
- To identify cooperation & assistance of all concerned for the development of Polder.
- To establish good relationship & coordination with UP, DAE, DLS, DoF and BWDB.

2017/2018 Planned activities

We have planned for building capacity of the WMGs through training because to make a WMG functional its leaders should have the capacity for planning & implementing activities it will have. And as khals are mostly silted, water management is not possible without re-excavation. So, we have planned to re-excavate some of important Khal; again without good conditioned sluice gate, effective water control and management is not possible that's why we have a plan for repairing of all 7 sluice-gate of the polder areas. Even then, community people has informed that they are needed one more new sluice-gate to drain out stagnant water from the polder and our engineering team has validated this demand and we have planned for one new sluice-gate for the polder. Besides this, we have planned for FFS to transfer improve agricultural technologies to the farmers, Community led Fish Culture to enhance activities of the collective action as well as financial stability of the WMGs. We have kept some linkage building & networking development activities for the WMG in the plan as because it will be needed for the WMGs to run their organization independently.

Annual Work Plan with timeline

Process	Step	Description of the Unified Work Process and Steps	Unit	Target								2017-2018												Remarks
					BWDB	DAE	DoF / DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A		Preparation																						
B		Facilitating Collective Actions, Polder Planning and WMG formation																						
	1	Form core group of interested CA leadership and organise horizontal learning																						NA
	2	Prepare first draft PDP and submit to BWDB	no.	1								x												
	3	Facilitate and expand existing CAs																						NA
	4	Provide selective WMG foundation courses using experiential learning methods	no.	5											x	x	x	x						
	5	Support WAP formulation and implementation of CAs with relevant sub-groups	WMG	16										x	x	x	x							
	6	Facilitate LCS implementation with WMGs	WMG	4												x	x							
	7	Organise CA exchange visits/horizontal learning	Event	2												x			x					
	8	WMG Sub Committee formation(O&M Catchment Level & others in WMG Level)	no.	16								x	x											
	9	Catchment level Water Management and O&M Plan preparation and Implementation	no.	7											x	x	x							
	10	Continue assisting WMGs to improve performance	no.	16								x	x	x	x	x	x	x	x	x	x	x	x	
	11	Gender Workshop with LGI and other Stakeholders	no.	4													x	x						
	12	Int. national Women's Day Observation	no.	1																x				
	13	Organizational Management (OM) Training for WMG (03 days)	Batch	8													x	x						

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Polder 47/3

Progress up to now June 2017

Polder 47/3 is a Phase in Polder. Blue Gold Program started work from January, 2017. Disseminations of Blue Gold activities, UP orientation, Consultation meeting for engineering assessment, existing Collective action group identification and liaison with their leadership, core group formation, Polder map preparation, Land and Water Use Workshop completed. 3 FFS were established by BG TA team which module is Fish culture-Beef fattening-Nutrition and 3 FFS conducted by DAE. Design data collection, survey and vetting for embankment completed. 10 km earth work in the embankment also done by contractor. Salinity and water logging is a major problem in this polder. If khal re-excavated in this polder, khal would be used as water reservoir in dry season and also drain water in rainy season.

Lessons learned

- Polder 47/3 is a saline prone area and salinity is the major problem for crop production.
- In this area water body (e.g. Canal, Pond etc.) is available for aquaculture.
- Most of the area cropping intensity is 100%. They cultivate only T-Aman Rice.
- Have a vast opportunity for CA.
- Women are not interested to lead the community.

2017 / 2018 objectives

Polder 47/3 is a phase in polder. We want to achieve following things by this planning year.

- Establish strong relations with UPs, WMGs, BWDB, DAE, DoF & DLS officials.
- Formation functional WMGs and WMA.
- Improve drainage capacity of the polder by re-excavation of canal, repairing of sluice and re-sectioning of embankment.
- Improve cropping intensity and cropping diversity by using reserve fresh water.
- Disseminate improve technology (about fish culture, beef fattening, poultry rearing, vegetable production & Nutrition) through FFS and trail setup.
- Take initiative for collective action.
- Develop Gender and Leadership of WMG members.

2017/2018 Planned activities

In this year we want to form 8 WMGs by utilizing existing collective action groups and submit to BWDB for registration. After WMG registration we take initiative to form one WMA in polder level. After formation of WMG and WMA we facilitate them for initiate collective action, collect fund for O&M activity. In this area farmers grow only T-Aman in Kharif -2 season and two agricultural seasons (Kharif-1 and Rabi Season) remain fallow for salinity. We have a plan for re-excavation of canal for fresh water reserve and by using this water farmers can grow T-Aush NDPD NDPD NDPD NDPD and Rabi crops. We want to initiate some CAWM, community fisheries activities. We disseminate improve technologies about aquaculture, beef fattening, poultry rearing and vegetable production to improve agricultural production and ultimately improve livelihood of polder dwellers.

Annual Work Plan with timeline

		Description of the Unified Work Process and Steps	Unit	Target								2017-2018											Remarks	
Process	Step				BWDB	DAE	DoF / DLS	LGI	Core	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M		J
A		Preparation																						
B		Facilitating Collective Actions, Polder Planning and WMG formation																						
	1	Conduct UP & Upazila orientation	Nos	1										x										UP, Done
	2	Identify and support existing collective actions (CA) and liaise with their leadership	Nos	20								x	x	x	x									
	3	Conduct walk-through, mapping with CA leadership & key informants and data collection (household survey)	Nos	11 (Village)								x	x											
	4	Form core group of interested CA leadership and organise horizontal learning	Nos	8								x	x											
	5	Prepare first draft PDP and submit to BWDB	Nos	1								x												
	6	Facilitate and expand existing CAs	Nos	8								x	x	x	x	x	x							
	7	WMG EC formation and Registration	Nos	8										x	x	x	x							
	8	Collect O&M Fund in 8 WMGS	Tk.	18,000												x	x	x	x	x	x	x	x	

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Polder 47/4

Progress up to now June 2017

Polder 47/4 is a Phase in Polder. Blue Gold Program started work from January, 2017. Disseminations of Blue Gold Program activities, UP orientation, Consultation Meeting for Engineering assessment, Identify existing collective actions (CA) and liaise with their leadership, prepare Polder map, Conduct catchment-level planning meetings to define WMG boundaries, prepare catchment map, Core group formation, Land and Water Use Workshop completed. Design data collection, survey and vetting for embankment completed. 14.375 km earth work in the embankment also done by contractor. 9 FFS were established by TA team which module is Fish culture-Beef fattening-Nutrition and 5 FFS were conducted by DAE (3 FFS completed). Salinity and water logging is a major problem in this polder area. If khal re-excavated in this polder, water reservoir in dry season and also drain water in rainy season.

Lessons learned

- In this area water body (e.g. Canal, Pond etc.) is available for aquaculture.
- Most of the area cropping intensity is 100%. They cultivate only T-Aman Rice.
- Have a vast opportunity for CA.
- Women are not interested to lead the community.

2017 / 2018 objectives

- Establish strong relations with UPs, WMGs, BWDB, DAE, DoF & DLS officials.
- Formation of WMG and WMA.
- Develop Gender and Leadership of WMG members
- Improve drainage capacity of the polder by re-excavation of canal, repairing of sluice and re-sectioning of embankment.
- Improve cropping intensity and cropping diversity by using reserve fresh water.
- Disseminate improve technology (about fish culture, beef fattening, poultry rearing, vegetable production & Nutrition) through FFS and trail setup.
- Take initiative for collective action.

2017/2018 Planned activities

In this year we want to form 18 WMGs by utilizing existing collective action groups and submit to BWDB for registration, after WMG registration we initiate to WMA formation at polder level. After formation of WMG and WMA we facilitate them for initiate collective action, collect fund for O&M activity. In this area farmers grow only T-Aman in Kharif -2 season and two agricultural seasons (Kharif-1 and Rabi Season) remain fallow for salinity. We have a plan for re-excavation of canal for fresh water reserve and by using this water farmers can grow T-Aush and Rabi crops. We want to initiate some CAWM, community fish culture. We disseminate improved technologies for aquaculture, beef fattening, poultry rearing and vegetable production to improve agricultural production and ultimately improve livelihood of polder dwellers.

Annual Work Plan with timeline

Process	Step		Unit	Target								2017-2018												Remarks
					BWDB	DAE	DoF / DLS	LGI	Core Group/WMO	Zonal team	Polder team	J	A	S	O	N	D	J	F	M	A	M	J	
A		Preparation																						
B		Facilitating Collective Actions, Polder Planning and WMG formation																						
	1	Conduct UP & Upazila orientation	Nos	1										x										UP, Done
	2	Identify and support existing collective actions (CA) and liaise with their leadership	Nos	40								x	x	x	x									
	3	Conduct walk-through, mapping with CA leadership & key informants and data collection (household survey)	Nos	53 (Village)								x	x	x										
	4	Form core group of interested CA leadership and organise horizontal learning	Nos	18								x	x											
	5	Prepare first draft PDP and submit to BWDB	Nos	1								x												
	6	Facilitate and expand existing CAs	Nos	18								x	x	x	x	x	x							
	7	WMG EC formation and Registration	Nos	18										x	x	x	x							
	8	Collect O&M Fund in 18 WMGS	Tk.	45,000												x	x	x	x	x	x	x	x	
	9	Sharing Workshop with DAE/DLS/DoF	Nos	1										x										
	10	Promote and implement new CAs with WMG as identified in the catchment level planning meetings	Nos	18								x	x	x	x	x	x	x	x	x	x	x	x	

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D		Pre-construction works																					
	1	Engineering Assessment and Topographic surveys	Km	7								x	x										
	2	Site survey, design data collection and detailed design	Nos	31								x	x	x	x								
	3	Preparation of work packages	Nos	20										x	x								
	4	Presentation LCS-approach	Nos	20											x	x							
	5	LCS preparation 1	Nos	20											x	x							
	6	LCS training (WMG)	Nos	5												x	x						
	7	Draft contract, tendering and work award	Nos	20											x	x	x						
	8	Construction monitoring training (WMAs)	Nos	2												x	x						
	9	Contractor orientation	Nos	1												x							
	10	LCS preparation 2	Nos	20											x	x							
	11	Contract award	Nos	20												x	x						
E		Construction works																					
	1	Re-sectioning of embankment km	Km	7														20	20	20	20	20	
	2	Re-excavation of Khal km	Km	15														25	25	25	25		
	3	Repair of sluice No.	Nos	23														20	20	15	15	15	15
	4	Repair of outlet No.	Nos	0																			
	5	Repair of inlet No.	Nos	1														20	20	15	15	15	15
	6	Construction of sluice No.	Nos	2														10	10	10	10	10	10
	7	Construction of outlet No.	Nos	1														20	20	15	15	15	15
F		Reimbursement																					
G		Agriculture and Economic Development																					

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