



Bangladesh Water Development Board (BWDB)



Kingdom of the Netherlands



Department of Agricultural Extension (DAE)



Draft Annual Plan 2016-17

(July 2016 - June 2017)

July 2016



Draft Annual Plan 2016-17

July 2016/June 2017

July 2016

Blue Gold Program

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Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
1	29/07/16	Blue Gold TA Team Members	Proteeti Masud, Niels van den Berge	Guy Jones	
2	30/09/2016	Blue Gold TA Members	Niels van den Berge	Guy Jones	

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Content

Chapter	Title	Page
1.	Context	6
1.1	Planning process _____	7
1.2	Polder Selection _____	8
1.3	Polder Selection Criteria _____	8
1.4	Selection of 12 polders under 1 st batch _____	8
1.5	Identification and selection of 10 polders under 2nd batch _____	8
1.6	Program rationale & objectives _____	9
1.7	Overall Goal& Specific Objectives of Blue Gold Program _____	10
1.8	Area _____	11
1.9	Program Management _____	11
2.	Annual Budget Estimate for July 2016 - June 17	13

Annexes

1.1	Polder 22 _____	16
1.4	Polder 30 _____	36
1.5	Polder 31 Part _____	43
1.6	Polder 21 _____	50
1.7	Polder 25 _____	51
1.8	Polder 27/1 _____	52
1.9	Polder 27/2 _____	54
1.10	Polder 28/1 _____	55
1.11	Polder 28-2 _____	57
1.12	Polder 2 _____	60
1.13	Polder 43/2A _____	66
1.14	Polder 43/1A _____	71
1.15	Polder 43/ 2B _____	78
1.17	Polder 43/2E _____	90
1.18	Polder 43/2F _____	94
1.19	Polder 55/2A _____	101
1.20	Polder 55/2C _____	106
1.21	Polder 47/3 _____	111
1.22	Polder 47/4 _____	114
1.23	Agriculture & Marketing Activities not specific to one Polder _____	116
1.24	Institutional Strangthening _____	118
1.25	Innovation Fund _____	119
1.26	Communication _____	119
1.27	Training _____	120

Tables

Table 1	21
Table 2	21
Table 3	27
Table 4	27
Table 5	33
Table 6	33
Table 7	40
Table 8	40
Table 9	47
Table 10	47
Table 11	50
Table 12	50
Table 13	51
Table 14	51
Table 15	52
Table 16	52
Table 17	54
Table 18	54
Table 19	55
Table 20	56
Table 21	57
Table 22	60
Table 23	60
Table 24	63
Table 25	69
Table 26	69
Table 27	75
Table 28	75
Table 29	81
Table 30	81
Table 31	86
Table 32	86
Table 33	92
Table 34	92
Table 35	100
Table 36	100
Table 37	104
Table 38	104
Table 39	109
Table 40	109
Table 41	111
Table 42	112
Table 43	114
Table 44	114

Figures

Figure 2: High-level Results Chain	10
Figure 4: Selected and Probable BGP Polders.....	11

List of Abbreviations

ADP	Annual Development Plan
AEO	Agricultural Extension Officer
AGEP	Agricultural Growth and Employment Program
AGM	Annual General Meeting
BAU	Bangladesh Agriculture University
BGP	Blue Gold Program
BWDB	Bangladesh Water Development Board
CAHW	Community Animal Health Worker
CBO	Community-Based Organisation
CDMP	Comprehensive Disaster Management Program
CDSP IV	Char Development and Settlement Project Phase IV
CEIP	Coastal Embankment improvement Project
CF	Contact Farmers
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
CWMR	Community Water Management Rules
DAE	Department of Agricultural Extension
DAM	Department of Agricultural Marketing
DLS	Department of Livestock Services
DoC or DOC	Department of Cooperatives
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
EMM	Euroconsult Mott MacDonald
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
IFMC	Integrated Farm Management Component
IGA	Income Generating Activity
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
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
MoU	Memorandum of Understanding
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
SDE	Sub-Divisional Engineer
SWAIWRPMP	Southwest Area Integrated Water Resources Planning and Management Project
TA	Technical Assistance
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
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 – agriculture nexus, which is being implemented by BWDB and DAE and which is funded by the Governments of Bangladesh and the Netherlands. Blue Gold is implemented in 3 coastal districts of Bangladesh; Patuakhali, Barguna, Khulna and Satkhira.

The Blue Gold Program is guided by the following policies;

- National Water Policy (NWPo, 1999);
- Guidelines for Participatory Water Management (GPWM, 2000);
- National Water Management Plan (NWMP).
- Participatory Water Management Rule (PWMR 2014)

It is also drawing systematically on the experiences of past projects and 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.

The program is taking place during a six year period from March 2013 to February 2019. A possible extension until the end of 2020 is under discussion.

Following the project documents and DPPs the Blue Gold Program covers around 26 polders under Patuakhali, Barguna, Khulna and Satkhira districts. The number of polders as well as coverage area may be reduced depending on availability of fund.

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.

The list of potential polders as shown in the DPP is given in Annex 1. The Blue Gold Polders are selected from the potential list, except polder 25 which is taken from out of this list and should be included in the revised DPP. 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 hereby submitted for approval. This report has been prepared for submission in the process of approval for final selection.

1.1 Planning process

In the first half of 2016, the TA has been reorganised to increase coordination and collaboration between different BGP components. Decentralisation is a key element of this reorganisation and addresses several MTR Recommendations¹ as well as crucial elements in the Exit Strategy. In the first half of 2016, BGP has formed active polder teams in which different polder-level staff (CO, FO, PF) together with a district-level expert (Polder Coordinator) work together. The Polder Teams started meeting frequently to plan and coordinate activities and to reflect on their progress, challenges and lessons learned. Government officials (e.g. BWDB, DAE, DoF, DLS and LGI) are also invited for the meetings.

Steps taken

- Form TA Polder Teams (April);
- Train the Polder Teams on coordination, planning, reflection and teambuilding (May);
- TA Polder Teams set first meetings with the government officials in their polders (June/July);
- Planning Workshops with the Polders and District-level Teams (June);
- Polder and District Teams organise planning meetings with government officials and WMO representatives (July).

Activity Planning

This Activity Plan 2016-2017 is the result of a participatory process in which Dhaka-level Program Advisors gave suggestions, Polder and District Teams reviewed the suggestions and added their own plans and preliminary polder-wise activity plans were shared with government officials and WMO representatives.

Future Steps

- Polder Teams (both TA, government officials and WMO representatives) meet monthly to plan their work, reflect on progress, good practices and lessons learned;
- Polder Teams will be supported through training and capacity development to increase their planning, time management and coordination skills;
- Polder Teams and District Teams will have increasing influence on planning and implementation in BGP;
- Implementation management by central-level staff is phased out, while implementation management by polder and district-level teams is phased in.

Results so far

Although the restructuring has just started and needs more time to be fully operationalized, the first results become visible:

- Polder-level and District-level staff from different BGP teams (former components have been replaced by multidisciplinary teams) have a better understanding of each other's work;
- Polder-level staff with different specialisms (e.g. community mobilisation, water management, agricultural production and value chain development) can follow-up on each other's work;
- Increased collaboration between different BGP partners (e.g. BWDB, DAE and TA) at polder-level. Government officials participated actively in the first meetings of the Polder Teams.

1.2 Polder Selection

Following the project document and DPP of Blue Gold Program (BGP) the tentative polder distribution prepared based on preliminary desk analysis of the selection criteria and field information's are given below:

District	Number of Identified and Selected Polders		
	IPSWAM polders	Non IPSWAM polders	Total
Patuakhali	4	4	8
Barguna	2	0	2
Khulna	3	8	11

¹ E.g. MTR Recommendations 2 - 'To strengthen integration between the TA activity clusters, restructure field operations to use a single point interface with WMOs', 5.2 'Positive strengthening of relationships with BWD/DAE/LGIs/BGP TA is to be encouraged at all levels', 10 - 'Form working implementation groups at central and zonally levels comprising BWDB, DAE, DoF, DoL, LGIs & BGP TA to develop current and future roles and responsibilities as part of the BGP exit strategy'

Satkhira	0	1	1
Total	9	13	22

1.3 Polder Selection Criteria

The polder selection criteria as indicated in the inception report of Blue Gold Program are furnished below:

- There should be no major conflicts in the communities and between occupational groups.
- The concerned Local Government Institution should have a positive attitude with regard to the project.
- Basic organizations dealing with water management should already be present in the area. If not, the stakeholders should show interest in establishing WMOs and in taking over responsibilities for Operation and Maintenance (O&M). They should further express their willingness to contribute to the O&M activities.
- There should be a good prospect for the project to have significant positive impacts.
- The polder has a reasonable level (to be defined during implementation) of current and potential economic activity and production.
- The return on investment and benefits for the activities should be well distributed among the different stakeholders residing in the area.
- There should be scope for better utilization of the available water resources, involving relatively minor rehabilitation of the infrastructure (no major erosion threat).

1.4 Selection of 12 polders under 1st batch

A total of 12 polders have already been selected (following the multi criteria analysis) in 1st batch of which nine are IPSWAM (Polders 43/2A, 43/2B, 43/2D, 43/2E, Polders 43/2F, 43/1A, 22, 29 and 30) polders and three are new (Polders 26, 31part and 2) non IPSWAM polders, covering an area of about 65000 ha. The 12 polder selection has been approved by BWDB in vide BG's diary no 2831 dated 17.05.2015. The district wise distribution of polders is presented below:

District	Name of Polder	Number of Identified and Selected Polders		
		IPSWAM polders	Non IPSWAM polders	Total
Patuakhali	43/2A, 43/2B, 43/2D and 43/2E	4	0	4
Barguna	43/2F and 43/1A	2	0	2
Khulna	22, 26, 29, 30 and 31part	3	2	5
Satkhira	Polder 2	0	1	1
	Total No.	9	3	12

1.5 Identification and selection of 10 polders under 2nd batch

Following the recommendations of MTR Mission 2015, to achieve the revised area coverage target of 115,000 ha, Blue Gold program took initiative to identify 10 more non IPSWAM polders. Out of these 10 polders, 2 polders (55/2A and 55/2C) are located in Patuakhali District under Patuakhali O&M Division, 2 polders (47/3 and 47/4) are located in Patuakhali District under Kalapara WD Division, 6 polders are located in Khulna District of which 1 polder (polder 21) is under Khulna O&M Division II and 5 polders (25, 27/1, 27/2, 28/1 and 28/2) are under Khulna O&M Division I). With inclusion of these 10 new polders, total gross area of Blue Gold Program now stands at 115,641 ha, which is very close to the target area. The only new polder under Khulna O&M Division -2 (polder 21) has been considered as a major rehabilitation polder as all the 3 sluices in this polder will have to be reconstructed. Based on the joint field visit of BWDB (DP III and field Division) officials and TA team members during November 2015, polder selection criteria were verified for the above mentioned polders and have been found suitable to include under Blue Gold Program.

The total area of proposed 10 potential polders covers of about 53,341 ha. Out of 10 polders 9 polders are included in the list of potential polder in DPP. Polder 25 was selected by the demand of local community, LGIs and BWDB Division as no other better polder was also available for selection following the Blue Gold Program polder selection criteria. The distribution of these polders are presented below:

District	Name of Polder	Number of Identified and Selected Polders		
		IPSWAM polders	Non IPSWAM polders	Total
Patuakhali	Polder 47/3 & 47/4 under Kalapara WD Division	0	2	2
	Polder 55/2A & 55/2C under Patuakhali O&M Division	0	2	2
Khulna	Polder 21 under Khulna O&M Division II	0	1	1
	25, 27/1, 27/2, 28/1 & 28/2 under Khulna O&M Division I	0	5	5
	Total No.	0	10	10

1.6 Program rationale & objectives

The Blue Gold Program (BGP) has been running for over 3 years now. The Mid-term Review Mission recommended updating the Theory of Change to show “the evidence on the inclusive growth impacts of the different integrated activities undertaken, the efficacy of community mobilisation, the value of in-polder water management in terms of land productivity and others.” In the first half of this year, the BGP updated and revised its Theory of Change² through a series of workshops, Focus Group Discussions and Key Informant Interviews to address the MTR Recommendations and to increase coordination and collaboration between BGP components and partners. Key Program Partners/among others, Bangladesh Water Development Board (BWDB) and the Department of Agricultural Extension (DAE) officials/have actively engaged in the process of updating and revising the Theory of Change.

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 Management³. In a nut shell that means enabling and facilitating participatory infrastructure planning (Water Management Organisations take a keener interest in operation and maintenance if infrastructure is configured in 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

² BGP Working Paper 5 ‘Theory of Change’, May 2016

³ 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)

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.

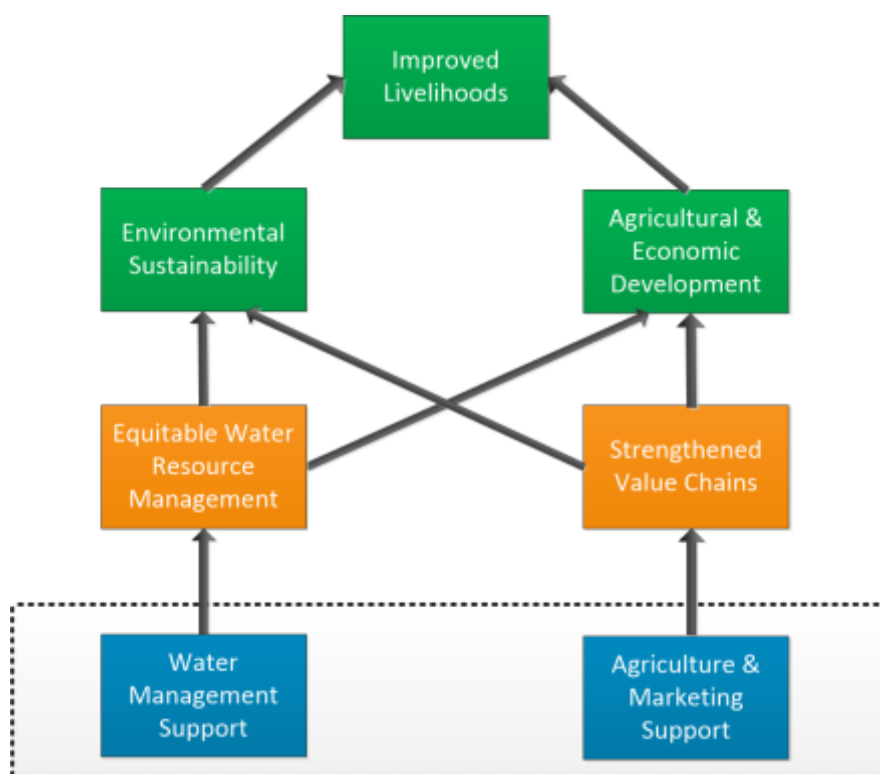


Figure 1: High-level Results Chain

1.7 Overall Goal & Specific Objectives of Blue Gold Program

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 Change⁴.

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.

⁴ BGP Working Paper 5 ‘Theory of Change’, May 2016

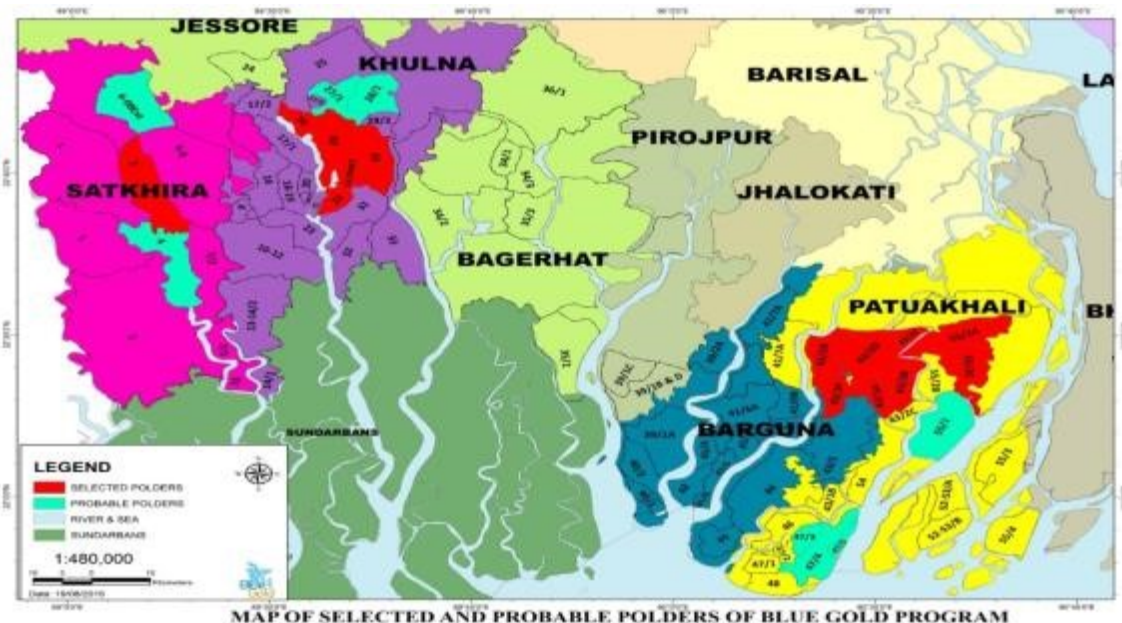


Figure 2: Selected and Probable BGP Polders

1.8 Area

The map above (Fig. 2) shows the polders that have been selected and are likely to be selected in the near future. Annex III to this Annual Plan includes a detailed overview of all selected and probable polders.

1.9 Program Management

Based on the MTR and revised Took, the BGP TA Team has been reorganised in the first half of this year. To increase collaboration and coordination between different components of the program, 3 cross-disciplinary teams have been formed:

- 1) Equitable Water Management
- 2) Strengthened Value Chains
- 3) Improved Livelihoods

All teams consist of both Dhaka-based and zonally-level staff.

In addition to improved coordination and collaboration, decentralisation is another important objective of the reorganisation. Regular coordination of BGP TA activities at zonally and polder levels with branches of implementing agencies (BWDB, DAE); with representatives of key agencies (LGIs, associated line departments, other relevant agencies); and with emerging water management organisation representatives required that a stronger mandate was given to the zonally BGP TA team and, under its aegis, to the polder BGP TA team.

Several steps have been taken to enhance the mandate and own initiative of the zonally and polder BGP TA teams, while at the same time securing adequate support in the form of national coordination, technical advisory services and resources. Polder Teams have been formed in which staff from different components work together to plan, implement and reflect on activities. Zonal Coordinators and Polder Coordinators have been selected and started shaping the decentralisation. This Annual Activity Plan has been drafted through a participatory process in which Dhaka-based Program Advisors, Technical Experts at zonally level and implementing staff at polder level worked closely together.

2. Annual Budget Estimate for July 2016 - June 17

					Remarks
S.N	Task Name	Quantity	Budget BDT (Lakh)	Budget EUR (K)	EUR : BDT based on average Q1 + Q2 2016 - > 1: 87.8231
1	Institutional Framework for Participatory Water Management (PWM)				
1.1	WMGs install accounts keeping system and undergo audit	452.0	17.80	20.26	
1.2	Organize exposure visit/ Learning Sharing Visit for WMOs	39.0	8.03	9.14	
1.3	WMA Action Planning workshop	9.0	18.68	21.27	
1.4	Water & Land Use Planning Workshop	5.0	2.60	2.96	
1.5	Network Building with LGI	N/A	31.80	36.21	
1.6	Data Collection & Needs Assessment	N/A	14.00	15.94	
	Sub Total Institutional Framework for PWM	505.0	92.90	105.78	
2	Main Infrastructure				<i>Actual expenditures are like to deviate, subject to DPP revision, includes additional RPA funds</i>
2.1	Embankment Re-sectioning (km)	90.40	1,005.70	1,145.14	
2.2	Embankment Retirement (km)	2.0	200.00	227.73	
2.3	Canal Re-excavation (km)	115.15	1,390.50	1,583.30	
2.4	Repair of Sluices (nos.)	32.0	315.00	358.68	
2.5	Repair of Outlets (nos.)	3.0	17.00	19.36	
2.6	Repair of Inlets (nos.)	41.0	50.88	57.93	
2.7	Construction of Sluices (nos.)	5.0	300.00	341.60	
2.8	Construction of Outlets (nos.)	1	30.00	34.20	
2.9	Construction of Inlets (nos.)	-	-	-	
2.10	Construction of Culverts (nos.)	3.0	180.00	204.96	
2.11	Pump Shed & Stilling Basin (nos.)	2.0	60.00	68.32	
2.12	Low Cost Bank Protection (km)	2.0	150.00	170.80	
2.13	Continued works from 2015 - 2016	398.22	2069.77	2356.75	New works carried over from 2015 - 2016
	Sub Total Main Infrastructure	694.77	5,768.85	6568.77	
3	Internal Water Management				
3.1	Catchment Consultations & Action Planning	31.0	37.14	42.29	
3.2	Training & Inputs	46.0	74.85	85.22	
3.3	Infrastructural Improvements	10.0	70.00	79.71	
3.4	(Participatory) Monitoring & Adaptive Learning	20.0	5.70	6.49	
	Sub Total Internal Water Management	107.0	187.69	213.71	
4	Agriculture & Marketing Services				
4.1	Linkage with DAE	TBD	18.99	21.62	

4.2	DAE Review & Planning Workshops	4	[2.00]	[2.28]	<i>From DAE budget, not from TA budget</i>
4.3	Market Development	TBD	6.90	7.86	
4.4	MFS	108	31.69	36.09	
4.5	FFS TA	352	127.60	145.29	
4.6	FFS DAE	198	118.80	135.27	<i>From DAE budget, not from TA budget</i>
4.7	Demonstrations by DAE	69	[10.56]	[12.02]	<i>From DAE budget, not from TA budget</i>
4.8	DAE Motivational Tours	5	[2.50]	[2.85]	<i>From DAE budget, not from TA budget</i>
4.9	Fair / Meal / Drama	30	[3.84]	[4.37]	<i>From DAE budget, not from TA budget</i>
4.10	Support Producer Groups	107	32.86	37.42	
4.11	Train Contact Farmers	584	14.02	15.96	
4.12	Train DAE Farmer Trainers	72	[22.03]	[25.08]	<i>From DAE budget, not from TA budget</i>
4.13	Support Resource Farmers	18	3.10	3.53	
4.14	Support Community Animal Health Workers	59	1.40	1.60	
4.15	Sub Total Agriculture & Marketing Services	1486	355.36	404.63	
5	<i>Environmental & Social Management / Disaster Risk Reduction (DRR)</i>				
5.1	Environmental Compliance Monitoring / Reports DoE	TBD	0.42	0.48	
5.2	Obtaining Environmental Clearance Certificate from DoE	TBD	44.00	50.10	
5.3	Reconstitution of UDMCs	TBD	14.00	15.94	
5.4	Disaster Preparedness and implementation of CBDRR plan	TBD	5.30	6.03	
5.5	Training for DRR Councillors and UDMCs	TBD	25.15	28.64	
5.6	Environment and DRR Day Observance	TBD	0.60	0.68	
5.7	Follow-up Trainings & Meetings	TBD	5.00	5.69	
	Sub Total Env. & Soc. Mgt. / DRR	TBD	94.47	107.57	
6	<i>Training</i>				
6.1	Gender & Leadership Training WMGs	155	218.53	248.83	
6.2	Operation & Maintenance Training	33	39.60	45.09	
6.3	Participatory Monitoring Training	29	17.40	19.81	
6.4	Planning Workshops	24	13.20	15.03	
6.5	Organisational Management Training	124	163.84	186.56	
6.6	Training on Construction Management	43	13.85	15.77	
6.7	Training on Monitoring & Quality Control during construction	24	6.00	6.83	
6.8	Vocational Educational Training (VET)	2	90.00	102.48	Phase I is likely to be finished before July 2016, Phase II by December 2016
6.9	Skill & Capacity Development TA staff	78	65.58	74.67	
	Sub Total Training	512	627.99	715.07	
7	<i>Innovations</i>				
7.1	Aqua geonics project	1	38.00	43.27	
7.2	Innovations on fisheries	2	0.99	1.13	
7.3	Sugar Beet Trial in combination with Duck Rearing	5	3.20	3.64	
7.4	Roads for Flood Protection and Water Management	1	21.80	24.82	

7.5	Follow-up study on access to energy in the polders	1	21.92	24.96	
7.6	Eco ponds and empowering women	1	43.91	50	
7.8	Collective action for improved water management	1	43.91	50	
7.9	Innovation Fund Project under Review (not yet committed)	7	138.47	157.67	
	Sub Total Innovations		312.20	355.49	
7	<i>Project Management & Logistics</i>				
7.1	Monitoring, Reflection and Learning	N/A	150	170.80	
7.2	Operation Cost				
7.3	Other program management cost				
			150	170.80	
	Sub Total (Cluster 1 - 7)		6,994.98	7,964.85	
8	<i>Miscellaneous (7%)</i>		489.65	557.54	
	TOTAL		7,484.63	8,522.39	

Annex 1. List of Selected & Probable Polders

S.N.	Polder Name	Zone (District)	Remarks
1.	Polder 22	Khulna	
2.	Polder 26	Khulna	
3.	Polder 29	Khulna	
4.	Polder 30	Khulna	
5.	Polder 31 Part	Khulna	
6.	Polder 21	Khulna	Probable Polder
7.	Polder 25	Khulna	Probable Polder
8.	Polder 27/1	Khulna	Probable Polder
9.	Polder 27/2	Khulna	Probable Polder
10.	Polder 28/1	Khulna	Probable Polder
11.	Polder 2	Satkhira	
12.	Polder 43/ 2A	Patuakhali	
13.	Polder 43/1A	Patuakhali ,Barguna	
14.	Polder 43/2B	Patuakhali, Barguna	
15.	Polder 43/2D	Patuakhali	
16.	Polder 43/2E	Patuakhali	
17.	Polder 43/2F	Patuakhali ,Barguna	
18.	Polder 55/2A	Patuakhali	
19.	Polder 55/2C	Patuakhali	
20.	Polder 55/2A	Patuakhali	
21.	Polder 47/3	Patuakhali	Probable Polder
22.	Polder 47/4	Patuakhali	Probable Polder

Annex 2. Polder-wise Detailed Overall Work Plan 2016-17

1.1 Polder 22

Introduction to the Polder

Polder 22 is one of the nine polders belonging to the District of Khulna under Paikgacha Upazila. Polder 22 is situated at Deluti Union. Deluti Union has 19 Mouza's (11 Mouza's are within the Polder) which contain only 12 villages. The Deluti Union is the only Union in this Polder.

Area and population: 1417 ha & 8444

Occupations of Polder's dwellers: Main source of income is agriculture (37.1%), agricultural labour (21.5%), non-agricultural labour (16.1%), business (6.5%), fisheries (5.8%), service (4.5%), transport (4.5%) and others (4%).

Institutional Framework for Participatory Water Management

There are 12 WMGs in Polder-22 which were formed under IPSWAM project. Blue Gold has been working in this polder since May, 2013. While working here, it was observed that most of the WMGs were dormant and not functional. Blue Gold Program re-organized the Executive Committees of the 12 WMGs with support from the community and registered them with BWDB during 2014-2015, following the Participatory Water Management Rules 2014. Moreover, two WMAs were formed in polder-22 in 2015 by submitting documents for registration to PEO, BWDB. WMOs have been linking with BWDB, DAE and Union Parishad and have taken following initiatives at the polder level:

- **WMO Strengthening Activities:** 55% HHs enrolment to WMGs, developed WMO By-laws, Formulated integrated WAP with assistance from government agencies and local governments, Started savings collection, O&M fund raising, organized preparation for audit
- **Main Infrastructure:** Regular O&M work.
- **Internal Water Management:** Identified Community Water Management site.
- **Overall Improvement of Livelihood:** Income generating activities; LCS work allocation to vulnerable group, Identified the BWDB unused land to create scope for WMOs;

Infrastructure Development

Community needs were taken into account while planning for new infrastructure before starting infrastructure development with a view to empower communities and play role in operation and maintenance. Salient information on Blue Gold implementation work:

Name of work	No.(s)/ Length (km)	Remarks
Re-sectioning of embankment	3.900 km	Completed
Repairing (backing) of embankment	0.175 km	Completed
Re- excavation of khal	9.265 km	Completed
Repairing of sluice	1 no	Completed
Repairing of Outlet	4 nos	Completed
Repairing of Inlet	1 no	Completed

Have planned 1 Drainage sluice repairing , 1 outlet repairing, 2 irrigation new inlet construction, 1 gated culvert construction, re-tired embankment 500 metre and low cost river bank protective works.

Internal Water Management

Initiatives have been taken already and are planned to improve catchment-level and on-farm water management in collaboration with Department of Agriculture Extension (DAE). Two FFS are formed on rice production and on-going to ensure community water resource management.

Agricultural & Marketing Services

Year wise progress on Farmer Field School (FFS) at a glance

Module name	Total FFS	Status	Working Year	# of FFS participants
Homestead gardening-Poultry-Nutrition	8	Phase out	2014	200
Fisheries- Beef fattening- Nutrition	8	Phase out	2015	200
Mini pond- Watermelon - Vegetable	1	Phase out	2014	25
Mini pond- Watermelon - Vegetable	1	Phase out	2015	23
Total	18			448

The following initiatives have been taken to increase agricultural production:

- Organized 18 farmers group through FFS.
- Facilitated hands on skill development training on needs based areas (poultry, vegetable, fisheries, beef fattening, and watermelon) for 448 farmers.
- Established 18 demonstration and trial on poultry, vegetable, fisheries, beef fattening, and watermelon .
- Established special demonstration on dragon fruit, passion fruit, and strawberry.
- Organized 18 Farmer's Field Day (FFD) for dissemination of FFS learning.

Leading Contact Farmers (CF) towards functional at own FFS: We selected 17 contact farmers based on successful contribution and achievement before phase out of all FFS. We organized skill development training for all selected CF aiming to increase their facilitation skills to support FFS participants as and when required towards sustainability of FFS activities.

List of fish species cultivated currently: Silver carp, Catla, Rui, Grass carp, Thai Shorputi, Mono sex tilapia and Golda.

New fish species that can be introduced: Pabda (High value cat fish) based on findings of 2 on-going demonstrations at Polder 2 and 26.

List of crops cultivated currently: T. Amon, Sesame, and Mungbean.

New crops can be introduced: Based on learning of previous 2 FFS, watermelon could be introduced as a cash crop.

Market services: Total numbers of resource farmers (RF) under this polder is 28 (Sesame MFS 10, Poultry MFS 8 and Rice MFS 10)

Year wise progress on Market Oriented Farmer's Field School (MFS) at a glance

MFS Name	Total	Status	Participant Number	Remarks
Sesame Market Oriented Farmer's Field School	10	On-going	250	10 MFS started in 2016
Poultry Market Oriented Farmers Field School	8	On-going	200	8 MFS started in 2015
Rice Market Oriented Farmer's Field School	10	On-going	250	10 MFS started in 2016
Total	28		700	

Major activities accomplished:

- Linkage building done between Input supplier and MFS members; power tiller operators and MFS members; buyers and MFS members;
- Promoted collective action - collectively selling, tillage and purchasing
- Linkage building done with DAE Officials.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

This polder is a disaster prone area. Salinity intrusion is the major challenge for crops, fisheries and livestock resources. Vegetable production is limited by presence of salinity with soil and water. Nevertheless, the initiatives taken on environment as well as DRR are stated below under this polder.

Environment: Obtained Environmental Clearance Certificate (ECC) from Department of Environment (DoE). ESMP was drafted which needed to be updated during 'Joint Planning Workshop at Polder level'. Orientation is provided to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues and conditions of ECC. Environmental compliance monitoring is going on and preparation of quarterly report is under process which will be submitted to DoE very soon.

Disaster Risk Reduction (DRR): There is one Union Parishad under Polder 22 (Deluti) where the Union Disaster Management Committees (UDMC) is in place. It is noted that it need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting and AGM after the dry runs been organised. The process for hiring service providers is going on for providing training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management.

Good Practices, Lessons Learned and Innovations

People were facing acute sweet water shortage for irrigation particularly in dry seasons under Polder 22 at Sayedkhali Village. Due to salinity in water and soil, farmers are not able to cultivate different crops after T. Aman. Some land can be brought under high value crop cultivation if supplementary irrigation is ensured. Digging a mini pond inside a crop land became the best option for storing sweet water during rainy seasons that could be used to irrigate watermelon and winter crops. Blue Gold Program shared the ideas of mini pond, vegetable and watermelon cultivation with some members of the local community. Watermelon is mainly a cash crop in our country. It requires fresh water for cultivation. This model was practiced at Syedkhali through FFS approach in 2014 that yielded a promising result. A total of 25 farmers were selected to form watermelon FFS. The selected farmers participated in training on watermelon cultivation and fish cultivation in the mini pond. Blue Gold provided some money to partly finance the excavation of the ponds. From the learning and experiences at Syedkhali, Blue Gold Program took another initiative to replicate this similar model at Durgapur WMG, which is another village of Polder -22. Here a FFS was formed with 23 interested farmers at Durgapur. Each farmer excavated/re-excavated a mini pond adjacent to the proposed watermelon plot. There are 23 mini ponds that covered 83 decimals. Pond size is 2 decimal to 6 decimal with average water depth of 5-6 ft. during this model. Some ponds are separated by dykes from watermelon plot and few ponds are without dykes. These ponds were located either in corner of the plot, some are in one side and few are two sides of plot. Farmers reserved this pond with fresh water during monsoon.

At Durgapur, each farmer stocked one hundred of fingerling (Silver barb 50 and Mono sex Tilapia 50) per decimal in the month of August, 2015. Seeds of four types of vegetables were sown in September, 2015 on the dike of each mini pond. Seeds of watermelon were sown by each farmer at the adjacent land with

mini pond in March 2016. Blue Gold provided all necessary technical support through FFS approach. Regular follow up was ensured by Blue Gold staff. Final data was collected on all produces by FO. The FFS was closed formally through organizing FFD and result was shared in front of audiences' presence.

Achievements at a glance at Durgapur Mini pond-Watermelon FFS:

Fish Cultivation: Culture period for fish was 7 months. Initial average weight of Shorputi was 8g and Mono sex Tilapia was 7g during stocking at pond. Average weights of these fish species were 125g and 70g respectively during harvesting. Growth of Shorputi ranged 90g- 200g while Tilapia ranged 50- 100g during harvesting. Highest net income from fish was BDT 4076 by one of the farmers.

Vegetable Production: Culture period was for vegetable production was only 3 months. The value of produced vegetable ranged BDT 150- 950. There was a significant variation of production as number of pond dikes was not similar for each farmer. Based on feasibility, 1-3 dikes were used by farmers for vegetable production. Major use of produced vegetables was family consumption.

Watermelon Cultivation: Culture period for watermelon cultivation was only 3 months. Production of watermelon ranged from 604-1240 KG for 23 farmers as land size ranged 8-20 decimals by farmers. Estimated family consumption recorded was 50-80 KG/farmer, the average selling price of watermelon was BDT20/kg. The highest amounts of watermelons were sold at Aratder in Khulna. Small amounts were sold at local market where price was comparatively lower compared to Aratder. Weight of one Watermelon ranged 4KG/9 KG taken during selling at local market.

Major learning:

- Knowledge and skill of farmers have increased for the improve methods of watermelon cultivation.
- Mini ponds technology for fish cultivation and uses of reserved sweet water for crop production has been proved.
- Productivity and cropping intensity of fallow land has been increased.
- Household's income has been increased significantly.
- FFS Farmers as well as neighbouring farmers have been motivated to cultivate watermelon and other winter crops by using water from mini ponds.
- Household food security has been improved.
- Community people showed keen interest and planning to cultivate watermelon at their land from next season.

Remarks

This model proved to be beneficial not only, but also it positively improved nutritional state of each farm family. This model could be replicated to other WMGs under Blue Gold based on feasibility and farmer's interest.

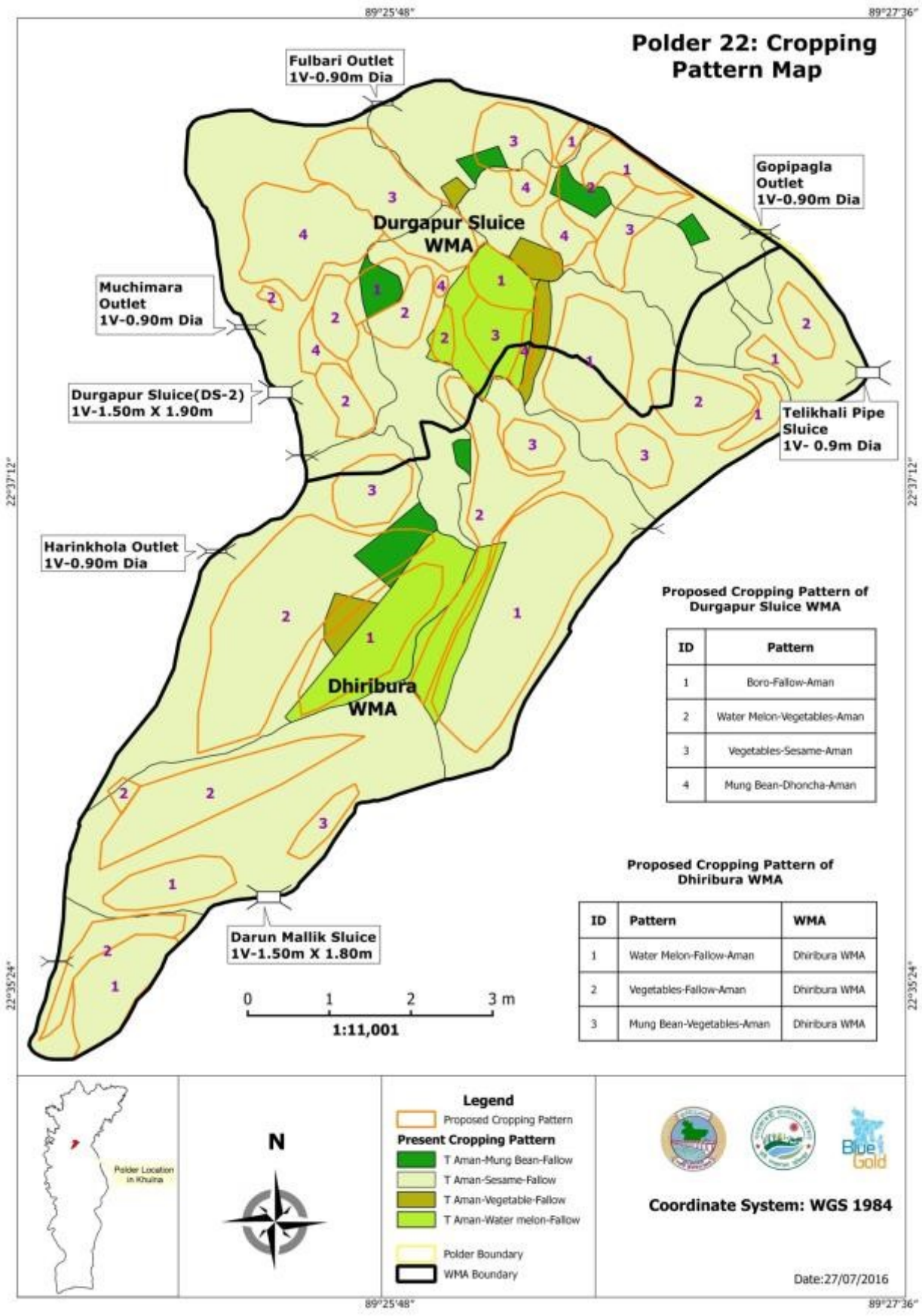


Table 1
Polder 22 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	3.4	3.9
2	Main Infrastructure	34.02	38.74
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	37.5	42.7
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	11.1	12.7
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	1.8	2.1
6	Training	14.1	16.0
	TOTAL	101.92	116.05

Table 2
Polder 22 Activity Plan for year 2016-17

S.N.	Task Name	Target	Year 2016						Year 2017						Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	
1	Institutional Framework for Participatory Water Management														
1.1	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	12	x										x	x	
1.2	Facilitate formation and capacity building of necessary WMG sub-committees	12	x	x	x	x	x	x	x	x	x	x	x		
1.3	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	-	x	x	x	x	x	x	x	x	x	x	x		Motivation & support
1.4	Support WMGs to install accounts keeping system and undergo audit	12		x	x	x	x	x							Support WMG
1.5	Support WMGs to conduct Annual General Meeting & Quarterly General Meeting	9+12 36			x			x			x		x		Support WMG
1.6	Support WMGs in membership enrolment and organising orientation and training.	12	x	x	x	x	x	x	x	x	x	x	x	x	
1.7	Support WMGs in implementing horizontal and adaptive learning activities	6	x	x	x	x	x	x	x	x	x	x	x	x	Motivational Activity
1.8	Stimulate WMGs to enrol members from large farmers	2	x	x											Under process
1.9	Support WMA Registration Processing	2	x	x	x	x	x	x	x	x	x	x	x		
1.10	Community Water Management Project Implementation	2	x	x	x	x	x	x							Linkage with DAE

1.11	Organize exposure visit/ Learning Sharing Visit for WMOs	2			x	x													For Dihibura khal & Durgapur Sluice WMA
2	Main Infrastructure																		
2.1	Design Data Collection & Detailed Design	-	x	x	x	x													
2.2	Estimate Preparation & Vetting	-			x	x	x	x											
2.3	Preparation of Work Packages	-				x	x	x											
2.4	Embankment Retirement	0.50 km							x	x	x	x	x						only earthwork implementation
2.5	Repair of Sluices	1 nos.							x	x	x	x	x	x					
2.6	Repair of Outlets	1 nos.							x	x	x	x	x	x					
2.7	Construction of Inlets	2 nos.							x	x	x	x	x	x					
2.8	Construction of Culverts	1 nos.							x	x	x	x	x	x					
2.9	Low Cost Bank Protection	0.75 km							x	x	x	x	x	x					
2.10	Form Monitoring Committee (MC) and monitor quality of works and certify bill	2							x	x	x	x	x	x					For Dihibura khal & Durgapur Sluice WMA
2.11	Monitoring and Quality Control of works and bill certification (WNG, WMC, TA, BWDB)	-							x	x	x	x	x	x					Depends on Work completion
2.12	LCS Formation & Training	-				x	x												
2.13	Monitoring Committee Formation & Training (if any)	-				x	x	x	x										
2.14	Contractor Orientation, Tendering & Work	-						x	x	x									Contractor Orientation/Workshop including MC, WMG, WMA
2.15	Formation of WMA O&M Committee	2	x	x	x														For Dihibura khal & Durgapur Sluice WMA
2.16	Regular O&M	6	x	x	x	x	x	x	x	x	x	x	x	x					Visit & Follow up
2.17	Follow up WMGs implementing operation and maintenance works based on WAP	12	x	x	x	x	x	x	x	x	x	x	x	x					Visit & Follow up
2.18	WMA and WMGs formulate O&M resource mobilization mechanism (with GoB and LGI)	-												x	x	x			Maintain Linkage with related Organisation
3	Agriculture & Marketing Services																		
3.1	Follow up Cycles 1, 2 and 4	17							x	x	x	x							Cycle 1 & 4 (Homestead vegetables & fruits, poultry, and nutrition) Fish, Cycle 2 (Large ruminants, Nutrition) were conducted on year 2014 & 2015; 17 FFS follow-up survey, backstopping FFS and Contact Farmers. Need support of FOs
3.2	Train contact farmers Cycles 1, 2 and 4	17			?									?	x				Training and meetings for 17 Contact farmers (exact timing to be decided). Need FO support Seasons starts at June and the training need to be given before the season
3.3	? FFS by DAE (T.Aman & Boro/Rabi)	2 (existing)	x	x	x	x	x	x	x	x	x	x	x	x	x				DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known). In polder 22, DAE FFS include 2 FFS on Community Water Management. Support of SAAO, SAPPO and AEO is needed).

																	DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.4	? Demonstrations by DAE	?							x	x	x	x	x	x			During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.5	BAU activity with FFS farmers			?			?			?				?			BAU continues PAR with FFS farmers observing performance of fruits and vegetables introduced in 2015. BAU Team will decide for action. DAE will Decide
3.6	BAU trial plots	4		?			?			?				?			BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder) BAU Team will decide for action.
3.7	Follow up CAHWs	3				?				?				?			Follow up (Munir) with trained 2 Community Poultry Workers and 1 Community Livestock Worker
3.8	MFS Cropping Systems-1	10	x	x	x	x	x	x									T.Aman MFS Robi Crop year 1: Aromatic Rice, summer vegetable, Production involving PCT. Sector
3.9	MFS Poultry follow-up	8	x	x	x	x	x	x	x	x	x	x	x	x	x		RF Training & meeting for collective Action
3.10	RF networking		x	x	x	x	x	x	x	x	x	x	x	x	x		Capacity building training for RF & different linkage meeting with market actors
3.11	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x		Agriculture fair, meeting, workshop etc.
3.12	WRM strengthening							x	x	x				x	x	x	Activities related with WRM strengthening
3.13	MFS Producer Group Support-3	8															Market Orientation and linkages
3.14	MFS Producer Group Support -2	2													x		mainly Market Orientation activities
3.15	DAE linkage (Capacity building of DAE staff)	TBD				x	x			x							Training will be held at zonally level together with others polder
3.16	Capacity building of Market Actors	TBD				x	x			x	x						Zonal level
3.17	Participation in Different Fair/ Meal/ Drama on market orientation to enhance dissemination of information	1						x	x								Zonal level
3.18	PF Training (Zonal level)	2	x	x						x	x						Training will be held at zonally level together with others polder
4	Environmental Sustainability and DRR																
4.1	Environmental compliance monitoring and quarterly reporting to DoE		x					x							x		Monitoring by Polder teams & reporting by Zonal Team
4.2	Formulation of Environmental and Social Management Plan (ESMP)																Concern PDP Team
4.3	Reconstitution of UDMCs					x	x										Outsourcing Support
4.4	Recruit WMG's Environment and DRR Counsellors		x	x													Supported by Env. Expert

4.5	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan												x	x	
4.6	Disaster Preparedness and implementation of CBDRR plan		x	x	x	x	x	x	x	x	x	x	x	x	x
4.7	Orientation to LCS leaders, Contractors & WMA Leaders regarding Env. Safeguards & Conditions of Env. Clearance Certificate		x	x	x	x	x	x	x	x	x	x	x	x	integrated with LCS training;
4.8	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.			x	x										Outsourcing Support

1.2 Polder 26

Introduction to the Polder

Polder 26 only limits in the Sobhna union but does not cover 100% of the area. Sobhna Union is comprised of 18 Mouzas and 16 villages, out of them 15 mouzas and 11 villages are in the Polder area. Total population of the polder is 22000 approximately. Gross area 2696 hec and benefited area is 28.55 km. Total area of 4504 ha of which net cultivable area 2710 ha, temporary fallow land 115 ha.

The number of farmer family 4735 where only about 5 % share cropper and different farmer's categories are landless 473, marginal 1375, small 1763, medium 710 and large 414 respectively. The area under irrigation is about 45% which indicates that agriculture practices under irrigated condition are not dominant in the union. Boro rice (HYV/LIV) and winter vegetables are the irrigated crop intensively cultivated using mainly surface water. The local people of the union were reporting that optimal yield of Boro and other crop could be achieved if more irrigation facilities and necessary inputs like; quality seed, fertilizer pesticide, bio pesticide, agricultural machineries, and sufficient agricultural credits are timely ensured and unplanned use of land could be controlled by introducing land zoning system in the union

Institutional Framework for Participatory Water Management- PWM

Polder -26 is a rehabilitation polder. Blue Gold has been working from April, 2014. As per PWM Rules 2014 15 WMGs have been formed and registered by BWDB in year 2015. 2 WMAs in year 2015 and submitted registration related all documents to PEO, BWDB. WMOs have been linking with BWDB, DAE and Union Parishad and also taken following initiatives in the polder level:

- **WMO Strengthening Activities:** 55% HHs enrolment in the WMGs; Developed WMOs Bylaws; Formulated integrated WAP with assistance from government agencies and local governments, Audit Preparation WMG performing well to make linkage with UP and other government and non-government offices to have more benefits.
- **Main Infrastructure:** Perform regular O&M work,
- **Internal Water Management:** Have plan to Identify Community Water Management site and implementation; WMG members are becoming more interested to participate water management and relevant others work to make their WMG strong
- **Overall Improvement of Livelihood:** LCS Work allocation to vulnerable group; identified the BWDB unused land, O&M fund raising,

Infrastructure Development

10.08 km upgrading of embankment is completed out of 10.71 km and remaining work is on-going. One drainage cum flushing sluice within (2 vent) is going on) and 2 drainage cum flushing sluice. Contractor selection has been finalized. 7.23 km khal re-excavation is on-going.

S.N.	Name of work	Nos/ Length (km)	Remarks
01	Re-sectioning of embankment	10.690 km	Work Awarded
02	Re- excavation of khal	7.230 km	Work Awarded

03	Construction of sluice	3 nos	Work Awarded
04	Repair of sluice	1 no	Work Awarded

Internal Water Management

This polder has 4 catchment divided in to 2 WMA areas 1 is sakha bai and another one is Baloiyhakhi. This polder has 04 sluice gates. It has 18 m drainage channel. There is a scarcity of good drinking water in the polder area especially in the dry season; In the Polder areas have 9 km of water line are available by which supply safe water for the people. Every village have deep tube-well for supply the safe water but not sufficient for total people. So people of such villages have to go to other villages to collect drinking water. The problem of getting good drinking water becomes intense during the rainy season. People also harvest rain-water for drinking purpose; but it requires a certain capability, which most poor people are not able.

Agricultural & Marketing Services

Initiatives have been taken to improve agriculture and marketing services:

- Organized 30 farmers group FFS; of which 15 completed, 15 is on-going. The FFS were on Poultry, Vegetable, fisheries, beef fattening, dairy and nutrition.
- Organized 15 Farmer's Field Day to disseminate FFS learning points and to encourage horizontal learning; 15 more will be held in December.

Leading contact farmers (CF) function: Selected contact farmers based on successful contribution and achievement before phase out of all FFS. We organized skill development training for all selected CF aiming to increase their facilitation skills aiming to support FFS participants as and when required. A number of fish species are currently cultivated: Silver carp, Catla, Rui, Grass carp, Thai Shorputi, Mono sex tilapia and Golda.

New fish species will be introduced: Pabda (High value cat fish). A number of fish crops are currently cultivated: T. Amon, Sesame, and Mungbean.

New crops will be introduced: Watermelon;

Number of CF: 15.

In market orientation no action has been taken yet for this polder. But Important Activities will be :

- Linkage building between Input supplier and MFS members, Power Tiller operator and MFS members, Buyers and MFS members
- Promote collective action/Collectively selling, collectively tillage and collectively purchasing
- Linkage building with DAE officials.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

No remarkable works in terms of Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR) has done yet. But they have willness to work on ESMP and DRR. Documents have submitted to DoE, waiting for obtaining clearance.

Good practices, lessons learned and innovations

In polder 26 next year we can implement Community Water Management (CoWM) under Blue Gold. These WMG members have started claiming their rights to govt. offices especially with BWDB regarding LCS works and they also progressing to communicate with other stakeholders. Lead farmers are doing well in homestead gardening and they are much able to consume vegetables as well as balanced diet. They also started cultivation of different types of fish and by cultivating fish they can get nutrition and earn money.

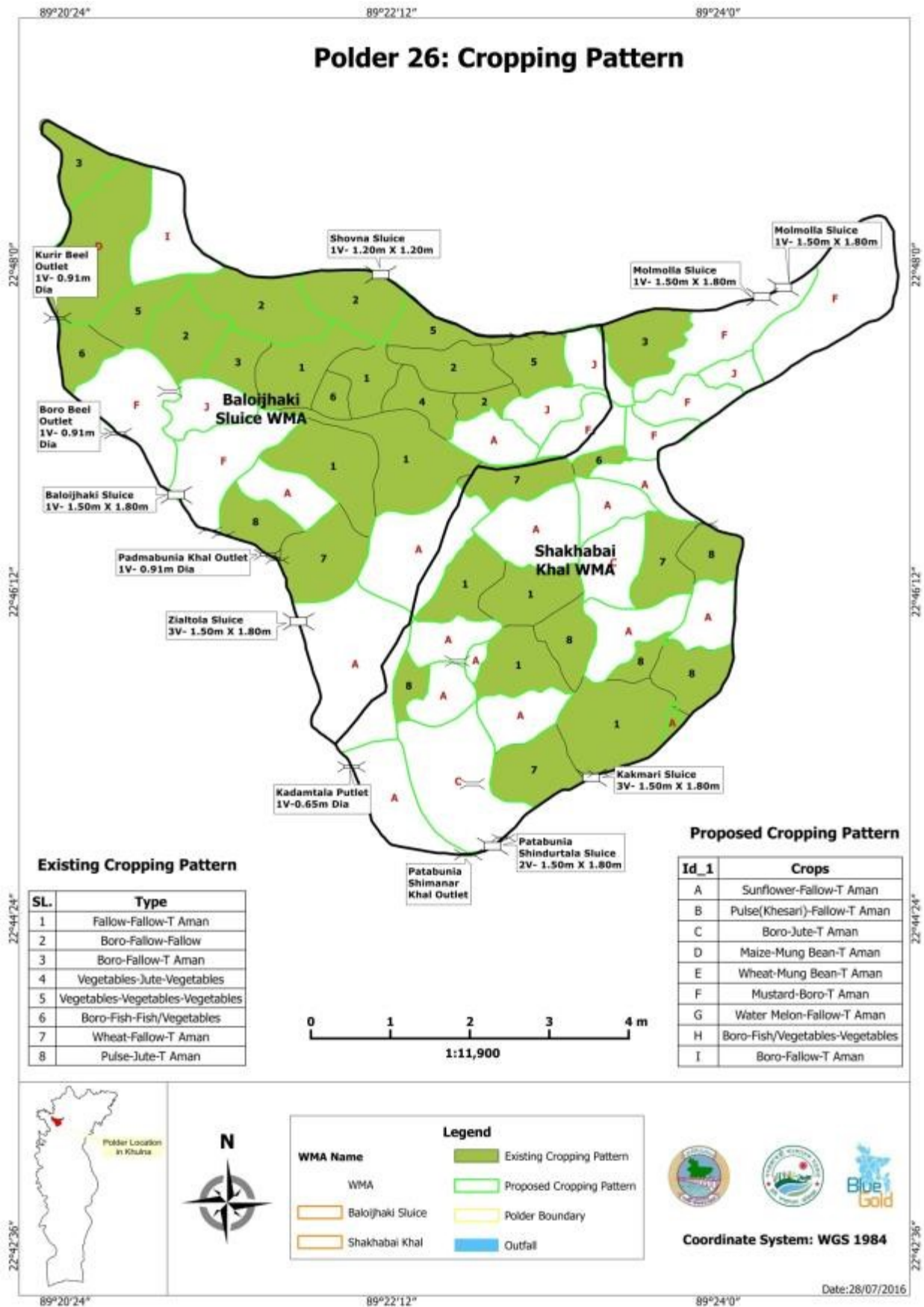


Table 3
Polder 26 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	2.6	2.9
2	Main Infrastructure	451.50	514.10
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	10.9	12.4
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	1.8	2.1
6	Training	53.4	60.8
	TOTAL	520.20	592.33

Table 4
Polder 26 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016					2017					Remarks			
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr		May	June	
1	Institutional Framework for Participatory Water Management															
1.1	Support WMGs install accounts keeping system and undergo audit	15					x	x								Audit will be depended on BWDB audit team
1.2	Follow-up WMGs continuing membership enrolment , orientation and training. Implement horizontal learning activities	15	x	x	x	x	x	x	x	x	x	x	x	x		Special attention to include members from medium & large farm HHs.
1.3	Follow up WMG Female membership Enrolment (40% at least)	6	x	x	x	x	x	x	x	x	x	x	x	x		
1.4	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	15	x	x	x	x	x	x	x	x	x	x	x	x		During AGM WMG will formulate WAP and every month will share in the meeting
1.5	Support WMG Conduct Annual General Meeting Quarterly General Meeting	30 45	x		x			x			x		x	x		Last year AGM will be held on July 2016 and this year AGM will be held next June 2017 End of the quarter 15 meeting will be held and in 3 quarter will be 45 quarterly meeting
1.6	Facilitate formation and capacity building of necessary WMG sub-committees		x	x	x	x	x	x	x	x	x	x	x			Every WMG will form Audit subcommittee and other subcommittee will form as per WMG requirements
1.7	Facilitate WMA formation	1	x	x												
1.8	Support WMA Registration Processing	2	x	x	x											Submitted
1.9	Facilitate WMA Action Planning workshop	1		x	x											2 WMA will attend together
1.10	Follow up WMA implementation and update process of Action Plan	2	x	x	x	x	x	x	x	x	x	x	x			

1.11	Develop polder development plan and implement	1			x	x	x	x	x	x	x	x	x	x		
1.12	Polder team orientation	1		x												Orientation will be held on responsibilities, working in a team and how will do more integrated way
2	Main Infrastructure															
2.1	Design Data Collection & Detailed Design	-	x	x	x											
2.2	Estimate Preparation & Vetting	-			x	x	x	x								
2.3	Preparation of Work Packages	-					x	x								
2.4	LCS Formation & Training	-					x	x	x							
2.5	Monitoring Committee Formation &	-						x	x							
2.6	Training (if any)															
2.7	Contractor Orientation, Tendering & Work	-						x	x							Contractor orientation/workshop including MC, WMG and WMA
2.8	Award							x	x							
2.9	Construction Works								x	x	x	x	x	x	x	
2.10	Canal Re-excavation	26.90 km							x	x	x	x	x			Includes: Barorer Khal (2.60 KM), Baloijhaki Shakhabei Khal(3.60 KM) Dangar Khal(1.40 KM) Paddo Buniya (1.906 KM), Dewortola (0.60 KM), Boyarsing(1.10 KM), Khejurtola (2.10 KM), Sindurtola (4.50KM)
2.11	Support WMA and WMGs formulate O&M resource mobilization mechanism (with GoB and LGI)	-											x	x	x	
2.12	Support WMGs form and mobilize LCS groups and oversee works	-				x	x	x	x	x	x	x	x	x	x	
2.13	Regular O& M	2							x	x	x	x	x	x		
2.14	Form Monitoring Committee (MC) and monitor quality of works and certify bill	12	x	x	x	x	x	x	x	x	x	x	x	x	x	
2.15	Monitoring and Quality Control of works	-							x	x						
2.16	Bill certification (WNG, WMC, TA, BWDB)												x	x	x	Depends on work completion
3	Agriculture & Marketing Services															
3.1	FFS Cycle 7 by TA	15	x	x	x	x	x									Fish, Cattle rearing, Nutrition. After completion of each FFS it is followed by a Farmer Filed day.
3.2	Train contact farmers Cycle 6			x												Training and meetings for 15 Contact farmers (exact timing to be decided). Contact farmers will share experiences later on.
3.3	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.4	? Demonstrations by DAE	?							x	x	x	x	x	x		During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.

3.5	PAR fruits trees and vegetables													x	x	x	x	Possible new BAU activity testing new fruit and vegetable species with FFS farmers in Participatory Action Research (PAR)
3.6	Backstopping fish nurseries	7	x	x	x													Backstopping for 7 trained service provider to supply the fingerling in the surrounding fish famers
3.7	Trial on Pabda fisheries	1	x	x	x	x	x	x	x	x								One trial on production of Pabda fisheries
3.8	DAE linkage																	
3.9	CLW and CPW	8		x	x	X			x	x	x	x						
3.10	Demonstration by DAE	2		x	x	X		x	x	x	x	x						Mastered and grass pea . Need to be discussed with DAE. Demos on field crops normally done by DAE.
3.11	Participate in DAE fair	1									x							Stall. Depending on course of DAE.
3.12	Capacity building of Market Actors	TBD			x	X			x	x								
4	Environmental Sustainability and DRR																	
4.1	Obtaining Environmental Clearance Certificate from DoE				x	X												Outsourcing.
4.2	Environmental compliance monitoring and quarterly reporting to DoE										x					x	x	
4.3	Formulation of Environmental and Social Management Plan (ESMP)						x	x										With the same time schedule of PDP
4.4	Reconstitution of UDMCs									x	x	x						
4.5	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x							
4.6	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan																	With the same time schedule of PDP
4.7	Disaster Preparedness and implementation of CBDRR plan						x	x	x	x	x	x	x	x	x	x		
4.8	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.									x	x	x	x					
5	Good Practices, lessons learned, Innovation & Others																	
5.1	Polder coordination meeting	12	x	x	x	X	x	x	x	x	x	x	x	x	x	x		
5.2	Upazila orientation	1		x														As a part of making effective relationship
5.3	Union Parishad orientation	1		x														Union parishad election was held just one month back and chairmen and members are new
5.4	Organize exposure visit/ Learning Sharing Visit for WMOs	3					x	x										Strong-weak WMG. Weak WMG will visit another polder to learn good practices and they will review them as per learning

1.3 Polder 29

Introduction to the Polder

Polder 29 consisted of 4 unions at Dumuria Upazila in Khulna district. Starting point of Polder 29 is very adjacent from Upazila head quarter and 15 km distance from District head quarter. Gross Area: 8218 hac. And Population of this polder: 61740.Approx. The main occupations are agriculture & farming. Farmer cultivated T.Amon, shrimp, and vegetables in dyke of Gher.

Institutional Framework for Participatory Water Management

Have 56 WMGs in Polder-29 which were formed under IPSWAM project in year 2004. Blue Gold has been working from September 2013 in polder -29. That time maximum WMGs were dormant. Blue Gold Program re-organized the 56 WMGs Executive Committee by the Community and registered by BWDB in the year 2014-2015, following the Participatory Water Management Rules 2014, 4 WMAs formed in polder -29 in the year 2015. 2 WMAs (Chatchatia sluice and Bakultala Sluice were registered WMAs) by BWDB in the year 2016 out of 4 WMAs. 2 WMAs has submitted registration related all documents to PEO, BWDB. WMOs have been linking with BWDB, DAE and Union Parishad and taken following initiatives in the polder level:

- **WMO Strengthening Activities:** 55% HHs enrolment in the WMGs; Developed WMOs Bylaws; Formulated integrated WAP with assistance from government agencies and local governments, saving collection; audit preparation WMG performing well to make linkage with UP and other govt. and non govt. offices to have more benefits.
- **Main Infrastructure:** Perform regular O&M work,
- **Internal Water Management:** Identified Community Water Management site and implementing;
- **Overall Improvement of Livelihood:** Income Generating activities are promoted; LCS Work allocation to vulnerable group; identified the BWDB unused land, O&M fund raising,

Infrastructure Development

12.05 km re-sectioning of embankment has been completed and 1.735km retired of embankment & 3 R/M of Sluices are on-going. 2km embankment, 3nos.6.5km khal, 9nos. Repair of Sluices, Repair of 2nos. Outlet and Construction of 1no Outlet are planned for developed polder 29.

Proper drainage & Irrigation are considered during planning of new infrastructures.

Routine maintenance such as cleaning of water hyacinth, rain-cut & ghogs repair, painting, & greasing of sluices are done by WMOs and communities play active role during operation and maintenance.

Internal Water Management

Implementation of re-sectioning and retired embankment, repair of sluices, construction of outlet and one pilot project at Bokultola CWM has been implemented so far.

Agricultural & Marketing Services

Initiatives have been taken to improve agriculture and marketing services (common for all polders based on FFS numbers):

- All together 62 FFS has been organized and implemented from 2015 to March 2016 on homestead vegetables & fruits, poultry, and nutrition (58 FFS) and also rice fish culture-Nutrition (4 FFS). Also organized Farmer's Field Day (FFD) for dissemination of FFS learning.
- Facilitated hands on skill development training on need based modules (Poultry, Vegetable, fisheries, beef fattening, dairy and nutrition).
- Established demonstration and trial on Poultry, vegetable, fisheries, beef fattening and dairy.
- Established special demonstration on sugar beet, dragon, passion fruit and strawberry.

Leading contact farmers (CF) function: We selected contact farmers based on successful contribution and achievement before phase out of all FFS. We organized skill development training for all selected CF aiming to increase their facilitation skills so that in future they can support FFS participants as per requirement.

A number of fish species are currently cultivated (i.e. Silver carp, Catla, Rui, Grass carp, Thai Shorputi, Mono sex tilapia and Golda. Also we have plan to introduce new fish species (i.e. Pabda which is a high value cat fish)

A number of crops are currently cultivated: T. Amon, Sesame, and Mungbean. However we have plan to introduce new crop (i.e. Watermelon)

Market Orientation

Resource Farmers:

S.N.	MFS Name	Total	Status	Participant Number	Remarks
1	Sesame Market Oriented Farmer`s Field School	8	On-going	200	08 MFS started in 2016
2	Poultry Market Oriented Farmers Field School	0	Nil	0	
3	Rice Market Oriented Farmer`s Field School	8	On-going	200	08 MFS started in 2016

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: Environmental Clearance Certificate (ECC) from Department of Environment (DoE) yet not obtained. ESMP will be formulated during ‘Joint Planning Workshop at Polder level’. Orientation to LCS leaders, Contractors and WMA leaders on environmental and social safeguarding issues has been provided already. After obtaining ECC, environmental compliance monitoring and reporting will be started.

Disaster Risk Reduction (DRR): There are three unions under polder 29 i.e. Fingri, Budhata and Kullya where the Union Disaster Management Committees (UDMC) are in place but not well functioning. The UDMCs need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for ‘Joint Planning Workshop at Polder level’. Recruitment of WMG’s Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting, special General Meeting and AGM after the dry runs been organised. The process of hiring service providers is going on for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management. To increase mass awareness on DRR the day observation program i.e. National Disaster Preparedness Day, International Day for Disaster Reduction will be organized. Hiring of service provider for Improve Cooking Stove (ICS) program under Innovation Fund is going on.

Good practices, lessons learned and innovations

The community people could feel the importance to work in an integrated manner and for that, they have identified Community Water Management project site and implementing under Blue Gold by DAE. WMG members have started claiming their rights to govt. offices such as; BWDB, DAE, LGIs, and they are also progressing to communicate with other stakeholders.

Lead farmers are doing well in homestead gardening and they are much able to consume vegetables themselves and maintain balanced diet as well. They have also started to cultivate different types of fish which helps fulfilling their nutritional need and increasing household income.

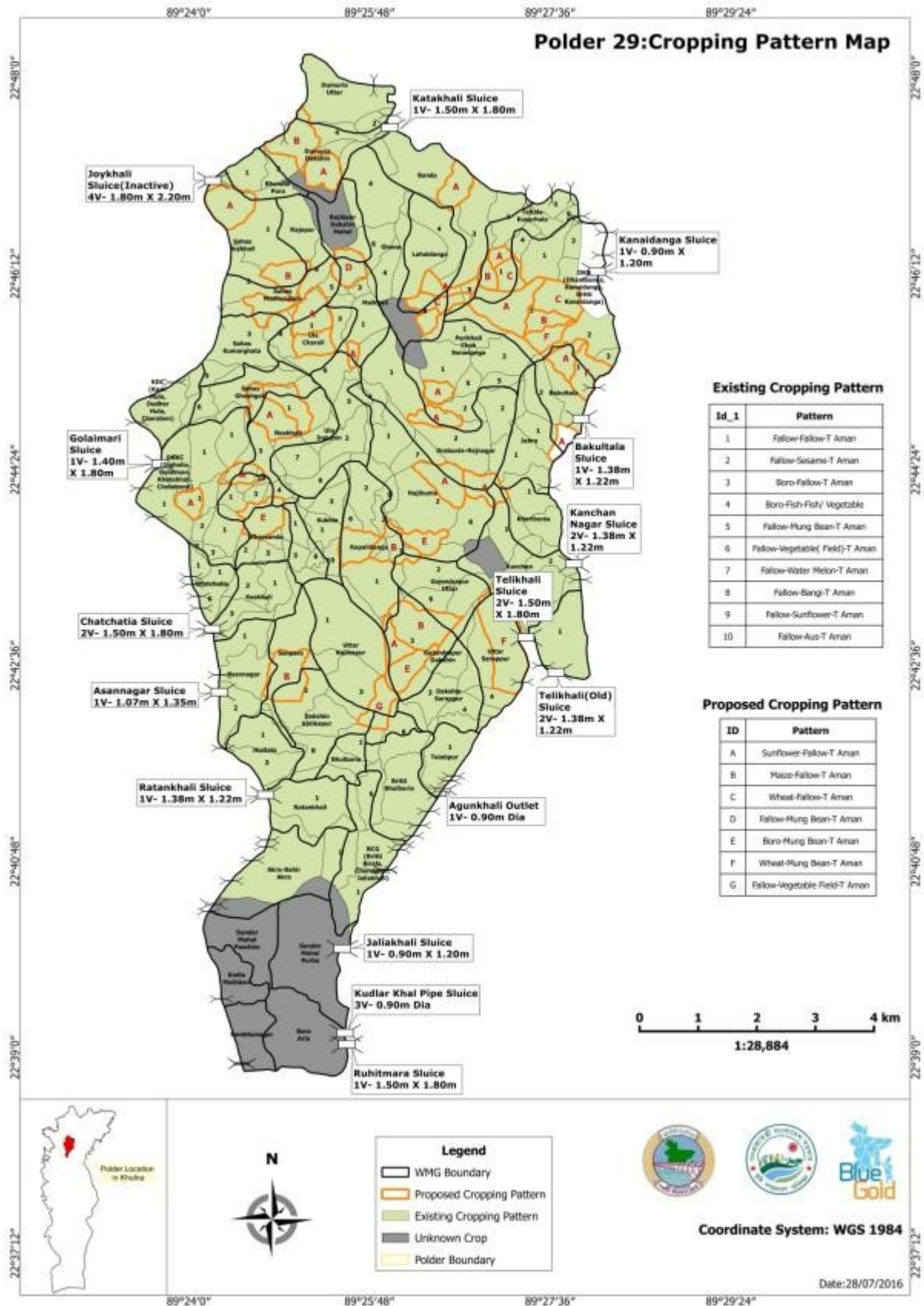


Table 5
Polder 29 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	5.7	6.5
2	Main Infrastructure	399.37	454.74
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	18.8	21.4
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	14.2	16.2
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	6.0	6.9
6	Training	50.6	57.7
	TOTAL	494.67	563.44

Table 6
Polder 29 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016					2017						Remarks	
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May		June
1	Institutional Framework for Participatory Water Management														
1.1	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	56	x	x	x	x	x	x	x	x	x	x	x	x	
1.2	Support WMGs implement operation and maintenance works based on WAP	56	x	x	x	x	x	x	x	x	x	x	x	x	All groups to be needed.
1.3	Assist WMGs install accounts keeping system and undergo audit	56	x	x	x	x	x	x							Continuous Process.
1.4	Stimulate WMG Conduct Annual General Meeting & Quarterly General Meeting	109 (AGM) 168 (QGM)	x	x	x			x			x		x	x	53 for 2015-16 and 56 for 2016-17 56x3 Times=168
1.5	Organize exposure visit/ Learning Sharing Visit for WMOs	6				x	x								
1.6	Stimulate WMGs continuing with membership enrolment, orientation & training. Implement horizontal learning activities	56	x	x	x	x	x	x	x	x	x	x	x	x	-
1.7	Assist WMA and WMGs formulate O&M resource mobilization mechanism (with GoB and LGI)	-										x	x	x	

1.8	Facilitate formation and capacity building of necessary WMG sub-committees	56	x	x	x	x	x	x	x	x	x	x	x	x		Internal Audit Committee
1.9	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	25	x	x	x	x	x	x	x	x	x	x	x	x		For IGA, loan program etc.
1.10	Support WMA Registration by BWDB	2	x	x												
1.11	Follow up WMA implementation and update process of Action Plan	4	x	x	x	x	x	x	x	x	x	x	x	x		Activity to be targeted of all over the years.
1.12	Stimulate enrolment of female membership in WMGs (at least 40%)	20	x	x	x	x	x	x	x	x	x	x	x	x		
1.13	Support WMA Action Planning workshop	4	x	x												
1.14	Stimulate WMGs enrol members	9	x	x	x	x	x	x	x	x	x	x	x	x		Special attention to include members from medium & large farmer of HHs
1.15	Polder Development Plan & Implementation				x	x	x	x	x	x	x	x	x	x		
1.16	Polder Coordination Meeting	12	x	x	x	x	x	x	x	x	x	x	x	x		For Integration of all works in BGP.
1.17	Community Water Management Project Implementation	1	x	x	x	x	x	x	x	x	x	x	x	x		
2	Main Infrastructure															
2.1	Design Data Collection & Detailed Design	-	x	x	x											As work to be started in due time. It will be depends on BWDB
2.2	Estimate Preparation & Vetting	-		x	x	x	x									As work to be started in due time. will be depends on BWDB
2.3	Preparation of Work Packages	-			x	x	x									As work to be started in due time. It will be depends on BWDB
2.4	LCS Formation & Training	-				x	x									As work to be started in due time. It will be depends on BWDB
2.5	Monitoring Committee Formation &	-				x	x									As work to be started in due time. It will be depends on BWDB
2.6	Contractor Orientation, Tendering & Work	-					x	x	x							Contractor Orientation Training/Workshop including MC, WMG, & WMA for Improvement of quality & progress of works as well as completion in time as per work order.
2.7	Award						x	x								Work to be completed in due time.
2.8	Embankment Re-sectioning	14.05 km							x	x	x	x	x			Only earth work Implementation except Turfing work.
2.9	Canal Re-excavation	20.38 km							x	x	x	x				
2.10	Repair of Sluices	12 nos.							x	x	x	x	x	x		
2.11	Repair of Outlets	2 nos.							x	x	x	x	x	x		
2.12	Construction of Outlets	1 nos.							x	x	x	x	x	x		
2.13	Monitoring and Quality Control of works and bill certification (WNG, WMC, TA, BWDB)	-							x	x	x	x	x	x		Depends on work completion.
2.14	Support WMGs form and mobilize LCS groups and oversee works	10				x	x	x	x	x	x	x	x	x		As per requirement depends on estimates of works.

2.15	Form Monitoring Committee (MC) and monitor quality of works and certify bill	4								x	x	x	x	x	x	For 4 WMA
2.16	Stimulate regular O & M Activities.		x	x	x	x	x	x	x	x	x	x	x	x	x	Protect & Smooth operation
3 Agriculture & Marketing Services																
3.1	Train contact farmers Cycles 3, 4 and 6	58			x									x		Cycle 3,4 & 6 were conducted on Homestead vegetables & fruits, poultry, and nutrition (by 2015); Training and meetings for 58 Contact farmers (exact timing to be decided)
3.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known). DAE FFS in polder 29 will include 1 FFS on Community Water Management. DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.3	? Demonstrations by DAE	?								x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.4	BAU activity with FFS farmers			?			?				?			?		BAU continues PAR with FFS farmers observing performance of fruits and vegetables introduced in 2015
3.5	BAU trial plots	4		?			?				?			?		BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder)
3.6	Follow up CAHWs	7			?						?			?		Follow up (Munir)with trained 3 Community Poultry Workers and 4 Community Livestock Workers
3.7	Backstopping fish nurseries	4	x	x								x	x			Backstopping for 4 trained service provider to supply the fingerling in the surrounding fish famers
3.8	Sugar beet trial follow-up	2				x	x	x	x	x	x	x	x	x		One field trial sugar beet
3.9	Trial duck rearing on sugar beet	1	x	x	x											One trial testing the use of sugar beet for duck rearing
3.10	Hygienic pig rearing scale up			?	?	?	?	?	?	?	?	?	?	?	?	Possibly a follow up project with NICE Foundation on scaling up of hygienic pig rearing
3.11	New Crops Trials	3				x	x	x	x	x	x	x	x	x		Watermelon, Garlic, Mustard (Need to be discussed with DAE)
3.12	Contact Farmers Training	2		x										x		6 & 7 Cycle.
3.13	CLW and CPW	7			x	x										For Smooth Vaccination.
3.14	MFS Cropping Systems-1	8	x	x	x	x	x	x								MFS T. Aman - Robi crop Year 1
3.15	RF networking															
3.16	DAE linkage															
3.17	WRM strengthening															Activities related with WRM strengthening
3.18	MFS Producer Group Support -2	8							x	x	x	x	x	x	x	Mainly Market Orientation activities
3.19	PF Training (Zonal level)	2	x	x					x	x						Training will be conducted at zonally level together with other's polder
3.20	DAE linkage (Capacity building of DAE staff)	TBD			x	x			x	x						Zonal level
3.21	Capacity building of Market Actors	TBD			x	x			x	x						Zonal level
3.22	Participation in Different Fair/ Meal/ Drama on market orientation to	1						x	x							

	enhance dissemination of information																
4	Environmental Sustainability and DRR																
4.1	Obtaining Environmental Clearance Certificate from DoE			x	x												
4.2	Environmental compliance monitoring and quarterly reporting to DoE							x	x		x	x					Monitoring by Polder Team & Reporting to Zonal Team
4.3	Formulation of Environmental and Social Management Plan (ESMP)		x	x			x	x									
4.4	Reconstitution of UDMCs							x	x	x							
4.5	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x						
4.6	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan		x	x													
4.7	Disaster Preparedness and implementation of CBDRR plan						x	x	x	x	x	x	x	x			
4.8	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.											x					
4.9	Orientation to LCS leaders and Contractors and WMA leaders on environmental clearance Certificate.						x	x									Integrate with LCS Training.

1.4 Polder 30

Introduction to the Polder

Gross Protected Area of Polder 30 is 6396 Ha, total cultivable land is 4048 ha, embankment length is 40 km, regulator number- 21, flashing Inlet No.-03 and Drain Channel 37 Km. Polder 30 consists of 37 mouzas under 3 Unions (including a part of one Union) of Batiaghata Upazila of Khulna district. Polder 30 main occupation and income source at a glance:

		No.	%
Household main income source	Agriculture	3111	34.2
	Fisheries	404	4.4
	Poultry	90	1.0
	Agriculture Labour	1901	20.9
	Non-agriculture Labour	940	10.3
	Business	948	10.4
	Service	588	6.5
	Self-employment	258	2.8
	Handicrafts	54	0.6
	Transport	609	6.7

	Begging	14	0.2
	Others	174	2.0
	Total HH	9095	100

Institutional Framework for Participatory Water Management

40 WMGs in Polder-30 were formed under IPSWAM project in year 2005. Blue Gold has been working in polder -30 from May, 2013. That time maximum WMGs were dormant. Blue Gold Program re-organized the 40 WMGs Executive Committee by the Community and registered by BWDB in year 2014-2015, 55% HHs have already enrolled in the WMGs. Following the Participatory Water Management Rules 2014, 4 WMAs formed in year 2015 of which 2 WMAs (KBS Sluice & Kharia Nadi WMA) have been registered by BWDB in 2016 and other 2 have submitted registration related all documents to PEO, BWDB. WMOs have been linking with BWDB, DAE, and Union Parishad.

Infrastructure Development

To improve water management Blue Gold Program already completed 15.870 km re-sectioning of embankment, 15.600 km Re-excavation of Khal and repairing of 05 sluices successfully.

This year Blue Gold has a plan for –7.00 km Canal Re-excavation, 06 Sluices repairing; (Depending on Revising of DPP) 1 new sluice construction, 01 Pump Shed & Stilling Basin construction and low Cost bank protection of 0.50 km.

Agricultural & Marketing Services

Initiatives have been taken to improve agriculture and marketing services (common for all polders based on FFS numbers):

- From 2014 to December 2015 53 FFS has been organised and completed in this polder of which 38 FFS on Homestead Vegetables - Poultry- Nutrition, 12 FFS on Fish- Large Ruminants- Nutrition, 2 FFS on Rice-Fish Culture- Nutrition, 1 FFS on Fruit- Poultry –nutrition.
- 1 trial on fish and 1 trial on summer vegetable have been implemented until September 2015.
- Some Long term activities also have been implemented. Such as Community based fish culture with 1 WMG & Fish sanctuary development with 1 WMG. These activities have started from April 2015 and still on-going;
- 1 Polder level beef fattening & fodder crops are also implemented September 2014. .
- DAE also facilitated 12 FFS on Rice
- To minimize production and profit gap Blue Gold Program already facilitated 24 Sesame Market Oriented Farmers Field School (MFS), 12 Backyard Poultry Market Oriented Farmers Field School in polder 30. Total of 60% (on an average) WMG members are involved in MFS .Blue Gold has linked farmers with input provider`s and buyers. Now farmers have access in both input and output markets. Resource farmers are linked with market actors through different linkage building meeting and most of them are motivated for collective purchasing and selling. Trained input provider (AIRN) ,
- Community livestock worker, Community Poultry worker`s, Power tiller operators are providing necessary services to polder dwellers. Blue Gold program linked them to polder dwellers and facilitating to improve their services. Major Crops (Cereals)
- Blue Gold introduced high yielding and high value Black Sesame, Hybrid vegetables and quality fingerlings.

This financial year Blue gold planned to facilitate 24 Rice MFS (TA) and 04 Rice FFS (DAE). Blue Gold also planned to facilitate Resource Farmers networking and Capacity building activities for DAE staff and market actors. Follow up activities for Poultry MFS will be continuing generally.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: Obtained Environmental Clearance Certificate (ECC) from Department of Environment (DoE). ESMP was drafted which need to be updated during 'Joint Planning Workshop at Polder level'. Orientation to LCS leaders, Contractors, and WMA leaders on environmental and social safeguarding issues

and conditions of ECC has been provided. Environmental compliance monitoring is going on and preparation of quarterly report is under process which to be submitted to DoE.

Disaster Risk Reduction (DRR): There are two unions under polder 30 i.e. Batiaghata Sadar and Gangarampur where the Union Disaster Management Committees (UDMC) are in place but it need to be revitalized as the members has changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness will be added as an agenda at the WMGs monthly meeting, special GM and AGM after the dry run would be organised. The process of hiring service provider for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management has started already.

Good practices, lessons learned and innovations

Participatory research on women managed small household ponds, funded from innovation fund and implemented by Worldfish have been done on September 2015 and Participatory Action Research with BAU Germplasm Centre to test new fruit/vegetable species/varieties in 9 Blue gold polders is in progress. Also Participatory Action Research and FFS on pig rearing with Kawra community implemented by NICE Foundation from innovation fund have been implemented.

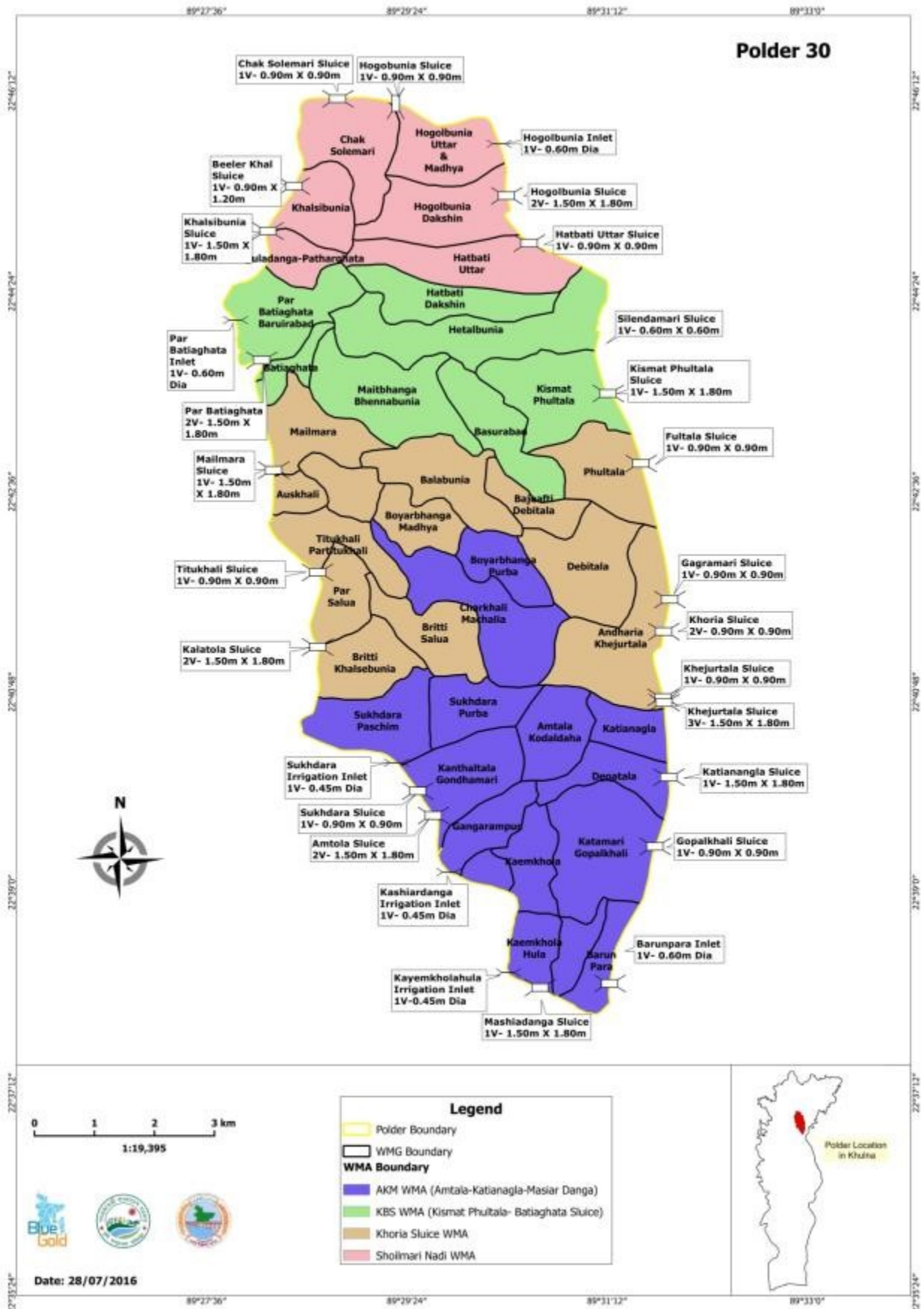


Table 7
Polder 30 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	3.5	4.0
2	Main Infrastructure	169.21	192.67
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	23.7	27.0
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	3.1	3.5
6	Training	38.7	44.1
	TOTAL	238.21	271.27

Table 8
Polder 30 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016					2017					Remarks		
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr		May	June
1	Institutional Framework for Participatory Water Management														
1.1	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	40	x	x	x	x	x	x	x	x	x	x	x	x	
1.2	Stimulate WMGs implement operation and maintenance works based on WAP	40	x	x	x	x	x	x	x	x	x	x	x	x	
1.3	Support WMGs to install accounts keeping system and undergo audit	40		x	x	x	x	x							
1.4	Support WMGs to conduct Annual General Meeting & Quarterly General Meeting	35+40 120	x		x			x			x			X	40 WMG*3 Times= 120
1.5	Organize exposure visit/ Learning Sharing Visit for WMOs	4						x	x						
1.6	Stimulate WMGs continue with membership enrolment, orientation and training. Implement horizontal learning activities	40	x	x	x	x	x	x	x	x	x	x	x	X	-
1.7	Assist formation and capacity building of necessary WMG sub-committees	-	x	x	x	x	x	x	x	x	x	x	x		
1.8	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	-	x	x	x	x	x	x	x	x	x	x	x		
1.9	Stimulate WMGs enrol members	12	x	x	x	x	x	x	x	x	x	x	x		Special attention to include members from medium & large farm HHs
1.10	Support WMA Registration Processing	3	x	x											

1.11	Follow up WMA implementation and updating process of Action Plan	4	x	x	x	x	x	x	x	x	x	x	x		
1.12	Stimulate enrolment of at least 40% of female membership in WMGs	15	x	x	x	x	x	x	x	x	x	x	x	X	
1.13	Facilitate WMA Action Planning workshop	4	x	x	x										
1.14	PDP Plan & Implementation	1	x	x	x	x	x	x	x	x	x	x	x	x	to be decided later
2	Main Infrastructure														
2.1	Design Data Collection & Detailed Design	-		x	x	x									
2.2	Estimate Preparation & Vetting	-			x	x	x	x							
2.3	Preparation of Work Packages	-				x	x	x							
2.4	Assist WMGs form and mobilize LCS groups and oversee works	6				x		x	x	x	x	x	x	X	
2.5	Conduct LCS Training	-						x							
2.6	Monitoring Committee Formation & Training (if any)	-						x	x	x					
2.7	Support WMA in formation of O&M Committee	4						x	x	x					
2.8	Support WMA and WMGs formulate O&M resource mobilization mechanism (with GoB and LGI)	-											x	x	X
2.9	Contractor Orientation, Tendering & Work Award	-						x	x	x					Contractor Orientation Workshop should include LCS monitoring committee, WMG - WMA Representative
2.10	Canal Re-excavation	9.6 km						x	x	x					
2.11	Repair of Sluices	6 nos.							x	x	x	x	x	x	
2.12	Construction of Sluices	1 nos.								x	x	x	x	x	Depend on Revised DPP (khejurtola sluice need priority) agricultural improvement & productivity will increase
2.13	Pump Shed & Stilling Basin	1 nos.								x	x	x	x	x	Depend on Revised DPP (Kalatala sluice need priority)
2.14	Low Cost Bank Protection	0.50 km								x	x	x	x	x	Depend on Revised DPP
2.15	Monitoring and Quality Control of works and bill certification (WNG, WMC, TA, BWDB)	-								x	x	x	x	x	Depend on work completion
3	Agriculture & Marketing Services														
3.1	Train contact farmers Cycles 1,2,3 and 4	51			?								?		Training and meetings for 51 Contact farmers (exact timing to be decided)

3.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) the target will be 6 (probable number) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.3	? Demonstrations by DAE	?							x	x	x	x	x	X		During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.4	BAU activity with FFS farmers			?			?			?			?			BAU continues PAR with FFS farmers observing performance of fruits and vegetables introduced in 2015
3.5	BAU trial plots	4		?			?			?			?			BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder)
3.6	Follow up CLW & CPW CAHWs	7			?				?				?			Follow up (Munir)with trained 3 Community Poultry Workers and 4 Community Livestock Workers Community Livestock Worker & community Poultry worker -follow-up need to be done round the year Munir organizes regular meetings with them. In the plan we have 3 such meetings on 3-4 month interval. Dates to be fixed later.
3.7	Fish sanctuary activity	1	x	x	x	x	x	x	x	x	x	x	x	x	X	One location with developed fish sanctuary (2015). Continued to increase the fish population as well as to conserve the aquatic bio diversity. It is also a part of open water management activities
3.8	Hygienic pig rearing scale up		X	?	?	?	?	?	?	?	?	?	?	?	?	Possibly a follow up project with NICE Foundation on scaling up of hygienic pig rearing
3.9	MFS Cropping Systems-1	24	x	x	x	x	x	x								MFS T, Aromatic Rice production and summer vegetable production involving Private sector, Aman - Robi crop Year 1
3.10	MFS Poultry follow-up	12	x	x	x	x	x	x	x	x	x	x	x	x	x	RF Training & Meeting for Collective action
3.11	RF networking		x	x	x	x	x	x	x	x	x	x	x	x	x	Capacity building training for R's and different linkage meeting with market factors

3.12	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x	Involvement in Upazilla wise Agriculture fair, meeting & workshops. in meeting with MFS actors DAE -SAAO & UAO participates regularly
3.13	WRM strengthening						x	x	x				x	x	x	Activities related with WRM strengthening
3.14	MFS Producer Group Support-3	12						x	x	x	x	x	x	x	x	Market Orientation and linkages- (Alternative crops, winter vegetables, Water Mellon, Okra, Mung Bean and Sweetgroud trials)
3.15	MFS Producer Group Support -2	12						x	x	x	x	x	x	x	x	mainly Market Orientation activities (Alternative crops, winter vegetables, Water Mellon, Okra, Mung Bean and sweetgroud trials)
3.16	PF Training (Zonal level)	2	x	x				x	x							Training will be held at zonally level together with others polder
3.17	DAE linkage (Capacity building of DAE staff)	TBD			x	x		x	x							Zonal level
3.18	Capacity building of Market Actors	TBD			x	x			x	x						Zonal level
3.19	Participation in Different Fair/ Meal/ Drama on market orientation to enhance dissemination of information	TBD					x	x								
4	Environmental Sustainability and DRR															
4.1	Environmental compliance monitoring and quarterly reporting to DoE		x			x			x					x		
4.2	Formulation of Environmental and Social Management Plan (ESMP)													x	x	
4.3	Reconstitution of UDMCs								x	x	x	x	x			
4.4	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x					
4.5	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan													x	x	
4.6	Disaster Preparedness and implementation of CBDRR plan															x
4.7	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.								x	x	x	x				

1.5 Polder 31 Part

Introduction to the Polder

This polder stipulated at Surkhali union under the Botiaghata Upazila in Khulna district. Gross Area 3100 ha, total population is approx. 20,000. The main occupation of the people of this polder is agriculture. Farmers cultivate mainly T.Amon, few robi crops, bagda, golda, and crab. The socio economic circumstances of this polder are not good.

Institutional Framework for Participatory Water Management

Polder 31 Part is a rehabilitation polder. Blue Gold has been working from April, 2014. As per PWM Rules 2014 12 WMGs has formed and also registered by BWDB in 2015; 2 WMAs formed in 2015 and submitted registration related all documents to PEO, BWDB. WMOs have been linking with BWDB, DAE and Union Parishad and taken following initiatives in the polder level:

- **WMO Strengthening activities:** 55% HHs enrolment to WMGs, developed WMO By-laws, Formulated integrated WAP with assistance from government agencies and local governments, Started savings collection, O&M fund raising, organized preparation for audit; Identified the BWDB unused land and site for WMA office by WMA representatives
- **Main Infrastructure:** Regular O&M work.
- **Internal Water Management:** Identified Community Water Management site and implementing.
- **Overall Improvement of Livelihood:** Income generating activities; LCS work allocation to vulnerable group, Identified the BWDB unused land to create scope for WMOs.

Infrastructure Development

Last year have planned for re-excavation of Channel 21.920km re-sectioning of Embankment 11.322km but could not be completed due to the delayed starting. In FY 2016-2017, mentioned structure will be completed and BGP also have plan for 2 new sluices construction and 4 sluices repairing and 1 inlet construction.

Internal Water Management

The community people are managing sluice, main khal, secondary, tertiary khal in the catchment areas on regular basis. In the catchment area, the internal water management is done by the community people. This polder has a total of eight catchment areas. All the catchments are under the two WMA, Badra River and Nandankhali River. In Kallayan shree catchment areas a CWM FFS has been formed with the selected farmers in Ghater khal WMG. It is a joint initiative of DAE and Blue Gold Program. A total number of 90 farmers are involved in this on farm Water Management activities. Farmers are now raising seedlings on rice. BRRI rice 52 was distributed to all the 90 farmers. SAAO are facilitating the learning session on rice cultivation.

Agricultural & Marketing Services

To increase agricultural production and to improve farmers knowledge and skill on agriculture, a total of 12 Farmers Field School (FFS) has been organized and facilitating training for FFS participants. Different training modules, i.e. beef fattening, pond fish and nutrition are included in the farmers training. Inputs like urea molasses, fingerlings, fish feed, beef feed and others were distributed to the FFS participants. A total of four MFS on Sesame and four on rice are implemented in this polder. DAE is implementing two FFS on rice in this polder. FFS activities have been started already, SAAO are facilitating the learning session. Detailed information is given below:

S.N.	MFS Name	Total	Status	Participant Number	Remarks
1	Sesame Market Oriented Farmer's Field School	4	On going	100	04 MFS started in 2016
2	Poultry Market Oriented Farmers Field School	0	Nil	0	
3	Rice Market Oriented Farmer's Field School	4	On going	100	10 MFS started in 2016

The other activities which are running in this polder are as follows:

- Linkage building between Input supplier and MFS members; between Power Tiller operator and MFS members; between Buyers and MFS members and with DAE officials

- Promote collective action/Collectively selling, collectively tillage and collectively purchasing

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: Environmental Clearance Certificate (ECC) from Department of Environment (DoE) yet not obtained. ESMP will be formulated during 'Joint Planning Workshop at Polder level'. Orientation to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues has been provided. Environmental compliance monitoring and reporting will start once the ECC is obtained.

Disaster Risk Reduction (DRR): Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting, special GM and AGM after the dry run will be organised. The process of hiring service providers is going on for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management. To increase mass awareness on DRR the day observation program i.e. National Disaster Preparedness Day, International Day for Disaster Reduction will be organized. Hiring of service providers for Improve Cooking Stove (ICS) program under Innovation Fund is going on.

Good practices, lessons learned and innovations

In this, polder farmers cultivate Golda and Bagda in the Gher. They also cultivate crab in the Gher and also in the small ponds. Most of the farmers cultivate vegetables in the gher and earns money after family consumption. A few farmers also rear sheep and goats in the homestead areas

In polder, after the cultivation of T. Amon, most of the land remains fallow; farmers do not have scope to cultivate other crops due to salinity and scarcity of fresh water. Some farmers cultivate sesame and also mungbean, and it is very in few lands. There is scope to cultivate watermelon using fresh water from the pond nearby. BGP are planning to introduce watermelon as new crop in the area by using fresh water from mini ponds or ponds nearby. BGP will form Watermelon FFS. Organize training for the selected farmers. Farmers will cultivate vegetables in the dyke of ponds, fishes in the ponds and watermelon after T. Amon harvest.

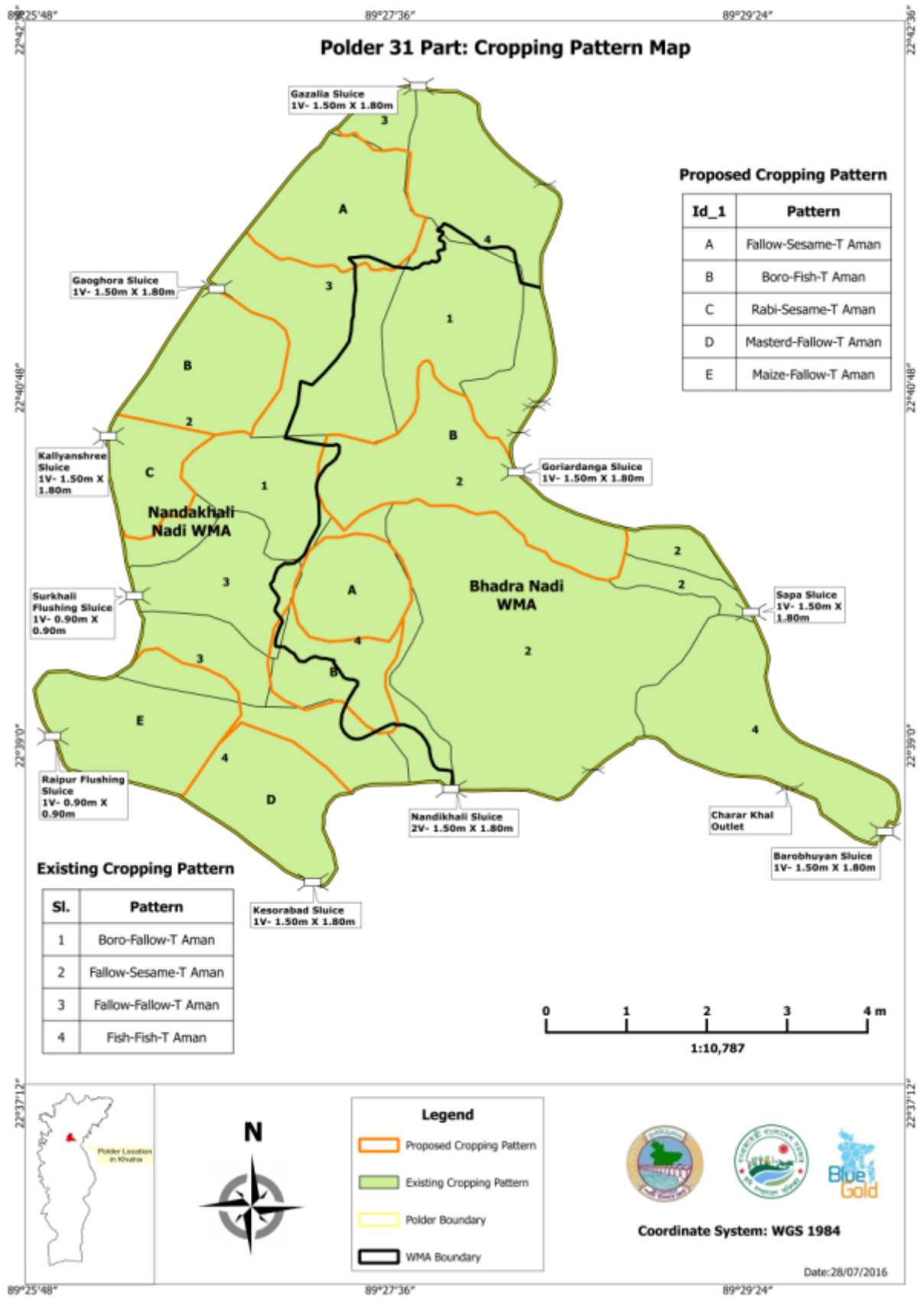


Table 9
Polder 31 Part Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	3.7	4.2
2	Main Infrastructure	984.83	1121.38
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	18.8	21.4
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	12.4	14.1
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	1.8	2.1
6	Training	26.4	30.1
	TOTAL	1047.93	1193.23

Table 10
Polder 31 Part Activity Plan for year 2016-17

S.N.	Task Name	Target	2016				2017				Remarks					
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb		Mar	Apr	May	June	
1	Institutional Framework for Participatory Water Management															
1.1	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	12	X	x	x	x	x	x	x	x	X	x	x	x		
1.2	WMGs implement operation and maintenance works based on WAP	12	X	x	x	x	x	x	x	x	X	x	x	x		
1.3	Support WMGs to install accounts keeping system and undergo audit	12			x	x	x	x								
1.4	Support WMGs to conduct Annual General Meeting & Quarterly General Meeting	12+12 12+2	X		x			x			x		X	x		
1.5	Organize exposure visit/ Learning Sharing Visit for WMOs	3				X	x	x								
1.6	Stimulate WMGs to continue with membership enrolment, orientation, and training. Implement horizontal learning activities	12	X	x	x	X	x	X	x	x	X	x	x	x		Special attention to include members from medium & large farm HHs
1.7	WMA and WMGs formulate O&M resource mobilization mechanism (with GoB and LGI)	-										x	x	x		
1.8	Formation and capacity building of necessary WMG sub-committees	12	X	x	x	X	x	X	x	x	x	x	x			
1.9	Support WMA Registration Processing	2	X	x												
1.10	Support WMA Action Planning workshop	2	X	x												
1.11	Follow up WMA implementation and update process of Action Plan	2		x	x	X	x	X	x	x	X	x	x			

1.12	Community Water Management Project Implementation	1	X	x	x	X	x	X	x	x	X	x	x	x	
1.13	Develop PDP & implement	1	X	x	x	x	x	x	x	x	x	x	x	x	
2	Main Infrastructure		X	x	x	x	x	x	x	x	x	x	x	x	
2.1	Design Data Collection & Detailed Design	-	X	x	x	x									
2.2	Estimate Preparation & Vetting	-			x	x	x	x							
2.3	Preparation of Work Packages	-				x	x	x							
2.4	Assist WMGs form and mobilize LCS groups and oversee works	10						x	x	x	X	x	x		
2.5	Monitoring Committee Formation & Training (if any)	-					x	x	x						
2.6	LCS Training	-					x	x	x						
2.7	Contractor Orientation, Tendering & Work	-													
2.8	Facilitate formation of WMA O&M Committee						x	x	x						
2.9	Stimulate regular O&M by the WMG	8					x	x	x						
2.10	Embankment Retirement	2.0 km							x	x	x	x	x		
2.11	Canal Re-excavation	26.9 km							x	x	x	x			
2.12	Repair of Sluices	4 nos.							x	x	x	x	x	x	
2.13	Construction of Sluices	2 nos.							x	x	x	x	x	x	
2.14	Construction of Outlets	1 nos.							x	x	x	x	x	x	
2.15	Monitoring and Quality Control of works and bill certification (WNG, WMC, TA, BWDB)	-							x	x	x	x	x	x	Depend on work completion
3	Agriculture & Marketing Services														
3.1	12 FFS Cycle 7	12	x	x	x	x	x								Fish, Cattle rearing, Nutrition
3.2	Train contact farmers Cycle 6	11			?							?			Training and meetings for 11 Contact farmers (exact timing to be decided)
3.4	Learning visit for FFS participants	24					x	x	x	x					2 person from each FFS
3.5	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known). The DAE FFS is polder 31-part will include 1 FFS Community Water Management. DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.6	? Demonstrations by DAE	?							x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.

3.7	PAR fruits trees and vegetables											x	x	x	x	Possible new BAU activity testing new fruit and vegetable species with FFS farmers in Participatory Action Research (PAR)
3.8	MFS Cropping Systems-1	4	x	x	x	x	x	x								MFS T. Aman - Robi crop Year 1
3.9	RF networking		x	x	x	x	x	x	x	x	x	x	x	x	x	
3.10	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x	
3.11	WRM strengthening						x	x	x			x	x	x		Activities related with WRM strengthening
3.12	MFS Producer Group Support -2	4						x	x	x	x	x	x	x	x	mainly Market Orientation activities
3.13	PF Training (Zonal level)	2	x	x				x	x							Training will be conducted at zonally level together with other's polder
3.14	DAE linkage (Capacity building of DAE staff)	TBD			x	x		x	x							Zonal level
3.15	Capacity building of Market Actors	TBD			x	x			x	x						Zonal level
3.16	Participation in Different Fair/ Meal/ Drama on market orientation to enhance dissemination of information	1					x	x								
4	Environmental Sustainability and DRR															
4.1	Obtaining Environmental Clearance Certificate from DoE				x	x										
4.2	Environmental compliance monitoring and quarterly reporting to DoE								x	x		x	x			
4.3	Formulation of Environmental and Social Management Plan (ESMP)						x	x								
4.4	Reconstitution of UDMCs								x	x	x					Outsourcing and Polder team
4.5	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x					
4.6	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan															
4.7	Disaster Preparedness and implementation of CBDRR plan						x	x	x	x	x	x	x	x		
4.8	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.								x	x	x	x				Outsourcing and Polder team

1.6 Polder 21

Table 11
Polder 21 Budget for year 2016-17

S.N.	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	0.6	0.6
2	Main Infrastructure	213.72	243.35
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	2.5	2.9
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	N/A	N/A
6	Training	N/A	N/A
	TOTAL	217.82	248.02

Table 12
Polder 21 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016				2017				Remarks					
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb		Mar	Apr	May	June	
1	Institutional Framework for Participatory Water Management									x	x	x	x			
1.1	Field level staff deployment, community immersion & household data collection	-								x	x	x	x			
1.2	Intensive program dissemination with Program Orientation of LGIs & GoB representatives	-								x	x					
1.3	WMG formation	-										x	x	x	x	
1.4	Stimulate WMGs enrol members from more than 55% of the HHs ensuring good representation from medium and large farmers	-										x	x	x	x	
1.5	Support WMGs Registration by BWDB														x	
1.6	Support WMGs to install accounts keeping system and undergo audit														x	
2	Agriculture & Marketing Services															
2.1	? FFS Cycle 9	?										x	x	x	x	Fish, Dairy cow/Cattle rearing, Nutrition
2.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	X	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by

																Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
2.3	? Demonstrations by DAE	?								x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
2.4	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x	
2.5	Capacity building of Market Actors	TBD			x	x				x	x					

1.7 Polder 25

Table 13
Polder 25 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	9.0	10.2
2	Main Infrastructure	0.0	0.0
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	2.5	2.9
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	N/A	N/A
6	Training	N/A	N/A
	TOTAL	11.5	13.0

Table 14
Polder 25 Activity Plan for year 2016-17

S.N	Task Name	Target	2016					2017					Remarks		
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr		May	June
1	Institutional Framework for Participatory Water Management														
1.1	Field level staff deployment, community immersion & household data collection	-								x	x	x	x		
1.2	Intensive program dissemination with Program Orientation of LGIs & GoB representatives	-								x	x				
1.3	Assist WMG re-formation	65									x	x	x	x	
1.4	Stimulate WMGs enrol members from more than 55% of the HHs ensuring good representation from medium & large farmers and women	65									x	x	x	x	
1.5	Assist WMGs Registration by BWDB	54												x	

1.6	Support WMGs to install accounts keeping system and undergo audit	65											x	x	x		
1.7	Water and Land Use Planning Workshop	1														x	
1.8	Catchment consultation meeting & need prioritization and validation	1														x	
2	Agriculture & Marketing Services																
2.1	? FFS Cycle 9	?											x	x	x	x	Fish, Dairy cow/Cattle rearing, Nutrition
2.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polders is not yet known.
2.3	? Demonstrations by DAE	?								x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polders is not yet known.	
2.4	DAE linkage		x	x	x	X	x	x	x	x	x	x	x	x	x		
2.5	Capacity building of Market Actors	TBD			x	X				x	x						

1.8 Polder 27/1

Table 15
Polder 27-1 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	2.2	2.4
2	Main Infrastructure	100.00	113.87
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	2.5	2.9
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	N/A	N/A
6	Training	N/A	N/A
	TOTAL	104.7	119.17

Table 16
Polder 27/1 Activity Plan for year 2016-17

S.N	Task Name	Target	2016				2017						Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	

1	Institutional Framework for Participatory Water Management															
1.1	Field level staff deployment, community immersion & household data collection	-	x	x	x											
1.2	Intensive program dissemination with Program Orientation of LGIs & GoB representatives	-	x	x												
1.3	Assist WMG Re-formation	14		x	x	x	x									
1.4	Stimulate WMGs enrol members from more than 55% of the HHs ensuring good representation from medium and large farmers	14		x	x	x	x	x	x	x	x	x	x	x		
1.5	Stimulate enrolment of at least 40% of female membership in WMGs	5		x	x	x	x	x	x	x	x	x	x	x		
1.6	Assist WMA Re-formation	1		x	x	x	x									
1.7	Water and Land Use Planning Workshop	1		x	x											
1.8	Catchment consultation meeting & need prioritization and validation	1			x	x										
1.9	Assist WMGs Registration by BWDB	14					x	x								
1.10	Support WMGs to install accounts keeping system and undergo audit	14							x	x	x	x	x	x		
1.11	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	14							x	x	x	x	x	x		
1.12	Stimulate WMGs implement operation and maintenance works based on WAP	-							x	x	x	x	x	x		
1.13	Support WMG conduct quarterly General Meeting	14+1										x			x	
2	Agriculture & Marketing Services															
2.1	? FFS Cycle 9	?										x	x	x	x	Fish, Dairy cow/Cattle rearing, Nutrition (Cycle 9 has probably 32 FFS in Khulna district, but how many in which polder is not yet decided)
2.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x								DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polders is not yet known.
2.3	? Demonstrations by DAE	?							x	x	x	x	x	x		During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polders is not yet known.
2.4	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x		

2.5	Capacity building of Market Actors	TBD			x	x			x	x				
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1.9 Polder 27/2

Table 17
Polder 27/2 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	0.9	1.0
2	Main Infrastructure	60.0	68.32
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	2.5	2.9
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	N/A	N/A
6	Training	N/A	N/A
	TOTAL	63.4	72.12

Table 18
Polder 27/2 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016				2017						Remarks		
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr		May	June
1	Institutional Framework for Participatory Water Management														
1.1	Field level staff deployment, community immersion & household data collection	-	x	x	x										
1.2	Intensive program dissemination with Program Orientation of LGs & GoB representatives	-	x	x											
1.3	Assist WMG Re-formation	5		x	x	x									
1.4	Stimulate WMGs enrol members from more than 55% of the HHs ensuring good representation from medium and large farmers	5		x	x	x	x	x	x	x	x	x	x	x	
1.5	Stimulate enrolment of at least 40% of female membership in WMGs	2		x	x	x	x	x	x	x	x	x	x	x	
1.6	Assist WMA Re-formation	1		x	x	x	x								WMGs of this polder will be under one of the WMAs of Polder 27/1
1.7	Water and Land Use Planning Workshop	1		x	x										

1.8	Catchment consultation meeting & need prioritization and validation	1			x	x										
1.9	Assist WMGs Registration by BWDB	5						x	x							
1.10	Support WMGs to install accounts keeping system and undergo audit	5								x	x	x	x	x	x	
1.11	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	5								x	x	x	x	x	x	
1.12	Follow-up WMGs implement operation and maintenance works based on WAP	-								x	x	x	x	x	x	
1.13	Assist WMG Conduct quarterly General Meeting	5+1										x				x
2	Agriculture & Marketing Services															
2.1	? FFS Cycle 9	?										x	x	x	x	Fish, Dairy cow/Cattle rearing, Nutrition (Cycle 9 has probably 32 FFS in Khulna district, but how many in which polder is not yet decided)
2.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polders is not yet known.
2.3	? Demonstrations by DAE	?								x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polders is not yet known.
2.4	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x	
2.5	Capacity building of Market Actors	TBD			x	x				x	x					

1.10 Polder 28/1

Table 19
Polder 28/1 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	1.7	1.9
2	Main Infrastructure	100.0	113.87
3	Internal Water Management (Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)	N/A	N/A
4	Agriculture & Marketing Services (Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)	2.5	2.9
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	N/A	N/A
6	Training	N/A	N/A

TOTAL	104.2	118.57
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Table 20
Polder 28 /1 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks	
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June		
1	Institutional Framework for Participatory Water Management															
1.1	Field level staff deployment, community immersion & household data collection	-	x	X	x											
1.2	Intensive program dissemination with Program Orientation of LGIs & GoB representatives	-	x	X												
1.3	Assist WMG Re-formation	17		X	x	x	x									
1.4	Stimulate WMGs enrol members from more than 55% of the HHs ensuring good representation from medium and large farmers	17		X	x	x	x	x	x	x	x	x	x	x	x	
1.5	Stimulate enrolment of at least 40% of female membership in WMGs	5		X	x	x	x	x	x	x	x	x	x	x	x	
1.6	Support WMA Re-formation	1			x	x	x	x								
1.7	Water and Land Use Planning Workshop	1		X	x											
1.8	Catchment consultation meeting & need prioritization and validation	1				x	x									
1.9	Support WMGs Registration by BWDB	17					x	x								
1.10	Support WMGs to install accounts keeping system and undergo audit	17								x	x	x	x	x	x	
1.11	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	17								x	x	x	x	x	x	
1.12	WMGs implement operation and maintenance works based on WAP	-								x	x	x	x	x	x	
1.13	Conduct WMG quarterly General Meeting	17+1										x			x	
2	Agriculture & Marketing Services															
2.1	? FFS Cycle 9	?										x	x	x	x	Fish, Dairy cow/Cattle rearing, Nutrition (Cycle 9 has probably 32 FFS in Khulna district, but how many in which polder is not yet decided)

2.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
2.3	? Demonstrations by DAE	?								x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
2.4	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x	
2.5	Capacity building of Market Actors	TBD			x	x				x	x					

1.11 Polder 28-2

Table 21
Polder 28 /2 Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	2.2	2.4
2	Main Infrastructure	80.0	91.09
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	2.5	2.9
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	N/A	N/A
6	Training	N/A	N/A
	TOTAL	84.7	96.39

Table 22
Polder 28/2 Activity Plan for year 2016-17

S.N	Task Name	Target	2016					2017					Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	

1	Institutional Framework for Participatory Water Management																
1.1	Field level staff deployment, community immersion & household data collection	-	x	x	x												
1.2	Intensive program dissemination with Program Orientation of LGIs & GoB representatives	-	x	x													
1.3	Support WMG Re-formation	14		x	x	x	x										
1.4	Stimulate WMGs enrol members from more than 55% of the HHHs ensuring good representation from medium and large farmers	14		x	x	x	x	x	x	x	x	x	x	x	x		
1.5	Stimulate enrolment of at least 40% of female membership in WMGs	4		x	x	x	x	x	x	x	x	x	x	x	x		
1.6	Support WMA Re-formation	1		x	x	x	x										
1.7	Water and Land Use Planning Workshop	1		x	x												
1.8	Catchment consultation meeting & need prioritization and validation	1			x	x											
1.9	WMGs Registration by BWDB	14					x	x									
1.10	Support WMGs to install accounts keeping system and undergo audit	14							x	x	x	x	x	x	x		
1.11	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	14							x	x	x	x	x	x	x		
1.12	WMGs implement operation and maintenance works based on WAP	-							x	x	x	x	x	x	x		
1.13	Conduct WMG quarterly General Meeting	14+1									x				x		
2	Agriculture & Marketing Services																
2.1	? FFS Cycle 9	?									x	x	x	x		Fish, Dairy cow/Cattle rearing, Nutrition (Cycle 9 has probably 32 FFS in Khulna district, but how many in which polder is not yet decided)	
2.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	x		DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.

2.3	? Demonstrations by DAE	?								x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
2.4	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x	
2.5	Capacity building of Market Actors	TBD			x	x			x	x						

1.12 Polder 2

Introduction to the Polder

The polder-2 is situated and forms part of the greater Ganges Flood Plains, which has an extremely complex and sensitive hydraulic system. This hydraulic system relies on a delicate balance between flows of water from two direction; downward flow from the source of river Ganges-Padma, and its drainage tributaries, as well as upward flows of sediment from the Bay of Bengal.

Polder-2 is consisted of 71 Villages and 35 mouzas with 5 Unions under two upazila of Satkhira sadar and Assasuni of Satkhira district. The total gross area 12600 hac and Net area of Polder is 11296 ha. Total household 25077. Agriculture is the main income source for the majority people; while 33.88% of HHs are dependent on agriculture as their major sources of income, 16.33% HHs selling labour in agriculture, 17.44% HHs also depending on fish culture (both shrimp, prawn and white fish) captured from wetlands. 4.88% HHs selling labour in fish culture activities. 14.44% HHs are in non-agricultural sector. 8.66% of HHs specifically involved in business sector as their major sources of income and lastly 5.33% HHs are in service in non-government, government and others company.

Institutional Framework for Participatory Water Management

Status of WMOs

WMOs	WMG Formed		Submission for Registration	Registration Complete	Linked with GoB & LGI	Initiatives taken by WMOs
	Planned	Achieved				
WMG	58	58	58	58	BWDB, DAE, DOF & DLO+ UP	Khal cleaning, Sluice gate operation and Embankment water overtopping
WMA	05	05	05		BWDB, DAE, DOF & DLO+LGI	WM monitoring, Reducing Water Logging

Infrastructure Development

- Embankment: 3.900Km re-sectioning work completed. 3.540 km embankment re-sectioning work is ongoing. 14.90km embankment re-sectioning work have been planned to work.
- Re-construction of 2 drainage cum flushing sluice (1 vent) is continuing. Re-construction of Moheswarkathi drainage cum flushing sluice (3v) will be started on October 2016.
- Lots of khals (Tentative 35.770km) have been planned in 2016-17 for re-excavation.
- Gated culvert, Re-construction/repairing of sluice will be done in this FY-2016-17.

- About 2.00 km embankment has been eroded in 3 locations. No set back distances are there. This 2.00km have been taken into consideration for low-cost protective.
- Pump sheds with stilling basin have been taken into account for constriction.

All works of the infrastructure planned on the basis of community priority needs basis. WMO/communities informed that they would play active role in operation and maintenance after implementation of the rehabilitation works. In practice each and every year they have protect overtopping of river saline water, Sluice Gate operation, cleaning water hyacinth.

Internal Water Management

- Develop internal drainage system and Western part of polder water drain out by the Betna River.
- To be constructed some internal drainage Chanel for drain out of Fingri, Jordia, Beula, Chumuria catchment area.

Agricultural & Marketing Services

- Establishing Season longs FFS, Field Day, Input supply, trail set up, Demonstration, Training Learning sharing, Introduce improve verity and technologies.
- 28 FFS in 6th cycle has been already completed. 28 FFS in 7th cycle per FFS consisting 25 person= 1400 cover HHs under TA are also in plan to be implemented.
- 6 FFS in last Baro and 4 FFS consisting per FFS 50 person= 500 cover HHs in Amon season for rice and vegetable. 10 trail and 6 Field day and Agriculture Fair under DAE.
- 28+28=56 Nos of Contact Farmers are selected. They are Leading of FFS, Communicate and linkage development with DAE and BGP official, Executive committee of WMGs, Community Livestock worker, Community poultry Worker, Upazilla livestock, fisheries, agriculture office and assist to input purchase and conducts phase out ending meeting and seasonal meeting.
- Support to existing Poultry and livestock vaccinator/ worker and Planed newly 10 community Poultry Worker and 10 community Livestock Worker selection and trained up in next year.
- Currently cultivated field crops: Mainly Boro (HYV) coverage 85% area, Amon coverage 10% and Aus 3 %, Jute and Mustard (Local Verity) cultivate.
- Fish species: Shrimp, white fish(Pangas, Rui, Katal, Mregal, Curp, Talapia, Sarputi)
- Introducing new crop verity: Zero tiller Garlic, Onion, improve verity of Mustard, Deep water Paddy, Sugar beet. Introducing new Fish verity: Pabda, Gulsha, Bain (Eil Fish) and Mono sex Tilapia

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

4 Union (Bramorajpur, Dulihar and Fingri in Satkhira Sadar and Budhata in Assasuni Upazilla) at Polder-2 have UDMC are existed. BGP polder teams have been working for the strengthening and WMOs representative in UDMC are also included.

ESMP and DRR Plan to be developed and would be incorporated with WMA/Catchment level action plan. WMG/ community recruit 1 for DDR and 1 for Environment Counsellors.

Good practices, lessons learned and innovations

Established strong Participatory Water Management Organizations, Women participation are in admirable status. BGP has developed women to be in Leadership (President, Secretary and Treasurer) position in several WMG/WMA.

Community leadership Development: such as WMG general member to WMA President to UP (Fingri) Chairman. Develop season long learning FFS and contribute self-income generating activities and they also share their learning with neighbors. A pilot project on Aqua-Geoponics-Cage culture in open canal/ Khal is going to be implemented.

Table 23

Polder 2 Budget for year 2016-17

S.N.	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	4.8	5.4
2	Main Infrastructure	1,440.93	1,640.72
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	48.4	55.1
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	7.5	8.54
6	Training	103.6	118.0
	TOTAL	1605.23	1827.76

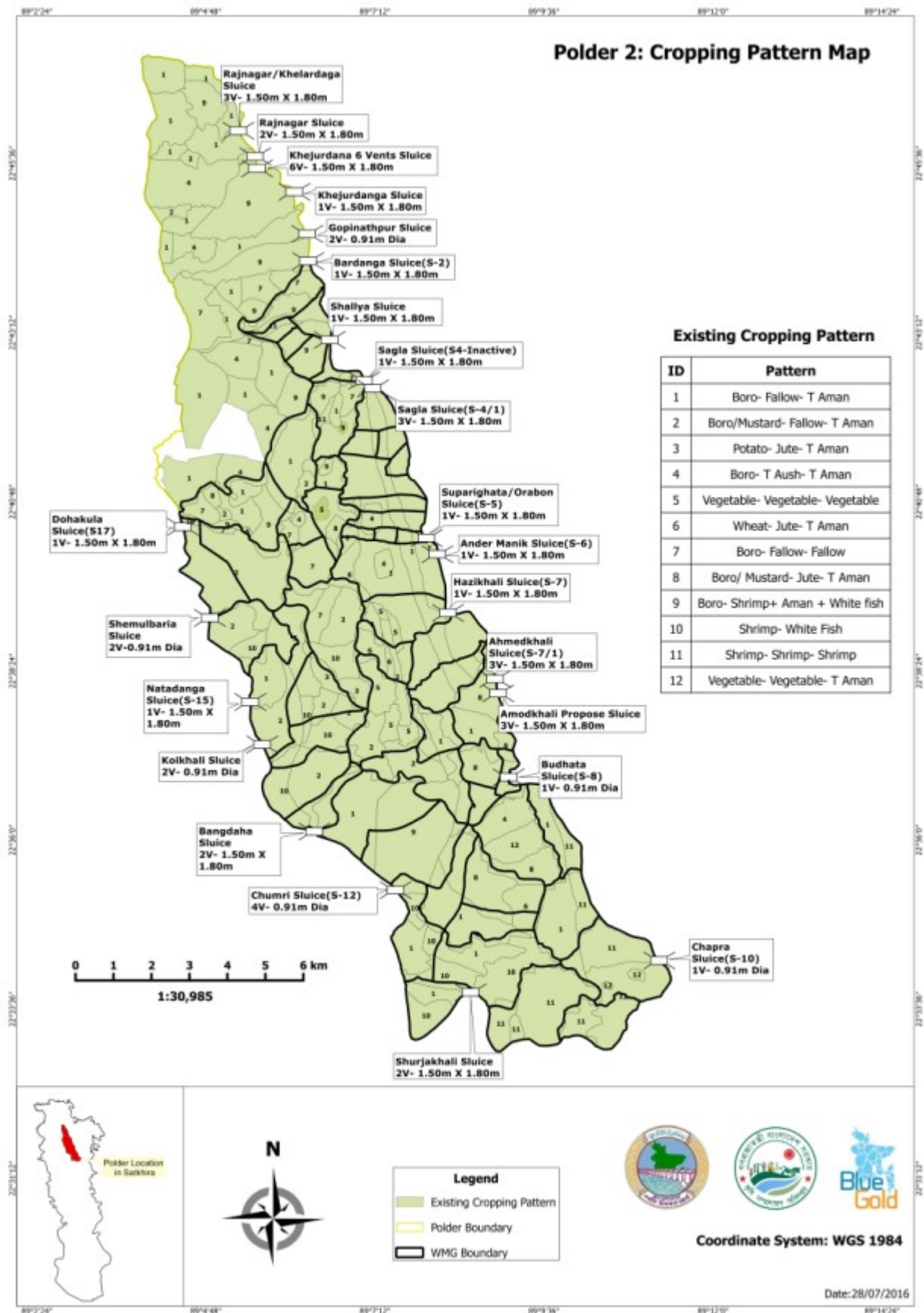


Table 24
Polder 2 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks	
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June		
1	Institutional Framework for Participatory Water Management															
1.1	Selection Area and workshop for CWM activity	3								x	x	x	x	x	x	
1.2	Construction of WMA Centre	3								x	x	x	x	x	x	3nos out of 5nos
1.3	Facilitate formulation and implementation of integrated WAP (with GoB and LGI)	58	x	x	x	x	X	x	x	x	x	x	x	x	x	
1.4	Stimulate WMGs implement operation and maintenance works based on WAP	-	x	x	x	x	X	x	x	x	x	x	x	x	x	
1.5	Support WMGs to install accounts keeping system and undergo audit	58	x	x	x	x	x	x								
1.6	Support WMGs and WMAs to conduct Annual General Meeting & Quarterly General Meeting	58+5	x		x				x			x		x	x	
1.7	Organize exposure visit/ Exchange Learning Sharing Visit for WMOs	5				x	x	x	x							With help of training team
1.8	Stimulate formation and capacity building of necessary WMG sub-committees	58		x	x	x	x	x	x							Each WMG IGA, Audit, O&M and Agriculture Sub committees
1.9	Stimulate WMGs continue with membership enrolment, orientation/ training and horizontal learning activities	58	x	x	x	x	x	x	x	x	x	x	x	x	x	Special attention to include members from medium & large farm HHs and enrolment Women membership
1.10	Support WMA Registration Processing	5	x	x	x	x	x	x								
1.11	Stimulate WMA and WMGs formulate O&M resource mobilization mechanism (with GoB and LGI)	58								x	x	x	x	x	x	Create O&M fund and resource mobilization
1.12	Facilitate WMA/Catchment level Action Planning workshop	1		x												One workshop at Polder level with 5 WMA
1.13	Follow up WMA implementation and update process of Action Plan	5			x	x	x	x	x	x	x	x	x			
1.14	Coordination and progress sharing Polder team meeting	12	x	x	x	x	x	x	x	x	x	x	x	x	x	
1.15	Organize and facilitated OM, AKAS, GLD and O&M Training	27+14+28+15	x	x	x	x	x	x	x	x	x	x	x	x	x	With the help of outsourcing and Training Team
1.16	Organize and support to UP and Upazilla orientation	5 + 2		x	x	x										Newly elected UP
2	Main Structure															

2.1	Design Data Collection & Detailed Design	-		x	x	x	x	x								
2.2	Estimate Preparation & Vetting	-			x	x	x	x	x							
2.3	Preparation of Work Packages	-				x	x	x	x	x						
2.4	LCS Formation & Training	-					x	x	x	x						Involved to CO and WMG's
2.5	Monitoring Committee Formation & Training (if any)	-					x	x	x							Involved to CO and WMG's
2.6	Contractor Orientation, Tendering & Work Award	-					x	x	x	x	x					
2.7	Assist WMGs to form and mobilize LCS groups and oversee works	30					x	x	x	x	x					
2.8	Embankment Re-sectioning	18.44 km			x	x	x	x	x	x	x	x	x	x		Running and New work
2.9	Canal Re-excavation	35.77 km							x	x	x	x				
2.10	Repair of Sluices	8 nos.							x	x	x	x	x	x		
2.11	Construction of Sluices	3 nos.				x	x	x	x	x	x	x	x	x		
2.12	Construction of Culverts	3 nos.							x	x	x	x	x	x		
2.13	Pump Shed & Stilling Basin	2 nos.							x	x	x	x	x	x		
2.14	Low Cost Bank Protection	2.0 km							x	x	x	x	x			
2.15	Practical Training on gate operation	01										x	x			
2.16	Monitoring and Quality Control of works and bill certification (WMO, TA, BWDB)	5	x	x	x	x	X	x	x	x	x	x	x	x	x	
3	Agriculture & Marketing Services															
3.1	28 FFS Cycle 7	28	x	x	x	x	x	x								Fish, Dairy cow, Nutrition
3.2	28 FFS Cycle 8	28				x	x	x	x	x	x					Poultry, Homestead vegetables, Nutrition
3.3	28 FFS Cycle 9	28									x	x	x	x		Fish, Dairy cow/Cattle rearing, Nutrition
3.4	Train contact farmers Cycle 6	28			?							?				Training and meetings for 28 Contact farmers (exact timing to be decided)
3.5	? FFS T.Aman by DAE	?	x	x	x	x	x	x								DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known)
3.6	? FFS Boro/Rabi by DAE	?							x	x	x	x	x	x		DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.7	Demonstrations by DAE	60							x	x	x	x	x	x		During Boro/Rabi 2017, DAE will have 60 demonstration-trials will be set up at polder-2 with the discussion of DAE officials

3.8	PAR fruits trees and vegetables	5										x	x	x	x	Possible new BAU activity testing new fruit and vegetable species with FFS farmers in Participatory Action Research (PAR)
3.9	Aqua geonics project	15 HHs	x	x	x	x	x	x	x	x	x	x	x	x		One year project on aqua geonics under the innovation fund, in selected 2 WMGs of polder 2
3.10	Demonstration on Pabda fisheries	1	x	x	x	x	x	x	x	x	x					One Demonstration on production of Pabda fisheries
3.12	Follow-up six cycle FFS	28	x	x	x	x	x	x	x	x	x	x	x	x		Phase out FFS Follow-up
3.14	Backstopping fish nurseries	4	x	x									x	x	x	Backstopping for 4 trained service provider to supply the fingerling in the surrounding fish famers
3.15	Sugar beet Demonstration	1				x	x	x	x	x	x	x	x	x		One field trial sugar beet
3.16	Trial duck rearing on sugar beet	1	x	x	x											One trial testing the use of sugar beet for duck rearing
3.17	Introduce of improve verity of Mustard and Lenten	6 bigha					x	x	x	x						Supply seed, fertilizer, and support technology need to be discussed with DAE as it is field crop.
3.18	Trail on Garlic Cultivation in zero tillage/ tillage	6 bigha					x	x	x	x						Supply seed, fertilizer, and support technology Could be a DAE demo.
3.19	Experience Sharing and Exchange visit	3 Batch			x			x						x		
3.20	Agricultural Fair-2017	1									x					It is decided by DAE
3.21	Establishment of Supply Chain	4			x	x	x	x	x	x	x	x	x	x	x	Moheshwarkathi, Fingri, Bangdha, Dhulihor
3.22	Selection and Develop on Community Poultry Worker and Community Livestock Worker	10+10	x	x												
3.23	Linkage with BWDB, DAE, DLS, DOF, LGI and other organization		x	x	x	x	x	x	x	x	x	x	x	x	x	Improvement of Co-ordination, Communication and linkage
3.24	Capacity building of Market Actors	TBD			x	x			x	x						
4	Environmental Sustainability and DRR															
4.1	Obtaining Environmental Clearance Certificate from DoE	1			x	x										Outsourcing
4.2	Environmental compliance monitoring and quarterly reporting to DoE	2									x				x	Monitoring by the Polder team and reporting by the Zonal Level
4.3	Formulation of Environmental and Social Management Plan (ESMP)	1						x	x							Polder Team
4.4	Reconstitution of UDMCs	4 UP						x	x	x						Polder Team and Outsourcing
4.5	Recruit WMG's Environment and DRR Counsellors	58+58 Person					x	x								Polder Team
4.6	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan	1 Event						x	x							Polder Team

4.7	Disaster Preparedness and implementation of CBDRR plan	1 Event							x	x							Polder Team
4.8	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.	6 batch								x	x	x					Polder Team, Outsourcing and Training team
4.9	Orientation to LCS Leader, Contractor, and WMA leader on environmental safeguard and condition environmental clearance certificate.	10 batch							x	x	x	x					Integrated with LCS training.
4.10	Day observing of Environment and DRR	2 event						X								x	
4.11	Improvement cooking system at community level by Innovation fund		x	x	x	x	X	x									Implementation by Bangladesh Bandhu Foundation through WMOs

1.13 Polder 43/2A

Introduction to the Polder

Polder 43/2A is at Patuakhali O&M Division of BWDB and under Sadar Upazila of Patuakhali District. The polder covers 3 Unions, namely, Choto Bighai, Bara Bighai & Madarbania & 14 Villages. The main livelihood sources of the polder are Agriculture (45%), fisheries (6.5%), non-agricultural labor (5.5%), agricultural labor (12.5%), commerce/businesses including small businesses (16%), transport and communication (3.5%), service holders (2.5%), rents and remittances (0.5%) and others (8%). The gross area of the polder is 5182 ha and benefitted area is 3887 ha. There are 06 nos. Drainage/ Flushing Sluice, 06 nos. Surface Drainage Sluice, 41 nos. Inlets and 14 nos. Closers.

Institutional Framework for Participatory Water Management

Under IPSWAM, 22 Water Management Group (WMA) were formed and registered under Department of Cooperative. During Blue Gold Program, all the WMGs were reformed according to Participatory Water Management Rules, 2014 and 19 WMGs were registered under BWDB. 03 WMGs are not yet registered due to Court Case. There are 2 WMAs among which 1 is registered with BWDB and the other is yet not submitted due to un-registered of 3 WMGs. Every WMA/WMA has own bye-laws. Total no. of HH is 8434, 5598 HH representatives are the members of WMGs. Total members of WMGs are 7104.

The WMGs organize meeting in every month and WMAs organize bi-monthly. The WMGs formulated yearly Action Plan (WAP) and perform accordingly. In every year each and every WMA organize Annual General Meeting and present last year's Accounts and coming year's Budget along with all other activities included in WAP.

Under Blue Gold Program, Polder Coordination Team had been formed involving the field level Officers of BWDB, DAE and TA part who are jointly working for the improvement of livelihood of local stakeholders.

Infrastructure Development

Under IPSWAM, most of the Sluice Gates, Inlet/Outlets, were rehabilitated/re-constructed and Canal/Khals were re-excavated. During Blue Gold Program, physical works were done till 2015-16 as mentioned below:

- Embankment 23.93 km,
- Retired embankment 1.65 km

- 4 Sluices
- 2 Outlets
- 34 Inlets

During 2016-17, the physical works planned for the FY 2016-17 under Blue Gold Program

- Retired embankment 4.00 km
- 2 Sluices
- 2 Outlets

Generally, WMO members involving local stakeholders take necessary steps for small O&M activity voluntarily, sometimes manage even by collecting money from medium and large farmers. In some cases, local Union Parishad assists them for O&M activity. But in major cases they inform local Union Parishad and BWDB to solve their problems.

Internal Water Management

In the FY 2016-17, 1 (one) CWM_FFS has established by DAE in collaboration of TA part for better internal water management in the Catchment area. For HL, the other WMGs may visit the CWM_FFS area and gather practical knowledge and may implement in their field.

Agricultural & Marketing Services

During FY 2014-16, 20 FFS had been taken to improve agriculture and marketing services and 20 Field Day for horizontal learning by Blue Gold TA part. There was no FFS for Business Development Activity. In this FY, 07 FFS for T. Aman has been organized by DAE. TA part has planned to select Community Poultry and Livestock Workers and train them under Blue Gold Program. At the end of last FY training had been given to 12 Fish Nursery Men to produce and supply quality Fingerlings in the polder area, so that they can produce quality fingerlings and may sell among the clients.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: The process of outsourcing for conduction of EIA and obtaining Environmental Clearance Certificate (ECC) from Department of Environment (DoE) is going on. ESMP will be formulated during 'Joint Planning Workshop at Polder level' in May 2017. Orientation to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues will be held jointly with Main Infrastructure activity cluster.

Disaster Risk Reduction (DRR): There are 3 Unions where the Union Disaster Management Committees (UDMC) are in place but not active. The UDMCs need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counsellors is going on through WMGs monthly meetings. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting, special GM and annual GM after the dry runs have been organised. The process of hiring service providers is going on for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management.

Good Practices, Lessons Learned and Innovations

From FFS, the farmers will learn more technical aspect and from them it will be expedited in other areas. So, HL will be more effective for other farmers.

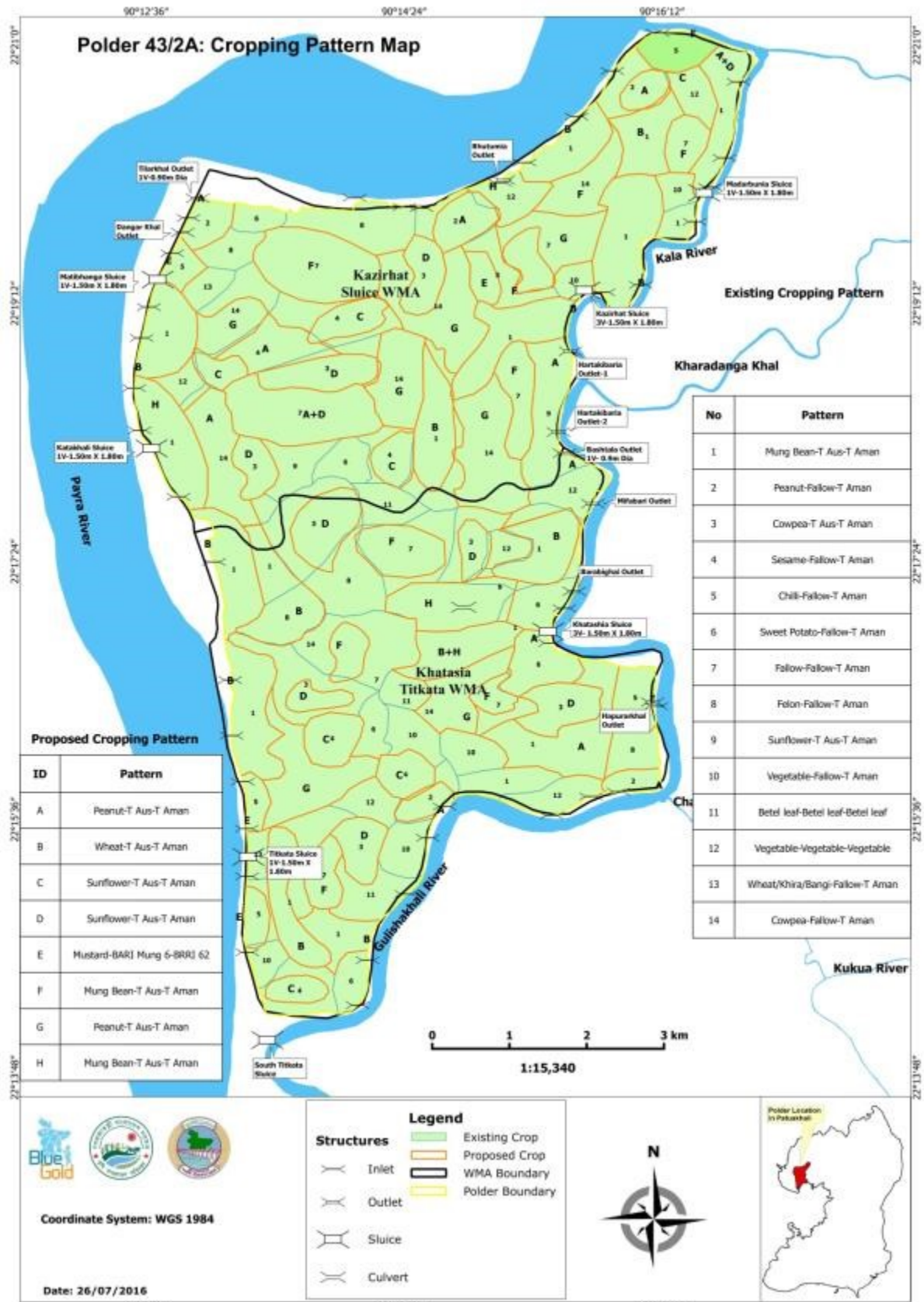


Table 25
Polder 43/ 2A Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	4.3	4.9
2	Main Infrastructure	119.76	136.37
3	Internal Water Management (Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)	18.8	21.4
4	Agriculture & Marketing Services (Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)	2.3	2.6
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	3.0	3.5
6	Training	20.9	23.8
	TOTAL	169.06	192.57

Table 26
Polder 43/2A Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	
1	Institutional Framework for Participatory Water Management														
1.1	Assist formulation of WMG Action Plan[1] (WAP)	21	x	x	x										Should be started in July/16
1.2	Stimulate WMGs review implementation and update WAP	21			x	x	x	x	x	x	x	x	x	x	
1.3	Stimulate formation and capacity building of necessary WMG sub-committees	-	x	x	x	x	x	x	x	x	x	x	x	x	
1.4	Stimulate WMGs enrol members	150	x	x	x	x	x	x	x	x	x	x	x	x	Special attention to include members from medium & large farmers
1.5	Stimulate WMGs enrol at least 40% female members	12	x	x	x	x	x	x						It should be completed within December/16	
1.6	Updating Books of Accounts	21	x	x	x	x	x	x	x	x	x	x	x	x	
1.7	Support WMGs to conduct Annual General Meeting	21		x	x	x									
1.8	Support WMG to review/modify By-Laws	21		x	x	x									
1.9	Stimulate WMGs perform routine O&M works based on WAP	-	x	x	x	x	x	x	x	x	x	x	x	x	Need based

1.10	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	21	x	x	x	x	x	x	x	x	x	x	x	x	
1.11	Support WMA Registration Processing	1				x	x	x							-
1.12	Facilitate WMA Action Plan formulation	2			x	x	x								
1.13	Follow up WMAs review implementation and update Action Plan	2				x	x	x	x	x	x	x	x	x	
1.14	Polder Team Coordination Meeting	12	x	x	x	x	x	x	x	x	x	x	x	x	Routine Work
1.15	Assist WMG Registration CWM-FFS	3			x	x	x	x	x	x	x	x	x	x	Vajna Paschim ChhotoBighai
1.16	Support WMG Auditing by BWDB	19			x		x	x	x	x	x	x	x	x	In September
1.17	Support WMG Election	7				x	x	x	x	x	x	x	x	x	To be held
1.18	Formation of Monitoring Committees at WMA level	2					x	x	x						Within December/16
2	Main Infrastructure														
2.1	Design Data Collection & Detailed Design	4 nos.	x	x	x	x									Should be July to sept/16
2.2	Estimate Preparation & Vetting	5 nos.		x	x	x	x	x							Within September/16
2.3	Preparation of Work Packages	9 nos,				x	x	x							Within October
2.4	Monitoring Committee Formation &	2 nos.					x	x	x						Within December/16
2.5	WMGs organize LCS groups	-					x	x	x	x					
2.6	WMGs mobilize LCS groups	-					x	x	x	x	x	x			
2.7	LCS Training	4 nos.													Within December/16
2.8	Contractor Orientation, Tendering & Work	1 no.						x	x						Within December/16
2.9	Construction Works														
2.10	Embankment Retirement	5.5 km							x	x	x	x	x	x	Earth work to be completed within April/17 & Turfing to be done in June/ 17
2.11	Repair of Sluices	3 nos.						x	x	x	x	x	x	x	Within June/17
2.12	Construction of Outlets	2 nos.						x	x	x	x	x	x	x	Within June/17
2.13	Monitoring and Quality Control of works and bill certification (WMG, WMA, TA, BWDB)	-							x	x	x	x	x	x	
3	Agriculture & Marketing Services														
3.1	Train contact farmers Cycle 3 and 5	19				x							x		Training and meetings for 19 Contact farmers (exact timing to be decided)
3.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x							DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known). In

																43/2A the DAE will include 1 FFS Community Water Management. CWM-FFS DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known. CWM-FFS
3.3	? Demonstrations by DAE	?							x	x	x	x	x	x		During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.4	BAU trial plots	4		x			x			x				x		BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder)
3.5	Follow up CAHWs	4			x				x				x			Follow up (Munir)with trained 3 Community Poultry Workers and 1 Community Livestock Workers
3.6	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x	
3.7	Capacity building of Market Actors	TBD			x	x			x	x						
4	Environmental Sustainability and DRR															
4.1	Environmental compliance monitoring and quarterly reporting to DoE		x			x			x				x			To perform this activities we will have training on this issue
4.2	Formulation of Environmental and Social Management Plan (ESMP)												x	x		To perform this activities we will have training on this issue
4.3	Reconstitution of UDMCs								x	x	x	x	x			To perform this activities we will have training on this issue
4.4	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x					To perform this activities we will have training on this issue
4.5	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan												x	x		To perform this activities we will have training on this issue
4.6	Disaster Preparedness and implementation of CBDRR plan														x	To perform this activities we will have training on this issue
4.7	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.								x	x	x	x				To perform this activities we will have training on this issue

1.14 Polder 43/1A

Introduction to the Polder

Polder 43/1A is under Amtoli Upazila of Barguna O&M Division of BWDB. There are 2 Unions, namely, Kukuya & Athargachia and 7 Mouzas and 08 Villages. The main livelihood sources of the polder are Agriculture (52%), fisheries (1%), non-agricultural labor (14%), agricultural labor (15%), commerce/businesses including small businesses (5%), transport and communication (4%), service holders (4%), rents and remittances (0.5%) and others (4.5%). The gross area is 2675 ha and benefited area is 2200 ha. The no. of sluices is 05, outlets are 06 and Inlets are 17.

Institutional Framework for Participatory Water Management

Under IPSWAM project, 14 WMG were formed and registered under Department of Cooperative. During BGP, all the WMGs were reformed according to PWM Rules, 2014 and 13 WMGs were registered under BWDB. 1 (one) WMG not yet registered due to Court Case. 2 WMAs have been formed and also registration related documents have been submitted. Every WMG/WMA has its own bylaws. The WMGs organize meetings every month and WMAs organize meetings bi-monthly. The WMGs have formulated yearly Action Plan (WAP) and are performing their planned activities accordingly. Among 5129 HH, 3519 HH representatives are the members of 14 WMGs. The total members of WMGs are 3808. Every year all WMGs organize AGMs and present immediate last year's accounts and coming year's budget along with all other activities included in WAP. Under Blue Gold Program, Polder Coordination Team have been formed involving the field level Officers of BWDB, DAE and TA who are jointly working for improvement of livelihood of local stakeholders.

Infrastructure Development

Under IPSWAM, most of the Sluice Gates, Inlet/Outlets, were rehabilitated/re-constructed and Canals/Khals were re-excavated.

During FY 204-16, Blue Gold Program had planned for the following physical works

- Embankment 26.90 km (Completed)
- 1 Sluices (Carried over)
- 5 Outlets (Carried over)
- 10 Inlets (Complete)

During 2016-17, the physical works planned for the FY 2016-17 under Blue Gold Program

- 4 Sluices
- Low Cost Bank Protection 0.250 km
- 7 Canal/Khal re-excavation (19.10 km)

Internal Water Management

In FY 2016-17, 2 CWM-FFS has been established in this Polder by DAE in cooperation with TA part. DAE has also been implementing 05 FFS (T. Aman) directly under Blue Gold Program.

Agricultural & Marketing Services

A total of 14 FFS and 08 MFS (subsector-mungbean) were formed by the TA part and 2 FFS by DAE. Each FFS and MFS selected a CF and RF respectively from their members based on the criteria. Project has provided different capacity building support for the RF's and CF's so that the members of FFS and MFS get different technical, input and service related information in absence of project or end of the project.

During this FY, no FFS will be formed in the polder but 3 FFS will be formed by DAE and 8 cropping system MFS (T-aman rice and Robi crop) will be formed by TA part. Part of technical capacity building of CF's for cycle 5 and 6 a total of 22 CF's will be trained by the TA part as per the plan. More over DAE has planned to organize 2 CWM-FFS in the polder. One location for community fisheries will be selected where poor WMG members with women members will get employment opportunity and utilize unused water bodies to increase the fish production.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: The process of outsourcing for conduction of EIA and obtaining Environmental Clearance Certificate (ECC) from Department of Environment (DoE) is going on. ESMP will be formulated during 'Joint Planning Workshop at Polder level' at the month of May 2017. Orientation to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues will be held jointly with main Infrastructure activity cluster.

Disaster Risk Reduction (DRR): In related Unions where the Union Disaster Management Committees (UDMC) are in place but not active. The UDMCs need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counselors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting; special GM and AGM after the dry runs would be organized. The process of hiring service providers is going on for training to Environment and DRR Counselors and UDMCs on Environment and Social Safeguard and Disaster Management.

Good practices, lessons learned and innovations

Farmers are needed with different services and inputs to produce crops. In general the individual farmer most of the times purchase or negotiate for quality services and inputs with different service providers. As he takes services/inputs individually, the services/input providers do not motivate to discount the prices. On the other hand as he is alone that's why he cannot bargain with the services/inputs providers. Besides, farmers required more time and transportation cost to collect agriculture inputs from the local markets which affect to increase the production cost and decrease the net income. Services/ input providers always honored the farmers who order for bulk volume in that case they sacrifice certain percentage i.e. price. Keeping the situation in mind the business development facilitated to organize the MFS to collectively purchase inputs and services from the service providers through RF's and formation of Collective Action Group. During the formation of CAG/RF, they clearly identify who will be responsible for which works and what compensation would be provided by the members.

In last Mungbean season in polder, 43/1A a total of 172 farmers of 08 MFS collectively purchased 354 bottle pesticides for Mungbean where they got 5% commission and 30 farmers cultivated on 45 acre of land by the assistance of RF where they got 20% less than local rate. Besides, if we consider transportation cost and time of 172 and 30 farmers in taka the huge amount of money became safe which ultimately decreased production cost and increased more income and also increased the bargaining power of the producers. Through the initiative, functional relationship between them has been established and create win-win situation. This innovation will be replicate to another MFS/FFS.

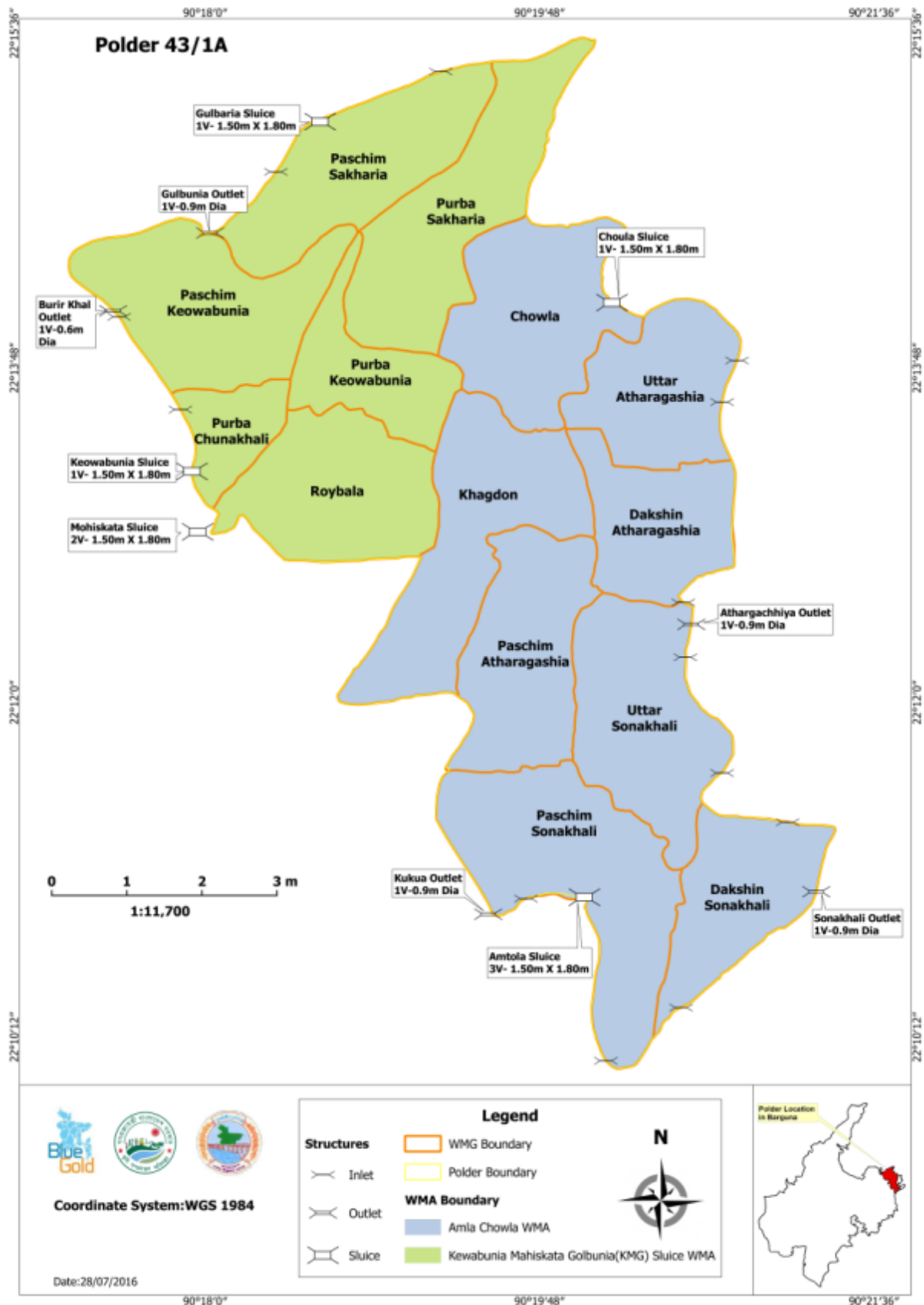


Table 27
Polder 43/1A Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	4.4	5.0
2	Main Infrastructure	213.71	243.34
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	37.5	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	9.8	11.1
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	2.8	3.2
6	Training	18.8	21.4
	Total	287.01	284.04

Table 28
Polder 43/ 1A Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks	
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June		
1	Institutional Framework for Participatory Water Management															
1.1	Formulation of WMG Action Plan[1] (WAP)	14	x	x												
1.2	WMGs review implementation and update WAP	14	x	x	x	x	x	x	x	x	x	x	x	x		
1.3	Stimulate formation and capacity building of necessary WMG sub-committees	40	x	x	x	x	x	x	x	x	x	x	x	x		
1.4	Stimulate WMGs enrol members	-	x	x	x	x	x	x	x	x	x	x	x	x		Special attention to include members from medium & large farm HHs
1.5	Assist to organize monthly meeting of WMG	14	x	x	x	x	x	x	x	x	x	x	x	x		Each month WMG organize monthly meeting
1.6	Assist to organize monthly meeting of WMA	2	x		x		x		x		x		x			Every two month WMA will organize meeting
1.7	Support WMA to organize AGM	2			x											Two WMA will organize two AGM
1.8	Assist to organize WMG election	4					x		x			x		x		4 election will held at 04 WMG
1.9	Assist to organize WMG audit	14					x									Audit will be done at 14 WMG
1.10	Polder Team Coordination meeting	12	x	x	x	x	x	x	x	x	x	x	x	x		Each month one meeting will be held
1.11	Stimulate WMGs enrol at least 40% female members	5	x	x	x	x	x	x								40% female member already exist in 09 WMG's .So other 05 WMG's will ensure 40% female members
1.12	Updating Books of Accounts	14	x	x	x	x	x	x	x	x	x	x	x	x		
1.13	Support WMGs to conduct Annual General Meeting	14	x	x	x											

1.14	Support WMG to review/modify By-Laws	14	x	x	x											
1.15	WMGs perform routine O&M works based on WAP	-	x	x	x	x	x	x	x	x	x	x	x	x	x	Need based
1.16	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	14	x	x	x	x	x	x	x	x	x	x	x	x	x	
1.17	Support WMA Registration Processing	2	x	x	x											
1.18	Facilitate WMA Action Plan formulation	2		x	x	x	x	x								
1.19	Follow up WMAs review implementation and update process of Action Plan	2			x	x	x	x	x	x	x	x	x	x	x	
1.20	Formation of Monitoring Committees at WMA level	2						x	x	x						
1.21	Design Data Collection & Detailed Design	7 nos		x	x	x										Khal-3 nos and sluice repair-4 nos
1.22	Estimate Preparation & Vetting	7 nos			x	x	x	x								Khal-3 nos and sluice repair-4 nos
1.23	Preparation of Work Packages	9 nos				x	x	x								LCS - 3 nos, contractor-6 nos package
2	Main Infrastructure						x	x								
2.1	LCS Formation & Training	3 nos					x	x								3 nos LCS in 3 nos khals
2.2	Monitoring Committee Formation & Training (if any)	2 nos					x	x	x							As there are 02 WMA
2.3	Contractor Orientation, Tendering & Work Award	1 nos					x	x	x							1 batch contractor orientation, tendering and works award will be organize
2.4	WMGs organize LCS groups	14					x	x	x	x						
2.5	WMGs mobilize LCS groups	14					x	x	x	x	x	x	x			
2.6	Canal Re-excavation	14.6 km							x	x	x	x				Keyabunia Khal- 1.5km, Biller khal/ Keyabunia branch khal-1.2 km and Golbunia branch/khejurtola khal -1.2km
2.7	Repair of Sluices	4 nos.							x	x	x	x	x	x	x	Keyabunia, Chwla, Amtola and Mohiskata sluice
2.8	Low Cost Bank Protection	0.25 km							x	x	x	x	x			Sonalkhali and Budbaria
2.9	Monitoring and Quality Control of works and bill certification (WMG, WMA, TA, BWDB)	-							x	x	x	x	x	x		Actually it will be 'A' instead of 'C' and WMG will be deleted
3	Agriculture & Marketing Services															
3.1	Train contact farmers Cycle 5 and 6	22			x								x			Training and meetings for 22 Contact farmers. CF training of cycle-6 will be on Sep-16 and CF training of cycle-5 will be on April-17(exact timing to be decided)

3.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x									DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known). In 43/1A, DAE will have 2 FFS on Community Water Management. DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.3	? Demonstrations by DAE	?								x	x	x	x	x	x		During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.4	BAU trial plots	4		x				x			x					x	BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder)
3.5	Follow up CAHWs	4			x					x					x		Follow up (Munir)with trained 2 Community Poultry Workers and 2 Community Livestock Workers
3.6	Community fisheries	1	x	x	x	x	x	x	x	x							One location with community fisheries, which involves poor WMG member specially women aiming to create employment opportunities and utilize the unused water bodies to increase production.
3.7	MFS Cropping Systems-1	8	x	x	x	x	x	x									MFS T. Aman - Robi crop Year 1
3.8	RF networking		x	x	x	x	x	x	x	x	x	x	x	x			
3.9	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x			
3.10	WRM strengthening							x	x	x				x	x	x	Activities related with WRM strengthening
3.11	Support to CWM FFS	2	x	x	x	x	x	x									
3.12	MFS Producer Group Support-2	8							x	x	x	x	x	x			mainly Market Orientation activities
3.13	PF Training (Zonal level)	2	x	x					x	x							Training will be conducted at zonally level together with other's polder
3.14	DAE linkage (Capacity building of DAE staff)	TBD			x	x			x	x							Zonal level
3.15	Capacity building of Market Actors	TBD			x	x				x	x						Zonal level
3.16	Drama (Popular Theatre)	5					x	x	x	x							
4	Environmental Sustainability and DRR																
4.1	Environmental compliance monitoring and quarterly reporting to DoE		x				x			x					x		
4.2	Formulation of Environmental and Social Management Plan (ESMP)														x	x	

4.3	Reconstitution of UDMCs									x	x	x	x	x		
4.4	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x					
4.5	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan												x	x		
4.6	Disaster Preparedness and implementation of CBDRR plan														x	
4.7	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.									x	x	x	x			

1.15 Polder 43/ 2B

Introduction to the Polder

Polder 43/2B is under Patuakhali O&M Division of BWDB. It is surrounded by 39.83 km embankment. It is under Galachipa and Patuakhali Sadar Upazila of Patuakhali District & Amtoli Upazila under Barguna District. The polder covers 03 Unions, namely, Galachipa, Aouliapur & Athargachia & 26 Villages. The main livelihoods sources of the polder are Agriculture (50%), fisheries (6.5%), non-agricultural laborer (5.5%), agricultural laborer (25%), commerce/business including small business (1%), transport and communication (2%), service holder (1%), rent and remittance (0.25%) and others (4.75%) of the people. The gross area of the polder is 5782 ha and benefitted area is 4000 ha. There are 06 nos. Drainage/ Flushing Sluice, Inlets 39, Closer 20, No. of Khals 75 (133 km).

Institutional Framework for Participatory Water Management

Under IPSWAM program, 28 WMGs were formed and registered by Department of Cooperatives. During Blue Gold Program, all the WMGs were reformed according to PWM Rules, 2014 and 28 WMGs were registered under BWDB. 3 WMAs were formed and registered under PWM Rules, 2014. Every WMG/WMA has own by-laws. Out of 8885 HH, 5735 HH representatives are the members of WMGs. Total no. of members are 7297. The WMGs organize meeting in every month and WMAs organize bi-monthly. The WMGs formulated yearly Action Plan (WAP) and perform accordingly. In each and every year WMG organize AGM and they presented last year's Accounts and coming year's Budget along with all other activities included in WAP.

- Under Blue Gold Program, Polder Coordination Team had been formed involving the field level Officers of BWDB, DAE and TA part who are jointly working for the improvement of livelihood of local stakeholders.

Infrastructure Development

Under IPSWAM, most of the Sluice Gates, Inlet/ Outlets, were rehabilitated/re-constructed and Canal/Khals were re-excavated. During Blue Gold Program, physical work was planned up to 2015-16 as mentioned below

- Embankment 7.88 km,
- Canal/Khal re-excavation 12.26 km
- Sluices 2 nos.
- Inlets 42 nos.

During 2016-17, the physical works planned for the FY 2016-17 under Blue Gold Program

- Retired embankment 2.00 km
- Re-constructed of Sluices 2 nos.
- Construction of Outlets 2 nos.
- Construction of Cross Dam 3 nos.

Generally, WMO members involving local stakeholders take necessary steps for small O&M activity voluntarily, sometimes, collected money from medium and large farmers. In some cases, local Union Parishad assisted them for O&M activity. But in major cases they inform local Union Parishad and BWDB to solve their problems.

Internal Water Management

In the FY 2016-17, 2 (two) CWM_FFS has established by DAE in collaboration of TA part for better internal water management in the Catchment area. DAE has 05 FFS (T. Aman). For HL, the other WMGs may visit the CWM_FFS area and gather practical knowledge and may implement in their field.

Agricultural & Marketing Services

During FY 2014-16, 31 FFS had been taken to improve agriculture and 31 Field Day for horizontal learning by Blue Gold TA part. 2 Community Workers and 3 Community Livestock Workers were trained by TA part to develop their knowledge, so that they can use their knowledge for the other people and financially developed themselves. From the last FY, MFS had been implementing by TA part to increase income and employment through Mung bean Value Chain development. In this FY, 07 FFS for T. Aman has been organized by DAE.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: The process of outsourcing for conduction of EIA and obtaining Environmental Clearance Certificate (ECC) from Department of Environment (DoE) is going on. ESMP will be formulated during 'Joint Planning Workshop at Polder level' at the month of May 2017. Orientation to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues will be held jointly with Main Infrastructure activity cluster.

Disaster Risk Reduction (DRR): In related Unions the Union Disaster Management Committees (UDMC) are in place but not active. The UDMCs need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting, special GM and annual GM after the dry runs been organised. The process of hiring service providers is going on for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management.

Good practices, lessons learned and innovations

In last Mungbean season, farmers of 8 MFS collectively purchased pesticides for mungbean where they got 5% commission and farmers cultivated their land by the assistance of RF where they got 20% less than local rate. For this reason they saved a huge amount of money that ultimately decreased production cost and increased more income and also increased the bargaining power of the producers. From FFS, the farmers will learn more technical aspect and from them it will be expedited in the other areas. So, HL will be more effective for other farmers.

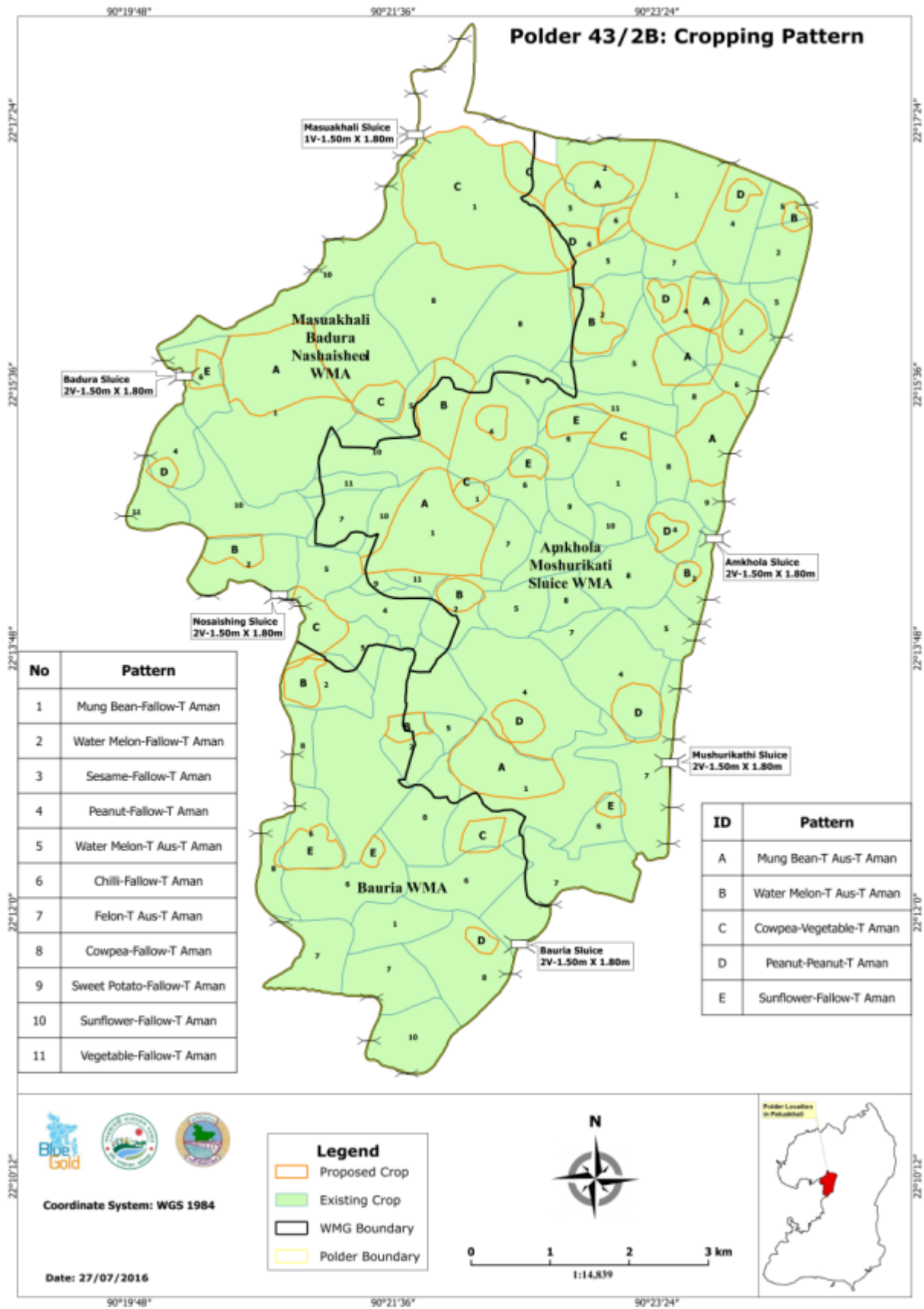


Table 29
Polder 43/ 2B Budget for year 2016-17

S.N.	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	12.2	13.8
2	Main Infrastructure	200.81	228.65
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	37.5	42.7
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	10.1	11.5
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	4.2	4.8
6	Training	50.0	56.9
	TOTAL	314.81	358.35

Table 30
Polder 43/2B Activity Plan for year 2016-17

S.N.	Task Name	Target	2016					2017						Remarks		
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May		June	
1	Institutional Framework for Participatory Water Management															
1.1	Support formulation process of WMG Action Plan[1] (WAP)	28	x	x	x											We will need 1 month more to complete this activity
1.2	Follow-up WMGs review implementation and update WAP	28	x	x	x	x	x	x	x	x	x	x	x	x		
1.3	Formation and capacity building of necessary WMG sub-committees	-	x	x	x	x	x	x	x	x	x	x	x	x		
1.4	Stimulate WMGs enrol members	-	x	x	x	x	x	x	x	x	x	x	x	x		Special attention to include members from medium & large farm HHs
1.5	Stimulate WMGs enrol at least 40% female members	9	x	x	x	x	x	x								
1.6	Support Updating Books of Accounts	28	x	x	x	x	x	x	x	x	x	x	x	x		
1.7	Support WMGs to conduct AGM	28	x	x	x											
1.8	Support WMG to review/modify By-Laws	28	x	x	x											
1.9	Follow-up WMGs perform routine O&M works based on WAP	28	x	x	x	x	x	x	x	x	x	x	x	x		Need based
1.10	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	27	x	x	x	x	x	x	x	x	x	x	x	x		
1.11	Stimulate WMGs organize LCS groups	-							x	x	x					

1.12	Stimulate WMGs mobilize LCS groups	-							x	x	x	x			
1.13	Facilitate WMA Action Plan formulation	3		x	x	x									
1.14	Follow up WMAs review implementation and update of Action Plan	3			x	x	x	x	x	x	x	x	x	x	
1.15	Formation of Monitoring Committees at WMA level	3							x	x					
1.16	Support WMG Auditing	28							x	x					New Activity
1.17	Polder Coordination meeting	12							x	x					Each month one meeting will be organize
2	Main Infrastructure														
2.1	Design Data Collection & Detailed Design	4 nos		x	x	x									04 nos of Structure
2.2	Estimate Preparation & Vetting	4 nos			x	x	x	x							04 nos of Structure
2.3	Preparation of Work Packages	9 nos				x	x	x							04 nos for structure and 05 for LCS
2.4	LCS Formation & Training	4 Nos.					x	x							
2.5	Monitoring Committee Formation & Training (if any)	3 nos					x	x	x						As WMA formed 3 Nos.
2.6	Contractor Orientation, Tendering & Work Award	1 nos					x	x	x						1 per Zone
2.7	Construction Works														
2.8	Retired Embankment	2.0 km							x	x	x	x	x		
2.9	Construction of Sluices	2 nos.							x	x	x	x	x	x	
2.10	Construction of Outlets	2 nos.							x	x	x	x	x	x	
2.11	Monitoring and Quality Control of works and bill certification (WNG, WMC, TA, BWDB)	-							x	x	x	x	x	x	
3	Agriculture & Marketing Services														
3.1	Train contact farmers Cycle 5 and 6	31			x						x				Training and meetings for 31 Contact farmers (exact timing to be decided)
3.2	? FFS T.Aman by DAE	?	x	x	x	x	x	x							DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known). In 43/2B, DAE will include 2 FFS Community Water Management.
3.3	? FFS Boro/Rabi by DAE	?							x	x	x	x	x	x	DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.4	? Demonstrations by DAE	?							x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.

3.5	BAU trial plots	4		x			x			x			x		BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder) To perform these activities, we need training/orientation on the issues.
3.6	Follow up CAHWs	4			x				x				x		Follow up (Munir) with trained 2 Community Poultry Workers and 2 Community Livestock Workers. We need training on CAHWs activities to perform the activity
3.7	MFS Cropping Systems-1	8	x	x	x	x	x	x							MFS T. Aman - Robi crop Year 1
3.8	RF networking		x	x	x	x	x	x	x	x	x	x	x	x	
3.9	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	
3.10	WRM strengthening						x	x	x				x	x	Activities related with WRM strengthening
3.11	Support to CWM FFS	2	x	x	x	x	x	x							
3.12	MFS Producer Group Support-2	8						x	x	x	x	x	x		mainly Market Orientation activities
4	Environmental Sustainability & DRR														
4.1	Environmental compliance monitoring and quarterly reporting to DoE		x			x			x				x		
4.2	Formulation of Environmental and Social Management Plan (ESMP)												x	x	
4.3	Reconstitution of UDMCs								x	x	x	x	x		
4.4	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x				
4.5	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan						\						x	x	
4.6	Disaster Preparedness and implementation of CBDRR plan														x
4.7	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.								x	x	x	x			

1.16 Polder 43/2D

Introduction to the Polder

The gross area of the polder is about 8,800 ha, with a net cultivable area of 7,212. This polder located under Patuakhali sadar upazilla and bounded on the north by Patuakhali paurosova on the east by Lohalia union, on the south by Amtoli upazila of Barguna district and on the west by Mirzagonj Upazilla. The length of this polder is about 9 Km (north to south), wide-10 Km (East to west). Polder 43/2D comprises 27 mouzas under 5 Unions (including a part of one Union) of Sadar Upazila of Patuakhali district. These unions are Madarbunia, Marichbunia, Auliapur, Kalikapur and, Jainkati (Part). Total population of the polder is 98549. In polder 43/2D total household is 11801. Households' status of land ownership regarding homestead and fruit gardening showing landless households are 339 (2.9%), maximum households 4311 (36.5%) of 11801 (100%) having land size 10-19 decimals, only one household belongs to more than 750 decimal land for homestead and fruit gardening. Occupations and relation of production characterize social groups like agriculture labor, small farmer, fishermen, urban poor and landless. The number of landless people is increasing day by day in this polder due to the lack of employment opportunities. As a result, most of the people are shifting their traditional professions to day labors, rickshaw pullers etc.

Institutional Framework for Participatory Water Management

Initially a total of 30 WMGs were formed among them 1 is abolished and 1 is inactive. So there are 28 WMGs are functional in the polder at present. The Blue Gold program has developed a well functional institutional framework in the aim of ensuring more participation of community people in participatory water management. The WMG is the primary and grass root level organization formed at village/para level whose main role is to identify and solve water management related problems. It has a formal and elected committee and was registered by BWDB in the year 2014 under PWMR 2014. Registration of 1 WMG yet not completed due to Court Case. A total of 5 WMAs have been in 2015. There is a provision that every WMA should have registration from BWDB but it is not completed yet. COs are assisting WMAs in preparing required documents for registration and it is expected that the registration of all the WMAs will be completed by December 2016. Each WMA and WMG is directed by formal by-laws. Blue Gold team is supporting WMGs and WMAs in institutional, financial and business capacity building to develop the organizations as self-reliable institute so that they are able to operation & maintain infrastructures independently. The BGP has a plan to establish WMA office building so that the community people (WMOs members), Local Government and GoB agencies can sit together for plan and implement activities related water management, agricultural productivity and market linkages. The program is supporting to develop a well functional institutional framework to ensure active participation of all the related stakeholders in equitable water management.

Infrastructure Development

In polder 43/2D a total of 17 sluices, 36 outlets and 72 inlets had been developed. Most of the Infrastructures are very old and require repair work which already have been completed. In order to community need assessment, some activities related to infrastructure development had been completed and some activities will be done in the year 2016-17. During FY 2014-16, the following physical work had planned to be done

- Embankment re-sectioning 17.20 km
- Repair Sluices 14 nos.
- Outlets 03 nos.
- Repair Inlets 46.0 nos.

During FY 2016-17, the following physical work planned to be done

- Construction of Outlets
- Re-excavation of Canal/Khals 14 nos. (28.567 km)

Community engagement in O&M is very essential since they have to have ownership of infrastructure maintenance so that they can have ability in maintaining infrastructure independently after phased out Blue Gold.

Internal Water Management

Several canals are existing in polder 43/2D among them some are already been silted out and rest are to be lost its normal flow day by day. There is a big coordination gap among GoB departments, as a result different department make some dam/obstacles on the flow of canals. So without coordination among GoB departments smooth water management is very difficult. In this circumstance Blue Gold Program is started community water management program to aiming to organize community people of a small geographic areas so that they can solve problem related water management in a confined area and can be able to improve cropping system through improved farming practice and market linkages. Therefore Blue Gold Program have a plan to re-excavate some canals which are essential in better water management. We sit with the polder dwellers before finalize plan and accommodate their need in the plan of canal re-excavation.

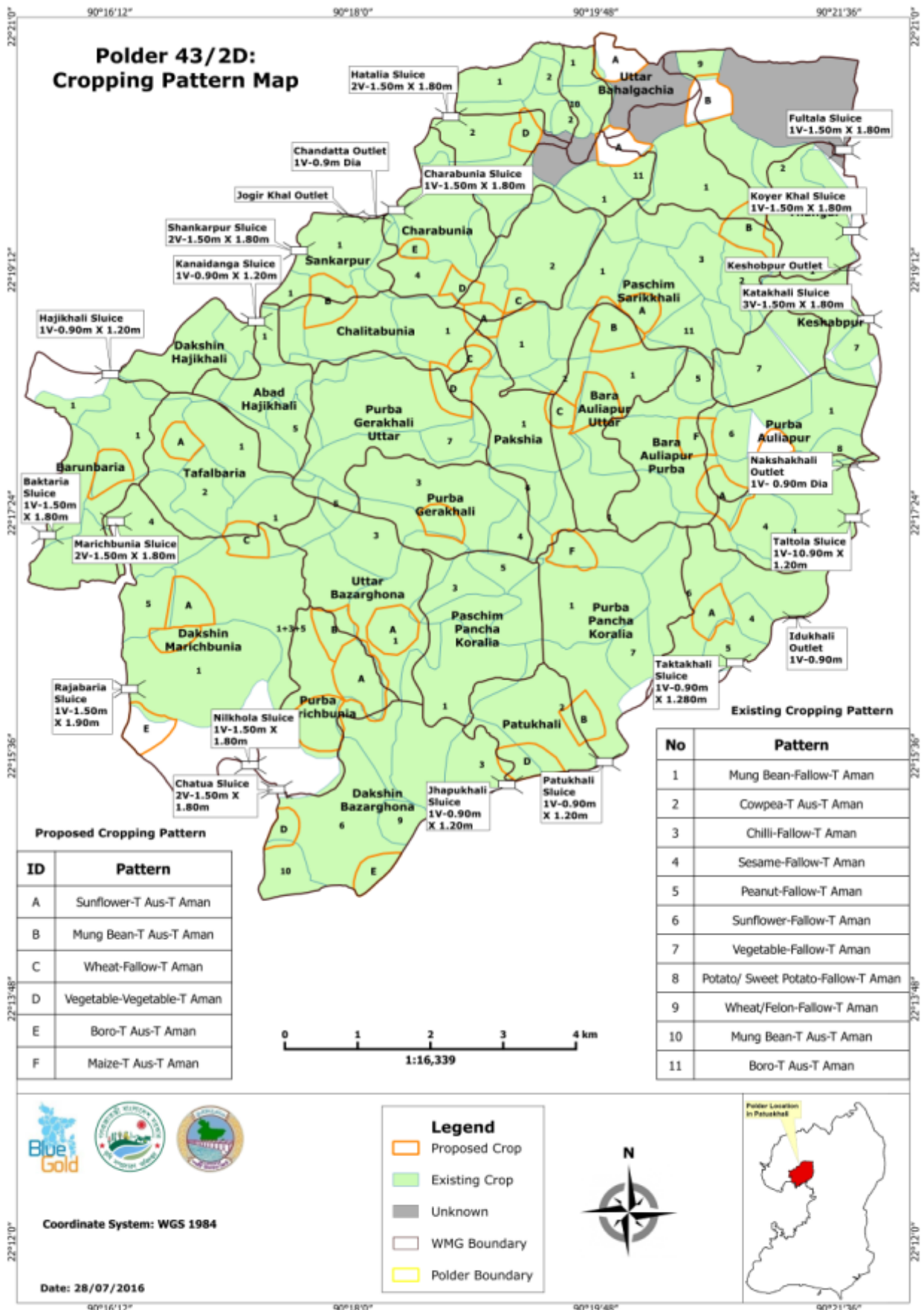


Table 31
Polder 43/ 2D Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	4.6	5.2
2	Main Infrastructure	375.61	427.67
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	18.8	21.4
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	14.6	16.6
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	6.0	6.9
6	Training	30.0	34.2
	TOTAL	449.61	511.97

Table 32
Polder 43 - 2D Activity Plan for year 2016-17

S. N.	Task Name	Target	2016					2017					Remarks		
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr		May	June
1	Institutional Framework for Participatory Water Management														
1.1	Support in formulation of WMG Action Plan[1] (WAP)	28	x	x	x										Need one Month more
1.2	Stimulate WMGs review implementation and support in update WAP	28		x	x	x	x	x	x	x	x	x	x	x	Will be started one Month earlier
1.3	Assist in WMA Monthly Meeting	5x6		x		x		x		x		x		x	Will be organize in every WMA
1.4	Assist in WMG Monthly Meeting	28x12	x	x	x	x	x	x	x	x	x	x	x	x	Will be organize in every WMA
1.5	Assist in formation and capacity building of necessary WMG sub-committees	55	x	x	x	x	x	x	x	x	x	x	x	x	
1.6	Stimulate WMGs in enrol members	-	x	x	x	x	x	x	x	x	x	x	x	x	Special attention to include members from medium & large farm HHs
1.7	Support in organize WMG Election	6 WMG	x	x	x	x	x	x	x	x	x	x	x	x	Election date is not due in 22 WMG
1.8	Stimulate WMGs enrol at least 40% female members	15	x	x	x	x	x	x	x	x	x	x	x	x	
1.9	Polder Team Coordination Meeting	12	x	x	x	x	x	x	x	x	x	x	x	x	Started from June
1.10	Assist in updating Books of Accounts	28	x	x	x	x	x	x	x	x	x	x	x	x	
1.11	Support WMGs to conduct AGM	28		x	x	x									
1.12	Support WMG to review/modify By-Laws	28		x	x	x									

1.13	Follow up WMGs perform routine O&M works based on WAP	-	x	x	x	x	x	x	x	x	x	x	x	x	Need based
1.14	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	-	x	x	x	x	x	x	x	x	x	x	x	x	
1.15	Support WMGs in organizing LCS groups	-						x	x	x					
1.16	Support WMGs in mobilize LCS groups	-							x	x	x	x			
1.17	Assist in WMG registration	2	x	x	x	x	x	x							Depend on court case
1.18	Assist in WMG Auditing	28	x	x	x	x	x	x							It was not included in the plan
1.19	Support WMA Registration Processing	5				x	x	x							-
1.20	Assist in WMA Action Plan formulation	5			x	x	x								
1.21	Assist WMAs review implementation and update of Action Plan	5			x	x	x	x	x	x	x	x	x	x	It is continuous process
1.22	Assist in formation of Monitoring Committees at WMA level	5						x	x						
2	Main Infrastructure														
2.1	Design Data Collection & Detailed Design	4 nos		x	x	x									Khal - 2 Nos & Outlet - 2 Nos.
2.2	Estimate Preparation & Vetting	4 nos			x	x	X	x							Khal - 2 Nos & Outlet - 2 Nos.
2.3	Preparation of Work Packages	8 nos				x	x	x							Khal - 6 Nos & Outlet - 2 Nos.
2.4	LCS Formation & Training						x	x							
2.5	Monitoring Committee Formation & Training (if any)	5 nos					x	x	x						As 5 nos. of WMAs exist in the polder
2.6	Contractor Orientation, Tendering & Work Award	1 no					x	x	x						This is Zonal event
2.7	Canal Re-excavation	28.6 km							x	x	x	x			
2.8	Construction of Outlets	2 nos.							x	x	x	x	x	x	
2.9	Monitoring and Quality Control of works and bill certification (WMA, TA, BWDB)	-							x	x	x	x	x	x	WMC-WMA
3	Agriculture & Marketing Services														
3.1	Train contact farmers Cycle 1,2, 3 and 5	47			x								x		Training and meetings for 47 Contact farmers (exact timing to be decided) CFs of Cycle 1 & 3 will be trained on sep-16 and CFs of C-2 & 5 will be on Apr-17
3.2	FFS T.Aman and Boro/Rabi by DAE	2	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known). In 43/2D, DAE will include 1 FFS Community Water Management. DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.3	? Demonstrations by DAE	?							x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.

3.4	Follow up BAU activity with FFS farmers			x			x			x			x		BAU continues PAR with FFS farmers observing performance of fruits and vegetables introduced in 2015 We must have training/orientation to monitor/follow up this activity
3.5	Follow up BAU trial plots	4		x			x			x			x		BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder)We must have training/orientation to monitor/follow up this activity
3.6	Follow up CAHWs	6			x				x				x		Follow up (Munir) with trained 3 Community Poultry Workers and 3 Community Livestock Workers.
3.7	MFS Cropping Systems-1	12	x	x	x	x	x	x							MFS T. Aman - Robi crop Year 1
3.8	MFS Tilapia follow-up	8	x	x	x	x	x	x	x						
3.9	Assist in RF networking		x	x	x	x	x	x	x	x	x	x	x	x	
3.10	Organize/conduct Inputs traders' training	20 Person						x							Inputs Traders who yet not received training on inputs trading
3.11	Organize/conduct RF Training	12 Person				x									Will be organized at Zonal level
3.12	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	Activities related with WRM strengthening
3.13	WRM strengthening						x	x	x				x	x	
3.14	Support to CWM FFS		x	x	x	x	x	x							
3.15	MFS Producer Group Support-3	8						x	x	x	x	x	x		Market Orientation and linkages (Mung Bean)
3.16	MFS Producer Group Support-2	4													mainly Market Orientation activities (Mung Bean)
3.17	PF Training (Zonal level)	2	x	x				x	x						Training will be held at zonally level together with others polder
3.18	DAE linkage (Capacity building of DAE staff)	TBD			x	x		x	x						Zonal level
3.19	Capacity building of Market Actors	TBD			x	x			x	x					Zonal level
3.20	Drama (Popular Theatre)	5				x	x	x	x						
3.21	PF Training (Zonal level)	2	x	x				x	x						PF Training (Zonal level)
3.22	DAE linkage (Capacity building of DAE staff)	TBD			x	x		x	x						DAE linkage (Capacity building of DAE staff)
3.23	Capacity building of Market Actors	TBD			x	x			x	x					Capacity building of Market Actors
3.24	Drama (Popular Theatre)	7				x	x	x	x						Drama (Popular Theatre)
4	Environmental Sustainability and DRR														
4.1	Environmental compliance monitoring and quarterly reporting to DoE		x			x			x				x		
4.2	Formulation of Environmental and Social Management Plan (ESMP)												x	x	
4.3	Reconstitution of UDMCs								x	x	x	x	x		
4.4	Recruit WMG's Environment and DRR Counsellors							x	x	x	x	x			
4.5	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan												x	x	

4.6	Disaster preparedness and implementation of CBDRR plan																			X
4.7	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.									x	x	x	x							

1.17 Polder 43/2E

Introduction to the Polder

Polder 43/2E is under Patuakhali O&M Division of BWDB. It is surrounded by 20.260 km embankment. It is under Patuakhali Sadar Upazila of Patuakhali District. The polder covers Joinkat Union and 06 Villages. The major land types of this polder are medium high land 75%, and Others 25%. The main livelihoods sources of the polder are Agriculture (55.5%), fisheries (9.5%), laborer (16.5%), and commerce/business including small business (4%), service holder (4.5%), self-employment (8.5%) and others (4.5%) of the people.

The gross area of the polder is 1650 ha and benefitted area is 1300ha. There are 07 nos. Sluices, Outlet 2 nos. and Inlets 46 nos.

Institutional Framework for Participatory Water Management

Under IPSWAM, 12 Water Management Group (WMG) were formed and registered under Department of Cooperative. During Blue Gold Program, all the WMGs were reformed according to Participatory Water Management Rules, 2014. Out of 2 WMAs, 1 WMA is already registered with BWDB. Every WMG/WMA has own bye-laws. Out of 2317 HH, 1751 HH representatives are the members of 12 WMGs. Total members of WMGs are 1970. The WMGs organize meeting in every month and WMAs organize bi-monthly. The WMGs formulated yearly Action Plan (WAP) and perform accordingly. In every year each and every WMG organize Annual General Meeting and they presented last year's Accounts and coming year's Budget along with all other activities included in WAP.

Under Blue Gold Program, Polder Coordination Team had been formed involving the field level Officers of BWDB, DAE and TA part who are jointly working for the improvement of livelihood of local stakeholders.

Infrastructure Development

Under IPSWAM, most of the Sluice Gates, Inlet/ Outlets, were rehabilitated/re-constructed and Canal/Khals were re-excavated.

During Blue Gold Program, physical work was done in FY 2015-16 as mentioned below

- Repair Sluice 7 nos.
- Repair Outlets 2 nos.

During 2016-17, the physical works planned for under Blue Gold Program

- Construction of Outlets 1 no.
- Re-excavation of Canal/Khals 6 nos. (11.700 km)

Generally, WMO members involving local stakeholders take necessary steps for small O&M activity voluntarily, sometimes, collected money from medium and large farmers. In some cases, local Union Parishad assisted them for O&M activity. But in major cases they inform local Union Parishad and BWDB to solve their problems

Internal Water Management

It is expected that FHRC will work with Community development as well as Water Management for Agricultural development. In this FY, DAE may implement FFS (T. Aman). For both cases other WMGs may visit the FFS area and gather practical knowledge and may implement in their field.

Agricultural & Marketing Services

During FY 2014-16, 20 FFS had been taken to improve agriculture and marketing services and 20 Field Day for horizontal learning by Blue Gold TA part. There was no FFS for Business Development Activity. In this FY, 07 FFS for T. Aman has been organized by DAE. TA part has planned to select Community Poultry and Livestock Workers and train them under Blue Gold Program. At the end of last FY training had been given to 12 Fish Nursery Men to produce and supply quality Fingerlings in the polder area, so that they can produce quality fingerlings and may sell among the clients.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: The process of outsourcing for conduction of EIA and obtaining Environmental Clearance Certificate (ECC) from Department of Environment (DoE) is going on. ESMP will be formulated during 'Joint Planning Workshop at Polder level' at the month of May 2017. Orientation to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues will be held jointly with Main Infrastructure activity cluster.

Disaster Risk Reduction (DRR): There is one namely, Joinkati where the Union Disaster Management Committees (UDMC) is in place but not active. The UDMCs need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting, special GM and annual GM after the dry runs been organised. The process of hiring service providers is going on for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management.

Good practices, lessons learned and innovations

In last Mungbean season in polder 43/2E, farmers of 08 MFS collectively purchased pesticides for mungbean where they got 5% commission and farmers cultivated their land by the assistance of RF where they got 20% less than local rate. For this reason they saved a huge amount of money that ultimately decreased production cost and increased more income and also increased the bargaining power of the producers.

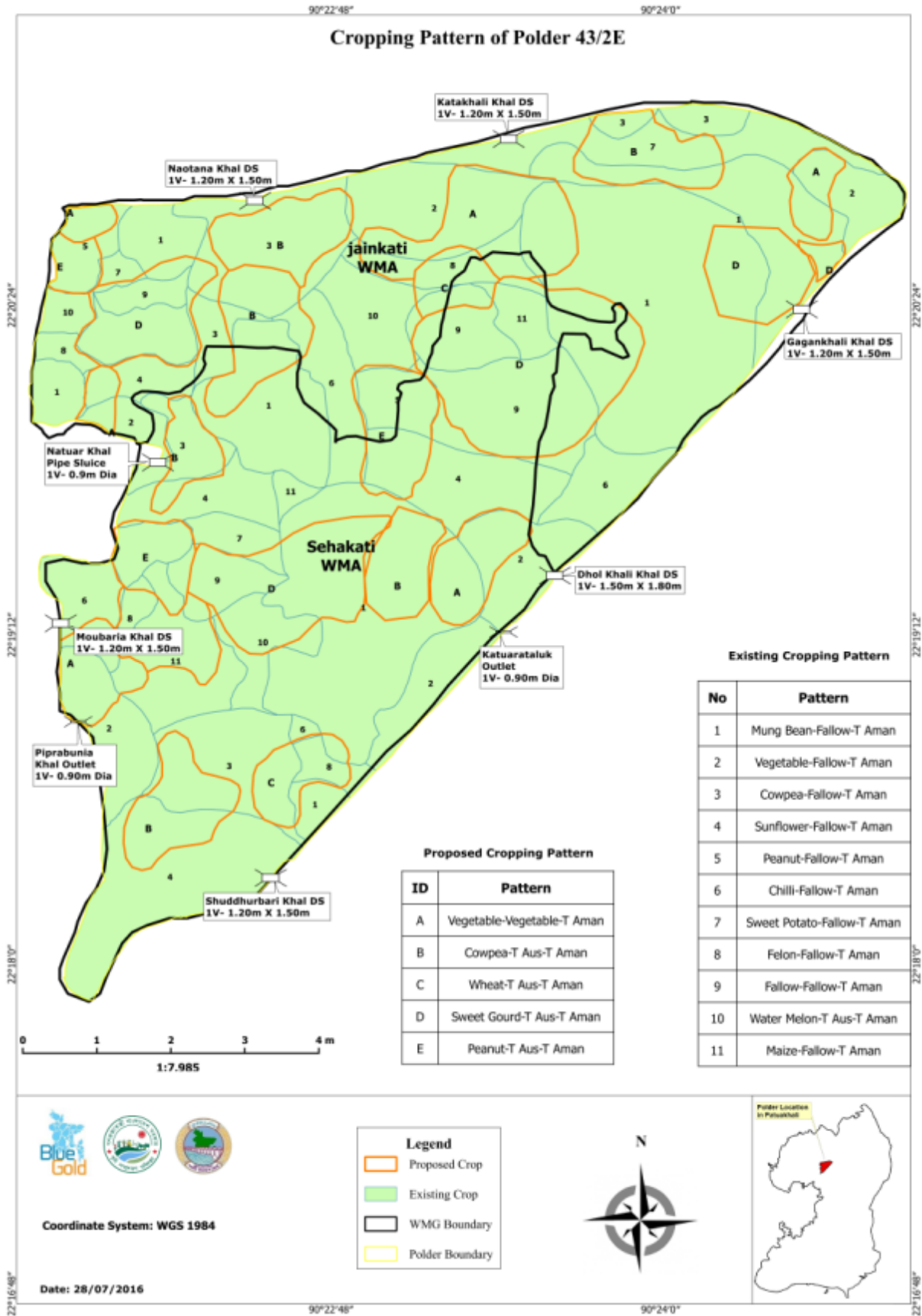


Table 33
Polder 43/2E Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	4.0	4.6
2	Main Infrastructure	221.41	252.11
3	Internal Water Management <i>Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	6.1	7.0
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	1.9	2.2
6	Training	14.5	16.5
	TOTAL	247.91	282.28

Table 34
Polder 43/2E Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	
1	Institutional Framework for Participatory Water Management														
1.1	Support formulation process of WMG Action Plan[1] (WAP)	12	x	x	x										
1.2	WMGs review implementation and update WAP	12			x	x	x	x	x	x	x	x	x	x	
1.3	Formation and capacity building of necessary WMG sub-committees	15	x	x	x	x	x	x	x	x	x	x	x	x	
1.4	Stimulate WMGs enrol members	75	x	x	x	x	x	x	x	x	x	x	x	x	Special attention to include members from medium & large farm HHs (Continuous Process) Specially Female member
1.5	Stimulate WMGs enrol at least 40% female members	4	x	x	x	x	x	x	x	x	x	x	x	x	
1.6	Support updating Books of Accounts	12	x	x	x	x	x	x	x	x	x	x	x	x	Assist. to WMGs
1.7	WMGs Auditing	12			x	x	x	x							Assist. to WMGs
1.8	Stimulate WMGs to conduct Annual General Meeting	12		x	x	x									Assist. to WMGs
1.9	Support WMG to review/modify By-Laws	12		x	x	x									Assist. to WMGs
1.10	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	6	x	x	x	x	x	x	x	x	x	x	x	x	
1.11	WMGs organize LCS groups	6							x	x	x				For Khal Re-excavation

1.12	WMGs mobilize LCS groups	6							x	x	x	x			
1.13	Support WMA Registration Processing	2				x	x	x							-
1.14	Facilitate WMA Action Plan formulation	2			x	x	x								
1.15	Follow up WMAs review implementation and update of Action Plan	2				x	x	x	x	x	x	x	x	x	
1.16	Formation of Monitoring Committees at WMA level	2	x	x	x	x	x	x	x	x	x	x	x	x	Overlapping -SI. No 5
2	Main Infrastructure														
2.1	Design Data Collection & Detailed Design	7 nos.		x	x	x									According to rehabilitation plan for 2016-2017 (6 Khal & 1 Outlet)
2.2	Estimate Preparation & Vetting	7 nos.			x	x	x	x							According to rehabilitation plan for 2016-2017
2.3	Preparation of Work Packages	9 nos.				x	x	x							LCS package - 6, Contractor Package - 3
2.4	LCS Formation & Training	6 nos					x	x							According to rehabilitation plan for 2016-2017
2.5	Stimulate WMGs perform routine O&M works based on WAP		X	x	x	x	x	x	x	x	x	x	x	x	Need based
2.6	Monitoring and Quality Control of works and bill certification (WNG, WMC, TA, BWDB)	2 nos.-					x	x	x						
2.7	Contractor Orientation, Tendering & Work Award	1 no.					x	x	x						1 each Division
2.8	Construction Works														
2.9	Canal Re-excavation	16.3 km							x	x	x	x			
2.10	Construction of Outlets	2 nos.							x	x	x	x	x	x	
3	Agriculture & Marketing Services														
3.1	Train contact farmers Cycle 3	12			?								?		Training and meetings for 12 Contact farmers (exact timing to be decided)
3.2	? FFS T.Aman & Boro/Rabi by DAE	1	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE informed 1 FFS DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polders is not yet known
3.3	? Demonstrations by DAE	?							x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.4	BAU trial plots	4		?			?			?			?		BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder)

3.5	Follow up CAHWs	1			?				?						Follow up (Munir)with trained 1 Community Livestock Workers
3.6	Fish sanctuary activity	1	x	x	x	x	x	x	x	x	x	x	x	x	One location with developed fish sanctuary (2015). Continued to increase the fish population as well as to conserve the aquatic bio diversity. It is also a part of open water management activities
3.7	MFS Cropping Systems-1	4	x	x	x	x	x	x							MFS T. Aman - Robi crop Year 1
3.8	RF networking		x	x	x	x	x	x	x	x	x	x	x	x	
3.9	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	
3.10	WRM strengthening						x	x	x			x	x	x	Activities related with WRM strengthening
3.11	MFS Producer Group Support-2	4						x	x	x	x	x	x		mainly Market Orientation activities
3.12	PF Training (Zonal level)	1	x	x				x	x						Training will be held at zonally level together with others polder
3.13	DAE linkage (Capacity building of DAE staff)	TBD			x	x		x	x						Zonal level
3.14	Capacity building of Market Actors	TBD			x	x			x	x					Zonal level
3.15	Drama (Popular Theatre)	3				x	x	x	x						
4	Environmental Sustainability and DRR														
4.1	Environmental compliance monitoring and quarterly reporting to DoE		x			x			x				x		
4.2	Formulation of Environmental and Social Management Plan (ESMP)												x	x	
4.3	Reconstitution of UDMCs								x	x	x	x	x		
4.4	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x				
4.5	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan												x	x	
4.6	Disaster Preparedness and implementation of CBDRR plan														x
4.7	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.								x	x	x	x			

1.18 Polder 43/2F

Introduction to the Polder

Polder 43/2F is under Barguna O&M Division of BWDB. It is surrounded by 33.0 km embankment. It is under Amtoli Upazila of Barguna District. There is 1 Union, namely, Gulishakhali and 11 Villages. The major land types of this polder are medium high land 55% & medium land and main occupation of the people are Agriculture. Main source of income is agriculture (40.20%), agriculture labor (9.80 %), non-agriculture labor (8.00 %), business (9.9 %), fisheries (2.2%), service (10.60 %), transport (4.5 %) and others (14.8 %).

There are 16 Sluices, 03 Outlets, 38 Inlets and 37 Khals (110.0 km)

Institutional Framework for Participatory Water Management

Under IPSWAM, 27 Water Management Group (WMG) were formed and registered under Department of Cooperative. During Blue Gold Program, all the WMGs were reformed according to Participatory Water Management Rules, 2014 and 27 WMGs were registered under BWDB. There are 3 WMAs of which 1 (one) is registered with BWDB and rest 2 (Two) were submitted for registration. Every WMG/WMA has their bye-laws. The total no. of HH is 6639, 4636 HH representatives are the members of WMGs. Total members of WMGs are 6351. The WMGs organize meeting in every month and WMAs organize bi-monthly. The WMGs formulated yearly Action Plan (WAP) and perform accordingly. In every year each and every WMG organize Annual General Meeting and they presented last year's Accounts and coming year's Budget along with all other activities included in WAP.

Under Blue Gold Program, Polder Coordination Team had been formed involving the field level Officers of BWDB, DAE and TA part who are jointly working for the improvement of livelihood of local stakeholders.

Infrastructure Development

Under IPSWAM, most of the Sluice Gates, Inlet/ Outlets, were rehabilitated/re-constructed and Canal/Khals were re-excavated.

During the period 2014-16, Blue Gold Program had planned for the following physical works

- Sluices 16 nos.
- Outlets 3 nos.
- Inlets 38 nos.

During FY 2016-17, the physical works planned under Blue Gold Program are as follows

- Sluices 2 nos.
- Outlets 5 nos.
- Canal/Khal re-excavation 7 nos. LCS (25.0 km)

Internal Water Management

DAE has also implementing 07 FFS directly under Blue Gold Program.

Agricultural & Marketing Services

During the period 2014-16, a total number of 41 FFS (sub-sector-Vegetable-Poultry-Nutrition-20, Fish- Beef fattening- Nutrition-21) and 42 MFS (sub-sector Mungbean, Tilapia and T-Aman rice) were formed by the TA part. Each FFS and MFS selected one Contact Farmer(CF) and Resource Farmer (RF) respectively from FFS and MFS members based on the selected criteria. Project has provided different capacity building support for the RFs and CFs, so that the members of FFS and MFS received different technical, input and service related information for sustainability.

In the FY 2016-17, no FFS will be formed in this polder by TA part but 02 FFS will be formed by DAE and 24 cropping system MFS (T-aman rice and Robi crop) will be formed by TA part.

Part of technical capacity building of CFs for cycle 1, 2, 3 and 5, a total of 41 CFs will be trained by the TA part as per the plan.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: The process of outsourcing for conduction of EIA and obtaining Environmental Clearance Certificate (ECC) from Department of Environment (DoE) is going on. ESMP will be formulated during 'Joint Planning Workshop at Polder level' at the month of May 2017. Orientation to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues will be held jointly with Main Infrastructure activity cluster.

Disaster Risk Reduction (DRR): In Golishakhali Union where the Union Disaster Management Committees (UDMC) is in place but not active. The UDMCs need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting, special GM and annual GM after the dry runs been organised. The process of hiring service providers is going on for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management.

Good practices, lessons learned and innovations

Farmers are needed different services and inputs to produce crops. In general the individual farmer most of times purchase or negotiate for quality services and inputs with different service providers. As he takes services/inputs individually the services/input providers do not motivate to discount the prices. On the other hand as he is alone that's why he cannot bargain with the services/inputs providers. Not only that farmers required more time and transportation cost to collect agriculture inputs from the local markets which affect to increase the production cost and decrease the net income. Services/ inputs providers always honored the farmers who order for bulk volume in that case they sacrifice certain percentage i.e price. Keeping the situation in mind the business development facilitated to organize the MFS to collectively purchase inputs and services from the services providers through RF's and formation of Collective Action Group. During the formation of CAG/RF they clearly identify who will be responsible for which works and what compensation would be provided by the members.

In last Mungbean season, a total 300 farmers of 12 MFS collectively purchased pesticides for mungbean where they got 5% commission and farmers cultivated 45 acre of land by the assistance of RF where they got 20% less than local rate. For collective action, huge amount of money saved which ultimately decreased production cost and increased more income and also increased the bargaining power of the producers. Through the initiative functional relationship between them has been established and create win-win situation. This innovation will be replicate to another MFS/FFS.

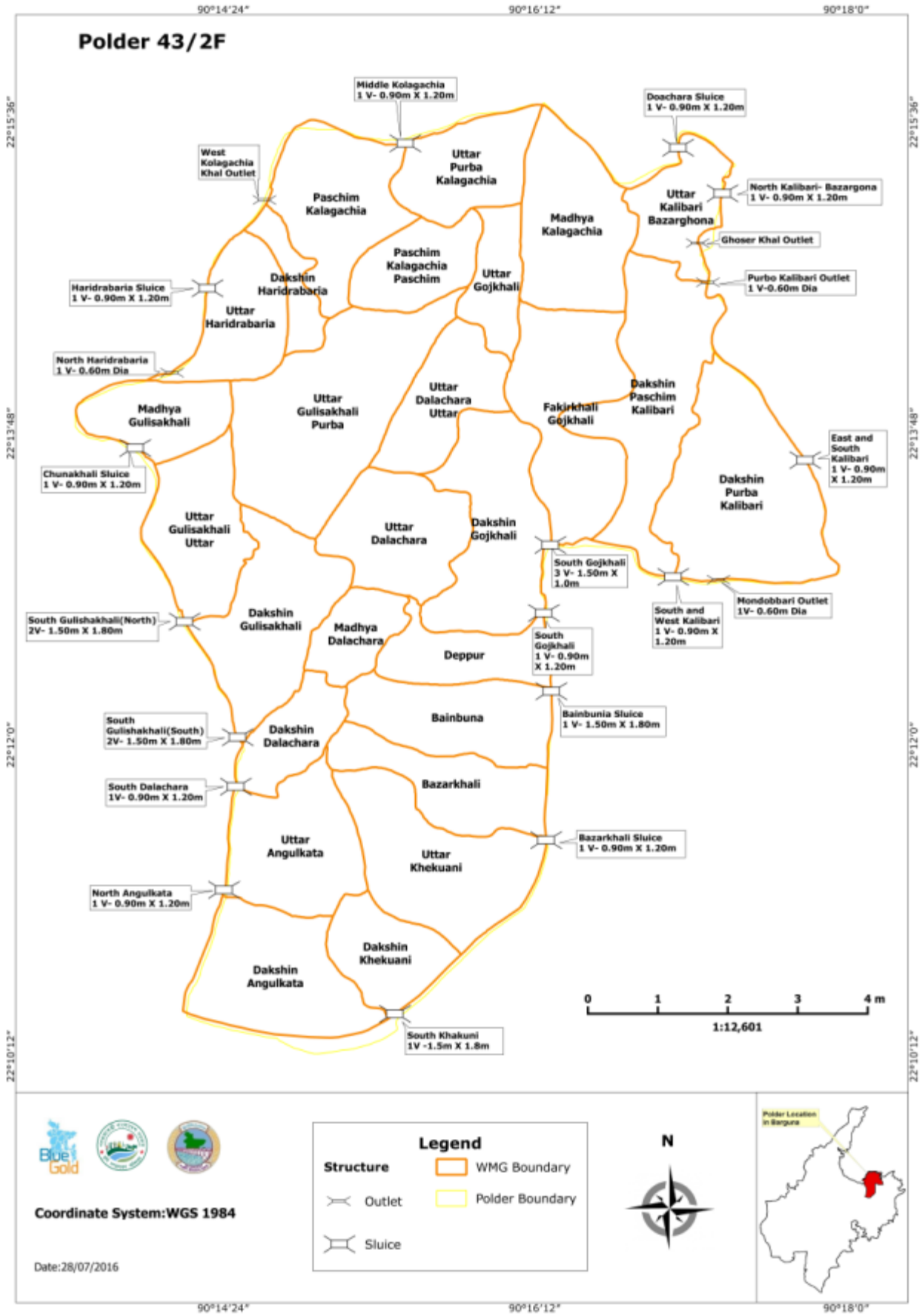


Table 35
Polder 43/2F Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	3.6	4.1
2	Main Infrastructure	327.70	373.14
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	14.6	16.6
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	1.9	2.2
6	Training	20.9	23.8
	TOTAL	368.70	419.82

Table 36
Polder 43/2F Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	
1	Institutional Framework for Participatory Water Management														
1.1	Monitoring and Quality Control of works and bill certification (WMG, WMA, TA, BWDB)	-								x	x	x	x	x	
1.2	Support formulation process of WMG Action Plan[1] (WAP)	27	X	X	x										Added September month
1.3	Stimulate WMGs review implementation and update WAP	27			x	x	x	x	x	x	x	x	x	x	
1.4	Formation and capacity building of necessary WMG sub-committees	45	X	x	x	x	x	x	x	x	x	x	x	x	
1.5	Stimulate WMGs enrol members	100	X	x	x	x	x	x	x	x	x	x	x	x	Special attention to include members from medium & large farm HHs
1.6	Stimulate WMGs enrol at least 40% female members	7	X	x	x	x	x	x							
1.7	Updating Books of Accounts	27	X	x	x	x	x	x	x	x	x	x	x	x	
1.8	Support WMGs to conduct Annual General Meeting & monthly General Meeting	27	x	x	x	x	x	x	x	x	x	x	x	x	
1.9	Support WMG to review/modify By-Laws	27	x	x	x	x									
1.10	WMGs perform routine O&M works based on WAP	-	x	x	x	x	x	x	x	x	x	x	x	x	Need based
1.11	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	15	x	x	x	x	x	x	x	x	x	x	x	x	
1.12	WMGs organize LCS groups	10							x	x	x				

1.13	WMGs mobilize LCS groups	10							x	x	x	x					
1.14	WMGs Auditing by BWDB	27			x												
1.15	Support WMA Registration Processing	3	x	x	x												
1.16	WMAs by-monthly meeting	3	x		x		x		x		x		x				3 WMAs meeting will held different month
1.17	Facilitate WMA Action Plan formulation	3			x	x	x										shift month in October instead of August
1.18	Follow up WMAs review implementation and update of Action Plan	3				x	x	x	x	x	x	x	x	x			Changed month of September
1.19	Support WMAs conduct AGM	3												x	x		After obtained Registration will held AGM
1.20	Formation of Monitoring Committees at WMA level	3					x	x	x								
1.21	Polder team coordination meeting	12	x	x	x	x	x	x	x	x	x	x	x	x			Each month will held polder team coordination meeting
2	Main Infrastructure			x	x	x											
2.1	Design Data Collection & Detailed Design	17 nos.		x	x	x											As per rehabilitation plan done 2016-2017
2.2	Estimate Preparation & Vetting	17 nos.			x	x	x	x									As per rehabilitation plan done 2016-2017
2.3	Preparation of Work Packages	17 nos.				x	x	x									As per rehabilitation plan done 2016-2017
2.4	LCS Formation & Training	10 nos.					x	x									As per rehabilitation plan done 2016-2017
2.5	Monitoring Committee Formation & Training (if any)	3 nos.					x	x	x								As per 3 WMAs will form 3 monitoring committee
2.6	Contractor Orientation, Tendering & Work Award	1 no.					x	x	x								1 division will held one batch Orientation
2.7	Canal Re-excavation	14.62 km							x	x	x	x					
2.8	Construction of Sluices	2 nos.							x	x	x	x	x	x			
2.9	Construction of Outlets	5 nos.							x	x	x	x	x	x			
3	Agriculture & Marketing Services																
3.1	Train contact farmers Cycle 1,2,3 and 5	41			?									?			Training and meetings for 41 Contact farmers (exact timing to be decided)

3.2	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x									DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.3	? Demonstrations by DAE	?								x	x	x	x	x	x		During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.4	BAU activity with FFS farmers			?			?			?				?			BAU continues PAR with FFS farmers observing performance of fruits and vegetables introduced in 2015
3.5	BAU trial plots	4		?			?			?				?			BAU continues observation of trial plots with various fruits (each fruit, 4 locations in this polder)
3.6	Follow up CAHWs	3			?					?				?			Follow up (Munir)with trained 1 Community Poultry Workers and 2 Community Livestock Workers
3.7	MFS Cropping Systems-1	12	x	x	x	x	x	x									MFS T. Aman - Robi crop Year 1
3.8	MFS Tilapia follow-up	8	x	x	x	x	x	x	x								Women Group
3.9	RF networking		x	x	x	x	x	x	x	x	x	x	x	x	x		
3.10	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	x		
3.11	WRM strengthening							x	x	x				x	x	x	Activities related with WRM strengthening
3.12	MFS Producer Group Support-3	8								x	x	x	x	x	x		Market Orientation and linkages
3.13	MFS Producer Group Support-2	4															mainly Market Orientation activities
3.14	PF Training (zonally level)	2	x	x					x	X							Training will be held at zonally level together with other polder
3.15	DAE linkage (Capacity building of DAE staff)	TBD				x	x		x	x							Zonal level
3.16	Capacity building of Market Actors	TBD				x	x			X	x						Zonal level
3.17	Drama (Popular Theatre)	7					x	x	x	X							
4	Environmental Sustainability and DRR																
4.1	Environmental compliance monitoring and quarterly reporting to DoE		x				x			x				x			

4.2	Formulation of Environmental and Social Management Plan (ESMP)												X	X		
4.3	Reconstitution of UDMCs							X	X	X	X	X				
4.4	Recruit WMG's Environment and DRR Counsellors					X	X	X	X	X						
4.5	Formulation of Community Based Disaster Risk Reduction (CBDRR) plan												X	X		
4.6	Disaster preparedness and implementation of CBDRR plan														X	
4.7	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.							X	X	X	X					

1.19 Polder 55/2A

Introduction to the Polder

Polder 55/2A is under Patuakhali O&M Division of BWDB. It is surrounded by 45.0 km embankment. It is under Bauphal, Dasmina, Galachipa and Patuakhali Sadar Upazila of Patuakhali District. There are 5 Unions, namely, Naomala, Adabaria, Kamlapur, Bakulbaria and Betagi Sankipur and 31 Villages. The gross area is 7166 ha and benefitted area is 5570 ha. The major land types of this polder are medium high land and main occupation of the people are Agriculture. In the polder, large farmers are 299, medium farmers are 1893, small farmers are 2609, marginal farmers are 4131 and landless farmers are 5033. There are 06 nos. Drainage/ Flushing Sluice, 06 nos. Surface Drainage Sluice, 2 nos. Inlets and 3 nos. Closers. Total no. of HH is 13966. The most of the people are farmers and then Landless (Day laborer).

Institutional Framework for Participatory Water Management

For participatory water management 14 (fourteen) WMGs already formed by WMIP according to the Participatory Water Management Rules'2014. Among them 13 (thirteen) WMGs are registered by BWDB. One WMA formed by WMIP but not registered yet. The WMIP yet not hand over the polder to WMA. So it is very difficult to work with the WMO members. The total HH is 13966 among which 2672 HH representatives are the members of WMGs. At present total members are 2672.

The WMGs organize meeting in every month. The WMGs will formulate yearly Action Plan (WAP) very soon and will perform accordingly. From now every WMG will organize Annual General Meeting and they will present last year's Accounts and coming year's Budget along with all other activities.

Under Blue Gold Program, Polder Coordination Team had been formed involving the field level Officers of BWDB, DAE and TA part who are jointly working for the improvement of livelihood of local stakeholders.

Infrastructure Development

No infrastructure has been developed by Blue Gold Program in the FY 2015-16. This is new Polder for Blue Gold Program and began to work last October.

Water and Land Use Planning Workshop and pre-work survey already done in this polder for planning new infrastructure.

During FY 2016-17, the physical works planned under Blue Gold Program are as follows

- Embankment re-sectioning 5.50 km
- Sluices 1 nos.

Generally, WMO members involving local stakeholders take necessary steps for small O&M activity voluntarily, sometimes, collected money from medium and large farmers. But in major cases they inform local Union Parishad and BWDB to solve their problems.

Internal Water Management

Initiatives are to be taken to improve catchment-level and on-farm water management- strengthening and capacity building of Water Management Group (WMG), linkage with DAE, BWDB and UP. DAE has also implementing 07 FFS directly under Blue Gold Program

Agricultural & Marketing Services

12 FFS have been taken to improve agriculture and marketing services and 12 Field Day for horizontal learning by Blue Gold TA part. 7 FFS for T. Aman has been organized by DAE in this polder. From TA part has planned to select Community Poultry and Livestock Workers and train them under Blue Gold Program. Training has been given to 12 Fish Nursery Men to produce and supply quality Fingerlings in the polder area.

Major crops are Mung bean, Ground nut, Chili, Sesame, Grass pea, betel –vine, T. Aus, T. Aman. Major fish species those currently cultivated are rui, katla, pangus, tilapia, mrigel/curp etc.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: The process of outsourcing for conduction of EIA and obtaining Environmental Clearance Certificate (ECC) from Department of Environment (DoE) is going on. ESMP will be formulated during ‘Joint Planning Workshop at Polder level’ at the month of May 2017. Orientation to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues will be held jointly with main Infrastructure activity cluster.

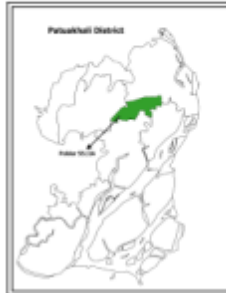
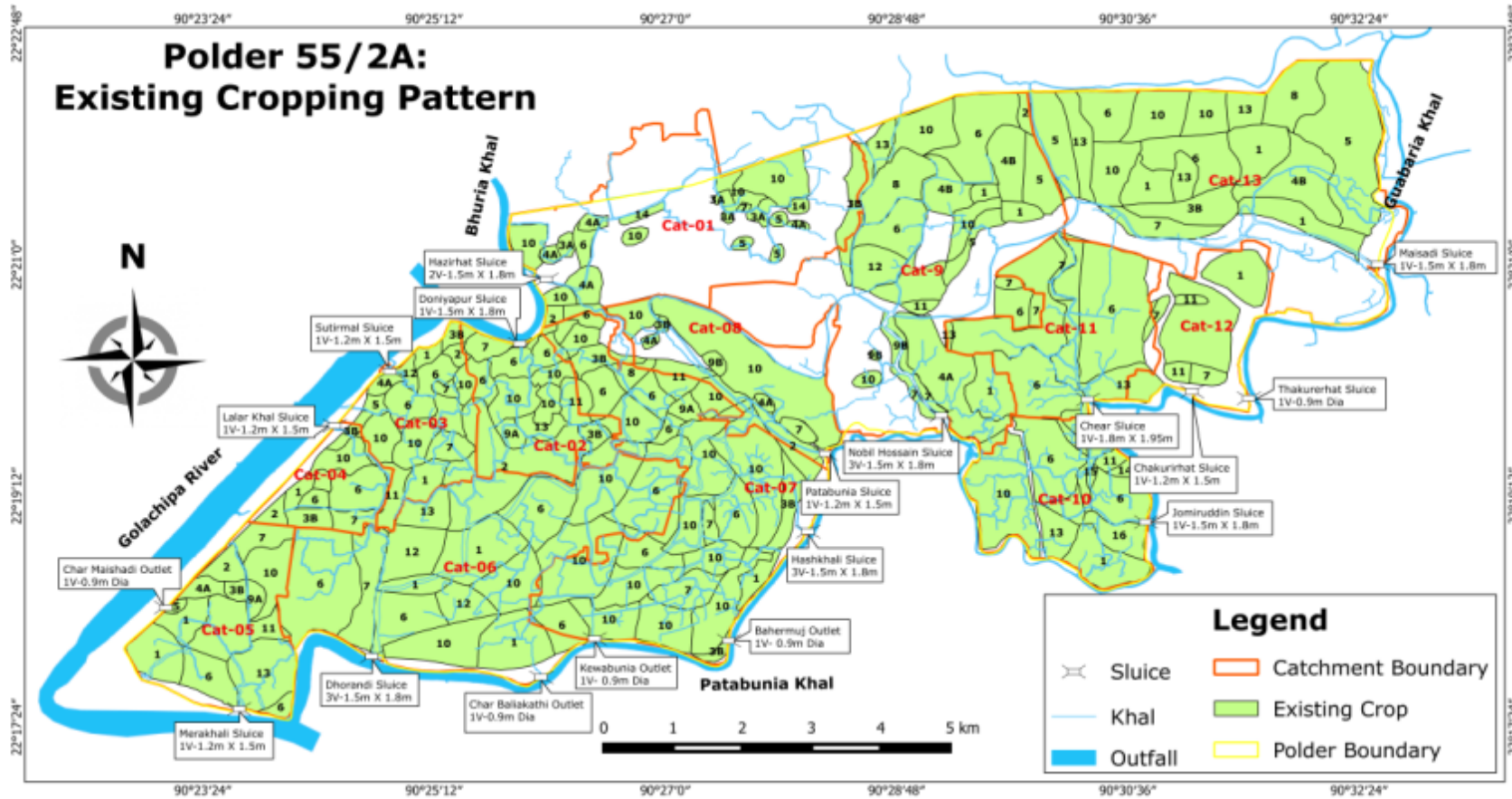
Disaster Risk Reduction (DRR): There are five unions under polder 55/2Ai.e. Naomala, Adabaria, Kamlapur, Bakulbaria and Betagi Sankipur where the Union Disaster Management Committees (UDMC) are in place but not active. The UDMCs need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for ‘Joint Planning Workshop at Polder level’. Recruitment of WMG’s Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting, special GM and annual GM after the dry runs been organised. The process of hiring service providers is going on for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management.

Good practices, lessons learned and innovations

Mung bean, Betel –vine, Ground nut, Chili, Sesame, Grass pea, T. Aus, T. Aman are the goods practices in the polder area.

There is scope to cultivate watermelon using fresh water from the nearby canal. We are planning to introduce watermelon as new crop in the area. Beef fattening, poultry rearing, fish culture in the pond also new innovation. So, in this polder we already initiate FFS (Beef fattening, Fish culture, Poultry rearing and nutrition).

Saving collection and small scale IGAs (Sonal hen rearing, duck rearing, goat rearing, homestead vegetable gardening etc.) loan will be distributed among the members by WMGs.



Type	Name	Type	Name
1	Grass Pea- T Aus- T Aman	9A	Sweet Potato- Fallow- T Aman/ Mung Bean- Fallow- T Aman
2	Lentil (Masoor) - Fallow- T Aman	9B	Sweet Potato- Fallow- T Aman
3A	Ground Nut- T Aus - T Aman	10	Mung Bean- Fallow- T Aman
3B	Red Lentil (Felon)- Fallow- T Aman	11	Vegetable- Fallow- T Aman
4A	Ground Nut- T Aus - T Aman	12	Grass Pea- Fallow- T Aman
4B	Ground Nut- T Aus(HYV) - T Aman	13	Other Crops
5	Potato- Fallow- T Aman	14	Fish Culture
6	Mung Bean- T Aus- T Aman	15	Open Water body
7	Chili- Fallow- T Aman	16	Potato- Sesame- T Aman

Type	Catchment Name	Type	Catchment Name
Cat-1	Hazirhat	Cat-8	Patabunia
Cat-2	Dhoniapur	Cat-9	Nabin Hossain
Cat-3	Sutarmala	Cat-10	Zamiruddin
Cat-4	Lalar Khal	Cat-11	Chear
Cat-5	Mirer Khal	Cat-12	Thakurerhat
Cat-6	Dhorandi	Cat-13	Maishadi
Cat-7	Hashkhali		



Table 37
Polder 55/2A Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	6.8	3.6
2	Main Infrastructure	100.0	113.87
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	15.4	17.6
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	26.5	30.2
6	Training	28.0	36.1
	TOTAL	176.7	201.37

Table 38
Polder 55/ 2A Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	
1	Institutional Framework for Participatory Water Management														
1.1	UP Orientation Workshop	5		x	x										As a new Polder UP orientation is Necessary
1.2	Blue Gold Public Drama	4						x	x						As a new Polder Blue Gold Public Drama is Necessary for publicity
1.3	Formation and capacity building of necessary WMG sub-committees	14			x	x	x	x							
1.4	Support to monthly meeting of WMGs	14	x	x	x	x	x	x	x	x	x	x	x	x	Included
1.5	Stimulate WMGs enrol members from more than 55% of the HHs ensuring good representation from medium and large farmers	14	x	x	x	x	x	x	x	x	x	x	x	x	
1.6	Stimulate WMGs enrol at least 40% female members	14	x	x	x	x	x	x	x	x	x	x	x	x	
1.7	WMGs install/update books of accounts	14	x	x	x	x	x	x	x	x	x	x	x	x	
1.8	Support WMGs conduct AGM	14											x	x	
1.9	Support WMG to review/modify By-Laws	14									x	x	x	x	
1.10	Support WMG Registration Process	1						x	x						One WMGs is not Registered yet
1.11	Support formation of WMAs	2		x	x	x	X	x							WMA Formation is not possible within Sept. because this polder is under WMIP

1.12	Support WMA Registration Processing	2				x	X	x	x	x					WMA registration date should be increase
1.13	Monthly Coordination Meeting of Polder	12	x	x	x	x	x	x	x	x	x	x	x	x	In 12 months there will be 12 meeting
1.14	Support WMGs Auditing	13					x	x							Audit should be included in Activity Plan
2	Main Infrastructure			x	x	x									
2.1	Design Data Collection & Detailed Design	1 nos.		x	x	x									As per rehabilitation Plan 2016-17, Dharandi Sluice -1, 5.5 km Embankment
2.2	Estimate Preparation & Vetting	1 nos.			x	x	x	x							As per rehabilitation Plan 2016-17
2.3	Preparation of Work Packages	1 nos.				x	x	x							As per rehabilitation Plan 2016-17
2.4	LCS Formation & Training	3 nos					x	x							As per rehabilitation Plan 2016-17
2.5	Monitoring Committee Formation & Training (if any)	1 nos.					x	x	x						As one WMA formed
2.6	Contractor Orientation, Tendering & Work Award	1 nos.					x	x	x						One per each Division
2.7	Embankment Re-sectioning	5.5 km							x	x	x	x	x		
2.8	Construction of Sluices	1 nos.							x	x	x	x	x	x	Dharandi Sluice 3 vent
2.9	Supply Work Award documents to WMA								x	x	x	x	x	x	To know the WMA about the work
2.10	Monitoring and Quality Control of works and bill certification (WNG, WMC, TA, BWDB)	-							x	x	x	x	x	x	WNG, WMC replacing by WMO
2.11	WMGs perform routine O&M works based on WAP	-	x	x	x	x	x	x	x	x	x	x	x	x	Need based
2.12	Support WMGs organize LCS groups	-						x	x	x					
2.13	Support WMGs mobilize LCS groups	-							x	x	x	x			
2.14	Facilitate WMA Action Plan formulation	2				x	X	x			X				After WMA registration this month is suitable for WAP pre.
2.15	Follow up WMAs review implementation and update of Action Plan	2					x	x	x	x	x	x	x	x	Should be cut
2.16	Formation of Monitoring Committees at WMA level	2						x	x		x	x			Monitoring Committee formation should be in March
2.17	Obtaining Environmental Clearance Certificate from DoE										x				
3	Agriculture & Marketing Services														
3.1	12 FFS Cycle 7	12	x	x	x	x	x	x							Fish, Cattle rearing, Nutrition (With in Nov.)
3.2	Train contact farmers Cycle 7	12		x							?				Training and meetings for 12 Contact farmers
3.3	12 FFS Cycle 8	12				x	x	x	x	x	x				Poultry, Homestead vegetables, Nutrition
3.4	Train contact farmers Cycle 8	12						x						?	Training and meetings for 12 Contact farmers
3.11	Follow up of different activities by polder team		x	x	x	x	x	x	x	x	x	x	x	x	Follow up is essential for sustainability of different activities

3.12	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.13	? Demonstrations by DAE	?							x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.14	PAR fruits trees and vegetables										x	x	x	x	Possible new BAU activity testing new fruit and vegetable species with FFS farmers in Participatory Action Research (PAR)
3.15	Backstopping fish nurseries	8	x	x							x				Backstopping for 8 trained service provider to supply the fingerling in the surrounding fish famers and workshop to prepare for 2017 season
3.16	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	
3.17	Capacity building of Market Actors	TBD			x	x			x	x					
3.18	Support formulation process of WMG Action Plan[1] (WAP)	14		x	x	x	x	x							Should be increase up to December
3.19	WMGs review implementation and update WAP	14			x	x	x	x	x	x	x	x	x	x	From September is not Possible to implement WAP
4	<i>Environmental Sustainability and DRR</i>														
4.2	Reconstitution of UDMCs								x	x	x				
4.3	Recruit WMG's Environment and DRR Counsellors						x	x	x	x	x				
4.4	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.								x	x	x	x			

1.20 Polder 55/2C

Introduction to the Polder

Polder 55/2C is under Patuakhali O&M Division of BWDB. It is under Galachipa, Doshmina and Bauphal Upazilas of Patuakhali District. This polder covers 05 Unions, namely, Chinikandi, Kalagachia, Alipura, Betagi Sankipur & Bakulbaria and 25 Villages. Total HH is about ----. The major land type of this polder is mostly medium high land. The occupation of the people is agriculture farming 50%, fish farming 6%, laborer 31%, small trading/business 4%, and others about 9%. The gross area of the polder as about 6275 ha and benefited area is about 5000 ha.

Institutional Framework for Participatory Water Management

Under Blue Gold Program, the total polder area was divided into 16 sub-catchment area and 2 Catchment area. Accordingly, 16 Water Management Group (WMGs) and 2 Water Management Associations (WMAs) were formed following PWM Rules, 2016. More than 60% HH representatives are included as the members of WMGs on an average. Registration documents of 16 WMGs were sent to DCEO's office for registration at the last week of June, 2016. The 2 WMAs are in the process of EC election. Every WMG has own bye-laws. The WMGs organize meeting in every month. The WMGs will formulate yearly Action Plan (WAP) soon and perform accordingly. Under Blue Gold Program, Polder Coordination Team had been formed involving the field level Officers of BWDB, DAE and TA part who are jointly working for the improvement of livelihood of local stakeholders.

Infrastructure Development

The polder area is surrounded by 47.546 km embankment. There are 07 Sluices, Canal/Khal 385 km and 29 Inlets in the area. During 2015 - 16, the physical works planned for

- Embankment re-sectioning 4.500 km
- Embankment retirement 0.400 km
- Construction of Sluice 1 no.

Internal Water Management

No program has yet been taken to improve catchment-level and on-farm water management.

Agricultural & Marketing Services

During FY 2016-17, 16 FFS (Fish, Beef fattening and Nutrition) is on-going on and these will continue up to March, 2017. DAE has also 4 FFS on T. Aman. 16 no. Contact Farmers and 16 Trial Farmers are selected from 16 WMGs. Project has provided different capacity building support for the RFs and CFs, so that the members of FFS and MFS received different technical, input and service related information and can use in absence of project or end of the project for their own interest. One location for community fisheries will be selected where poor WMG members with women will get employment opportunity and utilize unused water bodies to increase the fish production.

Environmental & Social Management (ESMP) / Disaster Risk Reduction (DRR)

Environment: The process of outsourcing for conduction of EIA and obtaining Environmental Clearance Certificate (ECC) from Department of Environment (DoE) is going on. ESMP will be formulated during 'Joint Planning Workshop at Polder level' at the month of May 2017. Orientation to LCS leaders and Contractors and WMA leaders on environmental and social safeguarding issues will be held jointly with Main Infrastructure activity cluster. Disaster Risk Reduction (DRR): In related Unions where the Union Disaster Management Committees (UDMC) are in place but not active. The UDMCs need to be revitalized as the members have changed after the recent UP election. Community Based Disaster Risk Reduction (CBDRR) plan was not formulated which will be done at the same platform for 'Joint Planning Workshop at Polder level'. Recruitment of WMG's Environment and DRR Counsellors is going on through the WMGs monthly meeting. Awareness on disaster preparedness is going on making an agenda at the WMGs monthly meeting, special GM and annual GM after the dry runs been organised. The process of hiring service providers is going on for training to Environment and DRR Counsellors and UDMCs on Environment and Social Safeguard and Disaster Management.

Good practices, lessons learned and innovations

From FFS, the farmers will learn more technical aspect and from them it will be expedited in other areas. So, HL will be more effective for other farmers.

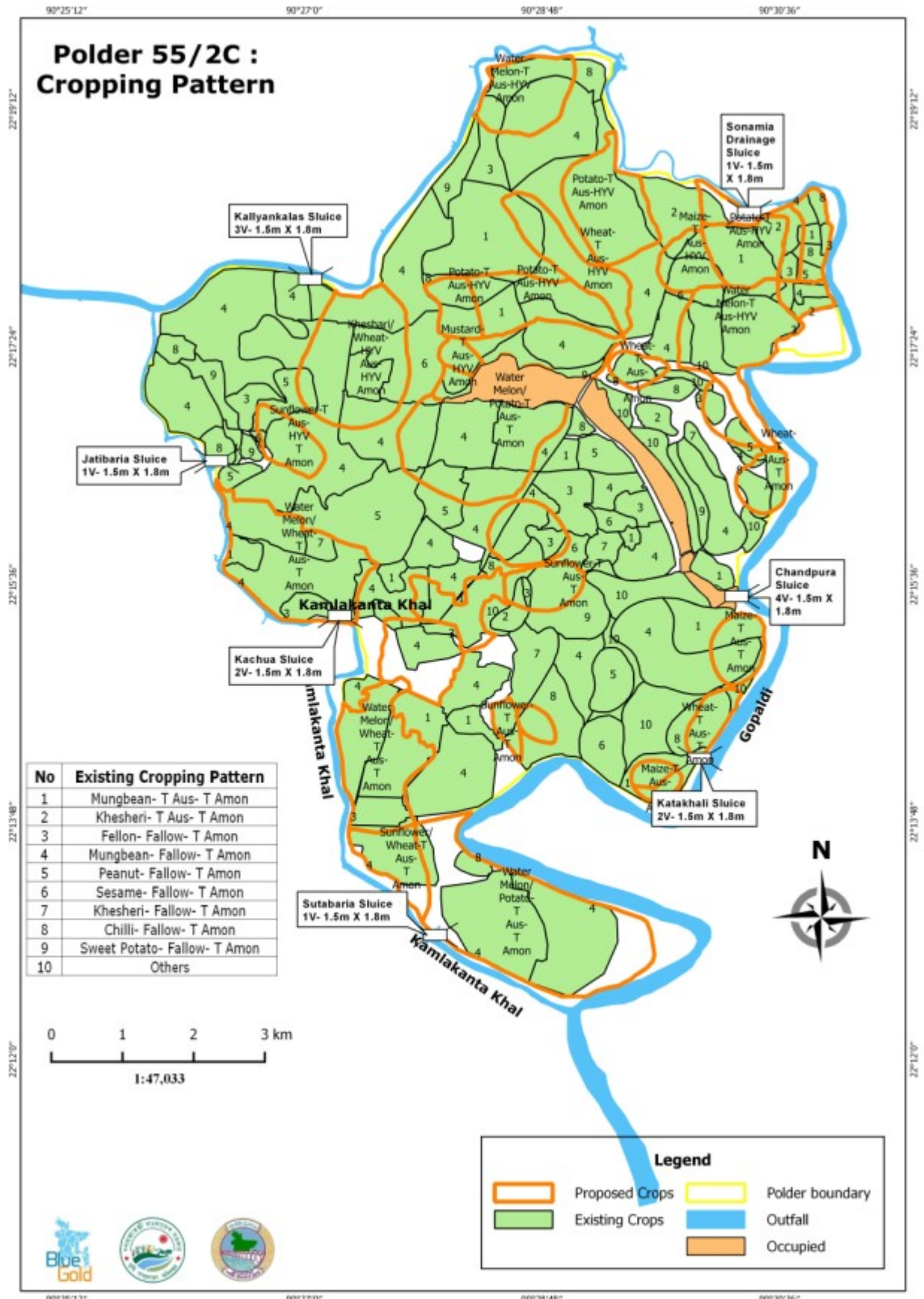


Table 39
Polder 55/2C Budget for year 2016-17

S.N	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	6.4	6.7
2	Main Infrastructure	100	113.87
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	19.9	22.7
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	26.5	30.2
6	Training	33.1	37.7
	TOTAL	185.9	211.17

Table 40
Polder 55/2C Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	
1	Institutional Framework for Participatory Water Management														
1.1	Stimulate monitoring and Quality Control of works and bill certification (WNG, WMC, TA, BWDB)	-								x	x	x	x	x	
1.2	Support formulation process of WMG Action Plan[1] (WAP)	16		x	x	x									
1.3	Facilitate WMGs review implementation and update WAP	16			x	x	x	x	x	x	x	x	x	x	
1.4	Formation and capacity building of necessary WMG sub-committees	96		x	x	x	x	x						0	
1.5	Stimulate WMGs enrol members	16	x	x	x	x	x	x	x	x	x	x	x	x	Special attention to include members from medium & large farm HHs
1.6	Stimulate WMGs enrol at least 40% female members	16	x	x	x										
1.7	Support WMGs install/update books of accounts	16	x	x	x	x	x	x	x	x	x	x	x	x	
1.8	Support WMG Registration Processing	16	x	x	x										
1.9	Support WMGs conduct AGM regularly	16											x	x	

1.10	Support WMG to review/modify By-Laws	16												x	x	
1.11	Stimulate WMGs perform routine O&M works based on WAP	-	x	x	x	x	x	x	x	x	x	x	x	x	x	Need based
1.12	Motivate & support WMGs performs economic activities (Collective IGAs, farm machinery management, micro credit, etc.)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.13	Support WMGs organize LCS groups	-						x	x	x						
1.14	Support WMGs mobilize LCS groups	-							x	x	x	x				
1.15	Support formation of WMAs	2	x	x	x											
1.16	Support WMA Registration Processing	2				x	x	x								
1.17	Facilitate WMA Action Plan formulation	2						x	x	x						
1.18	Follow up WMAs review implementation and update of Action Plan	2							x	x	x	x	x	x	x	
1.19	Formation of Monitoring Committees at WMA level	2							x	x						
1.20	Polder Coordination Meeting	12	x	x	x	x	x	x	x	x	x	x	x	x	x	
2	Main Infrastructure		x	x	x	x	x	x	x	x	x	x	x	x	x	
2.1	Design Data Collection & Detailed Design	1 nos.	x	x	x	x										Sutabaria Sluice
2.2	Estimate Preparation & Vetting	3 Nos			x	x	x	x								Re-sectioning work, Retired embankment , & Sluice Construction
2.3	Preparation of Work Packages	6 Nos				x	x	x								LCS - 3 & Contractor -3
2.4	LCS Formation & Training	3 Nos.					x	x								Re-sectioning work
2.5	Monitoring Committee Formation & Training (if any)	2 Nos.					x	x	x							As 2 Nos. WMA formed
2.6	Contractor Orientation, Tendering & Work Award	1 No.					x	x	x							One per Zone
2.7	Embankment Re-sectioning	10 km							x	x	x	x	x			
2.8	Embankment Retirement	0.4 km							x	x	x	x	x			
2.9	Construction of Sluices	1 nos.							x	x	x	x	x	x		
3	Agriculture & Marketing Services															
3.1	16 FFS Cycle 7	16	x	x	x	x	x	x								Fish, Cattle rearing, Nutrition
3.2	Train contact farmers Cycle 7	16		x								?				Training and meetings for 16 Contact farmers
3.3	16 FFS Cycle 8	16				x	x	x	x	x	x					Poultry, Homestead vegetables, Nutrition
3.4	Train contact farmers Cycle 8	16						x						?		Training and meetings for 16 Contact farmers
3.5	CAHLW & CPW selection & Training	8	x	x	x											
3.6	Conduct FFD cycle -9															

3.7	? FFS T.Aman & Boro/Rabi by DAE	?	x	x	x	x	x	x	x	x	x	x	x	x	DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known) DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
3.8	? Demonstrations by DAE	?							x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration-trials. Exact number and type of demo for each polder is not yet known.
3.9	PAR fruits trees and vegetables										x	x	x	x	Possible new BAU activity testing new fruit and vegetable species with FFS farmers in Participatory Action Research (PAR)
3.10	Backstopping fish nurseries	3	x	x							x				Backstopping for 3 trained service provider to supply the fingerling in the surrounding fish famers and workshop to prepare for 2017 season
3.11	Sugar beet trial	1				x	x	x	x	x	x	x	x		One field trial sugar beet
3.12	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	
3.13	Capacity building of Market Actors	TBD			x	x			X	x					Capacity building of Market Actors
4	Environmental Sustainability and DRR														
4.1	Obtaining Environmental Clearance Certificate from DoE												x		
4.2	Reconstitution of UDMCs								x	x	x				
4.3	Recruit WMG's Environment and DRR Counsellors						X	x	x	x	x				
4.4	Training to Env. and DRR Counsellors and UDMCs on Env Safeguard and Dis. Mgmt.								x	x	x	x			

1.21 Polder 47/3

Table 41
Polder 47/3 Budget for year 2016-17

S.N.	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	1.0	1.1
2	Main Infrastructure	50.0	56.93
3	Internal Water Management <i>Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	2.5	2.9

5	Environmental & Social Management / Disaster Risk Reduction (DRR)	N/A	N/A
6	Training	N/A	N/A
	TOTAL	53.5	60.83

Table 42
Polder 47/3 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks	
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June		
1	Institutional Framework for Participatory Water Management															
1.1	Field level staff deployment, community immersion & household data collection	-								x	x	x	x			
1.2	Intensive program dissemination with Program Orientation of LGIs & GoB representatives	-								x	x					
1.3	WMG formation	-										x	x	x	x	
1.4	Stimulate WMGs enrol members from more than 55% of the HHs ensuring good representation from medium and large farmers	-										x	x	x	x	
1.5	WMGs Registration by BWDB														x	
1.6	Support WMGs to install accounts keeping system and undergo audit														x	
2	Agriculture & Marketing Services															
2.1	? FFS Cycle 9	?										x	x	x	x	Fish, Dairy cow/Cattle rearing, Nutrition (Cycle 9 has probably 28 FFS in Patuakhali district, but how many in which polder is not yet decided)

2.2	? FFS T.Aman by DAE	?	x	x	x	x	x	x	x						DAE has 60 FFS during T.Aman 2016, distributed over 11 Upazilas and covering most polders (but exact number of FFS per polder not yet known)
2.3	? FFS Boro/Rabi by DAE	?							x	x	x	x	x	x	DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017. Exact number of FFS for each polder is not yet known.
2.4	? Demonstrations by DAE	?							x	x	x	x	x	x	During Boro/Rabi 2017, DAE will have 69 demonstration -trials. Exact number and type of demo for each polder is not yet known.
2.5	DAE linkage		x	x	x	x	x	x	x	x	x	x	x	x	
2.6	Capacity building of Market Actors	TBD			x	x			x	x					

1.22 Polder 47/4

Table 43
Polder 47/4 Budget for year 2016-17

S.N.	Task Name	Total Amount	
		BDT*	EUR**
1	Institutional Framework for Participatory Water Management	1.4	1.6
2	Main Infrastructure	100.0	113.87
3	Internal Water Management <i>(Polder-wise budgets are based on an average amount per CWM-site. In reality budgets will vary per CWM-site)</i>	N/A	N/A
4	Agriculture & Marketing Services <i>(Actual polder-wise budgets will be higher as exact #FFS per polder will be determined later, estimated DAE contributions have been included in these estimations)</i>	2.5	2.9
5	Environmental & Social Management / Disaster Risk Reduction (DRR)	N/A	N/A
6	Training	N/A	N/A
	TOTAL	103.9	118.27

Table 44
Polder 47 - 4 Activity Plan for year 2016-17

S.N.	Task Name	Target	2016						2017						Remarks	
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June		
1	Institutional Framework for Participatory Water Management															
1.1	Field level staff deployment, community immersion & household data collection	-								x	x	x	x			
1.2	Intensive program dissemination with Program Orientation of LGIs & GoB representatives	-								x	x					
1.3	WMG formation	-										x	x	x	x	
1.4	Stimulate WMGs enrol members from more than 55% of the HHs ensuring good representation from medium and large farmers	-										x	x	x	x	
1.5	WMGs Registration by BWDB														x	
1.6	Support WMGs to install accounts keeping system and undergo audit														x	
2	Agriculture & Marketing Services															
2.1	? FFS Cycle 9	?											x	x	x	x
																Fish, Dairy cow/Cattle rearing, Nutrition (Cycle 9 has probably 28 FFS in Patuakhali

1.23 Agriculture & Marketing Activities not specific to one Polder

S.N.	Activity	Target	2016												2017			Activity details
			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
1.	88 FFS Cycle 7	88	x	x	x	x	x	x									Fish, Dairy cow, Nutrition	
2.	56 FFS Cycle 8	56				x	x	x	x	x	x						Poultry, Homestead vegetables, Nutrition	
3.	88 FFS Cycle 9	88									x	x	x	x			Fish, Dairy cow/Cattle rearing, Nutrition	
4.	Follow up Cycle 1, 2, 3 and 4	120						x	x	x	x						Follow-up survey, backstopping FFS and Contact Farmers in 120 FFS of Cycles 1, 2, 3 and 4	
5.	Train contact farmers Cycle 1	44		?								?					Training and meetings for Contact farmers (exact timing to be decided)	
6.	Train contact farmers Cycle 2	44		?								?					Training and meetings for Contact farmers (exact timing to be decided)	
7.	Train contact farmers Cycle 3	88		?								?					Training and meetings for Contact farmers (exact timing to be decided)	
8.	Train contact farmers Cycle 4	88		?								?					Training and meetings for Contact farmers (exact timing to be decided)	
9.	Train contact farmers Cycle 5	88		?								?					Training and meetings for Contact farmers (exact timing to be decided)	
10.	Train contact farmers Cycle 6	88		?								?					Training and meetings for Contact farmers (exact timing to be decided)	
11.	Train contact farmers Cycle 7	88		x								?					Training and meetings for 88 Contact farmers	
12.	Train contact farmers Cycle 8	56						x							?		Training and meetings for 56 Contact farmers	
13.	60 FFS T.Aman by DAE	60	x	x	x	x	x	x									DAE has 60 FFS during T.Aman 2016, in 11 Upazilas and covering most polders.	
14.	138 FFS Boro/Rabi by DAE	138							x	x	x	x	x	x	x		DAE will have 60 FFS by DAE facilitators and 78 FFS by Farmer Trainers during the Boro/Rabi season 2017.	
15.	69 Demonstrations by DAE	69							x	x	x	x	x	x	x		During Boro/Rabi 2017, DAE will have 69 demonstration-trials.	
16.	BAU activity with FFS farmers			?			?			?			?				BAU continues PAR with FFS farmers observing performance of fruits and vegetables introduced in 2015 in 9 polders (total 2,100 farmers involved)	
17.	BAU trial plots	36		?			?			?			?				BAU continues observation of trial plots with various fruits (each fruit, 4 locations in 9 polders)	
18.	PAR fruits trees and vegetables										x	x	x	x			New BAU activity testing new fruit and vegetable species with FFS participants in Participatory Action Research (PAR) in 5 polders (upcoming IF proposal)	

19.	Train fruit nursery owners														x		Possible new BAU activity training fruit nursery owners (existing and/or new) (part of upcoming IF proposal)
20.	Follow up CAHWs	39			?				?						?		Follow up (Munir)with trained 19 Community Poultry Workers and 20 Community Livestock Worker
21.	Backstopping fish nurseries	26	x	x											x		Backstopping for 26 trained service provider to supply the fingerling for the surrounding fish famers and workshop to prepare for 2017 season.
22.	Trial duck rearing on sugar beet	2	x	x	x												One trial testing the use of sugar beet for duck rearing in 2 polders (2, 29)
23.	Aqua geoaponics project		x	x	x	x	x	x	x	x	x	x	x				One year project on aqua geoaponics under the innovation fund, in polder 2.
24.	Trial on Pabda fisheries	2	x	x	x	x	x	x	x	x							Trials on production of Pabda fisheries in 2 polders
25.	Fish sanctuary activity	2	x	x	x	x	x	x	x	x	x	x	x	x	x		Continue the two locations with developed fish sanctuary (2015).
26.	Community fisheries	1	x	x	x	x	x	x	x	x							One location with community fisheries.
27.	Sugar beet trial	3				x	x	x	x	x	x	x	x				One field trial sugar beet in 3 polders (on in each district)
28.	Hygienic pig rearing scale up				?	?	?	?	?	?	?	?	?	?	?	?	Possibly 2nd IF project with NICE Foundation on scaling up of hygienic pig rearing in 2 polders
29.	Fodder trials	28	x	x													Folder trials in 28 FFS of Cycle 7 in polder 2
30.	Fodder trials	88													x	x	Fodder trials in 88 FFS of Cycle 9, but polders not yet known (FFS start April 2017)
31.	Refresher training Community Livestock Workers	20							x								
32.	Refresher training for Community Poultry Workers	19								x							
33.	New Community Livestock Worker training	?							x								Number to be trained to be decided based on inventory existing CLWs
34.	New Community Poultry Worker training	?								x							Number to be trained to be decided based on inventory existing CPWs
35.	FT TOT DAE	72?									x	x	x	x			FT-TOT for 72 Farmer Trainers (possibly this will be changed to train fewer FTs and train some SAOs instead)
36.	DAE Motivational tours	5													?		Motivational tours for FFS farmers
37.	DAE Review and Planning Workshops	4					x									x	At end of each season Review and Planning Workshops, 1 in Khulna, 1 in Patuakhali
38.	Identify/train new nursery owners	?								?	?	?					Number and location still to be decided
39.	Identify/implement new fish sanctuary	?										?	?	?	?	?	Number and location still to be decided

40.	Identify/implement new community fisheries	?									?	?	?	?	Number and location still to be decided
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1.24 Institutional Strangthening

S.N	Task Name	Target	2016						2017						Remarks
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	
1	Assess Institutional settings of Polders	6	x					X				x			
2	Facilitate for Polder Development Plan	6		x	x	x			x			x			
3	Facilitate in Program orientation for Union Parishad	30	x	x	x	x	x	x	x	x	x	x	x		
4	Promote BWDB's support (community mobilization and strengthening) to WMOs			x	x	x	x	x	x	x	x	x	x	x	x
5	Program orientation for Upazila Parishad	12			x	x	x	x			x	x	x		
6	Facilitate to develop linkage with, projects, NGOs, Research organizations and Networks		x	x	x	x	x	x	x	x	x	x	x	x	x
7	Develop Proposal on Horizontal Learning process for BGP	1	x	x											
8	Facilitate and follow-up for WMA Planning workshop (Approach-2)	9	x	x	x	x	x	x	x	x	x	x	x	x	x
9	Coordinate Exit Strategy -2 & 7 Task Groups	2	x	x	x	x	x	x	x	x	x	x	x	x	x
10	Contribute to Water and Land use Planning (Approach-3)			x	x	x	x	x	x	x	x	x	x		
11	Facilitate for Community Water Management (Approach-1)	10	x	x	x	x	x	x	x	x	x	x	x		
12	Facilitate for Horizontal Learning in BGP	12	x	x	x	x	x	x	x	x	x	x	x	x	x
13	Facilitate to establish linkage between WMOs, BWDB and UP		x	x	x	x	x	x	x	x	x	x	x	x	x
14	Facilitate for Joint planning workshop between WMO and UP	10				x	x	x	x	x					
15	Facilitate to organize training for UP Chairmen on Participatory Water Management	2					x	x							
16	Facilitate to establish link between DRR activities with UDMC	12		x	x	x	x	x	x	x	x	x	x	x	x
17	Coordinate and follow-up Physical Identification of unused BWDB lands and resources	3	x	x											
18	Facilitate and support for the study on LCS	1	x	x	x										
19	Follow-up with UPs to include WMO representatives in UP Standing Committees,	20	x	x	x	x	x	x	x	x	x	x	x	x	x

	UDMC, UDCC and practice Participatory planning																	
20	Support Training section, Communication Expert, DRR Expert, Gender Expert and others		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
21	Explore scope of sharing and facilitate for cooperation and partnership for replication of innovation good practices from others (organizations, projects, NGOs, Private sectors)		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
22	Facilitate for Networking with projects, organizations, GO, NGO, PS and Networks		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
23	Coordination with stakeholders and BGP TA Groups		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	

1.25 Innovation Fund

S. N.	Task Name	Target	2016					2017					Remarks						
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr		May	June	July	Aug	Sept	
1	BARI								x	x	x	x	x						Hydroponics
2	Classical Handmade Products				x	x	x	x	x										Handicraft Production Satkhira
3	Consiglieri		x	x	x														Follow-up study on access to energy in the polders
4	FHRC*				x	x	x	x	x	x	x	x	x	x	x	x			Collective action for improved water management. Implemented in Polder 29 and Polder 43/2E
5	MetaMeta**				x	x	x	x	x	x									Roads for flood protection and water management. **Starting date depends on security situation
6	Moringa Ltd				x	x	x	x	x										Moringa value chain development
7	Next Billion				x	x	x	x	x										Mobile movies platform for Blue Gold
8	Nice Foundation					x	x	x	x	x	x	x	x	x	x	x			Scale-up of action research on hygienic pig-rearing
9	Practical Action		x	x	x	x	x	x	x	x	x	x							Aqua geonics
10	WorldFish		x	x	x	x	x	x	x	x	x	x	x						Eco Ponds and empowering of women

1.26 Communication

S.N.	Task Name	Target	2016					2017					Remarks					
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr		May	June			
1	Quarterly newsletter	4			x				x				x					
2	Revising communication strategy	1					x	x	x									

3	Printing of revised English leaflet	1							x								
4	Popular theatre	40						x	x	x	x	x					Polders will be selected by discussing with polder committees
5	Meal	10								x	x	x					Polders will be selected by discussing with polder committees
6	Community radio program	12								x	x	x	x	x	x		Depending on CWM's content supply
7	Evaluating media behaviour	1						x	x	x	x	x					
8	Collecting and publishing good practice		x	x	x	x	x	x	x	x	x	x	x	x	x		
9	News update on social media and web		x	x	x	x	x	x	x	x	x	x	x	x	x		
10	BGP orientation video	1			x	x	x										
11	Airing BGP success/good practice on TV	12		x	x	x	x	x	x	x	x	x	x	x	x		
12	DRR flyer	3				x	x		x	x		x					
13	Music video production	5	x			x	x										
14	Piloting Mobile Video show	1				x	x	x	x								
15	Awareness building sticker (Gender)	5			x	x	x										
16	Awareness building billboard (Gender)																
17	Awareness building short video (Gender)	2					x	x	x								
18	Short video on CWM	20		x	x	x	x	x	x	x	x	x	x	x	x		Depending on CWM's content supply

1.27 Training

S.N.	Task Name	Target	2016						2017						Remarks		
			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June			
	Seminars, Workshop and Orientation																
1	Orientation on Blue Gold Construction Management and Program Policies (01 day)																
2	Training on Design of Water Management Infrastructure (Note: Through BUET or any other Engineering University)																
3	Experience Sharing Workshop																
4	Workshop on Institutional Issues in Water Management																
5	Governance in water management projects																
6	General Training on Facilitation Skills (05 days)																
7	Workshop on Review of Gender Equity Strategy 2006-2011 (BWDB gender Equity Strategy)																
8	Orientation on Participatory Water Management (1 day)																
9	Orientation on Polder Development Process for New Polders																
10	Workshop on Theory of Change for Blue Gold Program																

	Safety tour by TL, PD, senior civil engineers and BWDB representatives (PCD and XENS) regarding on Site and Transport Safety for TA staff, BWDB staff and Contractor Directors																	
11	Orientation on Blue Gold Information Dissemination Strategy (01 day)																	
12	Workshop on Annual Plan																	
	Staff Development (BWDB, DAE, DOF, DLS and BG)																	
13	Training on Community Organization and WMO Strengthening (06 days)																	
14	Refresher course on Community Organization (03 days)																	
15	Training on Market Orientation for Departmental Trainers																	
16	ToT on Operation & Maintenance with Water Management Training and Resource Mobilization (04 days)																	
17	TOF Course for additional farmer facilitator																	
18	Gender Orientation and Awareness Raising																	
19	Training on Integrated Communication Technology (ICT) (02 days)																	
20	General Training on Facilitation Skills (05 days)																	
21	Training on relevant Environmental/DRR issues for Polder Level Staff(02 days)																	
22	Orientation on Blue Gold GIS (01 day)																	
23	Training on Blue Gold GIS																	
24	ToT on Participatory Monitoring System (02 days)																	
25	Refresher Course on Data Collection Process of Outcome Monitoring using Tablet																	
26	Sharing workshop on result of outcome mapping																	
27	Training on First Aid for Blue Gold																	
28	Blue Gold Retreat																	
	Polder Level Training																	
29	Organizational Management Training for WMG (03 days)	WMG, UP members	x	x	x	x												
30	Dry-run on Gender & Leadership Development (2 days)																	
31	Gender & Leadership Development Training for WMG (03 days)	WMG, UP members	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
32	Exchange visits to polders and projects, organizations (01 day)	WMGs																
33	Training on environmental safeguard and disaster preparedness (02 days)																	
34	Training on Accounts Keeping and Audit System (AKAS) for WMG (02 Days)																	
43	Polder Development Plan (PDP)																	

