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Participatory Small Scale Water Resources Sector Project (PSSWRSP)

**ANNUAL EFFECT MONITORING
AND
EVALUATION REPORT
2016 - 2017**

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Acronyms

BME	Benefit Monitoring and Evaluation
CAD	Command Area Development
DAE	Department of Agriculture Extension
DD	Detailed Design
DR	Drainage (Sub-project)
DLIAPEC	District Level Inter Agency Project Evaluation Committee
DoF	Department of Fisheries
EME	Effect Monitoring and Evaluation
FMD	Flood Management and Drainage (Subproject)
FS	Feasibility Study
FY	Fiscal Year
GoB	Government of Bangladesh
ICM	Integrated Crop Management
IEE	Initial Environmental Examination
IGA	Income Generating Activities
IPM	Integrated Pest Management
IWRMU	Integrated Water Resources Management Unit
LCS	Labor Contracting Society
LGED	Local Government Engineering Department
LGRD&C	Local Government, Rural Development and Cooperatives
MIS	Management Information System
NGO	Non-Governmental Organization
O&M	Operation and Maintenance
PIC	Project Implementation Consultant
PMO	Project Management Office
PRA	Participatory Rural Appraisal
PSSWRSP	Participatory Small-scale Water Resource Sector Project (2010-2017)
SP	Sub-project
SSW-1	Small Scale Water Resources Development Sector Project (Phase-I) (1996-2002)
SSW-2	Second Small Scale Water Resources Development Sector Project (Phase-II) (2002-2010)
SSW-3	SSWRD Project in Greater Mymensingh, Sylhet & Faridpur (2009-2015)
UP	Union Parishad
WC	Water Conservation (Sub-project)
WMCA	Water Management Cooperative Association

Glossary

<i>Aus</i>	Paddy crop grown in <i>Kharif-I</i>
<i>Aman</i>	Paddy crop grown in <i>Kharif-II</i>
<i>Boro</i>	Paddy crop grown in the <i>Rabi</i>
<i>Kharif-I</i>	Pre-monsoon cropping season
<i>Kharif-II</i>	Monsoon cropping season
<i>Rabi</i>	Winter (dry) cropping season

EXECUTIVE SUMMARY

The Effect Monitoring and Evaluation survey was carried out at 109 sub-projects where all components of subproject are completed before June 2016. Also the sub-projects were completed before planting of *Rabi* crops in 2016.

The Effect Monitoring and Evaluation survey report is designed to document the estimated changes in agriculture and fisheries production that have occurred as a result of the investment in water management infrastructure in sub-projects completed under the Participatory Small-scale Water Resources Sector Project. Efforts are also made to provide some insight into the overall institutional strength of the respective Water Management Cooperative Associations (WMCA) through a review of their capital formation and the operational status of these sub-projects.

Sub-project development costs were collected from the Management Information System (MIS) of Project Management Office (PMO) and the records of the Project Implementation Consultants (PIC).

Key statistics for the Water Management Cooperative Associations was taken from the records of the Management Information System and Project Implementation Consultants.

Agricultural data was collected from the Water Management Cooperative Associations that provided an estimate of the area planted and crop production from the area by crop for the three main cropping seasons: Rabi, Kharif-I and Kharif-II. Cropping intensity and crop yield were estimated from the collected data. Corresponding baseline data was taken from sub-project feasibility studies carried out as part of the sub-project development process. Incremental changes were calculated from the available data.

Estimated fisheries data was collected from the Water Management Cooperative Associations.

The investment cost for each sub-project varied from BDT 4.74 million (Bandhukkhali SP) to BDT 87.84 million (Pokkhali-Naikhongdia SP), and averaged BDT 17.27 million (US\$ 221457/sub-project). About 57.06 per cent of the investment cost was for water management structures (including O&M Sheds for Water Management Cooperative Associations that were built at 105 sub-projects) constructed by professional contractors. The remaining 42.94 per cent of the investment cost was for earthworks, both khal /canal excavation and embankment strengthening, and was done by Labor Contracting Societies (LCS).

Unit area construction costs varied from BDT 7954/ha (Sitly khal SP) to BDT 132492/ha (Pokkhali-Naikhongdia SP) (US\$ 102 to US\$ 1699/ha) and averaged BDT 27831/ha (US\$ 402.64/ha). In general investment costs were lower for unregulated sub-projects which have no water management structures and comprise earthworks, khal excavation and/or embankment construction.

The capital funds, shares and savings with WMCA totalled BDT 504039 per sub-project of which shares totalled BDT 86023 per sub-project and savings BDT 418017.

On a per capita basis the shares and savings have improved. The average contribution to the Capital Fund (shares and savings) was BDT 959/member (US \$12.30) with a range of BDT 142 to 4686 (US \$ 1.82 to 60.07). As noted above savings are substantially higher than shares with the average per member at BDT 795 and 164 (US \$ 10.20 and 2.10) respectively.

The overall goal of the Project is to support Government poverty reduction efforts through the increase of sustainable agricultural production. At the institutional level through the Water Management Cooperative Associations the introduction of micro-credit using the funds accrued in capital formation also has the potential to reduce poverty through livelihood enhancement especially for the poorer members of the beneficiary community.

Micro Credit Schemes have been started at 72 subprojects using the Water Management Cooperative Associations capital fund to provide small loans to members. At the end of June, 2017, micro credit loans totaling BDT 77451070 (US\$ 992962) had been distributed to 4459 members of which 1715 females (38.46%) and 2744 males. For these 72 subprojects the average loan disbursement was BDT 1075709 (US\$ 13791) and the average value of a loan is BDT 17370 (US\$ 223).

Earthwork for khal excavation and embankment strengthening through Labor Contracting Societies provide employment opportunities to rural poor, men and women. For the 99 subprojects out of 109, the earthwork investment averaged BDT 8167019/subproject (US\$ 104705). For the 99 subprojects out of 109 a total of 1806 LCS groups were engaged, on an average 18 LCS per subproject, employing a total of 43475 laborer including 14684 females (33.78%). The total Investment in earthwork using LCSs was BDT 808534875 (US\$ 10365832) an estimated average gross remuneration of BDT 18598 per member (US\$ 238).

Earthwork is frequently completed mostly in a single dry season with the exception to the next dry season. Longer-term and more sustainable employment will result from infrastructure maintenance activities, from increases in agriculture production, and to a lesser extent from increases in fish production.

Skill development and empowerment play an important role in providing individuals with better control over their economic and social environment. Beneficiary skill development is extensive, in the context of this study it is reviewed in relation to training for natural resource management (agriculture and fisheries) facilitated by the Project. Empowerment comes through participation and through the networks that are established for and by, local stakeholders with various government and non-government agencies.

In total 13146 beneficiaries including 5361 females (40.78%) from the 109 sub-projects attended training courses for agricultural development. The number of agricultural training courses provided to a WMCA varied from 2 to 78.

In total 5776 trainees, including 1646 females (28.48%), from 109 sub-project Water Management Cooperative Associations included in the study attended the 11 different fisheries training courses. The number of training courses provided to Water Management Cooperative Associations members varied between 14 and 78; 27 of the 109 sub-projects in the Effect Monitoring and Evaluation study received training.

The crop information presented is for: (i) Rabi (winter) crop season (December 2016); (ii) Kharif-I (pre-monsoon) crop season (April 2016); and (iii) Kharif-II (Monsoon) crop season (2016). Subprojects were included in the study in the first crops season following completion of hydraulic structures; in total 109 subprojects. Data are compared with the pre-project baseline situation as estimated in the subproject feasibility study.

The cropped area, cropping intensity and incremental crop production shows increased in all seasons.

All the 109 subprojects were completed before the Rabi planting in 2016 where there was an incremental increase in the cropped area of 11994 hectares (ha) to 64471 ha from a pre-project base of 52477 ha and a cropping intensity incremental increase of 17.7 percent to 95.30 percent from the pre-project base of 77.6 percent. There was an incremental increase in crop production of 85114 metric tons to 373373 tons from a pre-project base of 288259 tons.

Kharif-I season (2016) post-project cropping was carried out at all 109 sub-projects. The estimated total incremental increase in cropped area was 4307.70 ha to 21499.20 ha from a pre-project base of 17191.6 ha. The average incremental increase in cropping intensity was 6.4% to 31.8% from a pre-project base of 25.4%. The incremental increase in crop production was 20293.90 metric tons to 69857.70 metric tons from a pre-project base of 49563.8 metric tons.

Kharif-II season (2016) post-project cropping was carried out at all 109 sub-projects. The estimated total incremental increase in cropped area was 4950.40 ha to 54569.70 ha from a pre-project base of 49619.40 ha. The average incremental increase in cropping intensity was 7.4% to 80.7% from a pre-project base of 73.3%. The incremental increase in crop production was 37681.50 metric tons to 193757.90 metric tons from a pre-project base of 156076.40 metric tons.

The cropped area increased in all three seasons by 21252.40 ha (17.82%) from a pre-project area of 119287.70 ha. The main increase accounted for an increase of 14605.60 ha in cereal. The cultivated area of non-cereal crops had an incremental increase of 6646.80 ha (24%) with the cropped area increasing to 34409.5 ha from a pre-project level of 27762.70 ha.

The largest incremental increase was in the Rabi season (2016-17) with an incremental increase in the cropped area of (6356.70+5637.70) 11994.40 ha (56.44%); a net subproject average increase of 110.00 ha.

A summary of relative changes (decrease, unchanged and increase) of crop production showed that cereal and non-cereal production increased in all three crop seasons. Cereal crop production increased in the Rabi season in 90 subprojects, in the Kharif-I season in 38 subprojects and in the Kharif-II season in 11 subprojects. The non-cereal crop production increased in the Rabi season, Kharif-I & II at 98, 11 & 5 subprojects, while crop production in cereal remained unchanged at 17,69,16 SPs in Rabi, Kharif-I & Kharif-II seasons respectively. There are decreases in cereal crop at 90, 38 & 83 SPs in Rabi, Kharif-I & Kharif-II seasons respectively in the area of cereal crops in Rabi season is 6356.70 ha and followed by 4521.20 ha in Kharif-II. The lowest incremental increase in non-cereal crops of 429.10 ha in Kharif-II.

Similarly no changes in non-cereal crop production at 7, 95 & 104 SPs. Invariably the subprojects where crop production remained unchanged crops were not cultivated at pre or post project.

The estimated total pre-project crops production was 493899.20 metric tonnes with 333830.30 tonnes (67.60%) accounted for from the cereal crop. The main cereal crop production season was in the Kharif-II season when 156076.40 tons (46.75%) were produced. Rabi was the main season for production of the non-cereal crop producing 151187.10 tons (94.45%) of the total production of 160068.90 tons.

The post-project estimated total crop production for the three seasons was 139688.50 metric tons. Cereal production was 190330.00 (44.46%) with Kharif-II the main season producing over 428053.50 tons of the total cereal production. Non-cereals crops were mainly produced in the Rabi season with 193512.40 tons (92.62%) of the total production of 208935.00 tons.

There were yield increases for cereal and non-cereal crops in all three seasons. The highest sub-project average yield increase was for non-cereal crops in the Kharif-II season; 1.11 t/ha from a pre-project level of 0.0 t/ha. There were also substantial yield increases in the Rabi, Kharif-I and Kharif-II seasons for the cereal crop of 0.35, 0.35 and 0.37 respectively. The non-cereal crop yield increase in Rabi and Kharif-I seasons was at 0.23 and 0.40 t/ha respectively.

Fisheries performance was assessed for the 109 sub-projects for which construction of hydraulic infrastructures had been completed and data was available. A fishery production information on both capture and culture fisheries is presented.

Incremental fisheries production was estimated both at flood plain and permanent water bodies at 8095 MT with an increase of 641 MT from culture fisheries and also an increase of 169 MT from flood plain fisheries.

For capture fisheries (floodplain) there was no incremental change in the number of genuine fishers. There was a marked incremental increase in the number of fish culturist by 3047 in 109 sub-projects.

The livelihood of fish cultivators improved at the 109 subproject whereas genuine fishers' livelihood improved at 108 sub-projects.

Out of completed 109 subprojects O&M plan and budget have been prepared by WMCAs of 99 subprojects for the year 2016-2017. The budgeted amount being BDT 40.26 million seems reasonable as it is expected that the cost of O&M in the first year to be less because of the new infrastructures. WMCAs of 43 subprojects have collected and spent BDT 4.03 million in O & M activities and as well as 2,416 person days generated by voluntary physical works in maintenance works in the ninety nine subprojects in 2016-2017. The WMCA of remaining completed subprojects prepared the O & M plans and are in the process of assessing the requirement of operation and maintenance needs.

The initial upfront O&M contributions for these one hundred nine subprojects add up to BDT 39.28 million. The range of collection is from BDT 0.076 million to BDT 1.20 million. The interest accrued from the FDR is BDT 7.56 million & the collection of O & M fund in the operating saving account is BDT 2.10 million making the total operating fund BDT 9.66 million. As usual the principal amount in fixed deposit will remain fixed deposited jointly with concerned Upazila Engineer. The amount received as interest and the O&M fund collected from the beneficiaries is deposited in operating savings accounts and will be used to cover the routine maintenance costs.

The PSSWRSP is classified as Gender Equity Theme category and has a Gender Action Plan (GAP) which aims at supporting the project to ensure women's active participation in every process of planning, implementation, supervision, operation and maintenance of the subprojects. The Gender and Development activities have been implemented as per GAP and the progress of gender aspects are satisfactory. The total members in 109 WMCAs are 57,288 with 38% women members (35,722 Male & 21,566 Female) which are very encouraging. In labour contracting society total labour is 45,150 of which male 30100 and female is 15050. The membership ratio in WMCA managing committee is 33% female (432) and male is 67% (876). Numbers of trainings are given to WMCA members where women members got significant importance. In leadership training to managing committee members 436 female and 872 male members received training. More than 3000 female members received training on decision making process within WMCA. Whereas 327 female and 654 male members received training on O&M activities as members of O&M committee. In 109 subprojects microcredit received by 1715 (38%) female and 2744 (62%) male member of WMCA. In total 13146 members of which 5361 female and 7785 male of WMCAs have been trained on agriculture based program to start IGA and the courses were well received by the women. Similarly fishery based training was received by 1645 female and 4131 male members of WMCA. Gender awareness training are received by 1635 female and 1635 male members and for income generating activities 900 female members received on-farm IGA training and 2718 female members received training on livelihood development.

In 8 training sectors 2290 training courses were delivered where 72484 participants attended the courses of which 45185 (62.34%) was male and 27299 was female (37.66%). It is also observed that in Gender and Development training sector, 75.04% female members attended whereas in Project Orientation & Management 28.10% female attended the training course. 6 categories of trainings were given on Resettlement in 43 courses where 1191 members participated of which 1108 (93.03%) male and 83 (6.97%) female members.

In order to achieve the aspects on integrating environmental considerations in project planning & design, implementation and O&M planning, strengthening knowledge of environmental aspects in monitoring environmental issues, impact and management and strengthening the understanding of environmental knowledge by WMCA members a comprehensive environmental training program has been designed for the study subprojects. Three hundred sixty eight (368) course events have been executed so far where eleven thousand sixty four (11064) trainees participated in the training including four

thousand seven hundred twenty two (4722) females (42.68%). The course events spread over eleven thousand seven hundred eighteen (11718) trainee days.

As a result of training imparted to LGED Officials and WMCA members, field monitoring is being carried out to verify whether the subproject contractor/LCS are properly implementing environmental management works as specified in the contract document and adhering to the underlying principles of ADB's Environmental Safeguard Policies. There are 22 environmental training courses conducted where 660 trainees participated in the course of which 330 (50%) female trainees received training.

As part of the environmental impact assessment process, the impacts were broadly classified as physical, biological and social, and then each of these broad categories further divided into different aspects. The potential impacts thus identified are characterized as follows:

positive (beneficial) impact: (+)

Negative (adverse) impact: (-)

Insignificant or no impact: (0)

In total Socio-economic Survey was completed at 109 SPs. Of these, Socio-economic Survey Reports (SESR) of 97 subprojects have been prepared as per structured format and submitted to the ADB for their record. Resettlement Plans of 12 subprojects that were on the plan have been prepared and implemented. During implementation in total 1127 affected persons (AP) have been identified and an amount of Tk.71,99682.00 as compensation benefits has been paid to the PAP's. All these subprojects are fully implemented and as per PAP's ID cards payment has been made and necessary documents preserved for future audit and inspection purpose.

ANNUAL EFFECT MONITORING AND EVALUATION SURVEY (2016- 2017)

1. INTRODUCTION

1. The Participatory Small Scale Water Resources Sector Project (PSSWRSP) is under implementation in 61 of the country's 64 districts (excluding 3 Chittagong Hill districts) with financial assistance of the Asian Development Bank (ADB), the International Fund for Agricultural Development (IFAD), and the Government of Bangladesh (GOB); and assistance in kind from beneficiaries. The People's Republic of Bangladesh is the Borrower, and the Executing Agency of the Project is the Local Government Engineering Department (LGED) of the Local Government Division under the Ministry of Local Government, Rural Development and Cooperatives (LGRD&C).
2. The overall goal of the Project is to support Government poverty reduction efforts through the increase of sustainable agricultural production. The Project will develop sustainable stakeholder driven small-scale water resources management systems with special attention to the poorer section of the population. The objectives¹ will be achieved by: (i) constructing water management infrastructures in 270 new sub-projects including flood management, drainage improvement, water conservation and command area development and enhancing the performance of about 150 sub-projects constructed in phases 1 and 2 of the Small-scale Water Sector Project (SSW-1 and SSW-2), benefiting 220,000 ha of cultivable land; (ii) strengthening operation and maintenance by institutionalizing beneficiary participation; (iii) strengthening Government institutions and facilities by establishing sustainable water management systems; and (iv) enhancing the access of the landless poor in the sub-project areas to employment opportunities and to public natural resources.

1.1 Objectives of the Effect Monitoring and Evaluation

3. The purpose of the Annual Effect Monitoring and Evaluation (EME) report is to document the changes in agriculture and fisheries production that have occurred as a result of the investment in water management infrastructure in sub-projects completed under the PSSWRSP. Efforts are also made to provide some insight into the overall institutional strength of the respective Water Management Cooperative Associations (WMCAs) through a review of their capital formation and the operational status of these sub-projects.
4. The Projects being implemented in 61 districts throughout Bangladesh using the same monitoring framework used for the Small-scale Water Resources Sector Project SSW-1, SSW-2 and SSW-JICA projects. This is the second EME report of PSSWRSP and is prepared after completion of 109 sub-projects for the 2014-2015, 2015- 2016 and 2016-2017 cropping seasons.
5. In addition to the annual EME reports, a Baseline Monitoring and Evaluation Study are carried out to determine longer term impacts of the sub-project investment. These comprise two major steps, a Baseline Survey for 30 sub-projects during and subsequently an Impact Assessment of these sub-projects carried out 5 years after the completion of the Project.

2. DATA COLLECTION

2.1 Sub-projects and Period Covered

6. This EME report covered 109 sub-projects where hydraulic infrastructure was completed. Preparation of these sub-projects started from January 2011², and culminated in signing of Implementation Agreements in mid-2011. Construction works were completed by June

¹ Development Project Proposal (DPP), Participatory Small-scale Water Resources Sector Project (PSSWRSP), February 2010.

²Two subprojects Nimai Kari Khal and Purba Sarail Madhai Khal were carried forward from SSW-2 and completed in-house

2016, except at some sub-projects where construction of the O&M sheds is in the stage of completion.

7. The data used in this EME is referenced to the periods set out in **Table 1**.
8. Details of sub-project location, type, area, and cost of construction are given in **Appendix A, Table A.1**¹; location and type of sub-project are summarised in **Table 2**. Forty seven of the sub-projects are “non-regulatory”, i.e. infrastructure works comprised just khal excavation and / or embankment strengthening, while sixty two are “regulatory” with investments in (gated) water management structures as well as earthworks. The category and type of sub-project has implications for operation and maintenance. O&M shed, one for each subproject is constructed in 105 subprojects out of 109.

Table 1: Reference Dates for Effective Monitoring and Evaluation Data

Construction Costs	- Engineers Estimate: 2010-2011, 2011-2012, 2012-2013 and 2014-2015 LGED Schedules of Rates - Contract Amounts: tendered amounts in 2010-11, 2014-15 & 2015-16
Institutional data	As of June 2017
Agricultural data	- Rabi (winter) crop: mid-October 2016 to April 2017 - Pre-monsoon (<i>Kharif-1</i>): March to June 2016 - Monsoon (<i>Kharif-II</i>): July to December 2016
Fisheries data	As of June 2017
Operation and Maintenance data	As of June 2017
Capacity Building	As of June, 2017

Source: Project studies

Table 2: Summary of Sub-projects in districts by Location and Type

District	Types					Total (No.)
	CAD	WCD	DR	FMD	WC (RD)	
Bagerhat		1		2		3
Barguna		2	10			12
Barisal		2	9	1		12
Bhola			4			4
Bogra		1		1		2
Brahmanbaria			1			1
Chandpur	3					3
Chapai Nawabganj	1					1
Chittagong	1	1			1	3
Comilla		1	1			2
Cox's Bazar	1				4	5
Dhaka				1		1
Dinajpur		1				1
Gaibandha		3		3		6
Gazipur	1					1
Jessore		2				2
Jhalokathi		1	8			9
Jhenaidah			1			1
Joypurhat		2				2
Lalmonirhat					1	1
Laxmipur		1				1
Manikganj				2		2
Meherpur				4		4
Naogaon		2	3	1		6
Narail		1				1
Natore			1			1
Noakhali		1				1
Pabna		2				2
Patuakhali			3	3		6
Pirojpur		1	4			5
Rajshahi		1				1
Rangpur		1		1		2
Sirajganj		2	2	1		5
33	7	29	47	20	6	109

Notes: CAD (Command Area Development), DR (Drainage), WC (Water Conservation), FMD (Flood management and Drainage), RD (Rubber Dam)

Source: Project studies

¹ The table prefix letter designates the appendix

2.2 Operation and Maintenance Data

9. Preparation of Operation and Maintenance (O&M) plan and field program have started in full swing during the period under reporting and the O&M data for individual sub-projects are now available. The O&M Plan for 109 subprojects have been prepared. The executions of O&M Plans are slow but continuing steadily.
10. The Project has provided Training of Trainers to Executive Engineers (XEN) and Upazila Engineers (UE) on Operation & Maintenance (O&M) including preparation of the Annual O&M Plan and Budget. The XEN's and UE's will train members of the WMCA O&M sub-committee. The annual O&M plans will first be prepared by the WMCAs with the assistance of the Upazila Engineers and the Sub-assistant Engineers before forwarding to Project Director, PSSWRSP, LGED through the district Executive Engineers. All data will then be entered in the Project Director's Management Information System (MIS).

2.3 Institutional Data

11. Institutional and related data of Water Management Cooperative Associations (WMCA) are obtained from the progress report generated from Project Management Information System (MIS) put in order from the monthly and quarterly progress reports submitted by the district Socio-Economists. Institutional Development Specialists (IDS) of the Project Implementation Consultant (PIC) assist in collecting and verifying institutional data in close cooperation with LGED staffs. General facilitators contribute to collect institutional data from the field as well.

2.4 Agriculture Data

12. Agriculture data for the three cropping seasons: (i) *Rabi* (winter season 2016-2017), (ii) *Kharif-I* (pre-monsoon season) 2016, and (iii) *Kharif-II* (monsoon season) 2016 was collected by the Agriculture Facilitators (PSSWRSP) assisted by Sub-assistant Agricultural Officers (DAE) and members of the WMCA's Agriculture sub-committee. The agriculture production data is a best estimate obtained from selected members of the beneficiary community.
13. Crop data is presented in two categories; cereals and non-cereals. Cereals include rice, wheat and maize; all other crops are grouped under non-cereals. A summary of crop production is presented as total, by net incremental¹ change between pre-and post-project and by season for the two "crops" as an indicative estimate of production and changes in production. Data for individual crops is also presented in **Appendix C**.

2.5 Fisheries Data

14. Fisheries data since 2017 was collected and submitted by the PSSWRSP Fisheries Facilitators and members of Fisheries sub-committee. The collection of fisheries data is probably the difficult among others.

Figure 1: Fisheries data used in this section/report preparation were of following periods:

Sl.	Data on Aspects/Discipline	Period	Remarks
1	Fisheries (Culture & Capture) Data	As of June 2017	

2.6 Gender and Development Data

15. The related Gender and Development data on Water Management Cooperative Association (WMCA) were obtained from MIS established at PMO and reports submitted by the field Socio Economists and collected by Gender Specialist of the Project Implementation Consultant (PIC) who works in close collaboration with LGED staff.

¹ Incremental is used in the report to describe the change in value between pre-and post-project data

2.7 Environmental Monitoring Data

16. The related Environmental Monitoring data on Subprojects were obtained from MIS established at PMO and reports submitted by the field Socio Economists and collected by Environmental Specialist of the Project Implementation Consultant (PIC) who works in close collaboration with LGED staff. The data of water quality and other parameters are collected from the sample collectors at 21 field laboratories in different districts.

2.8 Training and Related Data

17. The Training and its related data on Subprojects were obtained from MIS established at PMO and reports submitted by the field Socio Economists, Facilitators and collected by Training Specialist of the Project Implementation Consultant (PIC) who works in close collaboration with LGED staff.

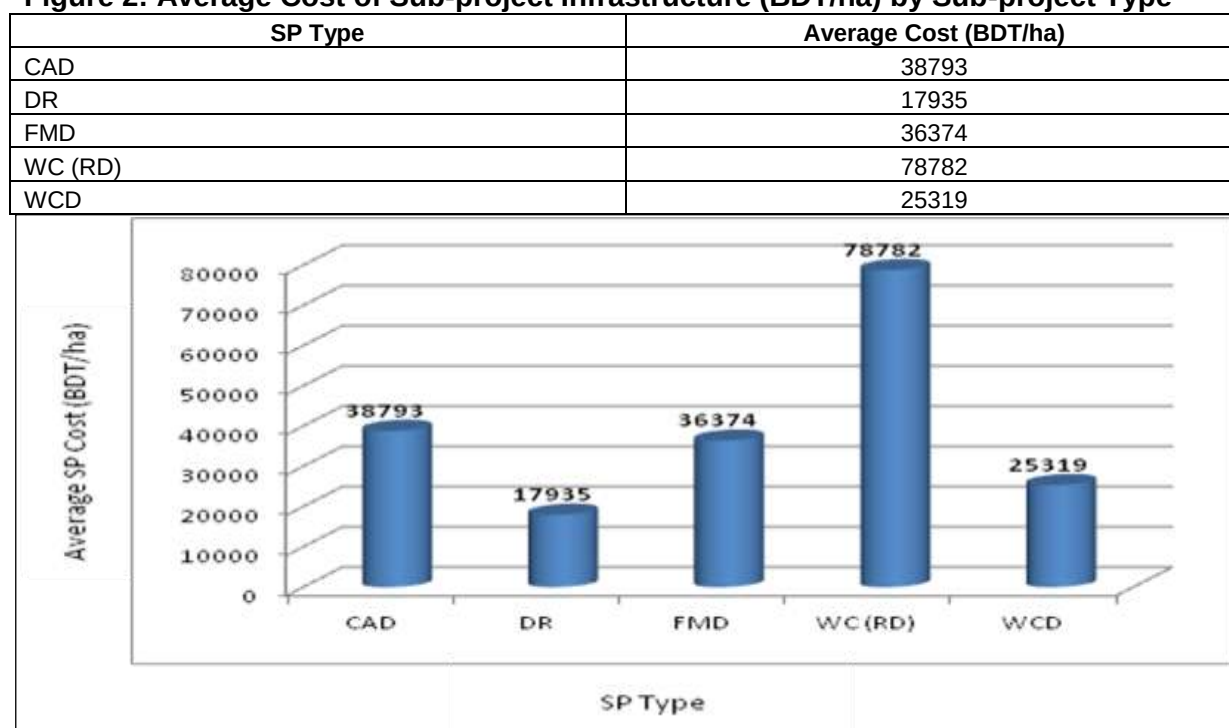
2.9 Social Monitoring & related data

18. The Social Monitoring and its related data on Subprojects were obtained from MIS established at PMO and reports submitted by the field Socio Economists, Facilitators and collected by Safeguard Specialist of the Project Implementation Consultant (PIC) who works in close collaboration with LGED staff.

3. CAPITAL INVESTMENT COSTS

19. The total investment cost for each subproject varied from BDT 4.739 million (Bondukkhali Khal) to BDT 87.842 million (Pokkhali-Naikhongdia), and averaged at 17.274 million (US\$ 221457/subproject¹). About 57.057 percent of the investment cost was for water management structures constructed by professional contractors. The remaining 42.943 percent of the investment cost was for earthworks both khal excavation and embankment strengthening and was done by Labor Contracting Societies (LCS) see **Table A1**.

Figure 2: Average Cost of Sub-project Infrastructure (BDT/ha) by Sub-project Type



Source: Project studies

¹ Rate of Exchange 1 US\$ = 78 BDT

20. Unit construction costs varied from BDT 7954/ha (Sitly Khal) to BDT 132492/ha (Pokkhali-Naikhongdia) (US\$ 102 to US\$ 1699/ha) and averaged BDT 27831 /ha (US\$ 402.64/ha). In general investment costs were the lowest for unregulated subprojects which have no water management structures and comprise earthworks, khal excavation and/or embankment construction, **Figure- 2**.
21. Earthworks executed by Labor Contracting Societies generated employment opportunities for poor (usually landless) women and men in general labor remains the preferred option for carrying out earthworks. However, in recent years the dynamic changes in the national economy have resulted in more employment opportunities and increased daily paid labor rates for agricultural work. This has resulted in seasonal labor shortages in parts of the country and consequently for LCS work labor might have to be recruited from outside the subproject area or the bulk excavation of large volumes of earth carried out using mechanical excavators.
22. WMCA offices were planned in all the 109 subprojects but due to inavailability of land in 4 subprojects (Nabinpur-Dholar Beel, Sundari Khal, Char Samaia & Nuruddin Khal) WMCA Office could not be constructed.

4. INSTITUTIONAL PERFORMANCE ASSESSMENT

4.1 Membership and Capital Funds

23. Membership, the accumulation of capital funds and micro-credit activities are reviewed for the 109 completed sub-projects and presented in detail in **Table A.2**.

A summary of the data is given below:

- Number of Beneficiary Households per subproject: average 581, range 155-1250;
 - Number of Members per subproject: average 526, 328 (male) and 198 (female 37.64%);
 - Capital Funds per subproject: average BDT 504039 (US\$ 7292), range BDT 71755-BDT 5293400 (US\$ 920-US\$ 67864);
 - Capital Funds per subproject: shares: average BDT 86023 (US\$ 1103), range BDT 5490-BDT 2705850 (US\$ 70-US\$ 34690); and
 - Capital Funds per member: savings: average BDT 418017 (US\$ 5359), range BDT 49405-BDT 2793267 (US\$ 633-US\$ 35811).
24. Capital funds include: *shares* – each member is required to buy a minimum number of share at a fixed price per share; and *savings* – all members shall save money to generate WMCA capital fund on weekly or monthly basis on principle. Dividend accrues to individual members according to the number of shares held. The proportion of capital funds from *shares* and *savings* was as follows:
 - Shares: BDT 9376473/SP (17.07%);
 - Savings: BDT 45563801/SP (82.93%); and
 - Total: BDT54940274/SP (100%).
 25. On a per capita basis the shares and savings are reasonable. The average contribution to the capital fund (shares and savings) was BDT 959/member (US\$ 12.30) with a range of BDT 142 (Sapdanga Khal) to 4686 (Swarnakhali Khal) (US\$ 1.82 to US\$ 60.07). As noted above savings are substantially higher than shares with the average per member at BDT 795 and BDT 164 (US\$ 10.20 and US\$ 2.10) respectively.
 26. Increasing the number of shares sold and increasing savings is a priority of the WMCA. Institutional Development Specialists working through the district socio-economists, and sub-project based Community Assistants to foster the formation of micro-credit sub-committees headed by competent females were willing participants can be identified.

4.2 Holding of Weekly, Monthly & Annual General Meetings by WMCA

27. Meetings are the driving force of cooperative societies. The WMCAs, as cooperative society, have to carry out area based weekly meetings, monthly meetings and Annual General Meetings. The Water Management Cooperative Associations, a little different from other cooperatives in nature, composed of large areas generally comprising huge members covering the command area of a small scale water resources subproject. Most of the well performing WMCAs informally carry out area based weekly meeting to regularly communicate with the general members of WMCAs to facilitate awareness campaign, capital generation and for efficiently managing other institutional activities. So far, about 73 WMCAs (67%) carry out weekly meetings on a regular basis. About 122,640 general members attended the meetings in their respective WMCAs.

According to the Cooperative Law, at least one meeting for the managing committee in a month is obligatory. Therefore, the managing committee members of WMCAs carry out monthly meetings, make plans, take decisions and run their organization. 109 WMCAs so far carried out 4,426 monthly meetings where about 48,686 managing committee members attended the monthly meetings.

Annual General Meetings (AGM) are the ones where the managing committee members are accountable to the general members, who are the owners of the WMCA. The sitting managing committee members' present report containing institutional and other activities performed in the previous year and present operational plan and budget of the financial year to come. The general members discuss on the agenda, argue and approve the works performed in the previous year as well as the future plan of action in the AGM. AGM is as a rule due within 60 days of the audit of accounts of a year is passed. Therefore, AGM of the 109 WMCAs for 2015-16 FY has been duly completed.

4.3 Role of WMCA member in construction monitoring

28. Construction monitoring of subproject infrastructures are done by a construction monitoring sub-committee comprising 7 members of which 5 members are from WMCA and 2 members are co-opted from concerned Union Parishad. The sub-committee members were duly trained by the Project to make them well equipped to monitor construction works to ensure quality construction. So far 630 members of construction monitoring subcommittee of 90 WMCAs have been given training. The subcommittee members, after receiving training, have been monitoring construction of subproject structures of their respective subprojects side by side of the LGED and PSSWRS Project technical staffs and thus contributing to ensure quality construction.

4.4 Participation in Operation & Maintenance of Subprojects Infrastructures

29. The main objective of the Project is to develop sustainable stakeholder-driven small scale water resources management systems. Water Management Cooperative Associations (WMCA) under each subproject has been formed involving the local stakeholders with a vision in mind that the WMCA, the stakeholders' organization, would shoulder the responsibility of post project operation, maintenance and management of the subproject infrastructure to make them sustainable.

The WMCAs formed 12-member Operation and Maintenance subcommittee to carry out O&M responsibility. The O&M subcommittee members have been given training on the operation and maintenance issues so that they can have joint walkthrough to prepare the O&M plan and budget effectively, collect O&M fund from the beneficiaries and efficiently carry out O&M of the structures. As of the reporting period, O&M plan was prepared in 99 subprojects. Out of them, Operation and Maintenance fund was created in 68 subprojects. The fund such generated was utilised in 43 subprojects in maintaining both structures and khals. At 13 subprojects, the WMCA members actively participated voluntarily in small O&M activities like removing silt from khal involving 2417 man-days.

4.5 Dissemination of Knowledge on Cooperative & Water Management

30. Project design of PSSWRSP involves bottom up approach and broad-based stakeholders' participation in all stages of subproject development process. Formation of Water Management Cooperative Association, the stakeholders' organization has been made mandatory under every subproject. Capacity building of the WMCA Managing Committee members, different subcommittee leaders and gender section through Agriculture, fisheries, institution building, Operation & Management, gender, books and record keeping, micro credit trainings etc. are done. Objective of capacity building was to make them well equipped so that they can shoulder a two-fold responsibility: social mobilization leading to livelihood improvement through cooperative effort and carry out community based efficient water management and operation and maintenance of the subproject structures.

The WMCA leaders, after receiving training, utilize the knowledge, acquired through training, to improve their livelihood. They also propagate the knowledge to the neighbours and fellow friends through monthly and area based weekly meetings. The general members learn lessons and are encouraged from the experience shared in weekly meetings and seeing demonstration of different successful events. The WMCA members are also taken to well performing successful WMCAs on an experience sharing visit to give them inspirational experience that in consequence encourage them to take initiative for their livelihood improvement and infrastructure operation and maintenance.

5. POVERTY REDUCTION

31. The overall goal of the Project is to support Government's poverty reduction efforts through the increase of sustainable agricultural production as noted in the introduction. At the institutional level, through the WMCA's, the introduction of micro-credit using the funds accrued in capital formation, skills enhancement and employment working on sub-project O&M also have the potential to reduce poverty through livelihood enhancement especially for the poorer members of the beneficiary community.

5.1 Micro-credit

32. Micro Credit Schemes have been started at 72 out of 109 subprojects using the Water Management Cooperative Associations capital fund to make small loans to members. Micro-credit development is important for WMCA capital formation and to provide loans to members, especially from poorer sections of the community, to create income generating opportunities and improve their livelihoods. At the end of June, 2017, micro credit loans totalling BDT 77451070 (US\$ 992962.44) had been made to 4459 members, 1415 females (38.46%) and 2744 males. For these 72 subprojects, the average loan disbursed was BDT 1075709 (US\$ 13791.14) and the average value of a loan BDT 17370 (US\$ 222.69).

33. Flat rate interest is charged, typically 10% to 15% which differs from one subproject to other. The mode of repayment of loan also varies based on the type of income generating activities the loanee carries out. Small loans invested in IGA's where regular earnings are assured are repaid on weekly basis paid in 46 instalments. Comparatively large scale investments like fish culture, beef fattening etc. are repaid on monthly basis in 12 instalments. The agricultural loans, on the other hand are charged on half yearly basis based on the cropping seasons such as Aman, Boro, etc. This type of loan is operated twice a year.

5.1.1 Selection Criteria for Eligibly of Credit Distribution

34. Selection criterion for credit distribution to the eligible members is generally determined by concerned WMCA. The WMCA are encouraged to follow the selection criterion mentioned in the recently formulated micro credit/micro savings guideline issued to them. However, the main criterion the WMCAs usually follow to select probable loanee are:

- The applicant is a member and regularly attends weekly meetings.
- She/he is sincere, hard working and honest person.
- She/he deposits weekly/monthly savings on regular basis.
- She/he has requisite experience and expertise for the income generating activities.
- Two guarantor will certify the application
- To give priority to women specially destitute / widow member.

5.2 Subproject Based Employment Opportunities

35. Earthwork for khal excavation and embankment strengthening through Labor Contracting Societies provide employment opportunities to rural poor, men and women. For the 99 subprojects out of 109, the earthwork investment averaged BDT 8167019/subproject (US\$ 104705). For the 99 subprojects out of 109 a total of 1806 LCSs were engaged, on an average 18 LCS per subproject, employing a total of 43475 people including 14684 females (33.78%). The total Investment in earthwork using LCSs was BDT 808534875 (US\$ 10365832) an estimated average gross remuneration of BDT 18598 per member (US\$ 238).

36. Earthwork is frequently completed in a single dry season. Longer-term and more sustainable employment will result from infrastructure maintenance activities, from increases in agriculture production, and from increases in fish production.

Table 3: Labor Contracting Societies, Members Disaggregated by Gender

Sl. No.	No. of SPs	Name of Subproject	Type	Name of District/Upazila	LCS for Earth works									
					No. of LCS Group	Membership (no.)			Working Days (no.)			Paid up Amount as per Contract (Tk.)		
						Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
1	41001	Nimai Khari Khal	WCD	Dinajpur/ Sadar	12	200	100	300	12,000	6,000	18,000	2,343,138	1,171,569	3,514,707
2	41002	Purba Sarail Madhai Khal	WCD	Joypurhat/ Kalai	10	167	83	250	10,000	5,000	15,000	2,659,847	1,329,924	3,989,771
3	41003	Baika-Barahapania	FMD	Manikganj/ Harirampur	7	117	58	175	7,000	3,500	10,500	2,070,928	1,035,464	3106392
4	41004	Chak Govindapur-Aldadpur	WCD	Gaibandha/ Sadullapur	2	33	17	50	2,000	1,000	3,000	479,215	239,608	718,823
5	41005	Kanakdia FMD	FMD	Patuakhali/ Bauphal	27	450	225	675	27,000	13,500	40,500	10,580,315	5,290,158	15,870,473
6	41006	Bhelabari Durgapur	WC (RD)	Lalmonirhat/ Aditmari										
7	41007	Harwalchari	WC (RD)	Chittagong/ Fatikchhari										
8	41008	Goshinga-Sitalakha	CAD	Gazipur/ Sreepur										
9	41009	Kusta Thakurkandi FMD	FMD	Manikganj/ Gheor	8	133	67	200	8,000	4,000	12,000	1,711,316	855,658	2,566,974
10	41010	Swarnakhali Khal	FMD	Dhaka/ Dhamrai	7	117	58	175	7,000	3,500	10,500	1,126,172	563,086	1,689,258
11	41011	Noapara-Hazirdhara	WCD	Rajshahi/ Puthia	3	50	25	75	3,000	1,500	4,500	819,777	409,889	1,229,666
12	42013	South-Gohat	CAD	Chandpur/ Kachua	12	200	100	300	12,000	6,000	18,000	3,742,209	1,871,105	5613314
13	42014	Udura Khal	CAD	Chandpur/ Kachua	14	233	117	350	14,000	7,000	21,000	4,543,733	2,271,867	6815600
14	42015	Sunduri Khal	CAD	Chandpur/ Kachua	15	250	125	375	15,000	7,500	22,500	5,885,867	2,942,933	8828800
15	42016	Gabua Fultala	WCD	Barguna/ Betagi	35	583	292	875	35,000	17,500	52,500	11,153,473	5,576,737	16730210
16	42017	Nabinpur-Dholar Beel	FMD	Meherpur/ Gangni	11	183	92	275	11,000	5,500	16,500	2,891,511	1,445,756	4337267
17	42018	Kata Khal	FMD	Meherpur/ Mujibnagar	1	17	8	25	1,000	500	1,500	327,333	163,667	491000
18	42020	Ulushikhal	WCD	Sirajganj/ Tarash	15	250	125	375	15,000	7,500	22,500	5,106,905	2,553,453	7660358
19	42021	Fasiakhali Irrigation	CAD	Cox's Bazar/ Chakoria										
20	42022	Sapleza DR-1	DR	Pirojpur/ Mathbaria	26	433	217	650	26,000	13,000	39,000	6,853,659	3,426,829	10280488
21	42023	Jalabaria DR-1	DR	Pirojpur/ Nesarabad	27	450	225	675	27,000	13,500	40,500	6,998,716	3,499,358	10498074
22	42024	Nishanbaria-Gazimahmud	DR	Barguna/ Sadar	75	1,250	625	1,875	37,500	18,750	56,250	7,397,855	3,698,928	11096783
23	42025	Kujail-Sodakhali-Ractodoha	WCD	Naogaon/ Raninagar & Atrai	14	233	117	350	14,000	7,000	21,000	5,464,535	2,732,268	8196803
24	42026	Ratan Dare (Sodhakhal to Jhanjhania)	WCD	Naogaon/ Raninagar & Atrai	12	200	100	300	12,000	6,000	18,000	3,098,360	1,549,180	4647540
25	42027	Nuruddin Khal	WCD	Pabna/ Sujanagar	5	83	42	125	5,000	2,500	7,500	1,536,385	768,192	2304577
26	43028	Sapdanga Khal WC & DR	WCD	Pabna/ Atghoria	3	50	25	75	3,000	1,500	4,500	935,201	467,601	1402802
27	43029	Burichar-Nur Ali Charakgachhia	WCD	Barguna/ Sadar	14	233	117	350	14,000	7,000	21,000	4,219,324	2,109,662	6328986
28	43030	Aylapatakata DR-1	DR	Barguna/ Sadar	19	317	158	475	19,000	9,500	28,500	5,190,344	2,595,172	7785516

Sl. No.	No. of SPS	Name of Subproject	Type	Name of District/Upazila	LCS for Earth works									
					No. of LCS Group	Membership (no.)			Working Days (no.)			Paid up Amount as per Contract (Tk.)		
						Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
29	43031	Belgapur-Julupara	DR	Naogaon/ Niamatpur	22	367	183	550	22,000	11,000	33,000	9,115,406	4,557,703	13673109
30	43032	Samaspara-Chalk Temukh-Islamgati	FMD	Naogaon/ Atrai	12	200	100	300	12,000	6,000	18,000	4,498,232	2,249,116	6747348
31	43033	Santoshpara-Chatra	DR	Naogaon/ Niamatpur	23	383	192	575	23,000	11,500	34,500	9,682,390	4,841,195	14,523,585
32	43034	Potka Khali DR & Irri.	DR	Barguna/ Sadar	13	217	108	325	13,000	6,500	19,500	4,009,477	2,004,739	6014216
33	43035	Goal Kandi-Daturbari	FMD	Gaibandha/ Gobindaganj	18	300	150	450	18,000	9,000	27,000	3,541,196	1,770,598	5,311,794
34	43036	Badrabati (South)	DR	Sirajganj/ Tarash	52	867	433	1,300	52,000	26,000	78,000	18,186,526	9,093,263	27,279,789
35	43037	Badrabati (North)	DR	Sirajganj/ Tarash	28	467	233	700	28,000	14,000	42,000	9,329,182	4,664,591	13,993,773
36	43038	Silaur-Dogangy SP	DR	Brahmanbaria/ Sadar	11	183	92	275	11,000	5,500	16,500	3,967,251	1,983,626	5,950,877
37	43039	Ghughudima-Khutbatala	CAD	Chapai Nawabganj/ Sadar										
38	43040	Singkhali	DR	Barguna/ Amtoly	21	350	175	525	21,000	10,500	31,500	6,612,071	3,306,036	9918107
39	43041	Sonbunia Subproject	DR	Barguna/ Sadar	7	117	58	175	7,000	3,500	10,500	2,827,601	1,413,801	4241402
40	43042	Atrai-Burigang Subproject	DR	Naogaon/ Atrai	12	200	100	300	12,000	6,000	18,000	5,054,193	2,527,097	7,581,290
41	43043	Dehergati	DR	Barisal/ Babuganj	20	333	167	500	20,000	10,000	30,000	7,966,645	3,983,322	11949967
42	43044	Garabunia	DR	Barguna/ Amtoly	12	200	100	300	12,000	6,000	18,000	3,131,832	1,565,916	4697748
43	43045	Pok Khali-Naikkhongdia	WC (RD)	Cox's Bazar/ Sadar										
44	43046	Thimchari-Purbakul	WC (RD)	Cox's Bazar/ Ukhia										
45	43047	Pashchim Dighulia	WC (RD)	Cox's Bazar/ Ukhia										
46	43048	Deshantorkathi-Garabunia	DR	Barguna/ Betagi	25	417	208	625	25,000	12,500	37,500	7,121,038	3,560,519	10681557
47	43049	Kapila-Krishnapur	DR	Barisal/Bakerganj	25	417	208	625	25,000	12,500	37,500	9,730,100	4,865,050	14595150
48	43050	Madhya-Purba Rajapur	DR	Patuakhali/ Bauphal	19	317	158	475	19,000	9,500	28,500	6,421,201	3,210,601	9,631,802
49	43051	Monirjheel-Sonaichhari Khal	WC (RD)	Cox's Bazar/ Ramu										
50	43054	Mofizan Khal	WCD	Gaibandha/ Saghata	18	300	150	450	10,500	5,250	15,750	2,043,880	1,021,940	3,065,820
51	43055	Dholdholia	FMD	Gaibandha/ Saghata	14	233	117	350	14,000	7,000	21,000	5,358,953	2,679,477	8038430
52	43056	Latifpur-Etbarpur Khal	DR	Comilla/ Chandina	16	267	133	400	16,000	8,000	24,000	4,974,870	2,487,435	7462305
53	43057	Adabaria	FMD	Patuakhali/ Bauphal	9	150	75	225	9,000	4,500	13,500	2,633,590	1,316,795	3950385
54	43058	Sabupura	DR	Patuakhali/ Bauphal	14	233	117	350	14,000	7,000	21,000	4,307,071	2,153,535	6460606
55	43059	Kedarpur-Gobindapur	WCD	Comilla/ Chandina	23	383	192	575	23,000	11,500	34,500	7,084,021	3,542,011	10,626,032
56	43060	Ponahura FMD & WC	FMD	Patuakhali/ Bauphal	14	233	117	350	14,000	7,000	21,000	4,892,127	2,446,063	7338190
57	43061	Bhagalpur Montola	FMD	Sirajganj/ Ullapara	58	967	483	1,450	58,000	29,000	87,000	17,806,195	8,903,097	26,709,292
58	43062	Gouripur	DR	Pirojpur/ Bhandaria	23	383	192	575	23,000	11,500	34,500	6,383,269	3,191,635	9,574,904

Sl. No.	No. of SPS	Name of Subproject	Type	Name of District/Upazila	LCS for Earth works									
					No. of LCS Group	Membership (no.)			Working Days (no.)			Paid up Amount as per Contract (Tk.)		
						Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
59	43063	Kathurakandi Khal	WCD	Jessore/ Bagherpara	1	17	8	25	1,000	500	1,500	232,868	116,434	349,302
60	43064	Dier Khal	FMD	Bagerhat/ Sadar	13	217	108	325	13,000	6,500	19,500	3,458,217	1,729,108	5,187,325
61	43065	Bhangakha-Nyamatpur	WCD	Laxmipur/ Sadar	7	117	58	175	7,000	3,500	10,500	1,766,449	883,224	2649673
62	43066	Bhelumia	DR	Bhola/ Sadar	26	433	217	650	26,000	13,000	39,000	8,653,387	4,326,693	12,980,080
63	43067	Purba Char Madras	DR	Bhola/ Charfession	27	450	225	675	27,000	13,500	40,500	9,194,368	4,597,184	13,791,552
64	43068	Pashcim Char Madras	DR	Bhola/ Charfession	35	583	292	875	35,000	17,500	52,500	12,263,091	6,131,546	18,394,637
65	43069	Char Samaia	DR	Bhola/ Sadar	14	233	117	350	14,000	7,000	21,000	4,453,491	2,226,746	6,680,237
66	43070	Panchagram	DR	Jhalokathi/ Nalchhiti	28	467	233	700	28,000	14,000	42,000	9,143,762	4,571,881	13715643
67	43071	Bokrabari	WCD	Rangpur/ Mithapukur	11	183	92	275	11,000	5,500	16,500	3,537,935	1,768,967	5306902
68	43072	Pathuria Kalibari	FMD	Bagerhat/ Morelganj	31	517	258	775	31,000	15,500	46,500	9,332,447	4,666,224	13,998,671
69	44074	Swarupdaha Dhunar Khal	WCD	Jessore/ Chowgachha	2	33	17	50	2,000	1,000	3,000	600,041	300,020	900,061
70	44075	Losnabad Phalaghar	DR	Barisal/ Bakerganj	26	433	217	650	26,000	13,000	39,000	7,233,668	3,616,834	10850502
71	44077	Saorakathi	DR	Jhalokathi/ Sadar	21	350	175	525	21,000	10,500	31,500	7,163,053	3,581,527	10,744,580
72	44078	Dhonkundi Beel	FMD	Bogra/ Sherpur	1	17	8	25	1,000	500	1,500	273,913	136,956	410,869
73	44080	Challish kahania	DR	Jhalokathi/ Rajapur	25	417	208	625	25,000	12,500	37,500	7,071,617	3,535,809	10607426
74	44081	Thakurmallik	DR	Barisal/ Bakerganj	29	483	242	725	29,000	14,500	43,500	8,516,587	4,258,294	12774881
75	44083	Amua Patikhalghata	DR	Jhalokathi/ Kathali	27	450	225	675	27,000	13,500	40,500	7,552,287	3,776,144	11328431
76	44084	Sitly Khal	DR	Jhenaidah/ Harinakunda	11	183	92	275	11,000	5,500	16,500	3,247,085	1,623,542	4,870,627
77	44092	Faridpur-Badurerjan	FMD	Rangpur/ Mithapukur	7	117	58	175	3,500	1,750	5,250	566,040	283,020	849060
78	44093	Pashchim Joar	CAD	Chittagong/ Mirersarai										
79	44094	Shree Khal	WCD	Joypurhat/ Akkelpur	14	233	117	350	14,000	7,000	21,000	4,101,489	2,050,745	6152234
80	44095	Kalapania Khal	WCD	Chittagong/ Fatikchhari	4	67	33	100	4,000	2,000	6,000	970,667	485,333	1456000
81	44097	Dudhal	FMD	Barisal/ Bakerganj	10	167	83	250	10,000	5,000	15,000	6,117,189	3,058,595	9175784
82	44101	Bondukkhali Khal	FMD	Meherpur/ Sadar	2	33	17	50	2,000	1,000	3,000	468,634	234,317	702,951
83	44103	Gotkhali Chalitabunia	DR	Barguna/ Amtoly	24	400	200	600	24,000	12,000	36,000	7,103,797	3,551,899	10655696
84	44104	Sarengal	DR	Jhalokathi/ Sadar	26	433	217	650	26,000	13,000	39,000	6,429,112	3,214,556	9643668
85	44106	Sachilapur	DR	Jhalokathi/ Sadar	21	350	175	525	21,000	10,500	31,500	5,633,471	2,816,735	8450206
86	44107	Amail Indail	WCD	Bogra/ Adamdighi	19	317	158	475	19,000	9,500	28,500	4,234,598	2,117,299	6351897
87	44111	Kashipur	DR	Barisal/ Sadar	35	583	292	875	35,000	17,500	52,500	10,581,764	5,290,882	15872646
88	44112	Harirampur Beel	FMD	Meherpur/ Sadar	7	117	58	175	7,000	3,500	10,500	2,508,818	1,254,409	3,763,227

Sl. No.	No. of SPs	Name of Subproject	Type	Name of District/Upazila	LCS for Earth works									
					No. of LCS Group	Membership (no.)			Working Days (no.)			Paid up Amount as per Contract (Tk.)		
						Male	Female	Total	Male	Female	Total	Male	Female	Total
1	2	3	4	5	7	8	9	10	11	12	13	14	15	16
89	44113	Jhirai Bridge-Jangalpara Khal	FMD	Gaibandha/ Gobindaganj	12	200	100	300	12,000	6,000	18,000	4,084,025	2,042,012	6,126,037
90	44117	Deulkathi-Binnapara	DR	Jhalokathi/ Sadar	23	383	192	575	23,000	11,500	34,500	7,322,729	3,661,365	10984094
91	44119	Bangla Bazar-Gopalpur	WCD	Noakhali/ Begumganj	13	217	108	325	13,000	6,500	19,500	3,341,951	1,670,975	5,012,926
92	44125	Chakhar	DR	Barisal/ Banaripara	32	533	267	800	32,000	16,000	48,000	9,492,411	4,746,205	14,238,616
93	44127	Haripasha-Pironda	DR	Jhalokathi/ Sadar	30	500	250	750	30,000	15,000	45,000	8,360,257	4,180,128	12540385
94	44130	Purandar Vushan Chandrer Bari-Sarbeshwar Ghat	WCD	Gaibandha/Gobindaganj	8	133	67	200	8,000	4,000	12,000	2,597,549	1,298,774	3,896,323
95	44131	Guarekha	DR	Pirojpur/ Nesarabad	22	367	183	550	22,000	11,000	33,000	6,177,674	3,088,837	9266511
96	44135	Debdun Bauisona Khal	WCD	Narail/ Kalia	7	117	58	175	7,000	3,500	10,500	1,465,933	732,967	2,198,900
97	44136	Paschim Chhayam Takta	DR	Barisal/ Mehendiganj	18	300	150	450	18,000	9,000	27,000	4,916,111	2,458,056	7,374,167
98	44143	Hetalia-Ballabhpur	DR	Patuakhali/ Sadar	28	467	233	700	28,000	14,000	42,000	8,059,446	4,029,723	12089169
99	45145	Naimuri Alidaha	WCD	Sirajganj/ Ullapara	22	367	183	550	22,000	11,000	33,000	7,744,133	3,872,067	11,616,200
100	45148	Bottola Khal SP	WCD	Jhalokathi/ Nalcity	26	433	217	650	26,000	13,000	39,000	8,063,203	4,031,601	12094804
101	45150	Chandpasha	WCD	Barisal/ Babuganj	22	367	183	550	22,000	11,000	33,000	6,245,551	3,122,775	9368326
102	45152	Biddanandapur	DR	Barisal/ Mehendiganj	17	283	142	425	17,000	8,500	25,500	4,208,934	2,104,467	6313401
103	45157	Satail Beel	DR	Natore/ Boraigram	10	167	83	250	10,000	5,000	15,000	2,841,685	1,420,842	4,262,527
104	45168	Chalitabunia	WCD	Pirojpur/Mathbaria	23	383	192	575	23,000	11,500	34,500	6,648,097	3,324,049	9972146
105	45173	Charadi	WCD	Barisal/Bakerganj	23	383	192	575	23,000	11,500	34,500	7,217,314	3,608,657	10,825,971
106	45180	Tengrakhali Char Tengra	WCD	Bagerhat/Kachua & Sadar	19	317	158	475	19,000	9,500	28,500	4,984,241	2,492,120	7,476,361
107	45205	Napitkhali-Burirchar Khal	DR	Barguna/Sadar	16	267	133	400	16,000	8,000	24,000	4,702,472	2,351,236	7,053,708
108	45211	Uttampur	DR	Barisal/Bakerganj	16	267	133	400	16,000	8,000	24,000	4,790,757	2,395,379	7,186,136
109	46240	Amtoly-Ruhita-Potkakhali	DR	Barguna/ Bamna	32	533	267	800	32,000	16,000	48,000	9,534,493	4,767,246	14,301,739

Source: Project studies

Total	1806	30100	15050	45150	1757500	878750	2636250	539023250	269511625	808534875
Average	18.2	304	152	456.1	17752.53	8876.263	26628.79	5444679.29	2722339.646	8167018.939
Range:										
Minimum	1	17	8	25	1,000	500	1,500	232,868	116,434	349,302
Maximum	75	1,250	625	1,875	58,000	29,000	87,000	18,186,526	9,093,263	27,279,789
LCS SPs	99	99	99	99	99	99	99	99	99	99

5.3 Skill Development and Empowerment

37. Skill development and empowerment play an important role in providing individuals with better control over their economic and social environment. Beneficiary skill development is extensive, in the context of this study it is reviewed in relation to training for natural resource management (agriculture and fisheries) provided by the Project. Empowerment comes through participation and through the networks that are established for and by, local stakeholders with various government and non-government agencies.

5.3.1 Agricultural Development

38. Selected beneficiary farmers are provided with 12 agricultural training courses including: Agriculture Resource Management (Value Chain Management); Agriculture Demonstration (One season); Agriculture Production & Land Use Plan Preparation; Agriculture Resource Management (Soil, land, water); Demand led seed production, processing & preservation; Demand led training (on farm water management); Integrated crop management; Mapping land & water use; Review of SP Agriculture Development & Effect Monitoring; Sustainable Agriculture Production; Women on farm IGAs: Duck, Poultry & Cattle and Women on farm IGAs: Vegetable Cultivation. **Table B5** summarizes the agricultural training provided to selected beneficiaries and it is detailed by sub-project. The training has the potential to translate into increased agricultural production and productivity, which increases farm incomes and generates employment opportunities. It also has an important role in sub-project sustainability by generating increased income that will provide an incentive for beneficiaries to contribute to funding and carrying out operation and maintenance.
39. In total 13146 beneficiaries including 5361 females (40.78%) from the sub-projects attended training courses. The number of agricultural training courses provided to a WMCA varied from 1 to 11 (**Table B5**).

5.3.2 Fisheries Development

40. The Project also provides training to fishers to enhance their skills related to aquaculture including: Fisheries Program Management Course; Fish Production Technology (Pond Fish); Rice Fish Culture; Fish Production Technology (Tilapia); Fish Production Technology (Shing-Magur); Fisheries Extension Support for Fish Production; Fish Production Technology (Fingerling); Fish Production Technology(Golda); Pond Fish & Fingerling Production for Women; Fisheries Refresher Training(ongoing subproject) and On-site Fisheries Training. **Table B6** summarizes training courses conducted. In total 5776 trainees including 1645 females (28.48%) from 93 WMCAs attended 11 different training courses. The number of training courses provided to WMCA members varied between 1 and 8. Details by sub-project presented in **Table B6** show that only 93 of the 109 sub-projects in the EME study received training.

6. AGRICULTURE PERFORMANCE ASSESSMENT

6.1 INTRODUCTION

41. The crop information presented is for: (i) Rabi or winter crop season (Mid December 2016 through March 2017); (ii) Kharif-I or pre-monsoon crop season (April 2016 through July 2016) and (iii) Kharif-II or monsoon crop season (July 2016 through mid December 2016). Subprojects that covered all the three cropping seasons in a year were considered for assessment following completion of construction. The numbers of subprojects taken into account in this assessment were 109 (one hundred nine). Data are compared with the baseline, which represents the pre-project situation as estimated at feasibility. The purpose of the annual Effect Monitoring and Evaluation (EME) reports is to document the changes in agriculture production that have occurred as a result of the investments in water management infrastructure in subprojects completed under the

Participatory Small Scale Water Resources Sector Project (PSSWRSP). Efforts are also made to provide some insight into the overall institutional strength of the respective water management cooperative associations and the operational status of these subprojects.

42. The agriculture performance assessment includes the anticipated benefits of the sub-project interventions that will vary with the type of sub-project. There are three main components that individually or in combination cover all sub-project types. Four broad impacts include:
- Drainage will reduce flood damage to standing crops and facilitate timely land preparation and planting;
 - Flood Management will reduce or prevent flood damage to standing crops and facilitate timely planting; and
 - Water conservation will facilitate Rabi season irrigation and supplementary irrigation in the Kharif-I and Kharif-II seasons. Sub-project in sweet water tidal zones are classed as water conservation although water is not conserved (retained).
 - Command Area Development (CAD) is expected to supply irrigation water for the cultivation of Cereal Specially Boro rice, Oilseeds and Vegetables etc. crops in dry season.
43. The impacts are evaluated by estimated changes in cropped area, cropping intensity, crop production and crop yield.

6.2 OVERVIEW OF IMPACTS ON AGRICULTURAL DEVELOPMENT

44. The cropped area, cropping intensity and incremental crop production shows increased in all seasons; summary data is shown for the Rabi, Kharif-I and Kharif-II seasons in **Table 4.1-4.4** and **Figure 3-6**. Sub-project wise Agriculture Land Use in 2016-17 is presented in **Attachment-1**.
45. Rabi season (2016-2017) post-project cropping was carried out at all 109 sub-projects. The estimated total incremental increase in cropped area was 11994.4 ha to 64471.2 ha from a pre-project base of 52476.8 ha. The average incremental increase in cropping intensity was 17.7% to 95.30% from a pre-project base of 77.6%. The incremental increase in crop production was 85114.0 metric tons to 373372.9 metric tons from a pre-project base of 288258.9 metric tons (**Table-4.1**).

Table 4.1: Pre and Post Subproject Cropped Area (ha), Cropping Intensity (%) and Crop production of Rabi Season 2016-17

Cropped Area (ha)				Cropping Intensity (%)			Crop Production (mt)		
Net Area (ha)	Pre-Project	Post-Project	Incremental	Pre-Project	Post-Project	Incremental	Pre-Project	Post-Project	Incremental
Total 67653.0	52476.8	64471.2	11994.4	77.6	95.3	17.7	288258.9	373372.9	85114.0
SP Average 620.7	481.4	591.5	110.0				2644.6	3425.4	780.9

Source: Project studies (**Annexure Table-C.1 & C.5**)

46. Kharif-I season (2016) post-project cropping was carried out at all 109 sub-projects. The estimated total incremental increase in cropped area was 4307.7 ha to 21499.2 ha from a pre-project base of 17191.6 ha. The average incremental increase in cropping intensity was 6.4% to 31.8% from a pre-project base of 25.4%. The incremental increase in crop production was 20293.9 metric tons to 69857.7 metric tons from a pre-project base of 49563.8 metric tons (**Table 4.2**).

Table 4.2: Pre-and Post Subproject Cropped Area (ha), Cropping Intensity (%) and Crop production of Kharif-I Season 2016.

Cropped Area (ha)				Cropping Intensity (%)			Crop Production (mt)		
Net Area (ha)	Pre-Project	Post-Project	Incremental	Pre-Project	Post-Project	Incremental	Pre-Project	Post-Project	Incremental
Total 67653.0	17191.6	21499.2	307.7	25.4	31.8	6.4	49563.8	69857.7	20293.9
SP Average 620.7	124.3	197.2	39.5				454.7	640.9	186.2

Source: Project studies (**Annexure Table-C.2 & C.6**)

47. Kharif-II season (2016) post-project cropping was carried out at all 109 sub-projects. The estimated total incremental increase in cropped area was 4950.4 ha to 54569.7 ha from a pre-project base of 49619.4 ha. The average incremental increase in cropping intensity was 7.4% to 80.7% from a pre-project base of 73.3%. The incremental increase in crop production was 37681.5 metric tons to 193757.9 metric tons from a pre-project base of 156076.4 metric tons (**Table 4.3**).

Table 4.3: Pre-and Post Subproject Cropped Area (ha), Cropping Intensity (%) and Crop production of Kharif-II Season 2016

Cropped Area (ha)				Cropping Intensity (%)			Crop Production (mt)		
Net Area (ha)	Pre-Project	Post-Project	Incremental	Pre-Project	Post-Project	Incremental	Pre-Project	Post-Project	Incremental
Total 67653.0	49619.6	54569.7	4950.4	73.3	80.7	7.4	156076.4	193757.9	37681.5
SP Average 620.7	455.2	500.6	45.4				1431.9	1777.6	345.7

Source: Project studies (**Annexure Table-C.3 & C.7**)

6.3 SEASONAL CROPPED AREA BY CROP SEASON CATEGORY

48. **Figure 3** shows the seasonal cropped area and incremental changes in the cropped area by “crop” Season category.

49. The cropped area increased in all three seasons by 21252.40 ha (17.82%) from a pre-project area of 119287.70 ha. The main increase accounted for an increase of 14605.60 ha in cereal. The cultivated area of non-cereal crops had an incremental increase of 6646.80 ha (23.94%) with the cropped area increasing to 34409.5 ha from a pre-project level of 27762.70 ha (**Figure-3**).

50. The largest incremental increase was in the Rabi season (2016-17) with an incremental increase in the cropped area of (6356.70+5637.70) 11994.40 ha (56.44%); a net sub-project average increase of 110.00 ha. The main incremental increase was in the area of cereal crops 6356.70 (**Figure 1**). There was a small incremental increase in the cultivated area of non-cereal crops of 429.10 ha in Kharif-II (**Figure-3**).

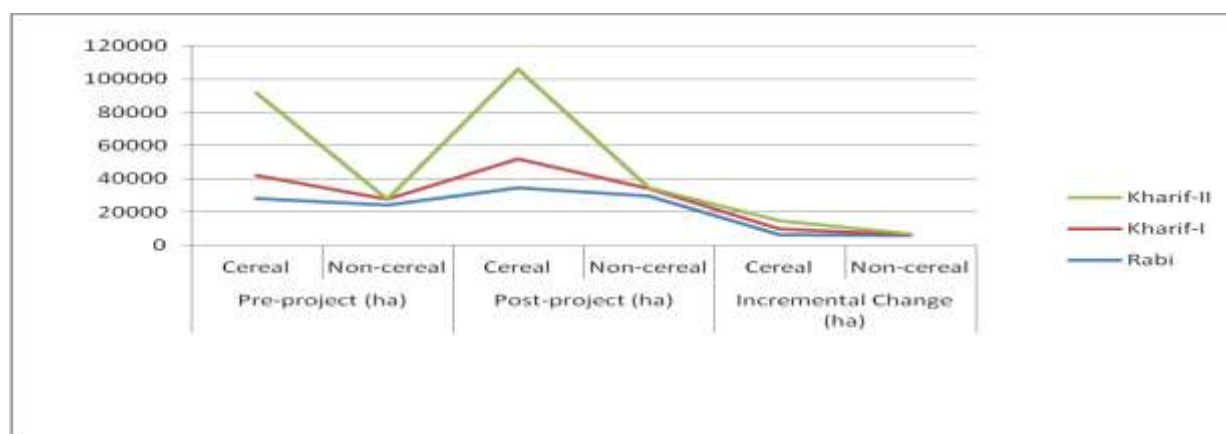
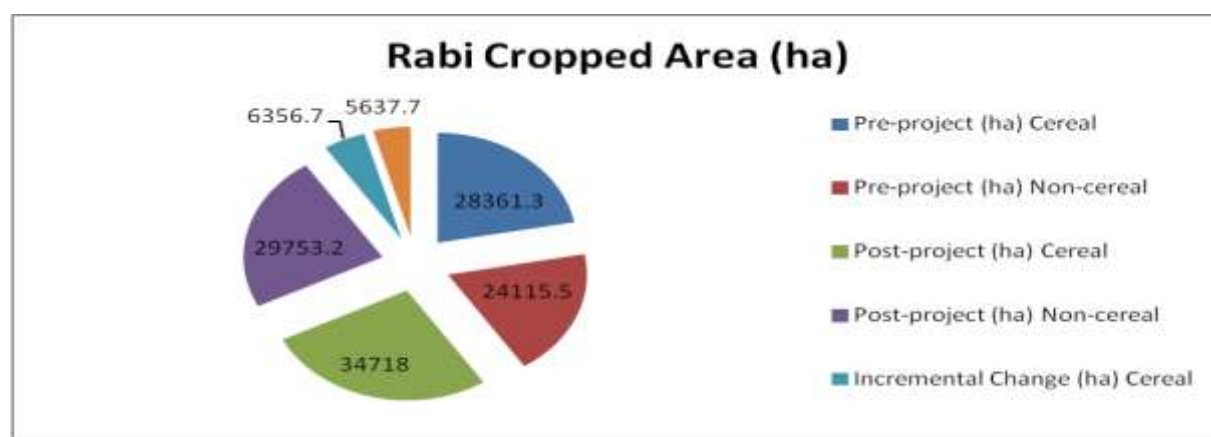
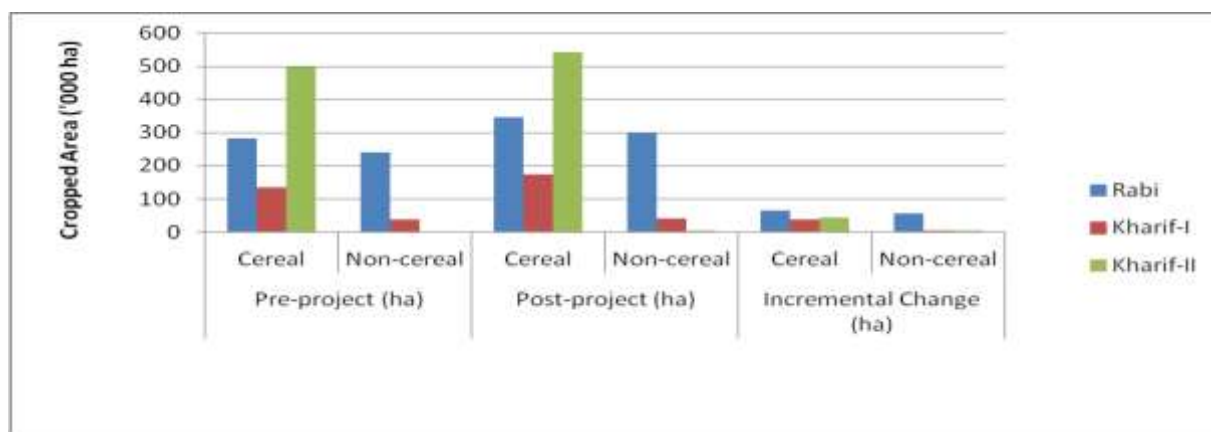
51. The incremental increase in cropped area in Kharif-I season was (3727.80+579.90) 4307.7 ha (20.27%), a net average incremental increase of 39.5 ha per sub-project. The main increase was in the cropped area of cereal 3727.80 ha while the increase in non-cereal crops was 579.90 ha (**Figure-3**).

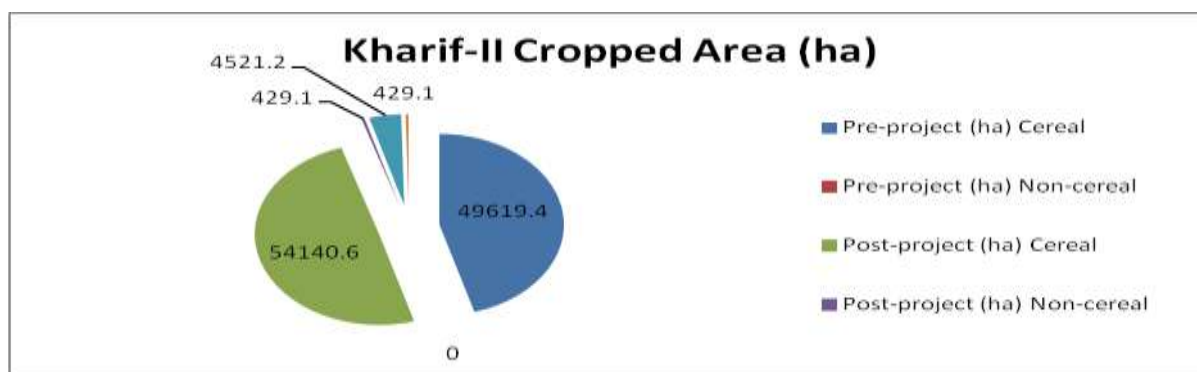
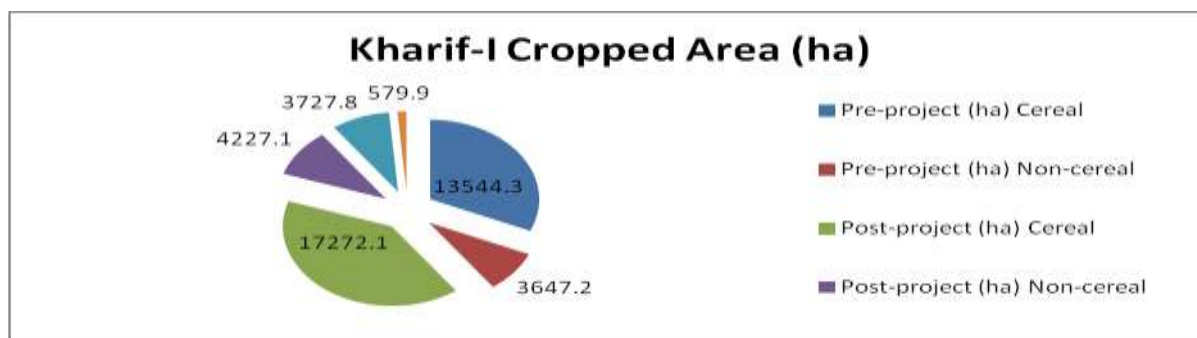
52. The incremental increase in cropped area in Kharif-II season was (4521.20+429.10) 4950.40 ha (23.29%); a net sub-project average increase of 45.4 ha (**Figure-3**). The main incremental increase was in the area of cereal crops 4521.20 ha while the increase in non-cereal 429.10 ha (**Figure-3**).

Figure-3: Pre and Post Subproject Cropped Area (ha) by “Crop Season” Category and Incremental Change in Area (ha)

Cropping Season	Pre-project (ha)		Post-project (ha)		Incremental Change (ha)	
	Cereal	Non-cereal	Cereal	Non-cereal	Cereal	Non-cereal
Rabi	28361.3	24115.5	34718.0	29753.2	6356.7	5637.7
Kharif-I	13544.3	3647.2	17272.1	4227.1	3727.8	579.9
Kharif-II	49619.4	0.0	54140.6	429.1	4521.2	429.1
Sub-Total	91525.0	27762.7	106130.7	34409.5	14605.6	6646.8
Total	119287.7		140540.1		21252.4	

Source: Project studies (Annexure Table-C.1, C.2 & C.3)





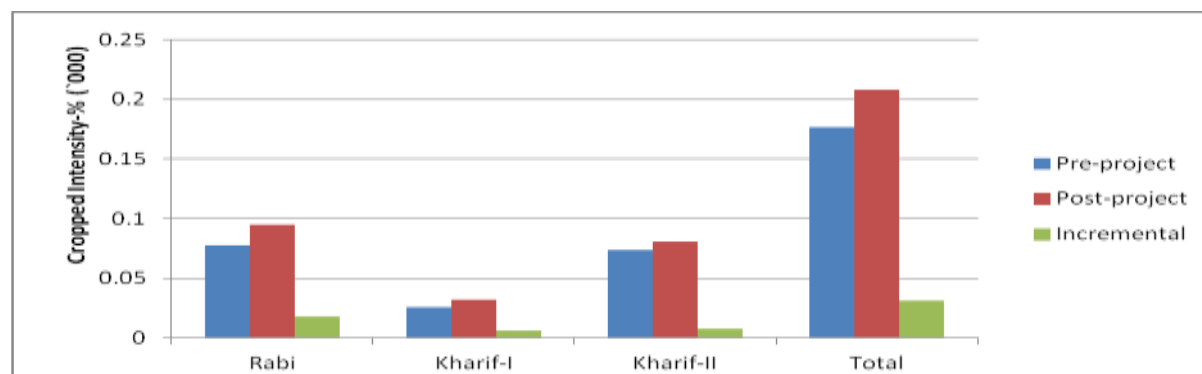
6.4 Average Seasonal Incremental Cropping Intensity

53. The sub-project average seasonal incremental changes in cropping intensity are presented in **Figure-2**. The largest incremental increase was in the Rabi season with 17.70% increase to 95.30% from a pre-project cropping intensity of 77.60%. Incremental changes in the Kharif seasons were relatively small 6.40% and 7.40% for Kharif-I and Kharif-II, respectively; post-project cropping intensity in Kharif-II was 80.70%.

Figure-4: Sub-project Average Seasonal Cropping Intensity and Incremental Change in Cropping Intensity (%)

Cropping Season	Pre-project	2016-2017	Incremental
Rabi	77.6	95.3	17.7
Kharif-I	25.4	31.8	6.4
Kharif-II	73.3	80.7	7.4
Total	176.3	207.8	31.5

Source: Project studies



6.5 Seasonal Crop Production

1. A summary of relative change decrease, no change and increase of crop production is presented in **Table 4.4**. The data shows that cereal and non-cereal production increase in most of the three crop seasons. Cereal crop production increased in the Rabi season in 90 sub-projects, in the Kharif-I season in 38 sub-projects and in the Kharif-II season in 83 sub-projects. The non-cereal crop production increased in the Rabi, Kharif-I and Kharif-II seasons in 98, 11 and 05 sub-projects, respectively. No change was observed in Rabi, Kharif-I and Kharif-II in cereal 17, 69 & 16 sub-projects, respectively. Decrease in cereal was observed in the Rabi, Kharif-I and Kharif-II seasons in 02, 02 & 10 sub-project respectively. In non-cereal decrease was observed in Rabi & Kharif-I in 04 & 04 sub-projects respectively.

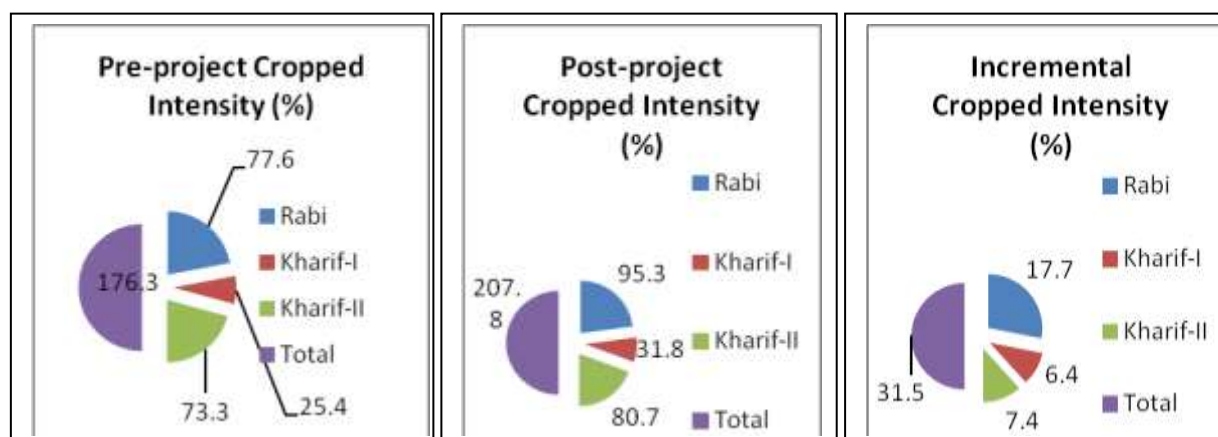


Table-4.4: Relative Changes in Production by Season

Change	Rabi (2016-17)		Kharif-I Pre-monsoon (2016)		Kharif-II Monsoon (2016)	
	Cereal	Non-cereal	Cereal	Non-cereal	Cereal	Non-cereal
Decrease	02	04	02	04	10	---
No change	17	07	69	95	16	104
Increase	90	98	38	11	83	05
Total	109	109	109	109	109	109

Source: Project studies (**Annexure Table-C.1, C.2 & C.3**)

54. The total crop production pre and post project for the three seasons are summarized in **Figure-5**.

The pre-project estimated total crop production was 493899.20 metric tons with 333830.30 metric tons (67.59%) accounted for from the cereal crop. The main cereal crop production season was in Kharif-II season where 156076.40 metric tons (31.60%) were produced. Rabi was the main season for production of the non-cereal crop producing 151187.10 metric tons (94.45%) of the total production of 160068.90 metric tons.

The post-project estimated total crop production for the three seasons was 639688.50 metric tons. Cereal production was 428053.50 metric tons (66.92%) with Kharif-II the main season production of overall 190330.10 metric tons (29.75%) of the total cereal production. Non-cereals crops were mainly produced in the Rabi season 193512.40 metric tons (92.62%) of the total production of 208935.00 metric tons.

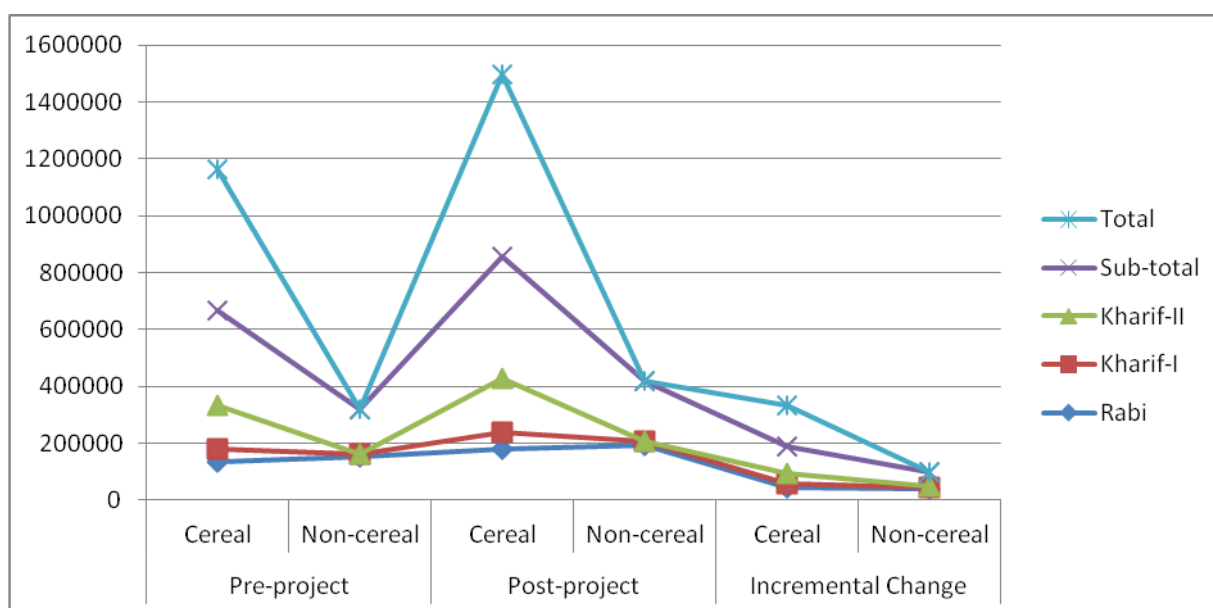
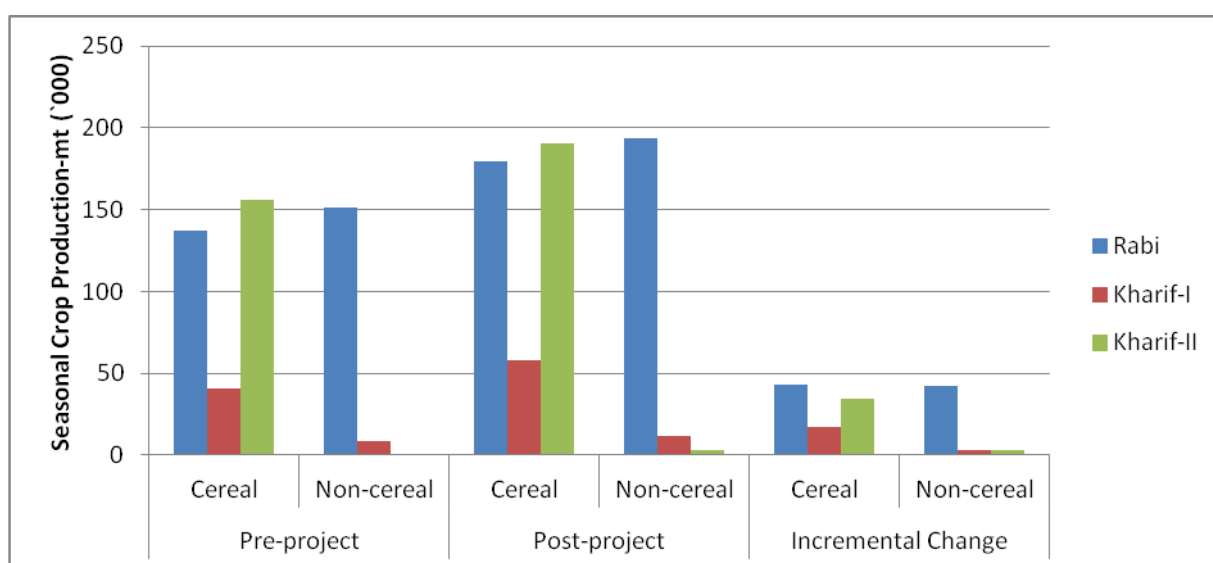
55. The seasonal net incremental change in crop production is shown in **Figure-5**. The total incremental increase was 143089.30 metric tons predominately resulting from increased production of cereals 94223.20 metric tons (65.85%) while the increase in non-cereal

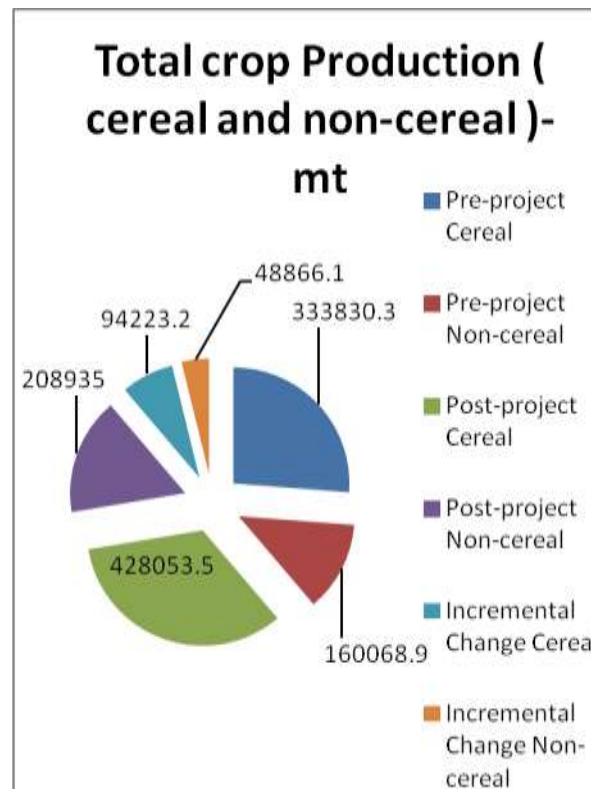
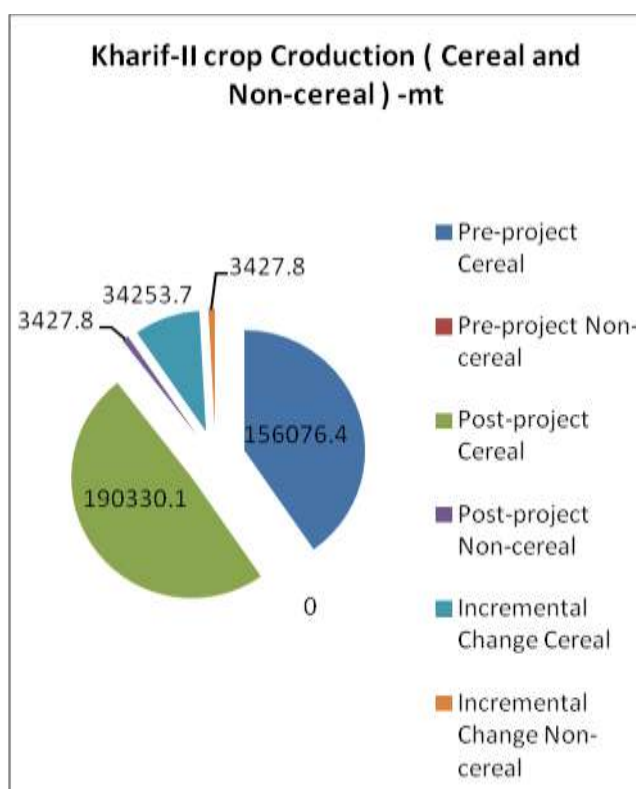
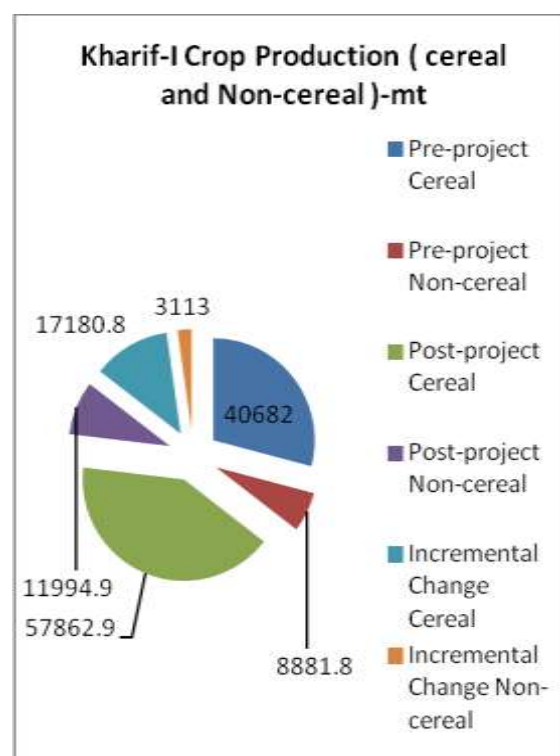
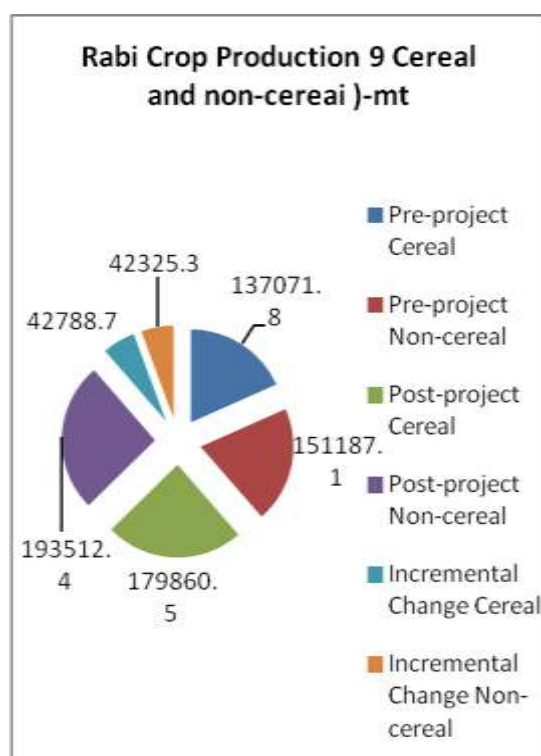
crops was 48866.10 metric tons (34.15%). The main increase in cereal crops occurred in the Rabi season 42788.70 metric tons (45.41%) of the total increase in cereal production. The main incremental increase in non-cereal crops was in the Rabi season 42325.30 metric tons (86.61%) of the total increase.

Figure-5: Pre-and Post Project Seasonal Crop Production (t) Incremental Increase by “Crop Season” and Total Crop Production (t).

Cropping Season	Pre-project		Post-project		Incremental Change	
	Cereal	Non-cereal	Cereal	Non-cereal	Cereal	Non-cereal
Rabi	137071.8	151187.1	179860.5	193512.4	42788.7	42325.3
Kharif-I	40682.0	8881.8	57862.9	11994.9	17180.8	3113.0
Kharif-II	156076.4	00	190330.1	3427.8	34253.7	3427.8
Sub-total	333830.3	160068.9	428053.5	208935.0	94223.2	48866.1
Total	493899.2		639688.5		143089.3	

Source: Project studies (Annexure Table-C.5, C.6, C.7 & C.8)





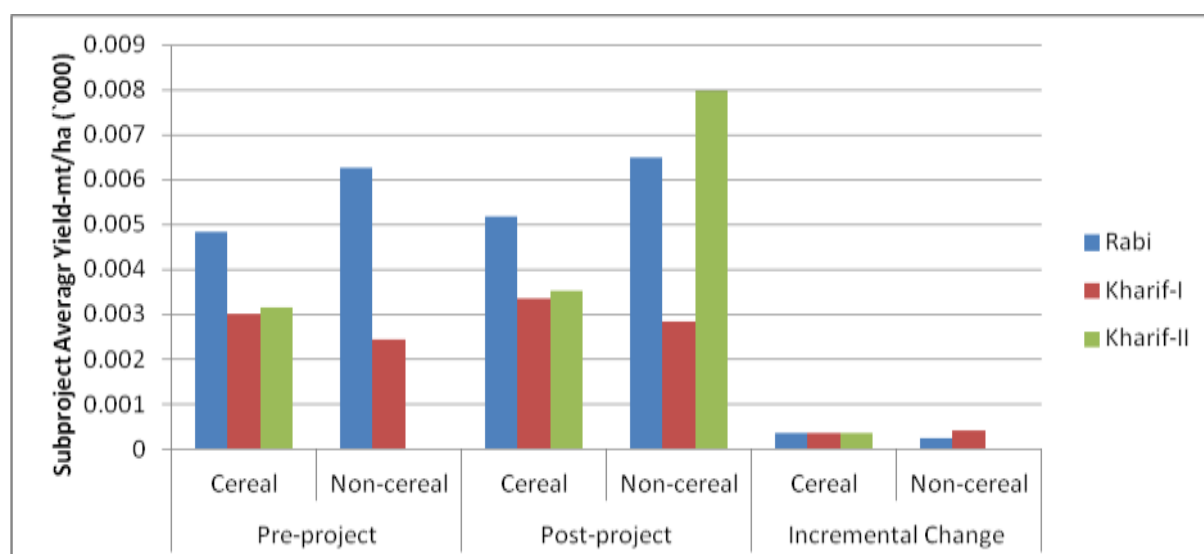
6.6 Crop Yield

56. The seasonal pre and post project crops yields and the incremental change in crop yields are summarized in **Figure-6**. There were yield increase for cereal and non-cereal crops in all three seasons. The highest sub-project average yield increase was for non-cereal crops in the Kharif-II season; 1.11 t/ha from a pre-project base level of 0.00 (zero) t/ha.
57. There were also substantial yield increases in the Rabi, Kharif-I and Kharif-II seasons for the cereal crop of 0.35, 0.35 and 0.37 t/ha, respectively. The non-cereal crop yield increase in Rabi and Kharif-I seasons was at 0.23 and 0.40 t/ha, respectively. Non-cereal crop was not grown in Kharif-II previously but after implementation of Sub-project started cultivation of non-cereal crops that is the most important impact of Sub-projects. The comparison in yield and changes in yield is broadly indicative especially with the non-cereal crop category that groups a wide range of crops. To maximise the yield of crops, congenial crop growth environment has been developed through improvement of drainage system and irrigation facilities.

Figure-6: Average Seasonal Crop Yield (t/ha) Pre and Post Project and Incremental Change in Crop Yield (t/ha).

Cropping Season	Pre-project		Post-project		Incremental Change	
	Cereal	Non-cereal	Cereal	Non-cereal	Cereal	Non-cereal
Rabi	4.83	6.27	5.18	6.50	0.35	0.23
Kharif-I	3.00	2.44	3.35	2.84	0.35	0.40
Kharif-II	3.15	-	3.52	7.99	0.37	-

Source: Project studies



6.7 IMPACT ON AGRICULTURE DEVELOPMENT BY SUB-PROJECT TYPE

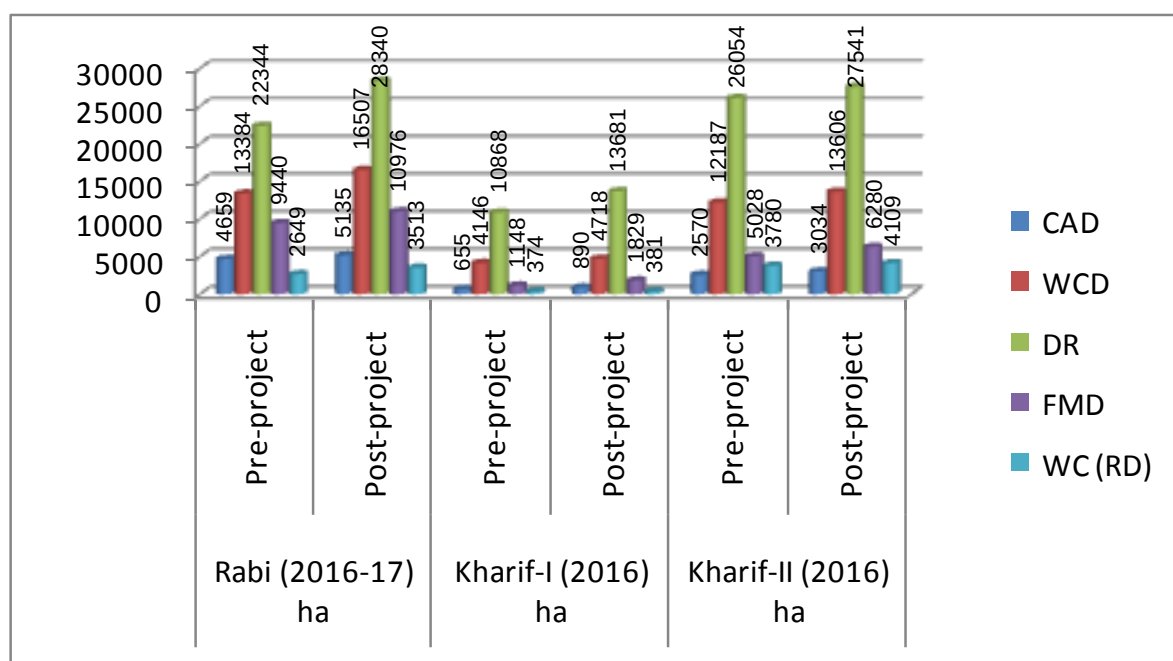
58. The impact on agriculture development by sub-project type is reviewed through the parameters of sub-project average net incremental change in cultivated area, cropping intensity, total crop production and crop yield presented in **Tables 4.5-4.7**.
59. There are 5 (five) types of sub-project. There was an incremental increase rate (100%) in the Rabi cropped area of 32.63% for WC (RD) types of subproject (**Table-4.5**) and a cropping intensity increase of 19.17% for WC (RD) type subproject from the pre-project base of 58.76% (**Table-4.6**). There was a net incremental increase rate (100%) in crop production of 40.78 % for WC (RD) type of subproject (**Table- 4.7**).

60. There was an incremental increase rate (100%) in the Kharif-I cropped area of 59.25% for FMD type of subproject (**Table-4.5**) and a cropping intensity increase of 8.71% for DR type of subproject from the pre-project base of 33.66% (**Table-4.6**). There was a net incremental increase rate (100%) in crop production of 66.39 % for CAD type of subproject (**Table- 4.7**).
61. Incremental increase rate (100%) was observed in the Kharif-II cropped area of 24.90% for FMD type of subproject (**Table-4.5**) and a cropping intensity increase of 12.64% for FMD type of subproject from the pre-project base of 50.77% (**Table-4.6**). There was a net incremental increase rate (100%) in crop production of 36.19 % for FMD type of subproject (**Table-4.7**).

Table 4.5: Pre-and Post Project Seasonal Average Subproject Cropped Area (ha) and Incremental Change in Area (ha) by Sub-project Type.

Subproject			Rabi (2016-17) ha			Kharif-I (2016) ha			Kharif-II (2016) ha		
Sl. No.	Type	No. of SP	Pre-project	Post-project	Incremental Rate (100%)	Pre-project	Post-project	Incremental Rate (100%)	Pre-project	Post-project	Incremental Rate (100%)
1	CAD	7	4659	5135	10.21	655	890	35.82	2570	3034	18.02
2	WCD	29	13384	16507	23.34	4146	4718	13.80	12187	13606	11.64
3	DR	47	22344	28340	26.83	10868	13681	25.89	26054	27541	5.71
4	FMD	20	9440	10976	16.27	1148	1829	59.25	5028	6280	24.90
5	WC (RD)	6	2649	3513	32.63	374	381	1.75	3780	4109	8.70
	Total	109	52476.82	64471.20	22.86	17191.56	21499.23	25.06	49619.36	54569.72	9.98
	SP Average		481.44	591.48		157.72	197.24		455.22	500.64	

Source: Project studies (**Annexure Table-C.1, C.2 & C.3**)



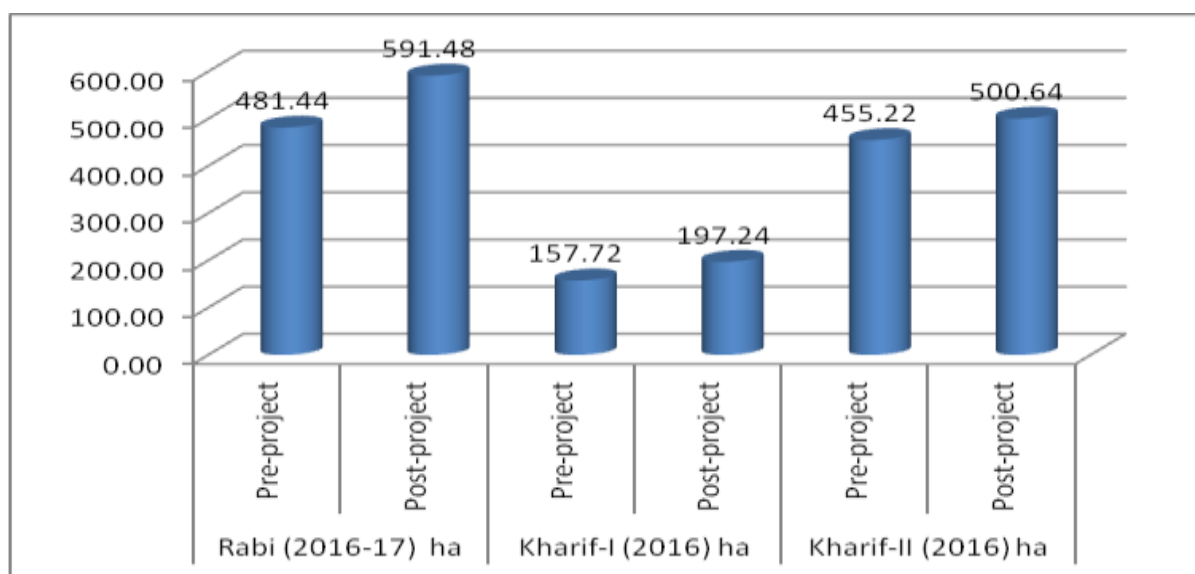
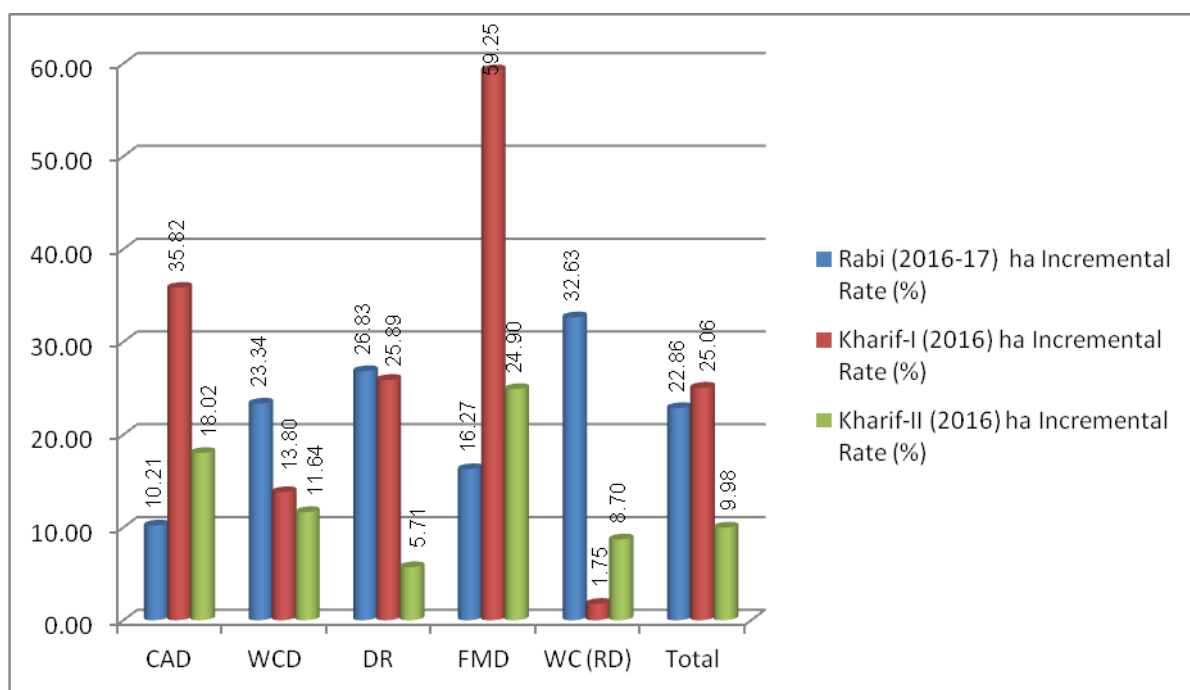


Table 4.6: Pre-and Post Project Seasonal Average Subproject Cropping Intensity (%) and Incremental Change in Cropping Intensity (%) by Sub-project Type.

Sl. No.	Subproject		Rabi (2016-17)			Kharif-I (2016)			Kharif-II (2016)		
	Type	No	Pre-project	Post-project	Incremental	Pre-project	Post-project	Incremental	Pre-project	Post-project	Incremental
1	CAD	7	110.17	121.42	11.25	15.50	21.05	5.55	60.78	71.73	10.95
2	WCD	29	80.01	98.69	18.67	24.79	28.21	3.42	72.86	81.34	8.48
3	DR	47	69.21	87.78	18.57	33.66	42.38	8.71	80.70	85.30	4.61
4	FMD	20	95.33	110.84	15.51	11.60	18.47	6.87	50.77	63.41	12.64
5	WC (RD)	6	58.76	77.94	19.17	8.30	8.44	0.15	83.85	91.15	7.29
	Total	109	-	-	-	-	-	-	-	-	-
	SP Average		82.70	99.33	16.63	18.77	23.71	4.94	69.79	78.59	8.80

Source: Project studies (Annexure Table-C.1, C.2, C.3 & C.4)

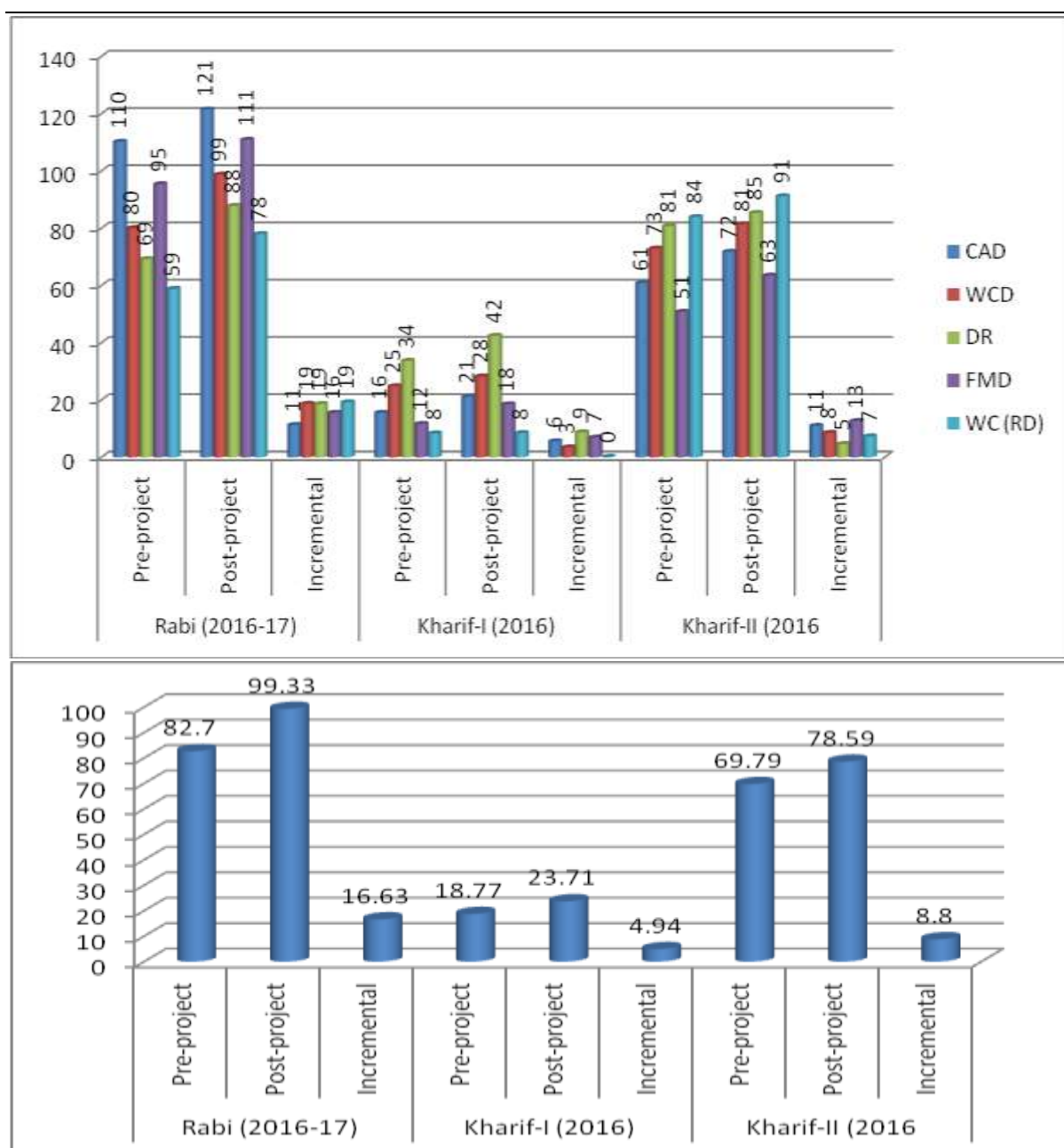
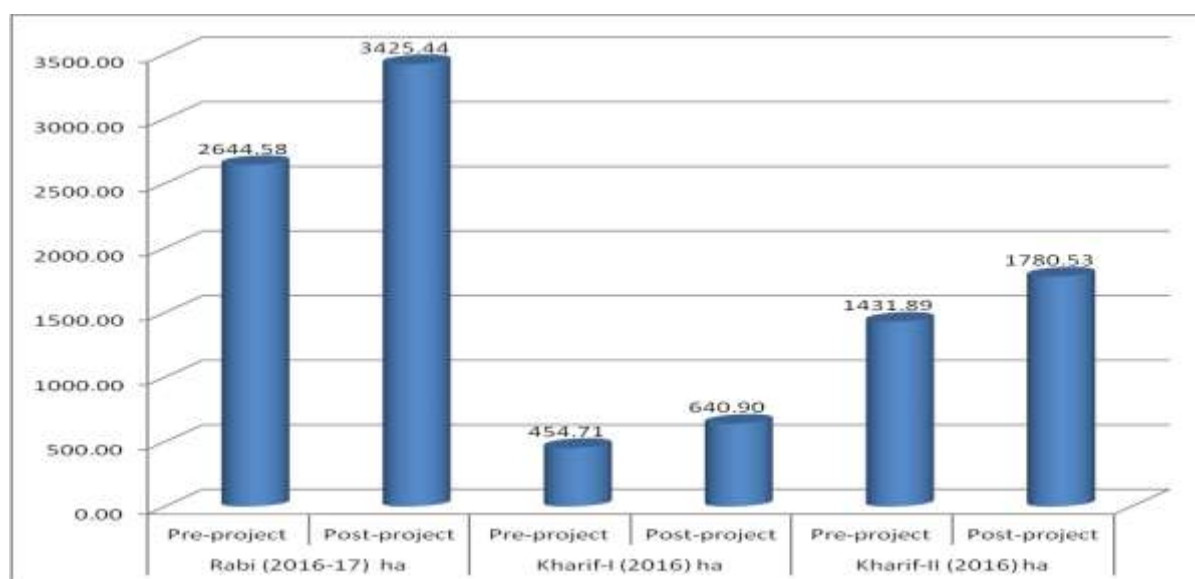
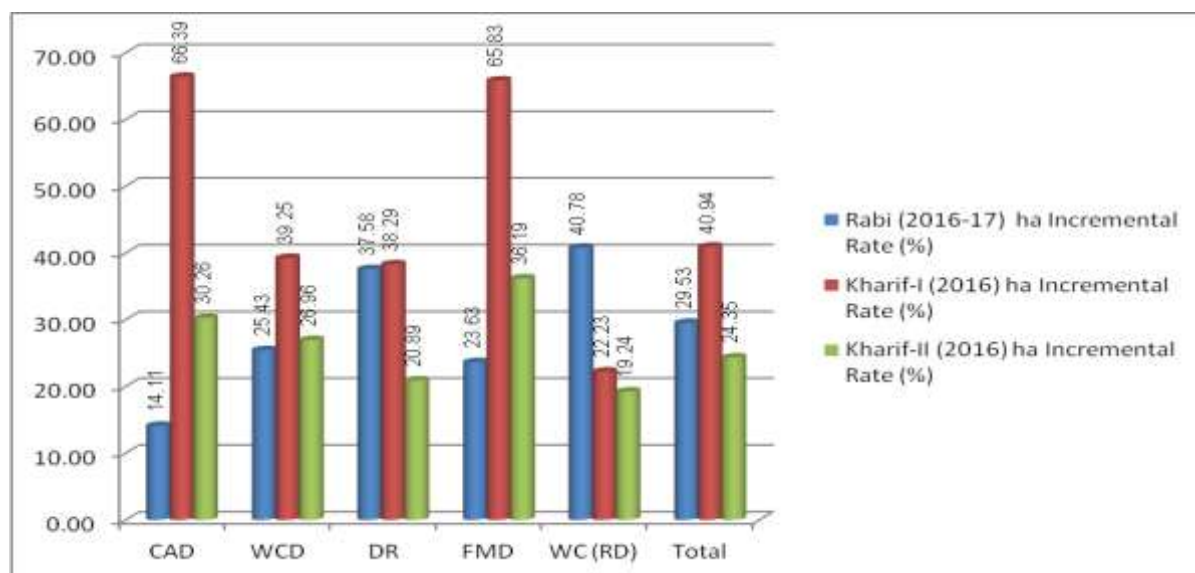
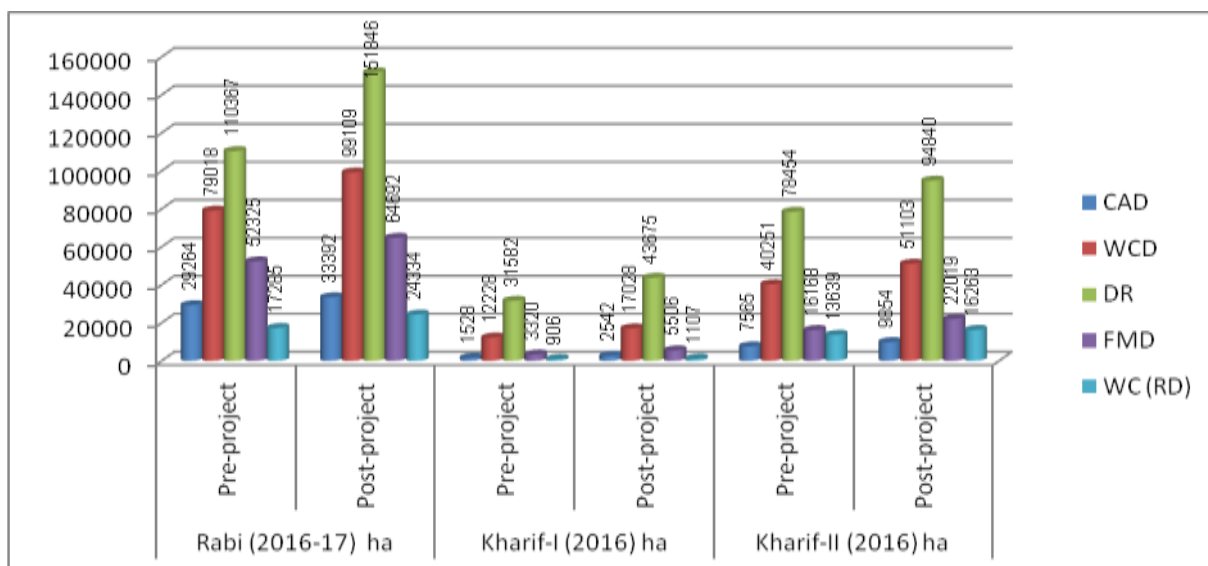
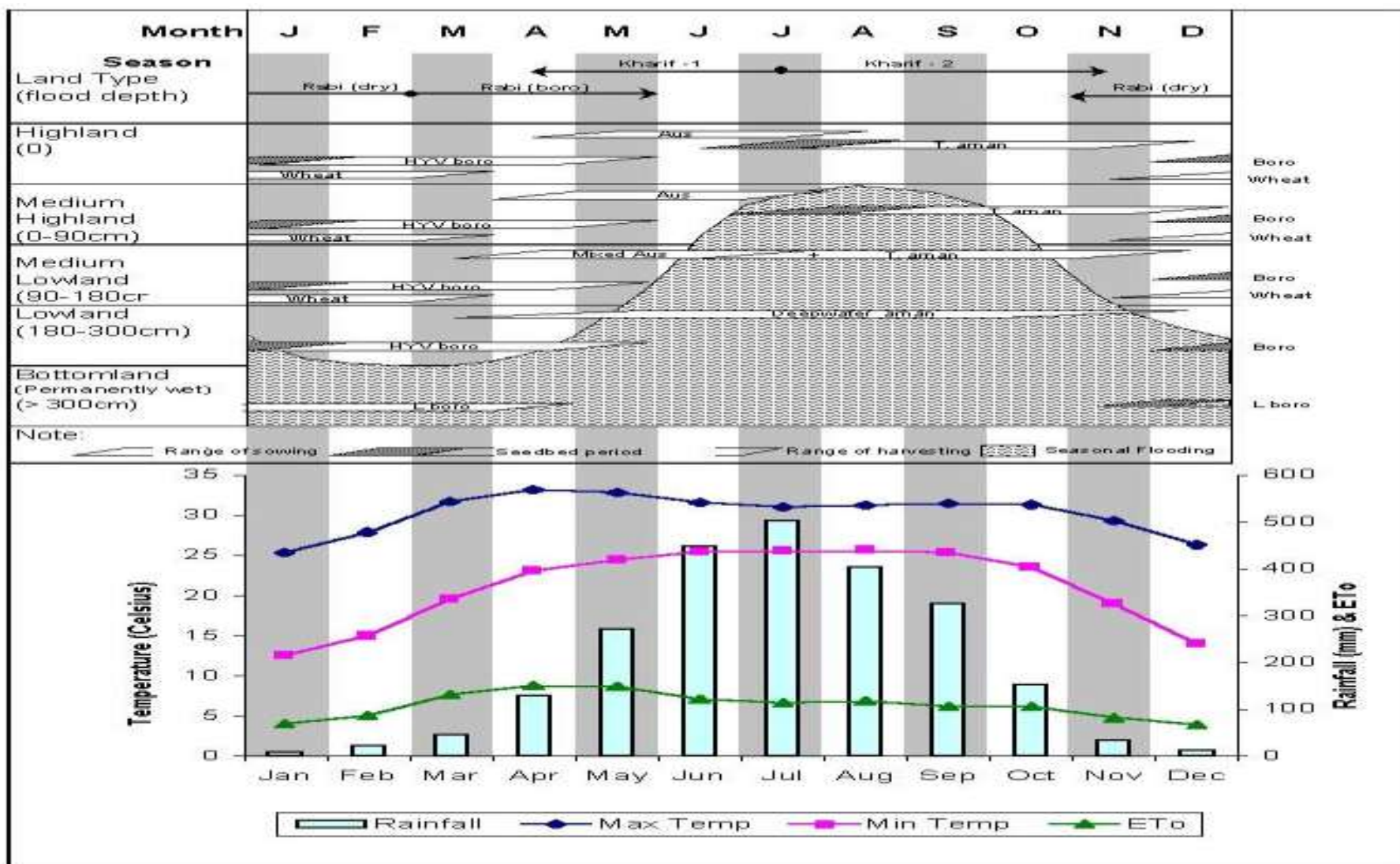


Table 4.7: Pre-and Post Project Subproject Net Average Seasonal Incremental Changes in Crop Production (t) by Sub-project Type.

Subproject			Rabi (2016-17) ha			Kharif-I (2016) ha			Kharif-II (2016) ha		
Sl. No.	Type	No. of SP	Pre-project	Post-project	Incremental Rate (100%)	Pre-project	Post-project	Incremental Rate (100%)	Pre-project	Post-project	Incremental Rate (100%)
1	CAD	7	29264	33392	14.11	1528	2542	66.39	7565	9854	30.26
2	WCD	29	79018	99109	25.43	12228	17028	39.25	40251	51103	26.96
3	DR	47	110367	151846	37.58	31582	43675	38.29	78454	94840	20.89
4	FMD	20	52325	64692	23.63	3320	5506	65.83	16168	22019	36.19
5	WC (RD)	6	17285	24334	40.78	906	1107	22.23	13639	16263	19.24
Total		109	288258.94	373372.91	29.53	49563.85	69857.72	40.94	156076.41	194078.01	24.35
SP Average			2644.58	3425.44		454.71	640.90		1431.89	1780.53	

Source: Project studies (Annexure Table-C.5, C.6 & C.7)





7. FISHERIES PERFORMANCE ASSESSMENT

7.1 Introduction

Project has implemented 109 Sub-Projects and this document describes fisheries part of the EME only where number of fisher, fish culturist and production that have occurred as a result of the investment in water management in efficient way.

This Fisheries part write-up is part of Effect Monitoring and Evaluation (EME) report a requirement of ADB-IFAD, has been prepared for Participatory Small Scale Water Resources Sector Project (PSSWRSP) of Local Government Engineering Department (LGED). Main purpose of this EME report is to document changes in production of agriculture and fisheries that have occurred as a result of investment in infrastructural and associated works that managed water in efficient way in the sub-project level completed under PSSWRSP. Necessary information also provided on other aspects/disciplines specifically on the performance of the Water Management Cooperative Association (WMCA). This EME covers analysis of effects of investment for the 109 sub-projects completed so far.

Both culture and capture fisheries considered as an important aspects of many of the sub-projects. Culture fisheries production increased though capture fisheries except few exception reduced. However, overall fisheries production increased. Total incremental production was about 8095mt. Incremental culture fisheries production was 641mt and natural fisheries (capture including some Culture) from the floodplain was 169mt. It should be mentioned that some of the capture fisheries cannot be mitigated in spite of increased production of agriculture and culture fisheries as it relates to environment and livelihoods of genuine fisher, dependent subsistence fisher. However, project has considered the concern of Dependent Subsistence Fishers right from SP selection process to WMCA formation.

7.1.1 OBJECTIVE OF FISHERIES PROGRAMME

Following are objectives of the Fisheries Program

- i. Introduce improved fisheries management
- ii. Mitigate negative impact of the project interventions
- iii. Mitigation and enhancement of Natural fisheries
- iv. Enhancement of Aquaculture Production
- v. Mitigate loss of fishers specifically of Dependent Subsistence Fishers
- vi. Involve poor people in culture and capture fisheries activities to reduce poverty
- vii. To achieve sustainable fisheries development through organised WMCA

7.1.2 Major Activities

- Training and Capacity Building
- Aquaculture Enhancement
- Participating Fishers and Ensuring their Livelihoods
- Create Fish culturist
- Input in Mitigation and Enhancement Plan
- Input in project selection & Review process
- Mitigation of loss of Natural Fisheries
- Involve Line agency in Training and Capacity Building

7.2 Evaluation of Fisheries by Sub-projects Type

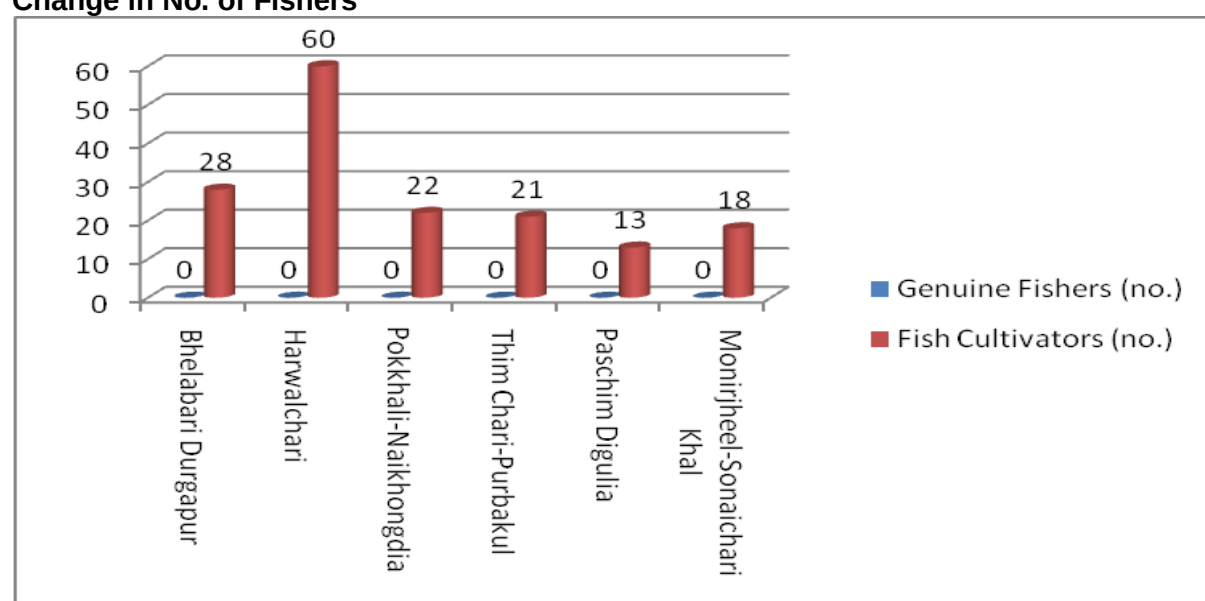
7.2.1 Water Conservation WC (RD) Sub-projects

Total 162 fish culturist increased in these sub-projects. Fish production increased from floodplain is 11 mt and perennial water body 34 mt. Under this category there are 6 Sub-Projects of the reporting period and detail data are shown **Table 5.1** and **Figure 7.1**. Among the Sub-Projects under this category, production ranges are 0 to 3 tons for floodplain fisheries and 4 to 12 tons for perennial water body.

Table 5.1: Fisheries Change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators.

Subproject						Change in No. of Fishers		Incremental Production (t)			Change in Livelihood (*)	
Sl. No.	ID No.	Subproject Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
1	41006	Bhelabari Durgapur	Lalmonirhat	Aditmari	WC (RD)	0	28	2	9	11	Improved	Improved
2	41007	Harwalchari	Chittagong	Fatikchari	WC (RD)	0	60	0	12	12	Improved	Improved
3	43045	Pokkhali-Naikhongdia	Coxs Bazar	Sadar	WC(RD)	0	22	3	5	8	Improved	Improved
4	43046	Thim Chari-Purbakul	Coxs Bazar	Ukhia	WC(RD)	0	21	2	2	4	Improved	Improved
5	43047	Paschim Digulia	Coxs Bazar	Ukhia	WC(RD)	0	13	2	3	5	Improved	Improved
6	43051	Monirheel-Sonaichari Khal	Coxs Bazar	Ramu	WC(RD)	0	18	2	3	5	Improved	Improved
Total						0	162	11	34	45	Improved	Improved
Sub Project						0	27	2	6	8	Improved	Improved
Range							13-60	0-3	2-12	4-12		

Change in No. of Fishers



Incremental Production (ton)

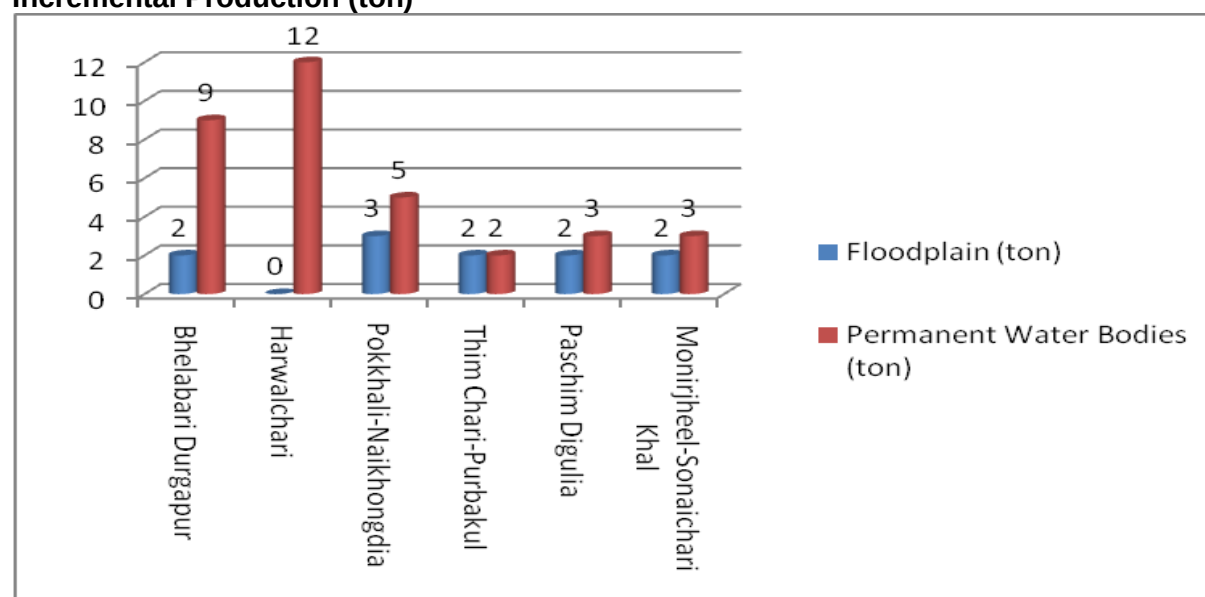


Figure 7.1.: Pre and Post Project Situation of Water Conservation (WC-RD) Sub-Projects

7.2.2 Drainage (DR) Sub-projects

Fisheries Benefit of DR Type Sub-Projects

Like CAD compared to many other interventional sub-project type, there is less negative impact of DR Type sub-projects on fisheries (Natural Fisheries). Excavation is usually main intervention thus, if excavation and soil management done properly there will not be negative impact.

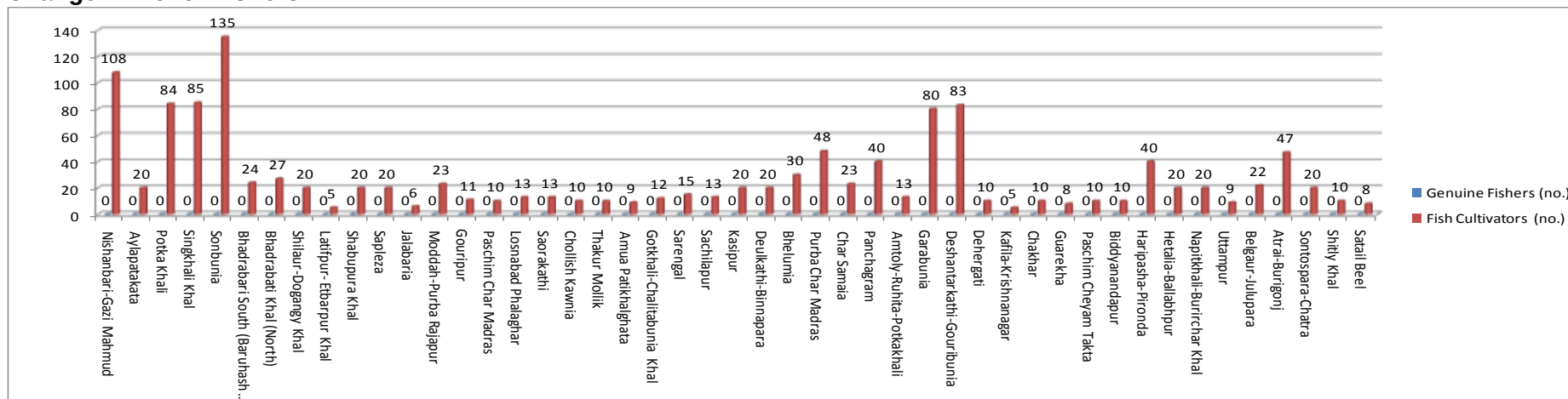
Under this category there are 47 Sub-Projects of the reporting period and detail data are shown **Table 5.2** and **Figure 7.2**. Total 1,299 fish culturist increased in these sub-projects under the Drainage category. Fish production increased 112 and 285 t from floodplain and perennial water body respectively. Among the Sub-Projects under this category, production ranges are 0 to 6 tons for floodplain fisheries and 1 to 35 tons for perennial water body.

Table 5.2 Fisheries Change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators in DR Categories

Subproject						Change in No. of Fishers		Incremental Production (t)			Change in Livelihood (*)	
Sl. No.	ID No.	Subproject Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
1	42024	Nishanbari-Gazi Mahmud	Barguna	Sadar	DR	0	108	5	3	8	Improved	Improved
2	43030	Aylapatakata	Barguna	Sadar	DR	0	20	4	4	8	Improved	Improved
3	43034	Potka Khali	Barguna	Sadar	DR	0	84	5	5	10	Improved	Improved
4	43040	Singkhali Khal	Barguna	Amtali	DR	0	85	0	8	8	Improved	Improved
5	43041	Sonbunia	Barguna	Sadar	DR	0	135	5	2	7	Improved	Improved
6	43036	Bhadrabari South (Baruhash Khal)	Sirajganj	Tarash	DR	0	24	1	20	21	Improved	Improved
7	43037	Bhadrabati Khal (North)	Sirajganj	Tarash	DR	0	27	1	25	26	Improved	Improved
8	43038	Shilaur-Dogangy Khal	Brahmanbaria	Sadar	DR	0	20	1	4	5	Improved	Improved
9	43056	Latifpur- Etbarpur Khal	Comilla	Chandina	DR	0	5	1	3	4	Improved	Improved
10	43058	Shabupura Khal	Patuakhali	Bauphal	DR	0	20	0	2	2	Improved	Improved
11	42022	Sapleza	Pirojpur	Mothbaria	DR	0	20	6	1	7	Improved	Improved
12	42023	Jalabaria	Pirojpur	Nesarabad	DR	0	6	6	2	8	Improved	Improved
13	43050	Moddah-PurbaRajapur	Patuakhali	Bauphal	DR	0	23	5	2	7	Improved	Improved
14	43062	Gouripur	Pirojpur	Bhandaria	DR	0	11	3	2	5	Improved	Improved
15	43068	Paschim Char Madras	Bhola	Charfassion	DR	0	10	4	2	6	Improved	Improved
16	44075	LosnabadPhalaghar	Barisal	Bakerganj	DR	0	13	2	5	7	Improved	Improved
17	44077	Saorakathi	Jhalokathi	Sadar	DR	0	13	3	2	5	Improved	Improved
18	44080	Challish Kahania	Jhalokathi	Rajapur	DR	0	10	3	2	5	Improved	Improved
19	44081	Thakur Mollik	Barisal	Babuganj	DR	0	10	4	4	8	Improved	Improved
20	44083	Amua Patikhali ghata	Jhalokathi	Kathalia	DR	0	9	3	1	4	Improved	Improved
21	44103	Gotkhali-Chalitabunia Khal	Barguna	Amtali	DR	0	12	3	1	4	Improved	Improved
22	44104	Sarengal	Jhalokathi	Sadar	DR	0	15	4	1	5	Improved	Improved
23	44106	Sachilapur	Jhalokathi	Sadar	DR	0	13	3	2	5	Improved	Improved
24	44111	Kasipur	Barisal	Sadar	DR	0	20	2	3	5	Improved	Improved
25	44117	Deulkathi-Binnapara	Jhalokathi	Sadar	DR	0	20	5	2	7	Improved	Improved
26	43066	Bhelumia	Bhola	Sadar	DR	0	30	1	2	3	Improved	Improved
27	43067	Purba Char Madras	Bhola	Charfassion	DR	0	48	0	11	11	Improved	Improved
28	43069	Char Samaia	Bhola	Sadar	DR	0	23	0	8	8	Improved	Improved
29	43070	Panchagram	Jhalokathi	Nalcity	DR	0	40	1	14	15	Improved	Improved
30	46240	Amtoly-Ruhita-Potkakhali	Barguna	Bamna	DR	0	13	1	2	3	Improved	Improved
31	43044	Garabunia	Barguna	Amtali	DR	0	80	0	22	22	Improved	Improved
32	43048	Deshantarkathi-Gouribunia	Barguna	Betagi	DR	0	83	0	35	35	Improved	Improved
33	43043	Dehergati	Barisal	Babuganj	DR	0	10	5	17	22	Improved	Improved
34	43049	Kafila-Krishnanagar	Barisal	Bakerganj	DR	0	5	5	6	11	Improved	Improved
35	44125	Chakhar	Barisal	Banaripara	DR	0	10	3	3	6	Improved	Improved
36	44131	Guarekha	Pirojpur	Nesarabad	DR	0	8	2	1	3	Improved	Improved
37	44136	Paschim CheyamTakta	Barisal	Mehendiganj	DR	0	10	2	1	3	Improved	Improved
38	45152	Biddyanandapur	Barisal	Mehendiganj	DR	0	10	2	1	3	Improved	Improved
39	44127	Haripasha-Pironda	Jhalokathi	Sadar	DR	0	40	1	2	3	Improved	Improved
40	44143	Hetalia-Ballabhpur	Patuakhali	Sadar	DR	0	20	1	2	3	Improved	Improved
41	45205	Napitkhali-Burirchar Khal	Barguna	Sadar	DR	0	20	1	3	4	Improved	Improved
42	45211	Uttampur	Barisal	Bakerganj	DR	0	9	1	3	4	Improved	Improved
43	43031	Belgaur-Julupara	Naogaon	Niamatpur	DR	0	22	0	20	20	Improved	Improved
44	43042	Atrai-Burigonj	Naogaon	Atrai	DR	0	47	1	14	15	Improved	Improved

Subproject						Change in No. of Fishers		Incremental Production (t)			Change in Livelihood (*)	
Sl. No.	ID No.	Subproject Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
45	43033	Sontospara-Chatra	Naogaon	Niamatpur	DR	0	20	3	4	7	Improved	Improved
46	44084	Shitly Khal	Jhenaidah	Harinakunda	DR	0	10	2	4	6	Improved	Improved
47	45157	SatailBeel	Natore	Baraigram	DR	0	8	1	2	3	Improved	Improved
Total						0	1299	112	285	397	Improved	Improved
Sub Project Average						0	28	2	6	8		
Range						0	5-135	0-6	1.-35	3.-35		

Change in No. of Fishers



Incremental Production (ton)

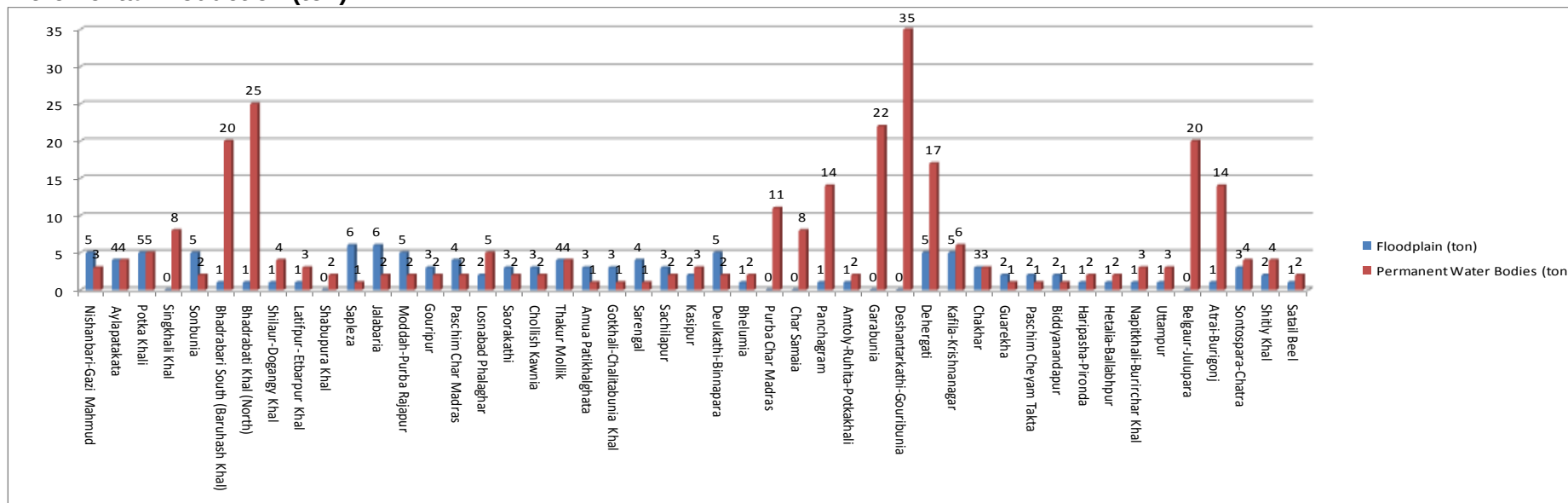


Figure 7.2.: Pre and Post Fisheries Incremental data of Drainage (DR) Sub-projects

7.2.3 Command Area Development (CAD) Sub-projects

Fisheries Benefit of CAD Type Sub-Projects

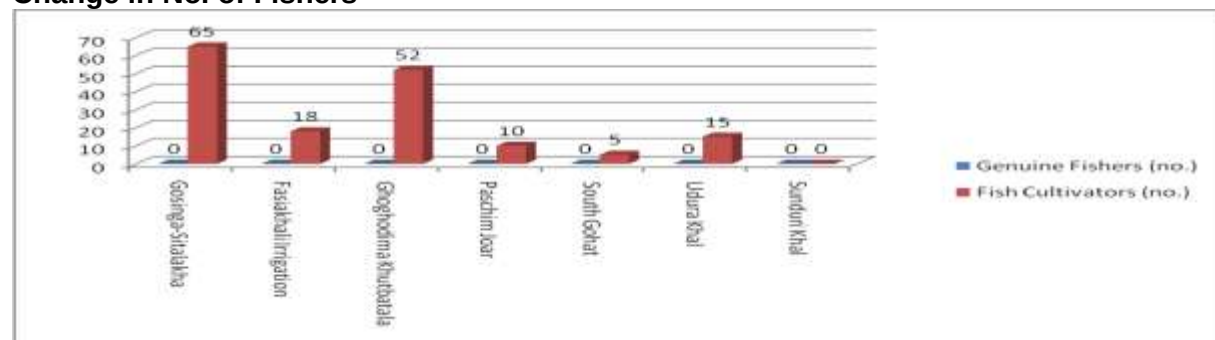
Compared to many other interventional sub-project types, there is less negative impact of CAD Type sub-projects on fisheries (Natural Fisheries), rather it is positive to culture fisheries.

There are 7 Sub-Projects of under Command Area Development category of Sub-Projects. Detail data on increment is shown in **Table 5.3** and **Figure 7.3**. Total 165 fish culturist increased in these sub-projects under the CAD category where 65 fish culturist increased alone in Gosinga Sitalakhya Sub-Project. Fish production increased 9 ton in Floodplain and 42 tons from the perennial water bodies. Production ranges are 1 to 4 tons for floodplain fisheries and 1 to 24 tons for perennial water body where 24 tons increased in Ghugudima Khutbatala sub-project.

Table 5.3: Fisheries Change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators.

Subproject						Change in No. of Fishers		Incremental Production (t)			Change in Livelihood (*)	
Sl. No.	ID No.	Subproject Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
1	41008	Gosinga-Sitalakha	Gazipur	Sreepur	CAD	0	65	2	5	7	Improved	Improved
2	42021	Fasiakhali Irrigation	Cox's Bazar	Chakoria	CAD	0	18	1	8	9	Improved	Improved
3	43039	Ghoghodima Khutbatala	Chapai Nawabgonj	Sadar	CAD	0	52	0	24	24	Improved	Improved
4	44093	Paschim Joar	Chittagong	Mirsharai	CAD	0	10	4	1	5	Improved	Improved
5	42013	South Gohat	Chandpur	Kachua	CAD	0	5	1	2	3	Improved	Improved
6	42014	Udura Khal	Chandpur	Kachua	CAD	0	15	1	2	3	Improved	Improved
7	42015	Sunduri Khal	Chandpur	Kachua	CAD	0	0	0	0	0	No data was available	
Total						0	165	9	42	51	Improved	Improved
Sub Project Average						0	24	1.28	6	7.28		
Range						0	5-65	1-4	1-24	3-24		

Change in No. of Fishers



Incremental Production (ton)

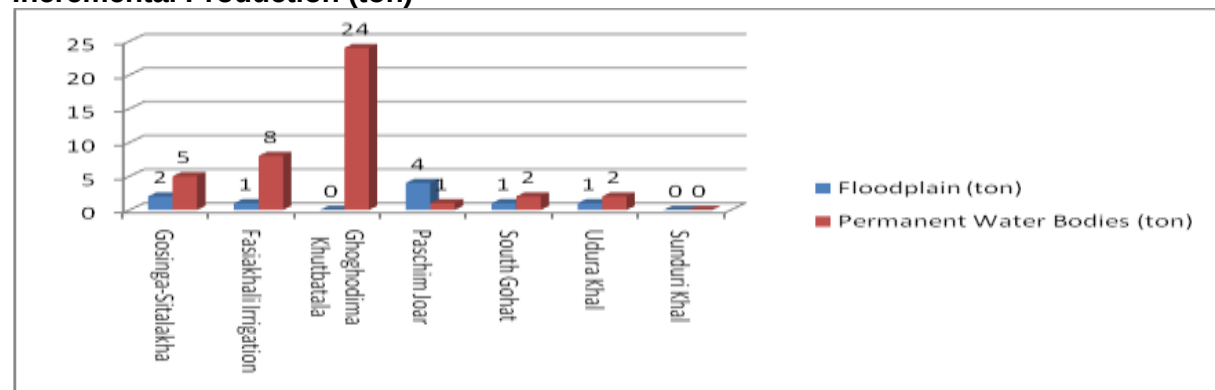


Figure 7.3: Pre- and Post Fisheries Incremental data of Command Area Development (CAD) Sub-projects

7.2.4 Flood Management & Drainage (FMD) Sub-projects

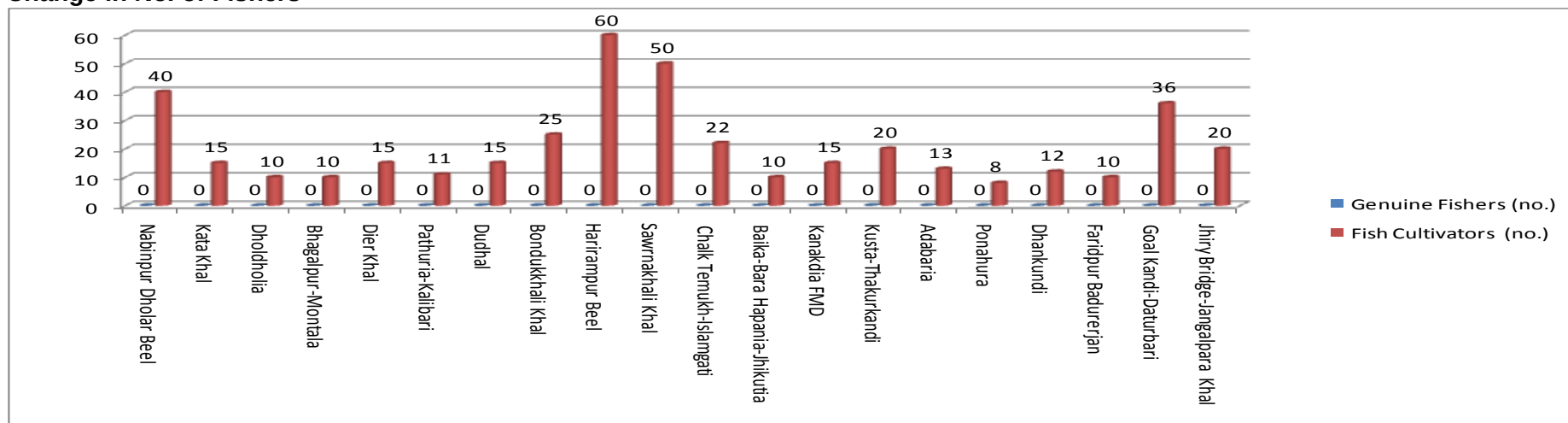
Fisheries Benefit of FMD Type Sub-Projects

Under FMD category there are 20 Sub-Projects. **Table 5.4** and **Figure 7.4** detail data shows increment. Total 417 fish culturist increased in these sub-projects under the FMD category where 60 fish culturist increased alone in Harirampur Beel Sub-Project of Meherpur Sadar. Fish production increased 24 and 110 tons in Floodplain and perennial water bodies respectively. Production ranges are 1 to 12 tons for floodplain fisheries and 1 to 20 tons for perennial water body where 20 tons increased in Ghugudima Khutbatala sub-project and second highest (14 t) was from Goalkandi Daturbari Sub-Project.

Table 5.4: Fisheries Change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators

Subproject						Change in No. of Fishers		Incremental Production (t)			Change in Livelihood (*)	
Sl. No.	ID No.	Subproject Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Perennial Water Bodies	Total	Fishers	Cultivators
1	42017	Nabinpur Dholar Beel	Meherpur	Gangni	FMD	0	40	12	3	15	Improved	Improved
2	42018	Kata Khal	Meherpur	Mujibnagar	FMD	0	15	5	6	11	Improved	Improved
3	43055	Dholdolia	Gaibandha	Shaghata	FMD	0	10	1	4	5	Improved	Improved
4	43061	Bhagapur-Montala	Sirajganj	Ullapara	FMD	0	10	1	4	5	Improved	Improved
5	43064	Dier Khal	Bagerhat	Sadar	FMD	0	15	3	4	7	Improved	Improved
6	43072	Pathuria-Kalibari	Bagerhat	Morelganj	FMD	0	11	3	3	6	Improved	Improved
7	44097	Dudhal	Barisal	Bakerganj	FMD	0	15	1	3	4	Improved	Improved
8	44101	Bondukkhali Khal	Meherpur	Sadar	FMD	0	25	2	20	22	Improved	Improved
9	44112	HarirampurBeel	Meherpur	Sadar	FMD	0	60	2	12	14	Improved	Improved
10	41010	Sawrnakhali Khal	Dhaka	Dhamrai	FMD	0	50	3	12	15	Improved	Improved
11	43032	Chalk Temukh-Islamgati	Naogaon	Atrai	FMD	0	22	-21	7	-14	Improved	Improved
12	41003	Baika-Bara Hapania-Jhikutia	Manikgonj	Harirampur	FMD	0	10	3	2	5	Improved	Improved
13	41005	Kanakdia FMD	Patuakhali	Bauphal	FMD	0	15	1	3	4	Improved	Improved
14	41009	Kusta-Thakurkandi	Manikgonj	Ghior	FMD	0	20	1	3	4	Improved	Improved
15	43057	Adabaria	Patuakhali	Bauphal	FMD	0	13	3	3	6	Improved	Improved
16	43060	Ponahura	Patuakhali	Bauphal	FMD	0	8	1	2	3	Improved	Improved
17	44078	Dhankundi	Bogra	Sherpur	FMD	0	12	1	3	4	Improved	Improved
18	44092	FaridpurBadurerjan	Rangpur	Mithapukur	FMD	0	10	0	2	2	Improved	Improved
19	43035	Goal Kandi-Daturbari	Gaibandha	Gabindaganj	FMD	0	36	1	14	15	Improved	Improved
20	44113	Jhiry Bridge-Jangalpara Khal	Gaibandha	Gobindaganj	FMD	0	20	1	1	2	Improved	Improved
Total						0	417	24	110	134	Improved	Improved
Sub Project Average						0	21	1.2	5.5	6.7		
Range						0	8-60	1-12	1-20	2-22		

Change in No. of Fishers



Incremental Production (ton)

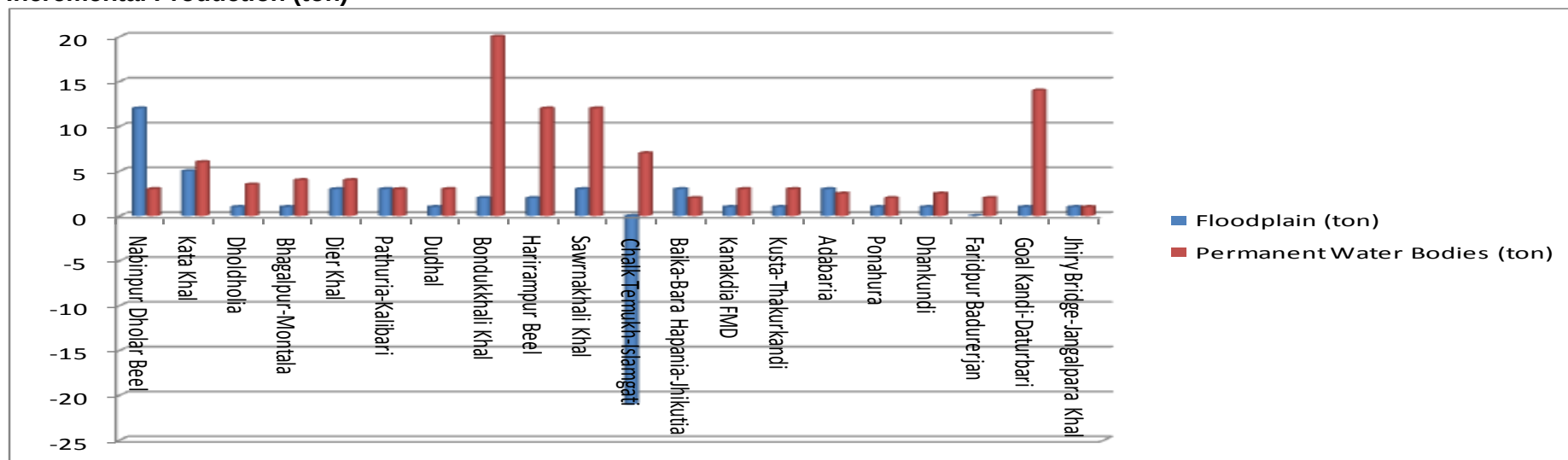


Figure 7.4: Pre- and Post Fisheries Incremental data of Flood Management and Drainage (FMD) Sub-projects

7.2.5 Water Conservation and Drainage (WCD) Sub-projects

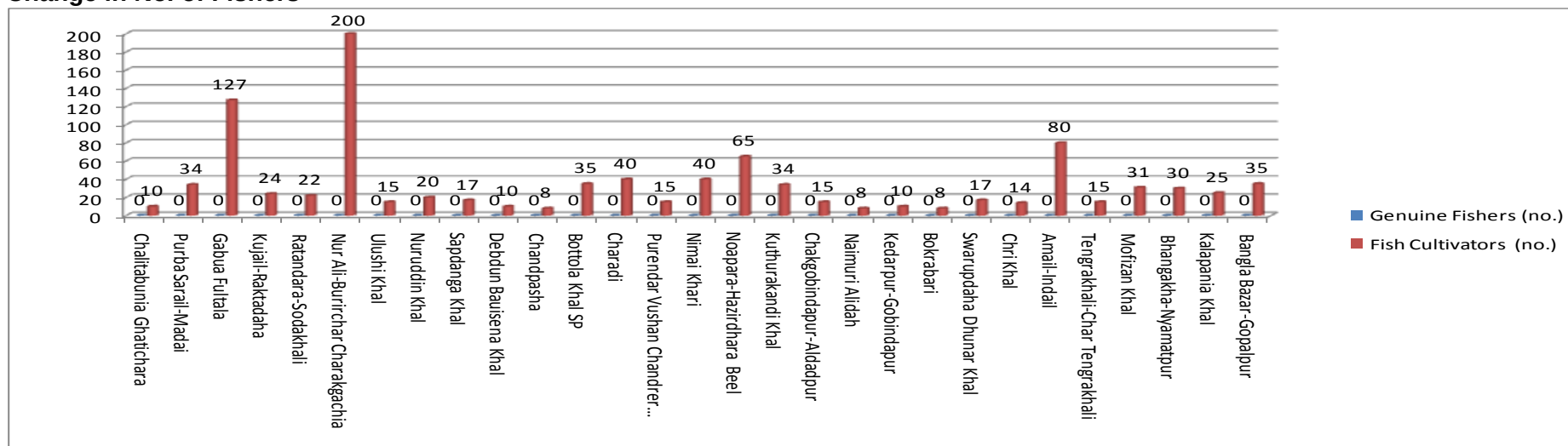
Information on fisheries production for Water Conservation and drainage (WCD) are shown in **Table 5.5** and **Figure 7.5**. Higher increment observed (floodplain) from Gabua Fultala and Nur Ali Sub-Projects under WCD category where there are 29 Sub-Projects. **Table 5.5** and **Figure 7.5** detail data shows on increment.

Total 1,004 fish culturist increased in these sub-projects under the WCD category where 200 highest and lowest 8 fish culturist increased. Fish production increased 55 tons from Floodplain and 170 tons from perennial water bodies. Highest increment in fish production was 20 tons and it was observed Noapara Hazirdara and second from Mofijan Khal (19 t). **Table 5.5** and **Figure 7.5** shows detail information of WCD category.

Table 5.5: Fisheries Change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators

Subproject						Change in No. of Fishers		Incremental Production (t)			Change in Livelihood (*)	
Sl. No.	ID No.	Subproject Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Perennial Water Bodies	Total	Fishers	Cultivators
1	45168	Chalitabunia Ghaticchara	Pirojpur	Mothbaria	WCD	0	10	3	1	4	Improved	Improved
2	41002	PurbaSarail-Madai	Joypurhat	Akkelpur	WCD	0	34	1	12	13	Improved	Improved
3	42016	GabuaFultala	Barguna	Betagi	WCD	0	127	9	4	13	Improved	Improved
4	42025	Kujail-Raktadaha	Naogaon	Raninagar	WCD	0	24	2	4	6	Improved	Improved
5	42026	Ratandara-Sodakhali	Naogaon	Raninagar	WCD	0	22	1	3	4	Improved	Improved
6	43029	Nur Ali-BurircharCharakgachia	Barguna	Sadar	WCD	0	200	5	3	8	Improved	Improved
7	42020	Ulushi Khal	Sirajganj	Tarash	WCD	0	15	0	11	11	Improved	Improved
8	42027	Nuruddin Khal	Pabna	Sujanagar	WCD	0	20	2	4	6	Improved	Improved
9	43028	Sapdanga Khal	Pabna	Atghoria	WCD	0	17	3	5	8	Improved	Improved
10	44135	Debdun Bauisona Khal	Narail	Kalia	WCD	0	10	2	1	3	Improved	Improved
11	45150	Chandpasha	Barisal	Babuganj	WCD	0	8	2	1	3	Improved	Improved
12	45148	Bottola Khal SP	Jhalokathi	Nalcity	WCD	0	35	1	6	7	Improved	Improved
13	45173	Charadi	Barisal	Bakerganj	WCD	0	40	1	3	4	Improved	Improved
14	44130	Purendar Vushan Chandrer Bari-Sarbeshwar Ghat	Gaibandha	Gobindaganj	WCD	0	15	2	3	5	Improved	Improved
15	41001	Nimai Khari	Dinajpur	Sadar	WCD	0	40	2	18	20	Improved	Improved
16	41011	Noapara-Hazirdhara Beel	Rajshahi	Puthia	WCD	0	65	1	6	7	Improved	Improved
17	43063	Kuthurakandi Khal	Jessore	Bagharpara	WCD	0	34	0	20	20	Improved	Improved
18	41004	Chakgobindapur-Aldadpur	Gaibandha	Sadullapur	WCD	0	15	2	4	6	Improved	Improved
19	45145	Naimuri Alidah	Sirajganj	Ullapara	WCD	0	8	1	3	4	Improved	Improved
20	43059	Kedarpur-Gobindapur	Comilla	Chandina	WCD	0	10	5	2	7	Improved	Improved
21	43071	Bokrabari	Rangpur	Mithapukur	WCD	0	8	1	3	4	Improved	Improved
22	44074	Swarupdaha Dhunar Khal	Jessore	Chowgacha	WCD	0	17	1	7	8	Improved	Improved
23	44094	Shree Khal	Joypurhat	Akkelpur	WCD	0	14	1	2	3	Improved	Improved
24	44107	Amail-Indail	Bogra	Adamdighi	WCD	0	80	1	5	6	Improved	Improved
25	45180	Tengrakhal-Char Tengrakhal	Bagerhat	Kachua	WCD	0	15	1	3	4	Improved	Improved
26	43054	Mofizan Khal	Gaibandha	Shaghata	WCD	0	31	1	19	20	Improved	Improved
27	43065	Bhangakha-Nyamatpur	Laxmipur	Sadar	WCD	0	30	3	9	12	Improved	Improved
28	44095	Kalapania Khal	Chittagong	Fatikchari	WCD	0	25	0	3	3	Improved	Improved
29	44119	Bangla Bazar-Gopalpur	Noakhali	Begumganj	WCD	0	35	1	5	6	Improved	Improved
Total						0	1004	55	170	225	Improved	Improved
Sub Project Average						0	35	2	6	8		
Range						0	8-200	1-9	1-20	3-20		

Change in No. of Fishers



Incremental Production (ton)

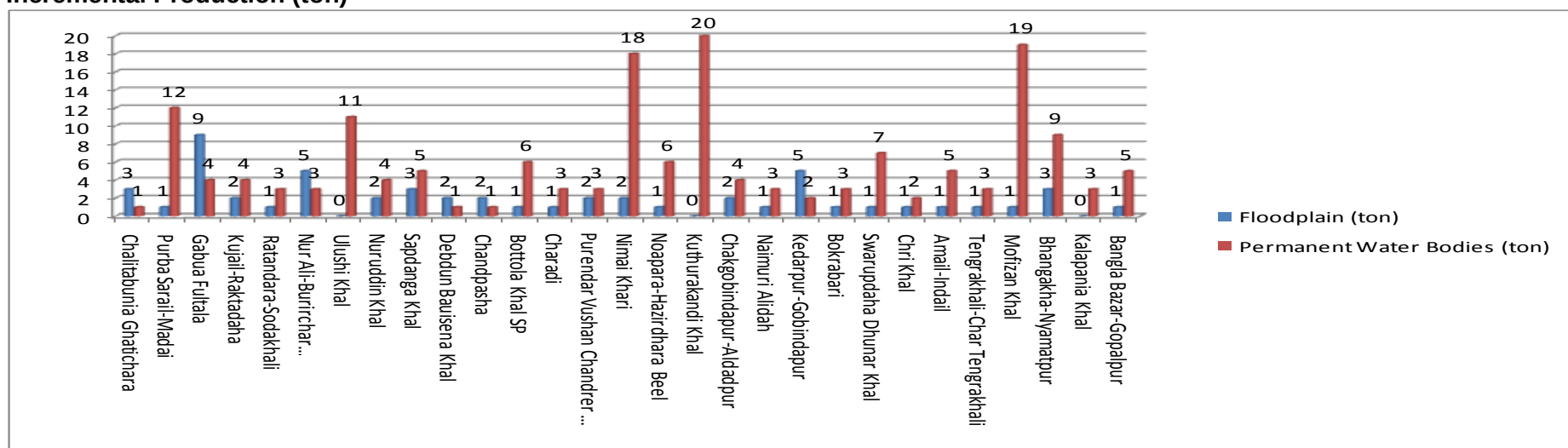


Figure 7.5: Pre- and Post Fisheries Incremental data of Water Conservation and Drainage (WCD) Sub-projects

Comparative Chapter

Among all categories increment in fish culturist was highest in DR category (1299), second highest 285 tons in DR category. In floodplain production highest increment was observed WCD followed by FMD category. **Table 5.6** and **Figure 7.6** shows detail information for all categories.

Table 5.6: Status of increment (comparative to all categories)

Sl.	Sub-Project Types and Number	Total and Range	Increment			Remarks
			Fish Culturist (Number)	Floodplain Production (t)	Production of Permanent Water body (t)	
1	WC (6 SP)	Total	162	11	34	
		Range	13-60	0-3	2-12	
2	DR (47 SP)	Total	1,299	11	285	
		Range	5-135	0-6	1-35	Highest in DR
3	CAD (7 SP)	Total	165	9	42	
		Range	5-65	1-4	1-24	
4	FMD (20 SP)	Total	417	24	110	
		Range	8-60	1-12	1-20	
5	WCD (29 SP)	Total	1,004	55	170	
		Range	8-200	1-9	1-20	

Change in No. of Fishers Incremental Production (ton)

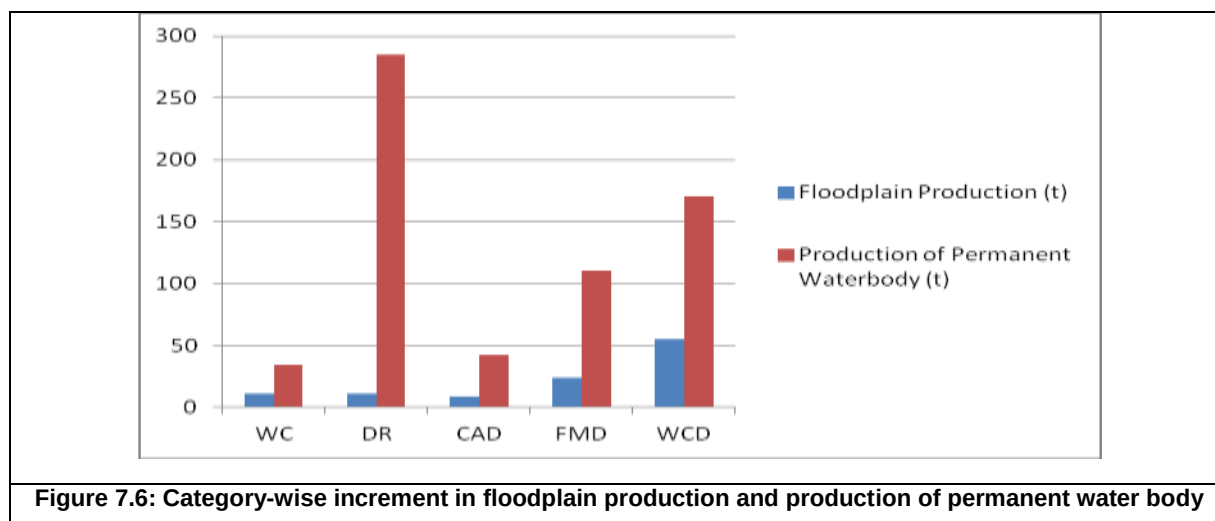
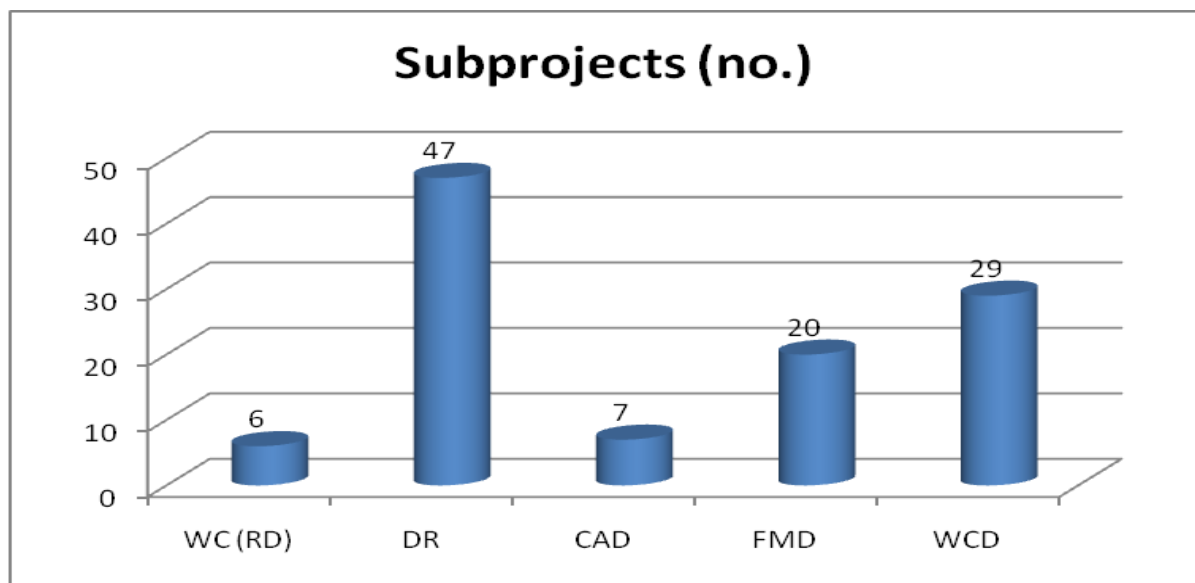


Figure 7.6: Category-wise increment in floodplain production and production of permanent water body

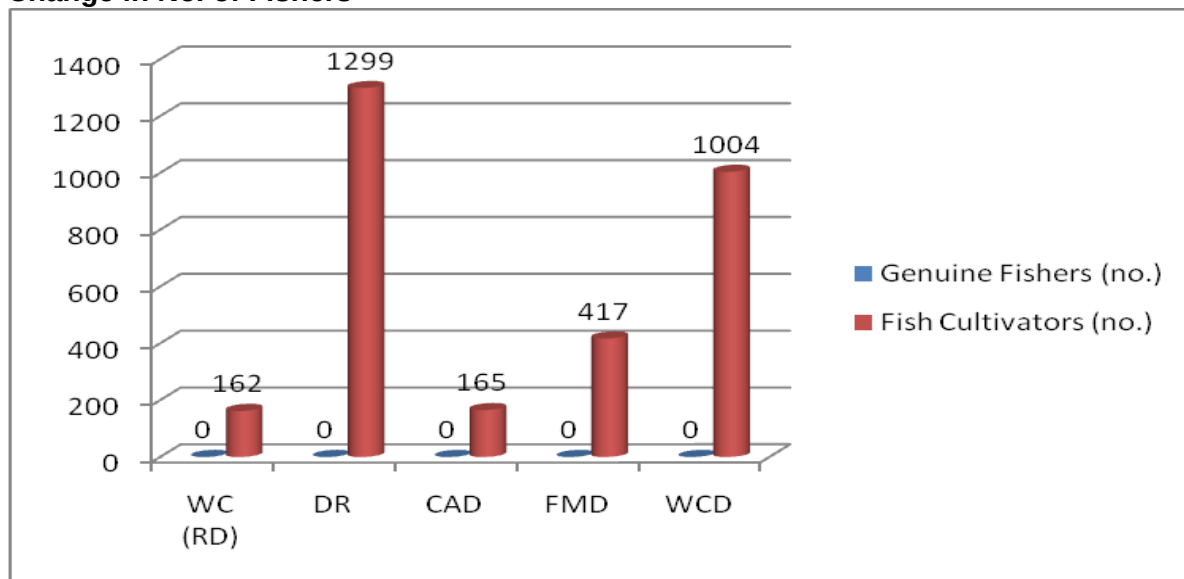
Table 5.7 and **Figure 7.7** shows the total change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators for 109 SPs.

Table 5.7: The total change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators for 109 SPs

	Subprojects (no.)	Genuine Fishers (no.)	Fish Cultivators (no.)	Floodplain (ton)	Permanent Water Bodies (ton)	Total (ton)
WC (RD)	6	0	162	11	34	45
DR	47	0	1299	112	285	397
CAD	7	0	165	9	42	51
FMD	20	0	417	24	109.5	133.5
WCD	29	0	1004	55	170	225
Total	109	0	3047	211	640.5	851.5



Change in No. of Fishers



Incremental Production (ton)

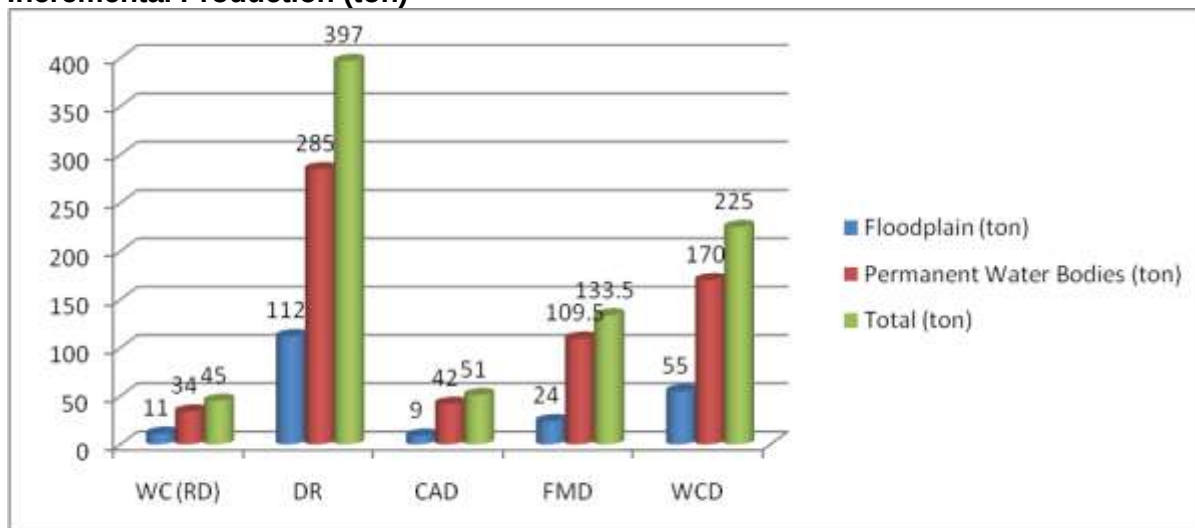


Figure 7.7: The total change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators for 109 SPs

8. OPERATIONAL PERFORMANCE ASSESSMENT

8.1 Sub-projects Handled-Over

62. As of June 30, 2017 a total of 80 subprojects, out of 109 completed ones, have been handed over to the concerned WMCAs after one year of construction for post-project operation and maintenance of the subproject infrastructure.

8.2 Operation and Maintenance Plan

63. Sub-project Operations and Maintenance (O&M) Plans are typically prepared within one year of completion of construction works,

64. O&M plans were prepared keeping in mind the 5 types of subprojects in 109 completed ones. These are Command Area Development; Drainage; Flood Management & Drainage; Water Conservation and Rubber dam subprojects. The content of these Plans

depend on the category of sub-projects. They cover maintenance for unregulated sub-projects without structures and both operation and maintenance for regulated and CAD types of sub-project. Typical contents of the O&M Plans are set out in **Table 6** below.

Table 6: O&M Plan Content

Content	O&M Plan Content		
	Un-regulated SPs	Regulated SPs	CAD SPs
Brief about SP	A short brief about the SP is given for all categories		
Description of SP Infrastructure	The infrastructure of subproject is described in reasonable detail		
Maintenance Aspects	Describes maintenance requirements, categories and process including pre- and post-monsoon annual walkthroughs and maintenance plans (budgets)		
Operation Aspects	N/A	Presents operation calendar and gate operators	A comprehensive section covering objectives, procedures and SP operating institutions and staff
O&M Costs	Only for earthworks maintenance	For both earthworks, structures and gate operators	For infrastructure, system operators, pumping and electrical equipment and energy costs and maintenance of the infrastructure as a whole.

Source: Project studies

65. During the reporting period 109 subprojects were completed out of these 80 (eighty) subprojects had been handed-over to the WMCA and had started their operation and maintenance activities. In addition to these 80 SPs, O & M Plan and activities started in further 19 SPs also. Operation and Maintenance activities cover the end of the 2016 monsoon to the beginning of the 2017 monsoon. This involves joint walkthrough towards the end of monsoon 2016, followed by preparing O&M plan, fund generation and actual maintenance works during the first half of 2017. The operational performance of these completed subprojects is reviewed briefly in the present EME report. The details of these one hundred and nine subprojects are presented in **Table 7**.

Table 7: Subproject-wise O&M Plan, Estimate and Expenditure for EME

Sl. No.	SP ID	Name of Subproject	Type of SP	Name of District/Upazila	O&M Budget (Cost in Tk.)			O&M Expenditure (Cost in Tk.)		
					Structure	Earthwork	Total	Structure	Earthwork	Total
1	2	3	4	5	6	7	8	9	10	11
1	41001	Nimai Khari Khal	WCD	Dinajpur/ Sadar	29,000	295,136	324,136		30000	30000
2	41002	Purba Sarail Madhai Khal	WCD	Joypurhat/ Kalai	24,000	16,000	40,000	4000	11000	15000
3	41003	Baika-Barahapania	FMD	Manikganj/ Harirampur	61,000	587390	648,390			
4	41004	Chak Govindapur-Aldadpur	WCD	Gaibandha/ Sadullapur	6,500	21,500	28,000	1500	18500	20000
5	41005	Kanakdia FMD	FMD	Patuakhali/ Bauphal		4745193.5	4,745,194			
6	41006	Bhelabari Durgapur	WC (RD)	Lalmonirhat/ Aditmari	32,912		32,912			
7	41007	Harwalchari	WC (RD)	Chittagong/ Fatikchhari	44,050		44,050	400000		400000
8	41008	Goshinga-Sitalakha	CAD	Gazipur/ Sreepur	291,600		291,600	97881		97881
9	41009	Kusta Thakurkandi FMD	FMD	Manikganj/ Gheor	21,700	238,885	260,585			
10	41010	Swarnakhali Khal	FMD	Dhaka/ Dhamrai	266,500	874,304	1,140,804	50520		50520
11	41011	Noapara-Hazirdhara	WCD	Rajshahi/ Puthia	17,698	446,173	463,871			
12	42013	South-Gohat	CAD	Chandpur/ Kachua		200806	200,806			
13	42014	Udura Khal	CAD	Chandpur/ Kachua		131136	131,136			
14	42015	Sunduri Khal	CAD	Chandpur/ Kachua		137913.73	137,914			
15	42016	Gabua Fultala	WCD	Barguna/ Betagi	55648	915518	971,166		265900	265900
16	42017	Nabinpur-Dholar	FMD	Meherpur/ Gangni	8865	5000	13,865			

Sl. No.	SP ID	Name of Subproject	Type of SP	Name of District/Upazila	O&M Budget (Cost in Tk.)			O&M Expenditure (Cost in Tk.)		
					Structure	Earthwork	Total	Structure	Earthwork	Total
1	2	3	4	5	6	7	8	9	10	11
		Beel								
17	42018	Kata Khal	FMD	Meherpur/ Mujibnagar	762.5	2000	2,763		7500	7500
18	42020	Ulushikhal	WCD	Sirajganj/ Tarash					500000	500000
19	42021	Fasiakhali Irrigation	CAD	Cox's Bazar/ Chakoria	238,000		238,000	301420		301420
20	42022	Sapleza DR-1	DR	Pirojpur/ Mathbaria		298259	298,259			
21	42023	Jalabaria DR-1	DR	Pirojpur/ Nesarabad		87647	87,647			
22	42024	Nishanbaria-Gazimahmud	DR	Barguna/ Sadar	6000	983134	989,134		75000	75000
23	42025	Kujail-Sodakhali-Ractodoha	WCD	Naogaon/ Raninagar & Atrai		1324752.9	1,324,753			
24	42026	Ratan Dhara (Sadhukhali to Jhanjhania)	WCD	Naogaon/ Raninagar & Atrai		156432.44	156,432			
25	42027	Nuruddin Khal	WCD	Pabna/ Sujanagar		19995.84	19,996			
26	43028	Sapdanga Khal WC & DR	WCD	Pabna/ Atghoria	13000	30000	43,000			
27	43029	Burichar-Nur Ali Charakgachhia	WCD	Barguna/ Sadar	10000	891752	901,752	16000	109000	125000
28	43030	Aylapatakata DR-1	DR	Barguna/ Sadar	6000	871922	877,922	12000	23500	35500
29	43031	Belgapur-Julupara	DR	Naogaon/ Niamatpur		436597.2	436,597			
30	43032	Samaspara-Chalk Temukh-Islamgati	FMD	Naogaon/ Atrai	29000	424341.84	453,342			
31	43033	Santoshpara-Chatra	DR	Naogaon/ Niamatpur		438925.71	438,926			
32	43034	Potka Khali DR & Irr.	DR	Barguna/ Sadar	5000	883220	888,220		43000	43000
33	43035	Goal Kandi-Daturbari	FMD	Gaibandha/ Gobindaganj	15,000	288720	303,720		10000	10000
34	43036	Badrabati (South)	DR	Sirajganj/ Tarash	4,027	191,295	195,322			
35	43037	Badrabati (North)	DR	Sirajganj/ Tarash	4,027	203,848	207,875			
36	43038	Silaur-Dogangy SP	DR	Brahmanbaria/ Sadar		2,646,647	2,646,647			
37	43039	Ghughudima-Khutbatala	CAD	Chapai Nawabganj/ Sadar	30,480	51,200	81,680	284000		284000
38	43040	Singkhali	DR	Barguna/ Amtoly	1500	725,052	726,552	12800	51000	63800
39	43041	Sonburia Subproject	DR	Barguna/ Sadar	7000	40,194	47,194	8000	15000	23000
40	43042	Atrai-Burigang Subproject	DR	Naogaon/ Atrai		211,979	211,979			
41	43043	Dehergati	DR	Barisal/ Babuganj	50,000	226,205	276,205		170000	170000
42	43044	Garabunia	DR	Barguna/ Amtoly	2000	573946	575,946		80700	80700
43	43045	Pok Khali-Naikkhongdia	WC (RD)	Cox's Bazar/ Sadar	10,000		10,000		80200	80200
44	43046	Thimchari-Purbakul	WC (RD)	Cox's Bazar/ Ukhia	49,000	100,000	149,000		24000	24000
45	43047	Pashchim Dighulia	WC (RD)	Cox's Bazar/ Ukhia	5000	43000	48,000			
46	43048	Deshantorkathi-Garabunia	DR	Barguna/ Betagi	53766	926401	980,167		55000	55000
47	43049	Kapila-Krishnapur	DR	Barisal/Bakerganj	25034.55	85903.25	110,938			
48	43050	Madhya-Purba Rajapur	DR	Patuakhali/ Bauphal	2000	1599420	1,601,420			
49	43051	Monirjheel-Sonaichhari Khal	WC (RD)	Cox's Bazar/ Ramu	70,000	15,000	85,000		22000	22000
50	43054	Mofizan Khal	WCD	Gaibandha/ Saghata						
51	43055	Dholdholia	FMD	Gaibandha/ Saghata		150,000	150,000		150000	150000
52	43056	Latifpur-Etbarpur Khal	DR	Comilla/ Chandina						
53	43057	Adabaria	FMD	Patuakhali/ Bauphal		1365930	1,365,930			
54	43058	Sabupura	DR	Patuakhali/ Bauphal		871,608	871,608		25000	25000
55	43059	Kedarpur-Gobindapur	WCD	Comilla/ Chandina						

Sl. No.	SP ID	Name of Subproject	Type of SP	Name of District/Upazila	O&M Budget (Cost in Tk.)			O&M Expenditure (Cost in Tk.)		
					Structure	Earthwork	Total	Structure	Earthwork	Total
1	2	3	4	5	6	7	8	9	10	11
56	43060	Ponahura FMD & WC	FMD	Patuakhali/ Bauphal		3,333,308	3,333,308		60000	60000
57	43061	Bhagalpur Montola	FMD	Sirajganj/ Ullapara	18,054	44,409	62,463			
58	43062	Gouripur	DR	Pirojpur/ Bhandaria						
59	43063	Kathurakandi Khal	WCD	Jessore/ Bagherpara	16,000	85,084	101,084	15500		15500
60	43064	Dier Khal	FMD	Bagerhat/ Sadar		271,145	271,145			
61	43065	Bhangakha-Nyamatpur	WCD	Laxmipur/ Sadar	170,867	527,250	698,117			
62	43066	Bhelumia	DR	Bhola/ Sadar	19,000	228,954	247,954			
63	43067	Purba Char Madras	DR	Bhola/ Charfession	10,000	29,854	39,854			
64	43068	Pashcim Char Madras	DR	Bhola/ Charfession	15,000	274,890	289,890			
65	43069	Char Samaia	DR	Bhola/ Sadar		356,931	356,931			
66	43070	Panchagram	DR	Jhalokathi/ Nalchhiti	10,000	125,509	135,509			
67	43071	Bokrabari	WCD	Rangpur/ Mithapukur	43,748	42,189	85,937			
68	43072	Pathuria Kalibari	FMD	Bagerhat/ Morelganj		713,136	713,136			
69	44074	Swarupdaha Dhunar Khal	WCD	Jessore/ Chowgachha	27,000	73,288	100,288	46300		46300
70	44075	Losnabad Phalaghar	DR	Barisal/ Bakerganj	10,000	107,871	117,871		65000	65000
71	44077	Saorakathi	DR	Jhalokathi/ Sadar	20,000	87619.94	107,620			
72	44078	Dhonkundi Beel	FMD	Bogra/ Sherpur	7,000	10,000	17,000	12000	8000	20000
73	44080	Challish kahania	DR	Jhalokathi/ Rajapur	20000	169129.64	189,130		94000	94000
74	44081	Thakurmallik	DR	Barisal/ Bakerganj		20,000	20,000			
75	44083	Amua Patikhalghata	DR	Jhalokathi/ Kathali	10000	102442.66	112,443			
76	44084	Sitly Khal	DR	Jhenaidah/ Harinakunda	5,034	944,613	949,647			
77	44092	Faridpur-Badurerjan	FMD	Rangpur/ Mithapukur	38,748	12,583	51,331			
78	44093	Pashchim Joar	CAD	Chittagong/ Mirersarai						
79	44094	Shree Khal	WCD	Joypurhat/ Akkelpur	24,000	20,000	44,000	2000	18000	20000
80	44095	Kalapania Khal	WCD	Chittagong/ Fatikchhari	9,500	5,000	14,500		20000	20000
81	44097	Dudhal	FMD	Barisal/ Bakerganj		264585.25	264,585			
82	44101	Bondukkhali Khal	FMD	Meherpur/ Sadar	2,775	8,000	10,775			
83	44103	Gotkhali Chalitabunia	DR	Barguna/ Amtoly	2500	672800.93	675,301		85000	85000
84	44104	Sarengal	DR	Jhalokathi/ Sadar	20,000	254198	274,198		255000	255000
85	44106	Sachilapur	DR	Jhalokathi/ Sadar						
86	44107	Amail Indail	WCD	Bogra/ Adamdighi	8,223	6,529	14,752	3500	11000	14500
87	44111	Kashipur	DR	Barisal/ Sadar		20,000	20,000		97200	97200
88	44112	Harirampur Beel	FMD	Meherpur/ Sadar	3,458	21,950	25,408			
89	44113	Jhirai Bridge-Jangalpara Khal	FMD	Gaibandha/ Gobindaganj						
90	44117	Deulkathi-Binnapara	DR	Jhalokathi/ Sadar	10,000	69,042	79,042			
91	44119	Bangla Bazar-Gopalpur	WCD	Noakhali/ Begumganj						
92	44125	Chakhar	DR	Barisal/ Banaripara		47,074	47,074		37000	37000
93	44127	Haripasha-Pironda	DR	Jhalokathi/ Sadar	25,000	82,850	107,850			
94	44130	Purandar Vushan Chandrer Bari-Sarbeswar Ghat	WCD	Gaibandha/Gobindaganj	6,000	404,208	410,208			
95	44131	Guarekha	DR	Pirojpur/ Nesarabad		31,353	31,353			
96	44135	Debdun Bauisona Khal	WCD	Narail/ Kalia	15,773	116,195	131,968			
97	44136	Paschim Chhayam Takta	DR	Barisal/ Mehendiganj		15,000	15,000		84000	84000
98	44143	Hetalia-Ballabhpur	DR	Patuakhali/ Sadar	10,000	1,430,296	1,440,296			

Sl. No.	SP ID	Name of Subproject	Type of SP	Name of District/Upazila	O&M Budget (Cost in Tk.)			O&M Expenditure (Cost in Tk.)		
					Structure	Earthwork	Total	Structure	Earthwork	Total
1	2	3	4	5	6	7	8	9	10	11
99	45145	Naimuri Alidaha	WCD	Sirajganj/ Ullapara	15,054	18,504	33,558		20000	20000
100	45148	Bottola Khal SP	WCD	Jhalokathi/ Nalcity	20,000	142,099	162,099			
101	45150	Chandpasha	WCD	Barisal/ Babuganj		20000	20,000			
102	45152	Biddanandapur	DR	Barisal/ Mehendiganj		12500	12,500		22000	22000
103	45157	Satail Beel	DR	Natore/ Boraigram	36,953	95,000	131,952			
104	45168	Chalitabunia	WCD	Pirojpur/Mathbaria					124000	124000
105	45173	Charadi	WCD	Barisal/Bakerganj	7,085	67,786	74,871			
106	45180	Tengrakhal Char Tengra	WCD	Bagerhat/Kachua & Sadar	3,000	722,153	725,153			
107	45205	Napitkhali-Burirchar Khal	DR	Barguna/Sadar		99,148	99,148			
108	45211	Uttampur	DR	Barisal/Bakerganj		10,000	10,000			
109	46240	Amtoly-Ruhita-Potkakhal	DR	Barguna/ Bamna	10,000	100,148	110,148			
Total					2165841.7	38096905	40262747	1267421	2766500	4033921
					69	94	99	16	36	43

8.3 Operations and Maintenance Performance Assessment

66. The table above reveals subproject-wise status of O&M plan, budget and expenditure. According to this WMCAs of 99 out of completed 109 subprojects have prepared O&M plan and budget in the year 2016-2017. The budgeted amount being BDT 40.2 million seems reasonable as it is expected that the cost of O&M in the first year to be less because of the new infrastructures.

67. In the expenditure in O&M segment it is observed that WMCAs of 43 subprojects have collected and spent BDT 4.03 million for O&M of the subproject infrastructures. For some other subprojects that have been handed over to the concerned WMCAs immediately before June 2017 it is a little early to assess the operational and maintenance needs of the completed subprojects. These late handed-over subprojects have started their O&M activities with preparation of their respective O&M plans for the year 2017-2018. In fact WMCAs of about 200 subprojects, including the currently studied 109 subprojects have been in different stages of O&M plan preparation in their respective subprojects. The plan involves joint walkthroughs followed by resources mobilization and actual O&M works to be worked out during the first half of 2018. The operational performance of these completed subprojects will be reviewed in the next EME report (2018). Reason being for this relatively small amount spent on O&M is that the subprojects were just completed and maintenance needs are still very small. However, awareness on self carried out O&M has been gradually developing among the local stakeholders.

8.4 Utilization of O&M Fund

In accordance with the Project design, it's obligatory for the WMCAs that Operation and Maintenance of the subproject structures be carried out by the cooperative effort and collective fund of the members of WMCAs. In the reporting period, 68 WMCAs of subprojects collected O&M fund worth Tk. 9662551 from the beneficiaries and spent Tk. 4033921 in the operation and maintenance works. The O&M activity carried out by WMCAs is summarized in the **Table 8**.

Table 8: Status of Upfront and regular O&M Fund Collection and Expenditure

Sl. No.	SP ID No.	Subproject Name	SP Type	Upfront O&M Fund (FDR) (Tk.)	Interest Accrued from FDR				Collection in O&M Operating Fund (S/AC) (Tk.)	Total Operating Fund (Tk.)	Expended against O&M works	
					Matured	Not Matured	Not drawn	Amount (Tk.)			From Operating Fund (Tk.)	Voluntary works (Man-days)
1	2	3	4	5	6	7	8	9	10	11 (9+10)	12	13
1	41001	Nimai Khari Subproject (SP)	WCD	315314	√			156000	30000	186000	30000	

Sl. No.	SP ID No.	Subproject Name	SP Type	Upfront O&M Fund (FDR) (Tk.)	Interest Accrued from FDR				Collection in O&M Operating Fund (S/AC) (Tk.)	Total Operating Fund (Tk.)	Expended against O&M works	
					Matured	Not Matured	Not drawn	Amount (Tk.)			From Operating Fund (Tk.)	Voluntary works (Man-days)
1	2	3	4	5	6	7	8	9	10	11 (9+10)	12	13
2	41002	Purba Sarail-Madhai SP	WCD	215000	√			42900		42900	15000	
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	300000	√		√					
4	41004	Chak Gobindapur-Aldadpur SP	WCD	175000	√			99277	20000	119277	20000	
5	41005	Kanakdia SP	FMD	695000		√						
6	41006	Velabari-Durgapur SP	WC (RD)	535000	√			259592		259592		
7	41007	Harwalchari SP	WC (RD)	900000	√			280000	400000	680000	400000	67
8	41008	Gosinga-Sitalakha SP	CAD	550000	√			202000	97881	299881	97881	
9	41009	Kusta-Thakurkandi SP	FMD	150000	√		√					
10	41010	Swrnakhali khal SP	FMD	200000	√			70000		70000	50520	
11	41011	Noapara-Hazirdhara Beel Sp	WCD	176781	√			28298		28298		
12	42013	South Gohat SP	CAD	370000	√		√					
13	42014	Udara Khal SP	CAD	450000	√		√					
14	42015	Sundari Khal SP	CAD	400000	√		√					
15	42016	Gabua Fultala Subproject	WCD	523000	√			305900		305900	265900	
16	42017	Nabinpur-Dharla Beel SP	FMD	250000		√						
17	42018	Kata Khal SP	FMD	150000		√					7500	
18	42020	Ulushi Khal SP	WCD	290000	√			104400		104400	500000	
19	42021	Fasiakhali Irrigation SP	CAD	180000	√			64800	260450	325250	301420	
20	42022	Sapleza SP	DR	329500	√		√					
21	42023	Jalabaria SP	DR	336000	√		√					
22	42024	Nishanbaria-Gazimahmud Subproject	DR	367500	√			95600		95600	75000	
23	42025	Kujail-Raktadaha SP	WCD	266000	√			63800		63800		
24	42026	Ratandhara-Sodakhali SP	WCD	215000	√			51600		51600		
25	42027	Nuruddin Khal SP	WCD	230000	√			71124		71124		
26	43028	Sapdanga Khal SP	WCD	265000	√			110924		110924		
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	252000	√			60000	125000	185000	125000	
28	43030	Aylapatakata Subproject	DR	257280	√			58500		58500	35500	
29	43031	Balgaur-Julupara SP	DR	450000	√			165000		165000		
30	43032	Chalk Temukh-Islsmgati SP	FMD	460000	√			143000		143000		
31	43033	Sontospara-Chatra SP	DR	477000	√			150000		150000		
32	43034	Potkakhali Subproject	DR	231000	√			48000		48000	43000	
33	43035	Goalkandib Dhuturbari Khal SP	FMD	320000	√			120000	100000	220000	10000	
34	43036	Bhadraboti South SP	DR	840000	√			315000		315000		
35	43037	Bhadraboti Khal (North) SP	DR	443500	√			158400		158400		
36	43038	Shilaur-Dogangy Khal SP	DR	200000	√			83241		83241		
37	43039	Ghoghodima Khutbatala SP	CAD	170000	√				300000	300000	284000	
38	43040	Singkhali Subproject	DR	318000	√			173000		173000	63800	
39	43041	Sonbonia SP	DR	260000	√			68000		68000	23000	
40	43042	Atrai-Burigonj SP	DR	266000	√			63800		63800		
41	43043	Dehergati SP	DR	380000	√			117766	170000	287766	170000	600
42	43044	Garabania Subproject	DR	141000	√			95700		95700	80700	
43	43045	Pokkhali Naikhongdia SP	WC (RD)	1200000	√		√		80200	80200	80200	
44	43046	Thim Chari Purbakul SP	WC (RD)	600000	√		√		45000	45000	24000	
45	43047	Paschim Digulia SP	WC	665000	√		√					

Sl. No.	SP ID No.	Subproject Name	SP Type	Upfront O&M Fund (FDR) (Tk.)	Interest Accrued from FDR				Collection in O&M Operating Fund (S/AC) (Tk.)	Total Operating Fund (Tk.)	Expended against O&M works	
					Matured	Not Matured	Not drawn	Amount (Tk.)			From Operating Fund (Tk.)	Voluntary works (Man-days)
1	2	3	4	5	6	7	8	9	10	11 (9+10)	12	13
			(RD)									
46	43048	Deshantarkathi-Goaribonia Subproject	DR	275000	√			95000		95000	55000	
47	43049	Kafila-Krishnanagar SP	DR	460000	√			149200		149200		83
48	43050	Moddah-Purba Rajapur SP	DR	240000		√						
49	43051	Monirjheel-Sonaichari Khal SP	WC (RD)	665000	√			280520	38200	318720	22000	
50	43054	Mafijan SP	WCD	342000	√			128250		128250		
51	43055	Dholdholia SP	FMD	300000	√			120000	30000	150000	150000	
52	43056	Latifpur-Etbarpur Khal SP	DR	350000	√			143000		143000		
53	43057	Adabaria SP	FMD	276000		√						
54	43058	Shabupura Khal SP	DR	225000	√		√				25000	
55	43059	Kederpur-Gobindapur SP	WCD	300000	√			113000		113000		
56	43060	Ponahura SP	FMD	632000	√			192000		192000	60000	42
57	43061	Bhagalpur-Montala SP	FMD	1020100	√			302912		302912		
58	43062	Gouripur SP	DR	313000	√		√					
59	43063	Kuthurakandi Khal	WCD	142500	√			400000		400000	15500	
60	43064	Dier Khal SP	FMD	275000	√			54440		54440		
61	43065	Bhanga Kha- Niamatpur SP	WCD	267500		√						
62	43066	Bhelumia SP	DR	411000	√		√					
63	43067	Purba Char Madras SP	DR	573000	√		√					
64	43068	Paschim Char Madras SP	DR	440000	√		√					
65	43069	Char Samaia SP	DR	222000	√		√					
66	43070	Panchagram SP	DR	483000		√						
67	43071	Bokrabari SP	WCD	285000	√			102600		102600		
68	43072	Pathuria-Kalibari SP	FMD	615000	√			218688		218688		
69	44074	Swarupdaha Dhunar Khal SP	WCD	193500	√			63300		63300	46300	
70	44075	Losnabad Phalaghar SP	DR	325000	√			95000	65000	160000	65000	117
71	44077	Saorakathi SP	DR	500000	√		√					
72	44078	Dhankundi SP	FMD	140000	√			37689	10000	47689	20000	
73	44080	Chollish Kahania SP	DR	330000	√			94000		94000	94000	
74	44081	Thakur Mollik SP	DR	450000	√			138500		138500		448
75	44083	Amua Patikhalghata SP	DR	341000		√						
76	44084	Shitly Khal SP	DR	180000	√			56018		56018		
77	44092	Faridpur Badurerjan SP	FMD	200000	√			72500		72500		
78	44093	Paschim Joar SP	CAD	265000	√		√					
79	44094	Shree Khal SP	WCD	375000	√			103135	30000	133135	20000	
80	44095	Kalapania Khal SP	WCD	365000	√		√				20000	27
81	44097	Dudhal SP	FMD	340000	√		√					
82	44101	Bonduk Khali Khal	FMD	76500		√						
83	44103	Gotkhali-Chalitabunia Khal SP	DR	341000	√			95000		95000	85000	
84	44104	Sarengal SP	DR	310000	√			118000	139500	257500	255000	433
85	44106	Sachilapur SP	DR	270000		√						
86	44107	Amail-Indail SP	WCD	330700	√		√		24000	24000	14500	
87	44111	Kashipur SP	DR	497200	√			122000		122000	97200	123
88	44112	Harirampur Beel SP	FMD	240000		√						
89	44113	Jhury Bridge-Jangalpara Khal SP	FMD	385000	√			126766	37000	163766		
90	44117	Deulkathi Binnapara SP	DR	345000		√						
91	44119	Banglabazar-Gopalpur SP	WCD	350000	√			55009		55009		
92	44125	Chakhar SP	DR	450000	√		√				37000	83

Sl. No.	SP ID No.	Subproject Name	SP Type	Upfront O&M Fund (FDR) (Tk.)	Interest Accrued from FDR				Collection in O&M Operating Fund (S/AC) (Tk.)	Total Operating Fund (Tk.)	Expended against O&M works	
					Matured	Not Matured	Not drawn	Amount (Tk.)			From Operating Fund (Tk.)	Voluntary works (Man-days)
1	2	3	4	5	6	7	8	9	10	11 (9+10)	12	13
93	44127	Haripasha Pironda SP	DR	397000	√		√					
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	324000	√			82221		82221		
95	44131	Guarekha SP	DR	300000	√		√					
96	44135	Debdun-Bauisona Khal SP	WCD	115000	√			12000		12000		
97	44136	Paschim Chhayam Takta SP	DR	244000	√		√		84000	84000	84000	160
98	44143	Hetalia-Ballabhpur Khal SP	DR	445000		√						
99	45145	Naimuri Alidaha SP	WCD	425000	√			81750		81750	20000	
100	45148	Bot-tola SP	WCD	383000		√						
101	45150	Chandpasha SP	WCD	302000		√						
102	45152	Biddyanandapur SP	DR	210000	√		√				22000	
103	45157	Satail Beel SP	DR	520000	√			83200		83200		
104	45168	Chalitabunia-Ghatichara SP	WCD	471000	√		√				124000	183
105	45173	Charadi SP	WCD	421000		√						
106	45180	Tengrakhal Char Tengrakhal Khal SP	WCD	278000		√						
107	45205	Napitkhali Burirchar Khal SP	DR	285000		√			5000	5000		
108	45211	Uttampur SP	DR	235300		√						50
109	46240	Amtoly Ruhita Potkakhali SP	DR	452000		√			10000	10000		
Grand Total (109 SPs):				39284175	89	20	27	7561320	2101231	9662551	4033921	2417
Average (109 SPs):				360405.275				123956	84049	142096	93812	186
Range:												
Minimum				76500				12000	5000	5000	7500	27
Maximum				1200000				400000	400000	680000	500000	600

109 61 25 68 43 13

68. The initial upfront O&M contributions for these one hundred nine subprojects added up to BDT 39.28 million. The initial O&M contribution amount for these one hundred and nine subprojects has been fixed deposited for three years in a jointly operated account as initial O&M contributions. Interest accrued from the fixed deposit accounts after maturity is deposited in a savings account for operating routine maintenance. The principal amount in fixed deposit is fixed deposited again jointly with concerned Upazila Engineer. The amount received as interest and the O&M fund collected from the beneficiaries is deposited in operating savings accounts and used to cover the routine maintenance costs.

69. In the ninety nine of one hundred nine subprojects, the O&M plan and budgets prepared by the WMCAs in 2016-2017 year is worth BDT 40.26 million. This seems more than adequate, as the initial O&M contribution is estimated to be the cost of O&M for one year. A total of over Tk. BDT 4.03 million was spent as well as 2,416 person days generated by voluntary physical works in maintenance works in the ninety nine subprojects in 2016-2017. This includes both in-kind and cash expenditures, and represents around 17% of the initial O&M contribution (or 12.5% of what was estimated as annual budget for maintenance).

9. PERFORMANCE ASSESSMENT ON GENDER & DEVELOPMENT

9.0 GENDER AND DEVELOPMENT

Gender and Development issues have been identified as crosscutting priority by both the Government and the development partners in order to enable women and girls to get the benefit of development and thus reduce the existing gap in their comparative situation with men and boys. It deals with unequal relations of power that prevents equitable development and women's full participation. The gender and development is concerned with the

interdependent relations between men and women, the ways in which these relationships produce inequalities between them, for instance in access to resources within the family, community and wider institutions; while absence of discrimination on the basis of a person's sex in opportunities and the allocation of resources or benefits or in access to services confirm gender equality. An approach of gender equity is concerned with equality of outcomes and can be seen as the means to achieve gender equality. Consequently integration of gender equity concerns into the analyses, formulation and monitoring of policies, programmes and projects, with the aim of reducing inequalities between women and men.

The principle of "leaving no one behind" guides every goal of the 2030 agenda and the focus on gender equality and women's empowerment is explicit across all the SDGs, both as a stand-alone goal (*SDG 5: Gender equality and empowerment of women and girls*) on gender equality and as a cross-cutting theme with more than 30 related targets. Gender equality is a necessary foundation for a fair, peaceful, prosperous and sustainable world. The concept of gender equity not only recognizes the different needs of women and men, but also acknowledges that women and girls have been disadvantaged due to past discrimination and require additional support to rectify the existing gender imbalance. However fairness and justice in the distribution of benefits and responsibilities between women and men is an obligation to ensure gender equity.

The main objectives of the project is to increase agricultural and fisheries production to enhance rural employment and contribute to poverty reduction by developing sustainable, stakeholder driven small scale water resources development subprojects. The Project documents recognize that the involvement of local stakeholders, men as well as women, is crucial to ensure that the investment decisions have the full support of the local communities. The Project documents specify various elements of women's involvement in all aspects of the Project, including women participation in subproject planning, WMCAs and their Management Committees, Labour Contracting Societies (LCS) groups for earthworks, the employment of destitute women for tree plantation along embankments, the employment of women groups for maintenance of embankments, work opportunities in fisheries development activities, etc. It should be noted that women cannot contribute simply by appearing at meetings in large numbers. They must be involved in subproject decisions and they must express their own thinking to better develop themselves.

It needs to be described that Sub-project Participatory Development Process, Institutional membership in cooperatives and in different subcommittees, savings, IGA training, construction works as LCS members have brought significant positive impacts in their lives. Women's participation has been ensured in 3-stages of sub-project cycle and all levels of activities. The 3-stages and activities are Stage 1: Subproject Identification and Feasibility (PRA and Feasibility Study); Stage 2: Design and Institutional Establishment (Formation of WMCAs, Bye-Law Drafting Committee and Managing Committee with one third female membership); Stage 3: Construction and First Year of Operations and Maintenance (Mitigation Measures, LCS training and LCS works, IGA and O&M, etc.).

9.1 Progress of Gender Action Plan

As per ADB, the project is classified as Gender Equity Theme (GEN) category and has a Gender Action Plan (GAP) which aims at supporting the project to ensure women's active participation in every process of planning, implementation, supervision, operation and maintenance of the sub-projects. The Gender and Development activities have been implemented as per GAP and the progress of gender aspects has been reported in quarterly basis with challenges regarding implementation of the project. The reports included the involvement of men and women in the subproject Participatory Development Process which was clearly summarized according to gender activities and activities for the three main stages of the subproject Participatory Development Process while indicators, targets, and progress are indicated for each activity with some explanations when necessary.

As per GAP, the gender section supported to ensure women's membership in Water Management Cooperative Association (WMCA) and its' committees as well as sub-

committees. One of the main activities of the gender section was organizing and implementing gender awareness training for all levels of staff and WMCA members (male and female both) as well as LGED Engineers and partner agencies (Department of Women Affairs, Department of Agriculture Extension, Department of Cooperatives). This section also created opportunities for poor women to establish a linkage with government's line agencies by providing *Training of Trainers (TOT) on Gender and water Management* for the government officers working in the various departments at the District and Upazila levels. The officers worked as co-trainers together with project specialists and LGED engineers for skill development training as well as on-farm and off-farm IGA training for livelihood development training for WMCA members. *Training on Role of women in decision making process* had been organized for the female members of WMCA to make sure that women are competent to play vital role in WMCA and in its' activities. Gender issues have also been included in the approved Resettlement Frame work (RF) and specific Resettlement Plan (RP) has been prepared and compensation ensured accordingly with the focus on Female headed households (FHH) and households with disabled people and given additional compensation in addition to their loss of asset following ADB policy.

9.1.1 Gender Analysis of WMCA and its' Activities

This project has given emphasis of sub-project implementation through construction of the structures as well as ensured people's participation at all levels of project implementation process. A Water Management Cooperative Association (WMCA) has been formed in each sub-project and registered by Department of Cooperative to ensure local peoples' active participation through an institution. Men and women live in subproject area are eligible for membership of WMCA, as a ground rule of the project that a minimum of 33% women have to be members in WMCA with the representation of all sorts of categories of family, for example; farming family, fishing family, poor and vulnerable family etc. Access to the WMCA membership also gives them opportunities to be the members of its Managing Committee and other relevant sub-committees and income groups. It needs to be reported that women's memberships have brought significant positive impacts in their lives and livelihoods at home and the community as well as their awareness and commitment towards the society. WMCA Offices were planned at all 109 sub-projects and is constructed when land was made available by a WMCA member by free of cost or WMCA was able to buy the land.

The gender analysis of WMCA and its' activities have been narrated in the following sections of this report while key statistics have been taken from the records of the Management Information System (MIS) and Project Implementation Consultants (PIC).

9.1.2 Membership Assessment

The current implementation status of the project is total members in 109 WMCAs are 57,288 with 38% women members (35,722 Male & 21,566 Female) which is very encouraging. The target was set minimum of 33% women membership but achieved average 38% women membership that shows the interest of women participation has been increased gradually. WMCA members' have been represented from all sorts of categories of family, for example; farming family, fishing family, poor and vulnerable family etc. Access to the WMCA membership also gives them opportunities to be the members of its Managing Committee and other relevant sub-committees and income groups. It needs to be reported that women's memberships have brought significant positive impacts in their lives and livelihoods at home and the community as well as their awareness and commitment towards the society. A minimum of 30 members (15 male and 15 female) received Gender Awareness Training from the project. Many more trainings have been provided to WMCA members those are mentioned in the following sections of this report.

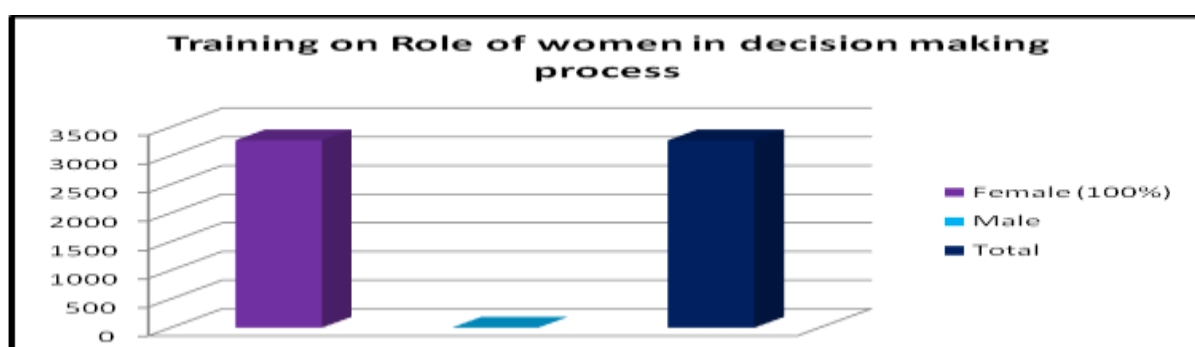
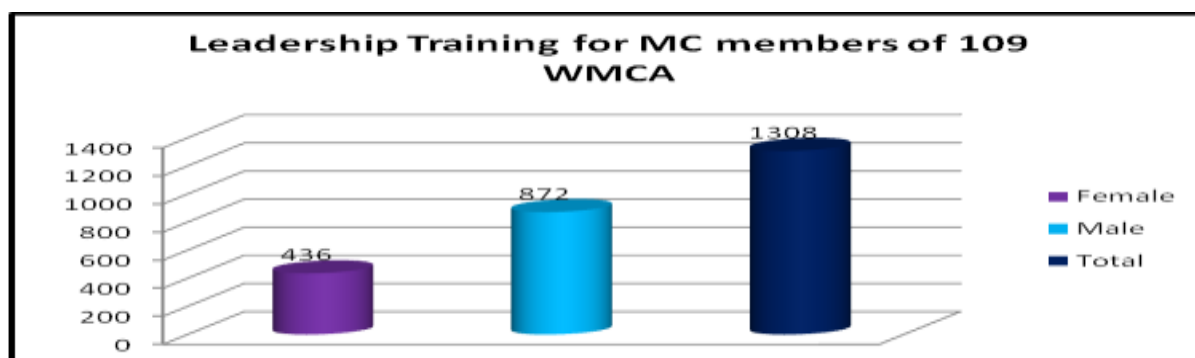
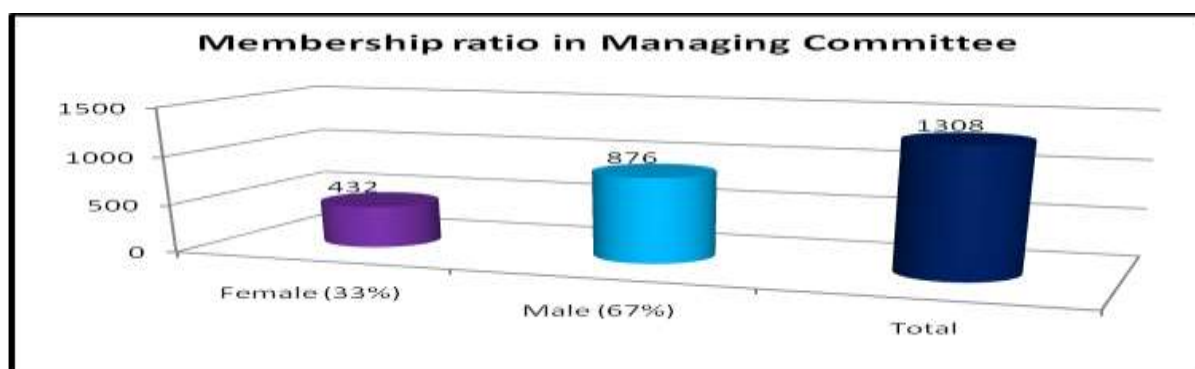
No. of WMCA	WMCA Membership			Percentage	
	Male	Female	Total	Male	Female
109	35,722	21,566	57,288	62%	38%



9.1.3 Empowerment of Women through involving in decision making process

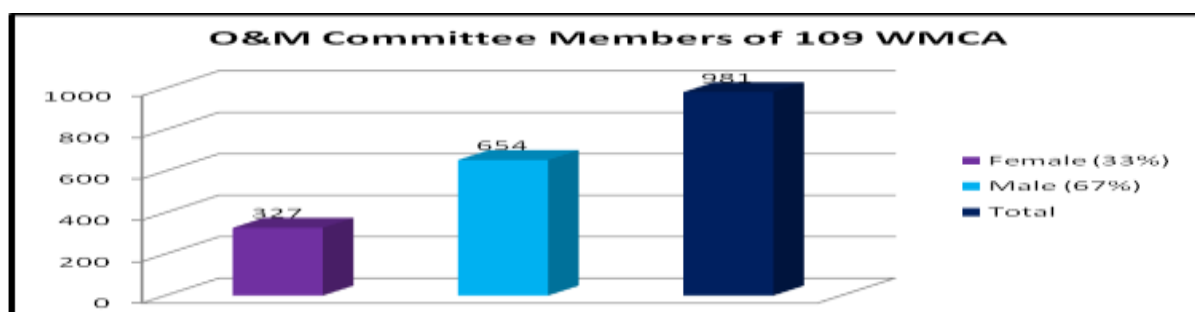
The gender section provides leadership training to the women members of various sub-committees and other potential members of WMCA that help them to play vital role in decision making process. Importance was given to hold leading positions by the women in micro credit subcommittees to promote their leadership and access to decision making process. The gender section provided leadership training to the 1308 members of Managing Committee of 109 WMCA's where women are holding 33% of Managing Committee (MC) membership, as a MC member, they have access to all discussions and decisions held at the MC. This section also provided training on "Role of women in decision making process" only for female members for various sub-committees as well as other potential members of WMCA that help them to play a vital role in decision making process. Importance was given also to hold leading positions by the women in micro-credit subcommittees to promote their leadership and access to decision making process regarding selection of applicants for loan and any other issues related to WMCA and its management. The project has given emphasis on women's role in decision making process and economic empowerment of women. At least 33% or a minimum one third women's participation had been ensured at all levels of sub-committees to make sure that women can raise their voice as well as contribute to the decision making process of sub-project implementation and WMCA management process. The sub-committees are i) O&M sub-committee, ii) Gender sub-committee, iii) Agriculture sub-committee, iv) Fisheries sub-committee, v) Environmental sub-committee).

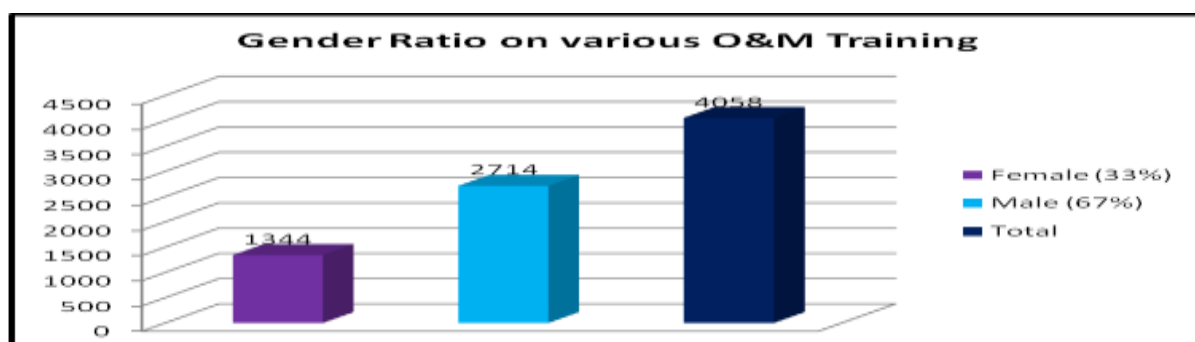
A significant numbers of women became treasurers of the WMCA while few of them became Secretary and President of the WMCA. This process is slow but effective and it also opens other avenue for these groups of women, for example; in some places, WMCA members became elected member of Union Parishad for the motivation of her self-sacrificing work for the community. This process gives rural women to be part of local government institutions and contribute to the bigger community with her gained knowledge and experiences from WMCA.



9.1.4 Women's participation in Operation and Maintenance work

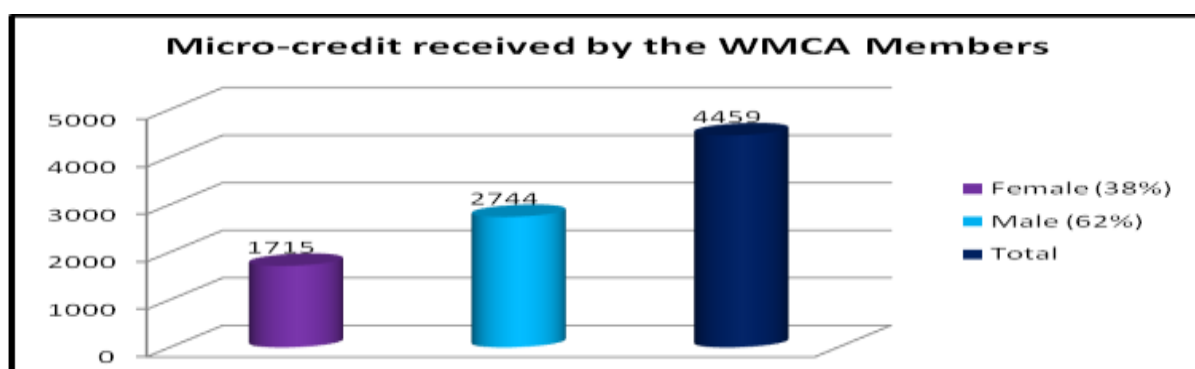
Most of the constructions have been completed and some are going on, in that context, irrigation and water management system of these areas should be inclusive for all the male and female farmers, particularly the poor farmers. Active participation of women members in operation and maintenance of the sub-projects is crucial in order to make it sustainable and inclusive for all the community male and female irrespective of their ethnic identity and economic status. Training on "Operation and Maintenance for male and female members of WMCA" held for two days where a gender session had been included and conducted. Total 33% women received this training while total 4058 participants including 2714 Male and 1344 Female attended the 140 courses. This gives an impression that women members will take responsibility for operation and maintenance work of WMCA.





9.1.5 Women's participation in WMCA's Micro-credit Program

As per project design every sub-project has formed a WMCA and registered with cooperative department. According to cooperative system, every member has to buy a share and must deposit regular savings either monthly or weekly as per agreed in their bye-laws. Micro-credit development is important for WMCA capital formation and to provide loans to members, especially from poorer sections of the community, to create income generating opportunities and improve their livelihoods. Membership, the accumulation of capital funds and micro-credit activities are reviewed for the 109 completed sub-projects. Capital funds include: *shares* – each member is required to buy a minimum number of shares at a fixed price per share; and *savings* – any member may save money with the WMCA capital fund. Interest accrues to individual members according to the number of shares held. Micro-credit schemes have been started at sub-projects using the WMCA capital fund to make small loans to members. Until now, micro-credit loans had been made to 4459 members, 1715 females (38%) and 2744 males (62%). Usually flat interest rate is charged for loans, typically 12 per cent; loans are paid back within 12 months. The micro credit fund is WMCA's own fund not project fund so they manage in their own way through the micro credit sub-committee where male are dominating; on the other hand women are not yet ready neither trained to do so for a huge work voluntarily in addition to all other family work.



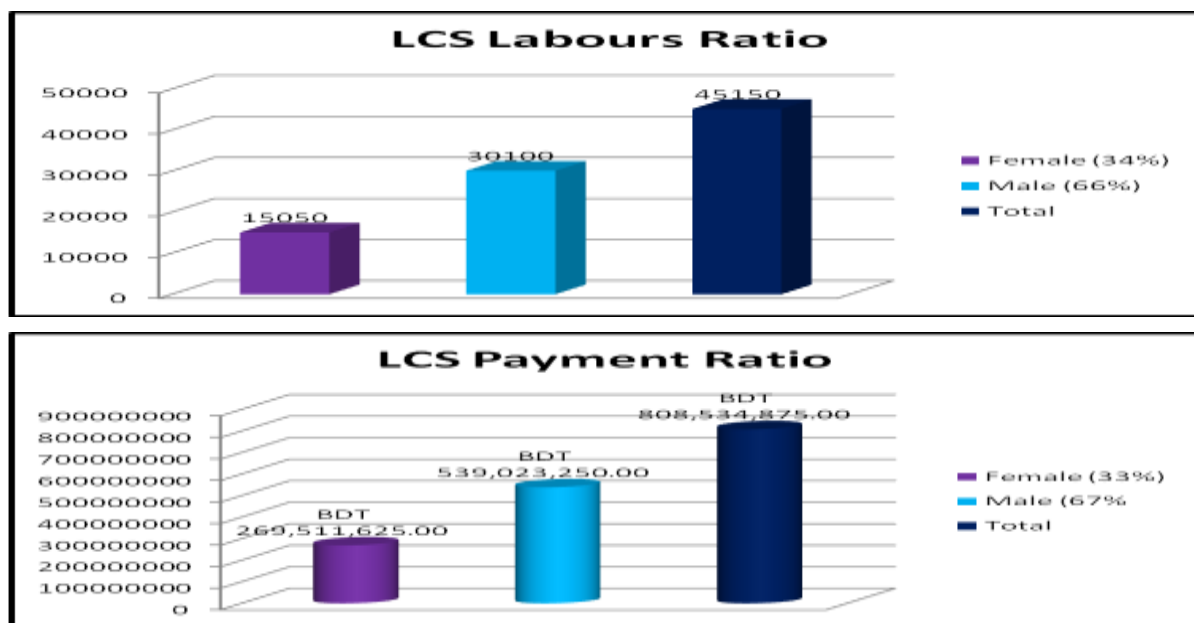
9.2 Employment opportunity for male and female members of WMCA

Women's memberships in cooperatives are playing a vital role for WMCA management as well as operation and maintenance work. Generally WMCA members have been given scope for share and savings as well as access to the microcredit, skill training, IGA training, construction works as LCS members. Access to the proper knowledge and information on farming and non-farming IGA activities through training, exposure visits along with the micro-credit supports from their own cooperatives have improved their livelihoods. The poor members are given opportunities for employment opportunities created by the project either directly or with the partnership of other line agencies of government machineries.

9.2.1 Labour Contracting Societies (LCS)

This project has limited opportunity for generation of employment for rural women except construction labour and earth work which is not equally acceptable in all districts due to lack of consciences as well as other influences. Labour Contracting Societies (LCS) is the key to do earthwork for khal excavation and embankment strengthening provide employment

opportunities to rural poor, men and women. However, destitute women's involvement in LCS works in some places is still limited due to the social values, local tradition, religious superstitions and cultural practices and when the construction works become highly mechanical rather than manual. Nevertheless, this is appreciable that the work done by the project in ensuring that 99 sub-projects could able to recruit poor men and women out of 109 sub-project while total labours were 45150; out of those 15050 women labours' participated as work force and in most places which was superficial that equal wages have been paid. Anyway the payments to all LCS labours are Tk.808534875.00 when male labours received Tk.539023250.00 and female labours received Tk.269511625.00 which seemed 33% amount has been spent to female labours. See in chart below.



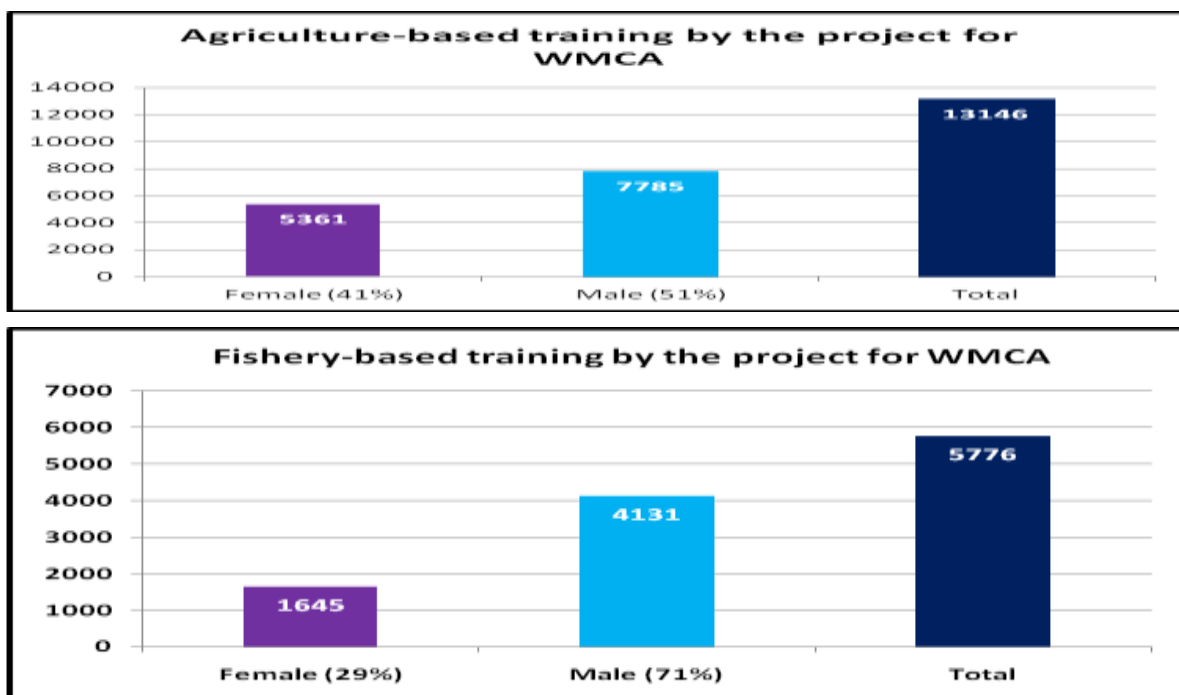
9.2.2 Livelihood development through off-farm IGA

The gender section also creates opportunities for poor women to establish a linkage with government's line agencies for skill development training as well as on-firm/off-farm IGA training for livelihood development. The project have organized "*Training of Trainers on Gender in Water Management*" for partner agencies and trained a total of 747 (male 530 & female 227) officers who works in districts, Upazila/sub-districts and headquarters of Department of Women Affairs (DWA), Department of Cooperatives (DOC) and Department of Agriculture Extension (DAE) with the intention that those trained official will be the co-trainers in all relevant training provided by the project as well as they will provide training to WMCA members to help them for IGA. For last few years, the trained officers are regularly working with the project training team at districts, Upazila/sub-districts and headquarters as co-trainer in the courses organize by the project. They are also supportive to the WMCA members whenever they go to Upazila or district for any specialized support as they have linked with the facilities provided by the agencies; DAE, DOC and DWA. A total of 85 batches of training for 2718 participants on IGA (Income Generating Activities) for Livelihood Development for WMCA Female Members held for two days for each batch by the project. In addition, WMCA members regularly participate in different types of training organized by the line agencies and start their livelihood activities with their assistance.

9.2.3 Livelihood development through On-farm IGA

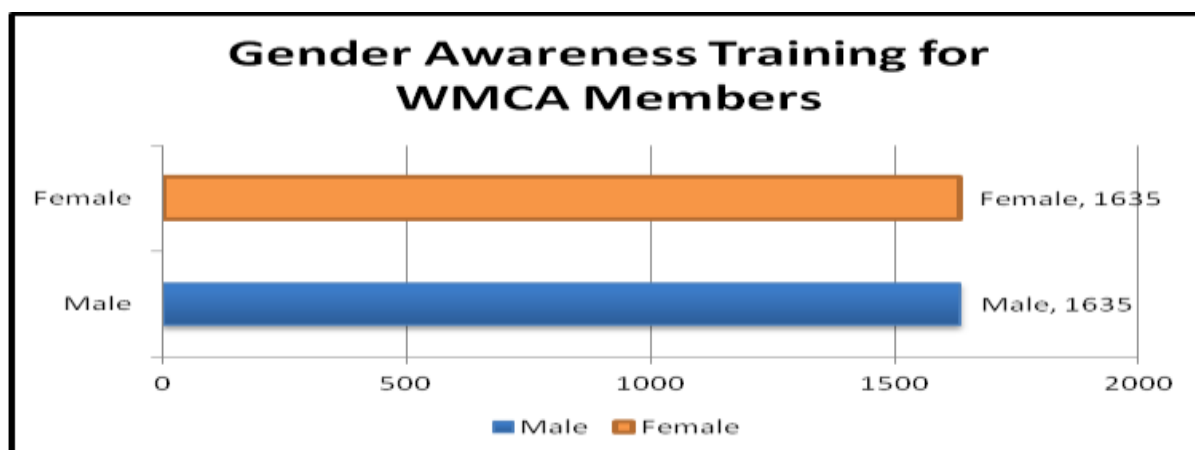
A comprehensive need assessment had been done to get the demand of what sorts of training required on Income Generating Activities for female members of WMCAs. Accordingly 30 batch of training had been organized for 900 female members of 30-WMCAs on various issues related to farming while "demand led training on on-farm water management" for 3-days each batch also organized for 48 female and 114 male members of WMCA. In this regard total 493 male and 232 female received training on agriculture resources management. More specifically, total 900

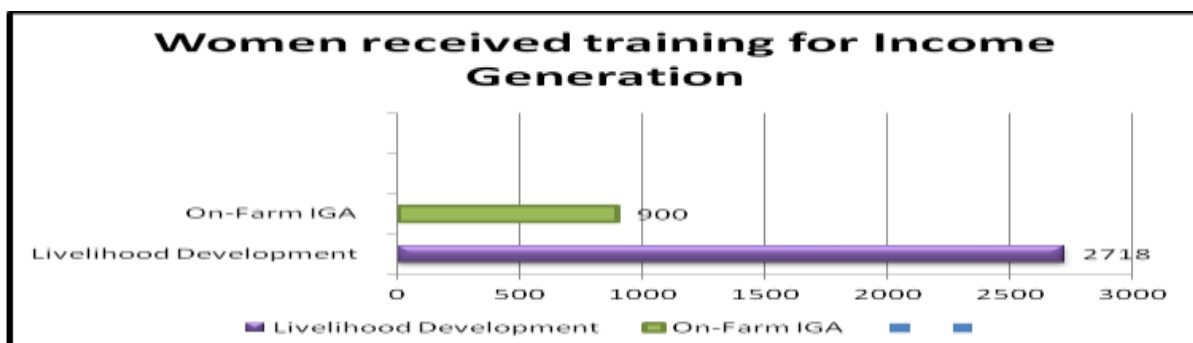
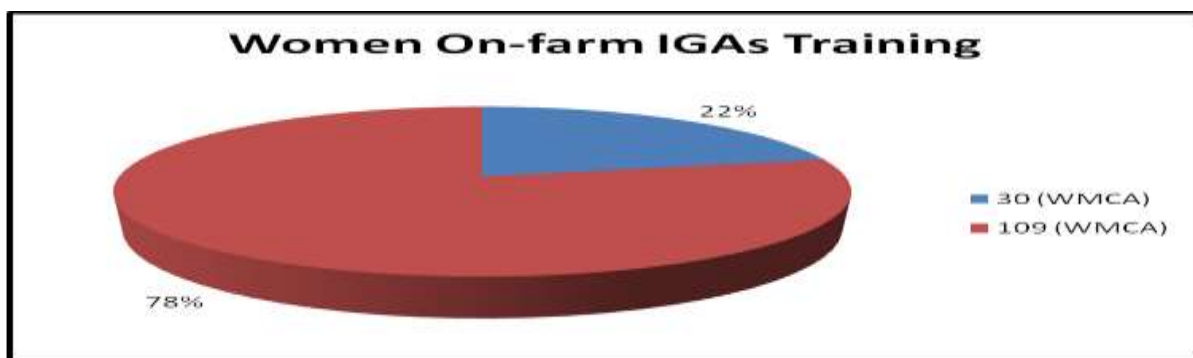
selected female members from 30 WMCA received training by 30-batches on “Women On-farm IGAs for vegetable cultivation and duck, poultry & cattle rearing” for 2-days each. Most of the successful women received awards from LGED for their agriculture based IGA activities. In total 13146 male and female members of WMCAs have been trained on agriculture based program to start IGA and the courses were well-liked by the women.



9.3 Training

The Gender and Development training activities included in separate section of this report where details training programs reported. There were some training organized only for female members of WMCA for example; “Role of Women in Decision Making Process for WMCA female members” held for one day for 3270 female participants. This course was designed to make women more focus on their issues when they raise the voices and gave them tips how to raise their issues during meetings. Gender Awareness Training held for WMCA Members, Project Staff, LGED Engineers, Officers of Partner Agencies, PRA staff and Local Government Institutions. A total of 25 batches Gender Awareness Training for the 1049 participants (Chairmen and Female Members of Union Parishad) have been organized to increase their awareness on importance of gender in WMCA activities; and they could work together for poverty reduction and gender and development.





9.4 Conclusion

The PSSWRSP has implemented a total of 109 subprojects during reporting period and the category wise subprojects are: 6 WC, 20 FMD, 47 DR, 29 WCD and 7 CAD subprojects. As impact of this project, women have to do more work while crops production increased and also increased their income so that they are living better life than before. The data from MIS and field experience of gender team indicated that all types of subprojects implementation do not have same impact on the women's lives and poor people. Women are mostly involved for household works and pre- and post- harvesting work of agriculture product. After involvement of WMCA they received various training from the project and line agencies of the government so that they could start new income generating activities for their family welfare. Women became successful vegetable grower, pond fish farmer, small business or shop keeper by which they became self-reliant. These help women to be empowered and access to decision making process. In this process, women are taking decision of sending children to the school; reject dowry and early marriage and other rights of women.

10. CAPACITY BUILDING PLAN AND ITS PERFORMANCE ASSESSMENT

10.1 BACKGROUND

The Participatory Small Scale Water Resources Sector Project (PSSWRSP), being implemented by Local Government Engineering Department (LGED) includes among others, an extensive capacity building program across all subproject activities. This capacity building program provides training courses which are the principal means by which the project supports capacity development. Training program mainly addresses three domains of human development viz; Knowledge, Attitude and Practice. The objective of performance assessment of capacity building program is to evaluate the effectiveness of training activities on Project Orientation Management & WMCA Establishment courses, Planning, Design & Construction training courses, Operation & Maintenance training courses, WMCA Establishment, Management & Cooperatives courses, Agriculture training courses, Fisheries training courses, Environment training courses, Gender & Development training courses and Resettlement training courses. This report aims to prepare EME Report on 109 SPs completed before June, 2017.

10.2 Capacity Building Plan

The Project has a comprehensive training Program within the DPP with a provision of US \$ 7.50 million (BDT 509.8 million). In DPP, nine training sectors were identified with course title, course code, course events, course duration, trainee-days, category of participants and fund allocation for each sector. A Summary of nine training sectors is shown in **Figure-8**.

Figure-8: Summary of Nine Training Sectors

Sl. No.	Name of Training Sector	Events	Quantity (Trainee-days)	Estimated Cost (In lac Tk.)
1.	Project Orientation & Management	517	116928	1062.39
2.	Planning, Design and Construction	709	52742	309.67
3.	Operation & Maintenance	743	20404	441.84
4.	WMCA Establishment/Management & Cooperative	2208	93467	1943.49
5.	Agriculture	1053	133358	364.47
6.	Fisheries	219	55756	343.68
7.	Environment	346	12125	190.32
8.	Gender & Development	1030	6318	442.74
9.	Resettlement	-	0	-
Total :		6825	491098	5098.6

10.3 Revised Capacity Building Plan

The Capacity Building Plan was prepared in 2008 under the Project Preparation Technical Assistance (PPTA). Later on, this Capacity Building Plan was included in DPP. After approval of DPP, it was identified that the unit cost of training components is less than the approved cost of LGED. Accordingly, the Capacity Building Plan was reviewed by PMO & PIC and a budget neutral Capacity Building Plan was prepared which was approved by the Chief Engineer, LGED and sent for ADB's concurrence accordingly. ADB reviewed the Revised Capacity Building Plan and gave their concurrence on 13 May, 2015. A summary of the Revised Capacity Building Plan is given in the following **Figure-9**.

Figure-9: Summary of Revised Capacity Building Plan

Sl. No.	Items	Capacity Building Plan as per DPP		Revised Capacity Building Plan		Remark
		Cost (in Lakh BDT)	Event (No.)	Cost (in Lakh BDT)	Event (No.)	
1.	Project Orientation & Management	1062.39	517	1229.27	599	
2.	Planning, Design and Construction	309.67	709	440.59	1009	
3.	Operation & Maintenance	441.84	743	335.65	565	
4.	WMCA Establishment/ Management & Cooperative	1943.49	2208	1341.33	1524	
5.	Agriculture	364.47	1053	631.70	1365	
6.	Fisheries	343.68	219	613.94	390	
7.	Environment	190.32	346	187.20	340	
8.	Gender and Development	442.74	1030	256.67	600	
9.	Resettlement			62.26	41	
Total		5098.60	6825	5098.61	6433	

Note: Resettlement Training is for LGED Officials

10.4 Implementation of Training Courses for 109 WMCAs

The project training program at large is conducted in 61 districts of Bangladesh (except 3 hilly districts) to implement 265 new subprojects. These training courses have been conducted mainly by LGED, Department of Agricultural Extension (DAE), Department of Fisheries (DoF), Department of Cooperatives (DoC)-BARD, Comilla and RDA, Bogra & Department of Women Affairs. Considering availability of logistic supports, convenience of the participants' and other relevant factors for the sake of effectiveness of the training program, venues of the training courses were selected at LGED HQ, LGED district and Upazila offices, Subproject level, BARD, RDA, CZI (Cooperative Zonal Institute), Directorate of Women Affairs offices etc. Summary of Sector-wise implementation of training courses for WMCAs as on June, 2017 is shown in **Table-9**. It is observed in the table that 2290 training courses were delivered where 72484 participants attended the courses of which 45185 were male and 27299 were female (37.66%).

Table-9: Summary of Sector-wise Implementation of Training Courses as on June, 2017

SL. No.	Training Sector	No. of Training Courses	Trainees Disaggregated by Gender				
			Male	Female	Total	% Male	% Female
1.	Project Orientation & Management	122	1210	473	1683	71.90	28.10
2.	Planning, Design & Construction	421	15684	8481	24165	64.90	35.10
3.	Operation & Maintenance	140	2714	1344	4058	66.88	33.12
4.	WMCA Est. & Management	490	12234	6367	18601	65.77	34.23
5.	Agriculture	564	7785	5361	13146	59.22	40.78
6.	Fisheries	387	4131	1645	5776	71.52	28.48
7.	Environment	22	330	330	660	50.00	50.00
8.	Gender & Development	144	1097	3298	4395	24.96	75.04
Grand Total :		2290	45185	27299	72484	62.34	37.66

Sub- Project and its type wise details of Training Courses and trainees disaggregated by Gender for Project Orientation & Management Courses, Planning, Design & Construction, Operation & Maintenance, WMCA Est. & Management, Agriculture training, Fisheries training, Environment training and Gender & Development training courses have been shown in **Tables B.1, B.2, B.3, B.4, B.5, B.6, B.7 & B.8** respectively.

Table 10: Subproject-wise Training Courses & Trainees with Gender Disaggregated

Subproject			B1: Project Orientation & Management Training Courses, Trainees Disaggregated by Gender for Subprojects				B2: Planning, Design & Construction Training Courses, Trainees Disaggregated by Gender for Subprojects				B3: Operation & Maintenance Training Courses, Trainees Disaggregated by Gender for Subprojects				B4: WMCA Establishment & Management Training Courses, Trainees Disaggregated by Gender for Subprojects				B5: Agricultural Training Courses, Trainees Disaggregated by Gender for Subprojects				B6: Fisheries Training Courses, Trainees Disaggregated by Gender for Subprojects				B7: Environment Training Courses, Trainees Disaggregated by Gender for Subprojects				B8: Gender & Development Training Courses, Trainees Disaggregated by Gender for Subprojects				Total No. of Training Courses	Total No. of Male Trainee	Total No. of Female Trainee	Total No. of Trainee
ID No.	Name	Type	No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees						
				Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total				
41001	Nimai Khari Khal	WCD	2	20	9	29	1	5	2	7	3	74	39	113	3	20	8	28	8	135	60	195	8	64	38	102	1	15	15	30	2	15	45	60	28	348	216	564
41002	Purba Sarail Madhai Khal	WCD	2	20	6	26	6	130	127	257	2	11	4	15	6	195	95	290	11	127	110	237	6	62	25	87	2	30	30	60	2	15	45	60	37	590	442	1032
41003	Baika-Barahapania	FMD	2	20	11	31	1	5	2	7	3	16	7	23	3	193	81	274	9	124	78	202	8	89	31	120	1	15	15	30	3	15	75	90	30	477	300	777
41004	Chak Govindapur-Aldadpur	WCD	1	8	4	12	2	40	17	57	2	68	38	106	3	20	8	28	9	163	87	250	7	63	29	92	1	15	15	30	2	15	45	60	27	392	243	635
41005	Kanakdia FMD	FMD	2	19	9	28	1	5	2	7	1	65	35	100	3	19	8	27	8	103	83	186	3	42	3	45	0			0	2	15	45	60	20	268	185	453
41006	Bhelabari Durgapur	WC (RD)	2	20	8	28	1	5	2	7	2	69	38	107	2	25	12	37	11	122	106	228	5	44	18	62	1	15	15	30	2	15	45	60	26	315	244	559
41007	Harwalchari	WC (RD)	2	21	9	30	1	5	2	7	3	19	4	23	6	222	69	291	10	160	97	257	3	42	3	45	1	15	15	30	2	15	45	60	28	499	244	743
41008	Goshinga-Sitalakha	CAD	2	20	7	27	1	5	2	7	3	15	7	22	4	27	12	39	9	135	48	183	7	69	23	92	0			0	3	15	75	90	29	286	174	460
41009	Kusta Thakurkandi FMD	FMD	0			0	1	5	2	7	3	16	7	23	4	139	87	226	10	113	123	236	5	71	7	78	1	15	15	30	3	15	75	90	27	374	316	690
41010	Swarnakhali Khal	FMD	2	20	7	27	1	5	2	7	3	16	7	23	5	33	14	47	11	175	109	284	6	85	35	120	0			0	3	15	75	90	31	349	249	598
41011	Noapara-Hazirdhara	WCD	2	19	8	27	2	80	2	82	3	74	39	113	6	134	30	164	10	130	139	269	3	32	13	45	1	15	15	30	2	15	45	60	29	499	291	790
42013	South-Gohat	CAD	1	8	4	12	4	185	122	307	2	70	36	106	4	28	12	40	6	98	36	134	7	73	34	107	0			0	1	15	15	30	25	477	259	736
42014	Udura Khal	CAD	1	8	4	12	4	244	112	356	2	12	4	16	4	27	12	39	7	82	66	148	7	73	34	107	0			0	0			0	25	446	232	678
42015	Sunduri Khal	CAD	0			0	5	253	125	378	2	12	4	16	2	13	6	19	4	55	24	79	3	32	13	45	0			0	1	15	15	30	17	380	187	567
42016	Gabua Fultala	WCD	2	21	6	27	17	1159	598	1757	2	11	6	17	5	32	14	46	10	151	69	220	7	77	30	107	1	15	15	30	2	15	45	60	46	1481	783	2264
42017	Nabinpur-Dholar Beel	FMD	0			0	5	146	80	226	2	69	38	107	5	128	339	467	7	74	130	204	7	83	24	107	1	15	15	30	2	30	60	90	29	545	686	1231
42018	Kata Khal	FMD	2	20	7	27	2	22	10	32	1	4	3	7	6	183	109	292	10	130	146	276	6	87	35	122	1	15	15	30	3	15	75	90	31	476	400	876
42020	Ulushikhal	WCD	2	20	8	28	5	184	198	382	2	69	38	107	6	43	20	63	5	66	32	98	8	91	31	122	0			0	2	15	45	60	30	488	372	860
42021	Fasiakhali Irrigation	CAD	2	21	7	28	1	5	2	7	2	12	4	16	5	241	65	306	6	114	40	154	6	69	8	77	0			0	2	15	45	60	24	477	171	648
42022	Sapleza DR-1	DR	0			0	7	369	268	637	2	12	5	17	4	23	10	33	8	103	71	174	6	63	29	92	0			0	2	15	45	60	29	585	428	1013
42023	Jalabaria DR-1	DR	0			0	8	435	247	682	2	69	38	107	4	27	12	39	3	34	46	80	6	64	28	92	0			0	2	15	45	60	25	644	416	1060

Subproject			B1: Project Orientation & Management Training Courses, Trainees Disaggregated by Gender for Subprojects				B2: Planning, Design & Construction Training Courses, Trainees Disaggregated by Gender for Subprojects				B3: Operation & Maintenance Training Courses, Trainees Disaggregated by Gender for Subprojects				B4: WMCA Establishment & Management Training Courses, Trainees Disaggregated by Gender for Subprojects				B5: Agricultural Training Courses, Trainees Disaggregated by Gender for Subprojects				B6: Fisheries Training Courses, Trainees Disaggregated by Gender for Subprojects				B7: Environment Training Courses, Trainees Disaggregated by Gender for Subprojects				B8: Gender & Development Training Courses, Trainees Disaggregated by Gender for Subprojects				Total No. of Training Courses	Total No. of Male Trainee	Total No. of Female Trainee	Total No. of Trainee
ID No.	Name	Type	No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees						
				Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total				
42024	Nishanbaria-Gazimahmud	DR	2	20	7	27	4	268	157	425	2	12	4	16	3	19	8	27	8	114	56	170	3	32	13	45	1	15	15	30	2	15	45	60	25	495	305	800
42025	Kujail-Sodakhali-Ractodoha	WCD	1	7	5	12	5	215	142	357	1	65	35	100	5	150	102	252	9	103	97	200	7	64	28	92	0			0	2	15	45	60	30	619	454	1073
42026	Ratan Dhara (Sadhukhali to Jhanjhania)	WCD	1	8	4	12	4	185	122	307	1	65	35	100	5	161	42	203	9	96	74	170	6	54	23	77	0			0	2	15	45	60	28	584	345	929
42027	Nuruddin Khal	WCD	2	19	7	26	1	5	2	7	2	70	36	106	4	22	9	31	2	10	5	15	6	59	18	77	0			0	1	15	15	30	18	200	92	292
43028	Sapdanga Khal WC & DR	WCD	0			0	0			0	2	12	4	16	4	27	11	38	7	82	44	126	5	58	19	77	0			0	0			0	18	179	78	257
43029	Burichar-Nur Ali Charakgachhia	WCD	2	21	6	27	7	245	105	350	1	7	3	10	5	31	13	44	8	161	118	279	6	64	28	92	1	15	15	30	3	15	75	90	33	559	363	922
43030	Aylapatakata DR-1	DR	2	20	8	28	9	299	176	475	2	12	4	16	3	20	8	28	8	126	59	185	3	32	13	45	0			0	0			0	27	509	268	777
43031	Belgapur-Julupara	DR	0			0	6	330	220	550	1	65	35	100	5	173	134	307	7	75	36	111	7	74	33	107	0			0	2	15	45	60	28	732	503	1235
43032	Samaspara-Chalk Temukh-Islamgati	FMD	1	9	3	12	4	185	122	307	1	65	35	100	6	165	91	256	8	109	49	158	5	43	19	62	0			0	2	32	53	85	27	608	372	980
43033	Santoshpara-Chatra	DR	0			0	6	345	230	575	1	65	35	100	6	149	121	270	7	111	54	165	6	64	28	92	0			0	2	15	75	90	28	749	543	1292
43034	Potka Khali DR & Irri.	DR	2	22	6	28	6	138	187	325	2	75	31	106	4	25	10	35	6	73	74	147	2	21	9	30	0			0	1	15	15	30	23	369	332	701
43035	Goal Kandi-Daturbari	FMD	0			0	1	5	2	7	0			0	7	165	186	351	9	237	144	381	5	44	18	62	2	30	30	60	3	15	75	90	27	496	455	951
43036	Badrabati (South)	DR	2	21	7	28	13	857	443	1300	0			0	6	44	20	64	6	92	32	124	8	83	39	122	0			0	2	15	45	60	37	1112	586	1698
43037	Badrabati (North)	DR	2	22	8	30	7	420	280	700	1	65	35	100	6	44	20	64	8	109	49	158	5	62	28	90	0			0	2	15	45	60	31	737	465	1202
43038	Silaur-Dogangy SP	DR	1	8	4	12	3	180	95	275	2	70	36	106	1	5	2	7	1	15	10	25	3	32	13	45	0			0	0			0	11	310	160	470
43039	Ghughudima-Khutbatala	CAD	2	21	6	27	1	5	2	7	1	5	1	6	6	306	203	509	4	42	38	80	2	22	8	30	0			0	1		30	30	17	401	288	689
43040	Singkhali	DR	2	22	8	30	10	345	180	525	2	70	36	106	4	33	14	47	6	93	38	131	4	51	24	75	0			0	1	15	15	30	29	629	315	944
43041	Sonbunia Subproject	DR	2	21	7	28	4	120	62	182	2	12	4	16	4	162	84	246	9	124	99	223	4	34	13	47	0			0	1	15	15	30	26	488	284	772
43042	Atrai-Burigang	DR	1	8	4	12	4	187	120	307	0			0	5	133	95	228	7	110	52	162	5	45	17	62	0			0	3	15	75	90	25	498	363	861

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ID No.	Name	Type	No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees						
				Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total				
43067	Purba Char Madras	DR	1	8	5	13	0			0	1	5	1	6	4	172	51	223	1	8	5	13	0			0	0			0	0			0	7	193	62	255
43068	Pashcim Char Madras	DR	1	8	4	12	18	607	293	900	2	12	4	16	4	205	75	280	1	8	5	13	0			0	0			0	1		30	30	27	840	411	1251
43069	Char Samaia	DR	0			0	0			0	1	5	1	6	4	153	72	225	1	8	5	13	0			0	0			0	0			0	6	166	78	244
43070	Panchagram	DR	0			0	0			0	1	5	1	6	4	184	90	274	1	3	2	5	3	22	23	45	0			0	0			0	9	214	116	330
43071	Bokrabari	WCD	0			0	0			0	0			0	5	152	124	276	2	34	16	50	6	62	28	90	0			0	1	15	15	30	14	263	183	446
43072	Pathuria Kalibari	FMD	2	23	7	30	15	510	265	775	1	7	3	10	5	33	14	47	8	105	77	182	4	50	10	60	1	15	15	30	0			0	36	743	391	1134
44074	Swarupdaha Dhunar Khal	WCD	1	8	4	12	1	40	10	50	1	7	3	10	6	155	98	253	4	28	46	74	7	91	48	139	0			0	0			0	20	329	209	538
44075	Losnabad Phalaghar	DR	2	22	8	30	13	442	208	650	1	7	3	10	4	36	15	51	5	63	43	106	2	22	8	30	0			0	1		30	30	28	592	315	907
44077	Saorakathi	DR	0			0	10	356	169	525	1	7	3	10	4	27	12	39	3	41	26	67	4	32	28	60	0			0	1	15	15	30	23	478	253	731
44078	Dhonkundi Beel	FMD	0			0	0			0	1	7	3	10	5	126	38	164	5	63	35	98	2	22	8	30	0			0	1	15	15	30	14	233	99	332
44080	Challish kahania	DR	2	19	8	27	0			0	0			0	3	20	8	28	1	3	2	5	0			0	0			0	1	15	15	30	7	57	33	90
44081	Thakurmaliik	DR	1	8	4	12	13	514	160	674	2	12	4	16	5	198	103	301	2	23	15	38	1	12	3	15	0			0	0			0	24	767	289	1056
44083	Amua Patikhalghata	DR	0			0	0			0	1	65	35	100	4	28	12	40	1	5	2	7	4	32	28	60	0			0	1	15	15	30	11	145	92	237
44084	Sitly Khal	DR	2	20	8	28	5	205	70	275	1	7	3	10	5	33	14	47	2	32	22	54	3	32	13	45	0			0	1	15	15	30	19	344	145	489
44092	Faridpur-Badurerjan	FMD	0			0	3	45	30	75	1	65	35	100	3	145	107	252	4	51	31	82	7	64	28	92	0			0	1	15	15	30	19	385	246	631
44093	Pashchim Joar	CAD	1	8	4	12	0			0	2	12	4	16	6	55	24	79	4	63	29	92	5	52	20	72	0			0	2	15	45	60	20	205	126	331
44094	Shree Khal	WCD	2	19	7	26	7	105	70	175	1	7	3	10	5	173	142	315	5	81	53	134	4	52	17	69	1	15	15	30	1	15	15	30	26	467	322	789
44095	Kalapania Khal	WCD	0			0	0			0	2	12	4	16	5	34	10	44	4	60	29	89	2	30	6	36	0			0	2	15	45	60	15	151	94	245
44097	Dudhal	FMD	0			0	5	205	45	250	1	65	35	100	4	28	10	38	2	26	18	44	0			0	0			0	1		30	30	13	324	138	462
44101	Bondukkhali Khal	FMD	2	21	9	30	1	32	18	50	0			0	6	211	116	327	6	72	63	135	4	35	14	49	0			0	1	0	30	30	20	371	250	621
44103	Gotkhali Chalitabunia	DR	1	7	5	12	0			0	1	65	35	100	5	30	13	43	5	65	41	106	1	11	4	15	0			0	2	15	45	60	15	193	143	336
44104	Sarengal	DR	2	22	8	30	0			0	1	7	3	10	5	33	14	47	4	45	36	81	4	42	18	60	0			0	0			0	16	149	79	228
44106	Sachilapur	DR	0			0	0			0	1	7	3	10	4	28	12	40	4	49	31	80	4	42	18	60	0			0	0			0	13	126	64	190
44107	Amail Indail	WCD	1	7	5	12	0			0	1	7	3	10	5	138	78	216	6	84	46	130	4	42	15	57	0			0	1	15	15	30	18	293	162	455
44111	Kashipur	DR	0			0	0			0	1	65	35	100	5	236	114	350	3	38	26	64	0			0	0			0	1		30	30	10	339	205	544
44112	Harirampur Beel	FMD	2	22	8	30	0			0	0			0	6	293	164	457	4	55	72	127	4	34	15	49	0			0	0			0	16	404	259	663
44113	Jhirai Bridge-Jangalpara Khal	FMD	1	8	4	12	0			0	0			0	6	276	149	425	5	56	37	93	5	44	25	69	0			0	1	0	30	30	18	384	245	629

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ID No.	Name	Type	No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees			No. of Course	Trainees						
				Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total		Male	Female	Total				
44117	Deulkathi-Binnapara	DR	1	7	5	12	0			0	1	65	35	100	4	168	112	280	4	49	31	80	4	42	18	60	0			0	0			0	14	331	201	532
44119	Bangla Bazar-Gopalpur	WCD	0			0	0			0	2	12	4	16	4	29	14	43	1	11	7	18	1	10	2	12	0			0	1		30	30	9	62	57	119
44125	Chakhar	DR	1	8	4	12	0			0	1	7	3	10	4	233	96	329	4	61	28	89	2	30	15	45	0			0	0			0	12	339	146	485
44127	Haripasha-Pironda	DR	0			0	0			0	1	7	3	10	6	220	95	315	4	50	26	76	4	32	28	60	0			0	0			0	15	309	152	461
44130	Purandar Vushan Chandrer Bari-Sarbeswar Ghat	WCD	1	8	4	12	0			0	0			0	7	285	223	508	4	58	52	110	2	22	5	27	0			0	0			0	14	373	284	657
44131	Guarekha	DR	1	8	4	12	0			0	1	65	35	100	3	163	56	219	4	46	58	104	1	2	10	12	0			0	0			0	10	284	163	447
44135	Debdun Bauisona Khal	WCD	2	23	8	31	0			0	1	65	35	100	4	28	12	40	2	34	16	50	0			0	0			0	0			0	9	150	71	221
44136	Paschim Chhayam Takta	DR	0			0	0			0	1	65	35	100	5	180	78	258	2	12	15	27	0			0	0			0	0			0	8	257	128	385
44143	Hetalia-Ballabhpur	DR	0			0	0			0	0			0	6	210	74	284	4	56	36	92	1	11	4	15	0			0	3	15	75	90	14	292	189	481
45145	Naimuri Alidaha	WCD	1	8	4	12	10	435	115	550	1	5	1	6	5	48	18	66	5	82	79	161	1	30	6	36	0			0	0			0	23	608	223	831
45148	Bottola Khal SP	WCD	0			0	0			0	1	5	1	6	5	183	100	283	1	3	2	5	0			0	0			0	1		30	30	8	191	133	324
45150	Chandpasha	WCD	1	8	4	12	0			0	0			0	4	174	74	248	3	31	20	51	0			0	0			0	1		30	30	9	213	128	341
45152	Biddanandapur	DR	0			0	0			0	0			0	4	174	55	229	1	8	5	13	0			0	0			0	0			0	5	182	60	242
45157	Satail Beel	DR	1	8	4	12	3	185	65	250	1	5	1	6	4	27	13	40	2	17	5	22	4	33	18	51	0			0	0			0	15	275	106	381
45168	Chalitabunia	WCD	1	8	4	12	0			0	0			0	5	192	86	278	1	8	5	13	1	2	10	12	0			0	1	15	15	30	9	225	120	345
45173	Charadi	WCD	1	9	3	12	0			0	2	12	4	16	4	171	77	248	1	3	2	5	0			0	0			0	1	0	30	30	9	195	116	311
45180	Tengrakhali Char Tengra	WCD	1	8	4	12	0			0	1	67	33	100	4	42	20	62	6	76	81	157	3	38	7	45	0			0	2	15	45	60	17	246	190	436
45205	Napitkhali-Burirchar Khal	DR	0			0	0			0	1	5	1	6	5	185	96	281	2	7	12	19	0			0	0			0	3	15	65	80	11	212	174	386
45211	Uttampur	DR	1	7	5	12	0			0	0			0	4	27	13	40	3	41	28	69	1	11	4	15	0			0	2	15	45	60	11	101	95	196
46240	Amtoly-Ruhita-Potkakhali	DR	0			0	0			0	1	5	1	6	5	196	108	304	1	5	2	7	0			0	0			0	1		30	30	8	206	141	347
Total			122	1210	473	1683	421	15684	8481	24165	140	2714	1344	4058	490	12234	6367	18601	564	7785	5361	13146	387	4131	1645	5776	22	330	330	660	144	1097	3298	4395	2290	45185	27299	72484
Percent Gender																																				62.34	37.66	

It is observed from the tables that there is a marked variation between training sectors in respect of trainees' gender disaggregation ranging from 75.04 % female attended in Gender & Development trainings to 28.10 % female in Project Orientation & Management trainings. Overall good attendance of female participants is observed in Environment and Agriculture trainings with 50 per cent and 40.78 percent respectively.

Resettlement Training has been given to LGED Officials, NGO Personnel and the information on such training courses implemented as on June, 2017 is shown in **Table -10A**.

Table- 10A: Summary of Resettlement Training Courses Implemented as on June, 2017

SL. No.	Name of Training Courses	No. of Courses	Category of Participants	Trainees Disaggregated by Gender				
				Male	Female	Total	% Male	% Female
1.	Orientation on Resettlement	8	CO, LGED	213	18	231	92.21	7.79
2.	Orientation on Resettlement Framework	2	NGO Personnel	41	4	45	91.11	8.89
3.	Payment Modality on Resettlement Plan	4	Accountant (LGED & Project)	97	4	101	96.04	3.96
4.	Resettlement Plan Implementation	2	SoE & Sr.SoE	60	5	65	92.31	7.69
5.	Resettlement Planning & Implementation	24	UE, Sr.AE, AE, SoE, Sr. Sociologist, SAE	612	48	660	92.73	7.27
6.	Why Resettlement? Theory & Practice of Resettlement	3	XEN	85	4	89	95.51	4.49
Grand Total :		43		1108	83	1191	93.03	6.97

10.5 Evaluation of Trainings

10.5.1 Training Manuals: Planning, Design & Construction training courses are being conducted using manuals prepared long back. The older ones need to be updated with more practice oriented sessions.

O & M training manual being used is somewhat theoretical. More field based practice oriented sessions for preparing O & M plan by WMCA members themselves may be incorporated in the manual.

Most of the Agricultural, Fisheries and Cooperative training courses are being conducted using manuals prepared jointly by RDA, BARD and LGED which were prepared as back as in 2005/2006. Recently, LGED has taken initiatives to update some manuals incorporating therein some new issues to cater the current needs.

During training on Poverty reduction planning in BARD and RDA etc the exercise needs to be done along with final plan (Plan Book) preparation by participants themselves at respective training environment and locations. The presence of Experts/Trainers is to be made to check the final outputs of the trainees.

Sorting out of weak WMCAs is to be initiated during exchange visit on poverty reduction and those have to be strengthened through adequate training and exchange of experiences with strong WMCAs through interaction between weak and strong WMCAs. In this regard, necessary guidelines may be followed.

10.5.2 Trainees: Members of different sub-committees under WMCAs and general members are the trainees of different training courses. Selection of trainees is very crucial for effective training. Very old persons should not be invited for training courses.

10.5.3 Trainers: Training courses have been conducted mainly by the Resource Persons from LGED, Department of Agricultural Extension (DAE), Department of Fisheries (DoF), Department of Cooperatives (DoC), BARD, Comilla and RDA, Bogra & Department of Women Affairs. Coordination between training providers and PSSWRSP is very important for filling laps and gaps but this was found insufficient.

10.5.4 Training Venues : Considering availability of logistic supports, convenience of the participants' and other relevant factors for the sake of effectiveness of the training program, venues of the training courses were selected at LGED HQ, LGED district and Upazila

offices, Subproject level, BARD, RDA, CZI (Cooperative Zonal Institute), Directorate of Women Affairs offices etc. which have been considered useful.

10.5.5 Assessment of trainees: At the beginning of every training course, pre-training assessment of the participants was done through a set of questionnaire relevant to the topics & needs to assess the entry behavior of the participants, to find out the gaps of knowledge and skills that they should have to perform their duties. During proceedings of training courses, the Resource Persons try to make up the gaps identified earlier and thus make the participants fit for doing the specified works. In some courses, the participants were brought to ideal sites selected earlier for field demonstration. The participants observed the real things and situations, found opportunity to discuss the issues with themselves & Resource Persons and thus gained practical knowledge for future use in their working field. At the end of the course, a post- training assessment was done with the same questionnaire to evaluate the training achievement. The Resource Persons examined the answer scripts with marking. Marks obtained by each SP-person is averaged and treated as the grading mark of the SP. Five grades with different score range for WMCA-trainees assessment have been considered as shown below :

Grading & Score as per Table 11 below:

Grades	Score Range	No. of SP
Very Good	80% - 100%	0
Good	60% - 79%	10
Average	40% - 59%	84
Below Average	20% - 39%	15
Poor	0% - 19%	0

In pre-training assessment, it is observed in **Table-11** that all the SP members obtained grade 'Poor' (0%-19%) in respect of knowledge, attitude and practice as they all had no previous experience on the specific topics. Many of them are illiterate, some of them are old (age above 65 years). In post-training assessment, substantial achievement is found in respect of knowledge, attitude and practice of the WMCA members where 10 SP-members obtained grade "Good", 84 SPs "Average" and 15 SPs "Below Average". **Table-11** shows the details of Training Evaluation of WMCA-members of 109 SPs. In many cases, because of their illiteracy, lack of interest on the subject and old ages, their knowledge retention capacity was found very low.

Table 11: Training Evaluation of WMCAs of 109 SPs.

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants										Post-Training Evaluation of participants									
		Level of	Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development		
WCD Sub-Projects (29 Nos.)																					
1	Nimai Khari, SP 41001	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	
2	Chandpasha SP 45150	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	
3	Noapara-Hazirdhara Beel SP 41011	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	
4	Kuthurakandi Khal SP 43063	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
5	Chakgobindapur -Aldadpur SP 41004	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
6	Kedarpur-Gobindapur, SP 43059	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
7	Bokrabari Subproject, SP 43071	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
8	Swarupdaha Dhunar Khal, SP 44074	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
9	Shree Khal, SP 44094	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
10	Amail-Indail, SP 44107	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
11	Chalitabunia SP 45168	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
12	Naimuri Alidah SP 45145	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
13	Charadi SP 45173	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
14	Tengrakhali-Char Tengrakhali SP 45180	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
15	Mofizan Khal, SP 43054	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
16	Bhangakha-	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
	Nyamatpur, SP43065					r													
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
17	Kalapania Khal, SP 44095	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
18	Bangla-Bazar-Gopalpur SP 44119	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
19	Purba Sarail-Madhai Sp, SP 41002	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
20	Gabua Fultala SP 42016	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
21	Ulushikhal SP 42020	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
22	Kujail-Sodakhali Raktadaha SP 42025	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
23	Ratan Dhara-Sodakhali SP 42026	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
24	Nuruddin Khal SP 42027	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
25	Sapdanga Khal SP 42028	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
26	Burichar-Nur Ali SP 42029	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
27	Purandar Vushan Chandrer Bari SP 44130	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
28	Debdun Baisona Khal SP 44135	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
29	Bottola Khal SP45148	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
FMD Sub-Projects (20 Nos.)																			
1	Baika-Barahapania SP41003	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
2	Kanakdia FMD SP 41005	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
3	Kusta Thakurkandi FMD SP41009	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
4	Swarnakhali Khal SP 41010	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
5	Nabinpur-Dholar Beel SP 42017	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
6	Kata Khal SP 42018	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
7	Samaspara-Chalk Temukh-Islamgati SP 43032	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
8	Goal Kandi-Daturbari SP 43035	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
9	Dholdholia SP 43055	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
10	Adabaria SP 43057	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
11	Ponahura FMD & WC SP 43060	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
12	Bhagalpur Montola SP 43061	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
13	Dier Khal SP 43064	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
14	Pathuria Kalibari SP 43072	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
15	Dhonkundi Beel SP 44078	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
16	Faridpur-Badurerjan SP 44092	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
17	Dudhal SP 44097	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
18	Bondukkhali Khal SP 44101	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
19	Harirampur Beel SP 44112	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
20	Jhirai Bridge-Jangalpara Khal SP 44113	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
WC (RD) Sub-Projects (6 Nos.)																			
1	Bhelabari-DurgapurSP 41006	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
2	Harwalchari SP 41007	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
3	Pokkhali-Naikhongdia, SP 43045	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
4	Thim Chari-Purbakul, SP 43046	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
5	Paschim Digulia, SP 43047	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
6	Monirjheel-Sonaichari Khal,SP 43051	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
CAD Sub-Projects (7 Nos.)																			
1	Goshinga-Sitalakha SP41008	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
2	South-Gohat SP 42013	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
3	Udura Khal SP42014	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
4	Sunduri Khal SP 42015	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
5	Fasiakhali Irrigation SP 42021	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
6	Ghughudima-Khutbatala SP 43039	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
7	Pashchim Joar SP 44093	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor		Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor		Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor		Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
DR Sub-Projects (47 Nos.)																			
1	Sapleza DR-1 SP42022	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
2	Jalabaria DR-1 SP 42023	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
3	Nishanbaria-Gazimahmud SP 42024	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
4	Aylapatakata DR-1 SP 43030	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
5	Belgapur-Julupara SP 43031	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
6	Santoshpara-Chatra SP 43033	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
7	Potka Khali DR & Irri. SP 43034	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
8	Badrabati (South) SP 43036	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
9	Badrabati (North) SP 43037	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Good	Good	Good	Good	Good	Good	Good	Good
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Good	Good	Good	Good	Good	Good	Good	Good
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Good	Good	Good	Good	Good	Good	Good	Good
10	Silaur-Dogangy SP 43038	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
11	Singkhali SP 43040	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
12	Sonbunia Subproject SP 43041	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mgmt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mgmt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
13	Atrai-Burigang Subproject SP 43042	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
14	Dehergati SP 43043	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
15	Garabunia SP 43044	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
16	Deshantorkathi-Garabunia SP 43048	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
17	Kapila-Krishnapur SP 43049	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
18	Madhya-Purba Rajapur SP 43050	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
19	Latifpur-Etbarpur Khal SP 43056	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
20	Sabupura SP 43058	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
21	Gouripur SP 43062	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
22	BhelumiaSP 43066	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
23	Purba Char Madras SP 43067	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
24	Pashcim Char Madras SP 43068	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mngt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
						r													
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
25	Char Samaia SP 43069	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
26	Panchagram SP 43070	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
27	Losnabad Phalaghar SP 44075	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
28	Saorakathi SP 44077	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
29	Challish kahania SP 44080	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
30	Thakurmallik SP 44081	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
31	Amua Patikhalghata SP 44083	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
32	Sitly Khal SP44084	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
33	Gotkhali Chalitabunia SP 44103	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
34	Sarengal SP 44104	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
35	Sachilapur SP 44106	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
36	Kashipur SP 44111	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

Sl. No.	Name of SP with SP #	Pre-Training Evaluation of participants									Post-Training Evaluation of participants								
		Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mgmt.	Agriculture	Fisheries	Environment	Gender & Development	Level of	Project Orientation & Mgmt.	Planning, Design & Const.	O & M	WMCA Est. & Mgmt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)																			
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
37	Deulkathi-Binnapara SP 44117	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
38	Chakhar SP 44125	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
39	Haripasha-Pironda SP 44127	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
40	Guarekha SP 44131	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
41	Paschim Chhayam Takta SP 44136	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
42	Hetalia-Ballabhpur SP44143	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
43	Biddanandapur SP 45152	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
44	Satail Beel SP45157	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.	Bel av.
45	Napitkhali-Burirchar Khal SP 45205	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
46	Uttampur SP45211	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
47	Amtoly-Ruhita-Potkakhali46240	Knowledge	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Knowledge	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Attitude	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Attitude	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'
		Practice	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Poor	Practice	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'	Aver'

10.6 Assessment of Training Effect

There are two types of effect. Immediate Effect (outcome) and Long Term Effect (impacts)
Immediate Effect (outcome) of WMCAs Training Program is:

- Improved capacity of WMCAs to implement, operate, manage and maintain water management infrastructures.
- Adoption of improved management practices in WMCA operation in consistent with the DoC rules & regulations.
- Adoption of improved technology & practices by WMCAs in agriculture productivity and enhancement of aquaculture.
- Improved community awareness of gender between men and women.
- Improved community awareness of the link between safety, hygiene, sanitation and health.

Long Term Effect (impacts) is:

- Improved living conditions and health standards of participating WMCA members.
- Improved sustainability of WMCAs and water management infrastructures.

In this context, we shall focus on Immediate Effect (outcome) of WMCAs Training Program only. It is observed that out of 109 SPs, 102 WMCA members prepared Land Use plan, 46 SPs prepared Poverty Reduction Plan & 80 SPs prepared O & M plan. 109 SPs are producing high yielding varieties of crops and new vegetable crops for homestead gardens. It is also observed that locally available water bodies are in use for fish cultivation and fishermen/beneficiaries are aware of protecting fish from health hazard. The WMCA members are aware of disposing organic wastes in proper places and improved sanitation habits. Female members of WMCAs are sharing their views in decision making process and incorporating gender dimension in WMCAs. The female members are generating resources through savings deposit & IGA practices. They are also Operating Micro-credit program. **Table-12** shows the details of Immediate Effect (outcome) of WMCAs Training Program.

Table-12: Immediate Effect (outcome) of WMCAs Training Program.

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
WCD Sub-Projects (29 Nos.)									
1	Nimai Khari, SP 41001	Prepared Poverty Reduction Plan	Used to check good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding weekly, monthly & AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
2	Chandpasha SP 45150		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Producing new vegetable crops for homestead gardens	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing high yielding varieties of crops	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM		Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
3	Noapara-Hazirdhara Beel SP 41011	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
		Sharing knowledge & ideas with other WMCAs	Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	New vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	High yielding varieties	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
4	Kuthurakan di Khal, SP 43063	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
5	Chakgobindapur-Aldadpur SP 41004		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
6	Kedarpur-Gobindapur, SP 43059	Prepared Poverty Reduction Plan	Used good quality construction materials in	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			const. works						
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
7	Bokrabari Subproject, SP 43071		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	New vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	High yielding varieties	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit
8	Swarupdaha Dhunar Khal, SP 44074		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
9	Shree Khal, SP 44094	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
10	Amail-Indail, SP 44107		Used good quality construction materials in	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			const. works						
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
11	Chalitabuni a SP 45168		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	New vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	High yielding varieties	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit
12	Naimuri Alidah SP 45145		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
13	Charadi SP 45173		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit
14	Tengrakhali-Char Tengrakhali SP 45180		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
15	Mofizan Khal, SP 43054	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	New vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	High yielding varieties	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
16	Bhangakha-Nyamatur, SP43065		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
17	Kalapania Khal, SP 44095		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit
18	Bangla-Bazar-Gopalpur SP 44119		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
19	Purba Sarail-Madhai Sp, SP 41002	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
20	Gabua Fultala SP 42016	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	New vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	High yielding varieties	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
21	Ulushikhal SP 42020	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
22	Kujail-Sodakhali Raktadaha SP 42025		Used good quality construction materials in	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			const. works						
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
23	Ratan Dhara-Sodakhali SP 42026		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
24	Nuruddin Khal SP 42027	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
25	Sapdanga Khal SP 42028		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit
26	Burichar-Nur Ali SP 42029	Prepared Poverty Reduction Plan	Used good quality construction materials in	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			const. works						
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
27	Purandar Vushan Chandrer Bari SP 44130		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
28	Debdun Bauisona Khal SP 44135	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
29	Bottola Khal SP45148		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit

FMD Sub-Projects (20 Nos.)

1	Baika-Barahapania	Prepared Poverty	Used good quality	Prepared O & M Plan	Increased share &	Prepared Land Use	New fish variety	Disposing organic	Incorporating gender
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Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
	SP41003	Reduction Plan	construction materials in const. works		Savings	Plan	cultivation	wastes properly	dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
2	Kanakdia FMD SP 41005	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
3	Kusta Thakurkandi FMD SP41009	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
4	Swarnakhali Khal SP 41010	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
5	Nabinpur-Dholar Beel SP 42017		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
6	Kata Khal SP 42018		Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	New vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	High yielding varieties	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
7	Samaspara-Chalk Temukh-Islamgati SP 43032		Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
8	Goal Kandi-Daturbari SP 43035		Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
9	Dholdholia SP 43055		Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing high yielding varieties of crops	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Producing new vegetable crops for homestead gardens	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
10	Adabaria SP 43057		h works at different phases			yielding varieties of crops	water bodies are in use for fish cultivation	pest management in agriculture	sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM		Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
11	Ponahura FMD & WC SP 43060		Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
12	Bhagalpur Montola SP 43061		Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
13	Dier Khal SP 43064		Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead	Local available water bodies are in use	Applying integrated pest management in	Female members are sharing their views in decision making
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
						gardens	for fish cultivation	agriculture	process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
14	Pathuria Kalibari SP 43072	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
15	Dhonkundi Beel SP 44078		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
16	Faridpur-Badurerjan SP 44092		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
17	Dudhal SP 44097		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Producing new vegetable crops for homestead gardens	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing high yielding varieties of crops	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM		Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
18	Bondukkhali Khal SP 44101	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
19	Harirampur Beel SP 44112	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
20	Jhirai Bridge-Jangalpara Khal SP 44113		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices

WC (RD) Sub-Projects (6 Nos.)

1	Bhelabari-Durgapur SP 41006	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became	Conducting	Holding AGM	Producing	Protecting	Improved	Generating

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			conscious against bad practices, if any, during const.	routine maintenance works		high yielding varieties of crops	fish from health hazard.	sanitation habits	resources through savings deposit & IGA practices
2	Harwalchari SP 41007	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
3	Pokkhali-Naikhongdia, SP 43045		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
4	Thim Chari-Purbakul, SP 43046		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
5	Paschim Digulia, SP 43047		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad	Conducting routine maintenanc	Holding AGM	Producing high yielding	Protecting fish from health	Improved sanitation habits	Generating resources through savings

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			practices, if any, during const.	e works		varieties of crops	hazard.		deposit & IGA practices
6	Monirjheel-Sonaichari Khal, SP 43051		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices

CAD Sub-Projects (7 Nos.)

1	Goshinga-Sitalakha SP41008		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
2	South-Gohat SP 42013		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
3	Udura Khal SP42014		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			during const.			crops			practices
4	Sunduri Khal SP 42015		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
5	Fasiakhali Irrigation SP 42021	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
6	Ghughudima-Khutbatala SP 43039	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
7	Pashchim Joar SP 44093		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices

DR Sub-Projects (47 Nos.)

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
1	Sapleza DR-1 SP42022	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
2	Jalabaria DR-1 SP 42023		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
3	Nishanbaria-Gazimahmud SP 42024	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
4	Aylapatakata DR-1 SP 43030	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
5	Belgapur-Julupara SP 43031		Used good quality construction	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes	Incorporating gender dimension in

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			materials in const. works					properly	WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
6	Santoshpara-Chatra SP 43033		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit
7	Potka Khali DR & Irri. SP 43034	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
8	Badrabati (South) SP 43036	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
9	Badrabati (North) SP 43037	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
10	Silaur-Dogangy SP 43038		Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
			Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
11	Singkhali SP 43040		Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
12	Sonbunia Subproject SP 43041		Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
		Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
13	Atrai-Burigang Subproject SP 43042		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable	Local available water	Applying integrated pest	Female members are sharing their

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			different phases			crops for homestead gardens	bodies are in use for fish cultivation	management in agriculture	views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
14	Dehergati SP 43043	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
15	Garabunia SP 43044	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
16	Deshantorkat hi-Garabunia SP 43048	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Producing new vegetable crops for homestead gardens	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing high yielding varieties of crops	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM		Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
17	Kapila-Krishnapur SP 43049	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead	Local available water bodies are in use	Applying integrated pest management in	Female members are sharing their views in decision making

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
						gardens	for fish cultivation	agriculture	process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
18	Madhya-Purba Rajapur SP 43050		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit
19	Latifpur-Etbarpur Khal SP 43056	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
20	Sabupura SP 43058		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
21	Gouripur SP 43062		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
22	BhelumiaSP 43066		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
23	Purba Char Madras SP 43067		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
24	Pashcim Char Madras SP 43068		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
25	Char Samaia SP 43069		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad	Conducting routine maintenance	Holding AGM	Producing high yielding	Protecting fish from health	Improved sanitation habits	Generating resources through savings

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			practices, if any, during const.	e works		varieties of crops	hazard.		deposit & IGA practices
26	Panchagram SP 43070		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
27	Losnabad Phalaghar SP 44075	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Producing new vegetable crops for homestead gardens	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing high yielding varieties of crops	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM		Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
28	Saorakathi SP 44077		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
29	Challish kahania SP 44080	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
30	Thakurmallik SP 44081		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Producing new vegetable crops for homestead gardens	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing high yielding varieties of crops	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM		Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
31	Amua Patikhalghata SP 44083		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
32	Sitly Khal SP44084	Prepared Poverty Reduction Plan	Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
33	Gotkhali Chalitabunia SP 44103		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
34	Sarengal SP 44104	Prepared Poverty	Used good quality	Prepared O & M Plan	Increased share &	Prepared Land Use	New fish variety	Disposing organic	Incorporating gender

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
		Reduction Plan	construction materials in const. works		Savings	Plan	cultivation	wastes properly	dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
35	Sachilapur SP 44106		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
36	Kashipur SP 44111		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
37	Deulkathi-Binnapara SP 44117		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
38	Chakhar SP 44125		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Producing new vegetable crops for homestead	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
						gardens			
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing high yielding varieties of crops	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM		Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
39	Haripasha-Pironda SP 44127		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
40	Guarekha SP 44131		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
41	Paschim Chhayam Takta SP 44136		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
42	Hetalia-Ballabhpur SP44143		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored	Collecting O	Not operating	Producing	Local	Applying	Female

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
			construction/earth works at different phases	&M fund	Micro-credit	new vegetable crops for homestead gardens	available water bodies are in use for fish cultivation	integrated pest management in agriculture	members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
43	Biddanandapur SP 45152		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O &M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
44	Satal Beel SP45157		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O &M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
45	Napitkhali-Burirchar Khal SP 45205		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O &M fund	Operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
46	Uttampur SP45211		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O &M fund	Operating Micro-credit	Producing new vegetable crops for	Local available water bodies	Applying integrated pest management	Female members are sharing their views in

Sl. No.	Name of SP with SP #	Name of Training Sectors							
		Project Orientation & Mangt.	Planning, Design & Const.	O & M	WMCA Est. & Mangt.	Agriculture	Fisheries	Environment	Gender & Development
						homestead gardens	are in use for fish cultivation	t in agriculture	decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices
47	Amtoly-Ruhita-Potkakhali-46240		Used good quality construction materials in const. works	Prepared O & M Plan	Increased share & Savings	Prepared Land Use Plan	New fish variety cultivation	Disposing organic wastes properly	Incorporating gender dimension in WMCA
			Monitored construction/earth works at different phases	Collecting O & M fund	Not operating Micro-credit	Producing new vegetable crops for homestead gardens	Local available water bodies are in use for fish cultivation	Applying integrated pest management in agriculture	Female members are sharing their views in decision making process
			Became conscious against bad practices, if any, during const.	Conducting routine maintenance works	Holding AGM	Producing high yielding varieties of crops	Protecting fish from health hazard.	Improved sanitation habits	Generating resources through savings deposit & IGA practices

10.7 General Remark:

Training is improving knowledge, attitude and practice domains of subproject trainees. Rates of improvement are different for different sub-projects in different sectors. Selection of trainees is a major factor for improvement and effectiveness of training. LGED's District and Upazila level officials should have more involvement in conducting/monitoring training courses. Improved training manuals should be used to cater the current needs. Coordination between training providers and PSSWRSP is very essential for achieving the training objectives.

11. ENVIRONMENTAL MONITORING ASSESSMENT

11.1 Introduction

The Participatory Small Scale Water Resources Sector Project (PSSWRSP-2) is under implementation in 61 of the country's 64 districts (excluding 3 Chittagong Hill districts) with Financial Assistance of the Asian Development Bank (ADB), the International Fund for Agricultural Development (IFAD) and the Government of Bangladesh (GOB), and assistance in kind from beneficiaries.

The overall goal of the PSSWRSP is to increase agricultural and fisheries production, to enhance rural employment and contribute to poverty reduction by stakeholder driven small scale water resources managements. It will be achieved by (i) constructing water management infrastructures in 270 new sub-projects including flood management, drainage improvement, water conservation and command area development and enhancing the performance of about 150 sub-projects constructed in phases 1 and 2 of the small-scale water sector project (ssw-1 and ssw-2), benefiting 220,000 ha of cultivable land; (ii) strengthening operation and maintenance by institutionalizing beneficiary participation; (iii) strengthening government institutions and facilities by establishing sustainable water management systems; and (iv) enhancing the access of the landless poor in the sub-project areas to employment opportunities and to public natural resources.

As regards the environmental criteria for the selection of the subprojects, the proposed subproject is not considered for construction if any of the following criteria is found in selecting for first level of screening:

1. Subprojects located in nature reserves
2. Any significant loss of natural/reserve forests, mangrove forests or sensitive reserved/conserved wetland
3. Any permanent negative effect on known, rare or endangered species
4. Any significant impacts on air and water quality
5. Any permanent damage to irreplaceable cultural relics and archaeological sites, and
6. Major involuntary relocation of people

11.2 Purpose of Effect Monitoring and Evaluation (EME)

The purpose of the Annual Effect Monitoring and Evaluation of the completed subprojects (as of June 2017) is to document the subproject intervention impacts on aspects relating to various environmental issues and performance assessment of selected environmental indicators as well. This PSSWRSP EME report is prepared after completion of the 109 sub-projects for the period of FY 2015-2016.

Separate from the annual EME reports, a Baseline Monitoring and Evaluation Study is carried out to determine longer term impacts of the sub-project investment. These comprise two major steps, a Baseline Survey for selected sub-projects and subsequently an Impact Assessment of these sub-projects carried out 5 years after the completion of the sub-projects.

11.3 Approach and Methodology for Data Collection

The approach and overall methodology for the EME study to document the performance assessment of environmental indicators involves preparation of environmental performance monitoring checklist to assess the degree of performance level of the selected environmental indicators. A sample filled-in Checklist of one subproject is included as **Annex-A**. This checklist is prepared following the guidelines for environmental resources suggested in the Asian Development Bank's Reporting Format/Checklist. The checklist has been designed to evaluate the performance of the following environmental indicators:

- a) Performance Indicator 1: Design and Preparation
- b) Performance Indicator 2: Worker Provision
- c) Performance Indicator 3: Gender Equity
- d) Performance Indicator 4: Community Based Monitoring
- e) Performance Indicator 5: Community Values and Safety
- f) Performance Indicator 6: Hydrology/Water Pollution
- g) Performance Indicator 7: Project Completion

The checklist can be answered by entering a relative score that indicates the degree of compliance with the mitigation measure as follows:

4	Excellent
3	Good
2	Fair
1	Poor
0	Non-compliant

In all cases i.e. for all performance indicators, once the appropriate section of the checklist has been completed, the investigator can calculate the percent compliance by summing the responses and dividing by four times (4X) the number of questions contributing to the score for the performance indicator (shown on the form), expressed as percent. Some items may not be applicable in some situations, in which case the item should be struck through and the number of possible items reduced accordingly.

In view of the above, it has been decided to initiate the EME study covering 109 subprojects under implementation (from Batches 1 to 6 under the year up to June, 2017).

11.4 Environmental Performance Assessment

Environmental performance assessment levels of selected subprojects against major indicators are displayed in the **Table-13**. There are six indicators that are used to compile performance results for monitoring variables found in the Checklist based on observations during site visits. Values ranging from 0 (non-compliant) to 4 (best performance) are assigned and later averaged for the performance indicator. Indicators include: 1. Design and preparation (preconstruction and construction start-up requirements, which there are 13 monitoring variables); 2. Worker provisions (there are 7 monitoring variables); 3. Gender equity (there are 3 monitoring variables); 4. Community based monitoring (there are public consultation and disclosure, 2 monitoring variables); 5. Community values and safety (there are 13 monitoring variables); 6. Hydrology/water pollution (there are 5 monitoring variables); and 7. Project completion (there are 7 monitoring variables). Overall performance of the selected subprojects appears to be good. It is worthwhile pointing out that all the indicators of the selected subprojects have recorded fare to good scores. As regard project completion performance, all the subprojects except nine have been complete with score of 100% in the project completion indicator.

Table 13: Subproject Environmental Performance

Sl. No.	SP No.	Subproject Name	Type of Subproject	Location (District/Upazila)	Design and Preparation	Worker Provision	Gender Equity	Community Based Monitoring	Community values and safety	Hydrology / Water pollution	Project Completion
Subprojects under WC (RD)											
6	41006	Velabari-Durgapur SP	WC (RD)	Lalmoinirhat/ Aditmari	100	90	100	90	95	90	100
7	41007	Harwalchari SP	WC (RD)	Chittagong/ Fatikchhari	100	90	100	85	90	85	100
43	43045	Pokkhali Naikhongdia SP	WC (RD)	Cox's Bazar/ Sadar	100	90	100	85	90	90	100
44	43046	Thim Chari Purbakul SP	WC (RD)	Cox's Bazar/ Ukhia	100	90	100	85	90	90	100
45	43047	Paschim Digulia SP	WC (RD)	Cox's Bazar/ Ukhia	100	90	100	90	95	90	100
49	43051	Monirjheel-Sonaichari Khal SP	WC (RD)	Cox's Bazar/ Ramu	100	90	100	85	90	85	100
Subprojects under WCD											
1	41001	Nimai Khari Subproject (SP)	WCD	Dinajpur/ Sadar	100	90	100	90	95	90	100
2	41002	Purba Sarail-Madhai SP	WCD	Joypurhat/ Kalai	100	90	100	85	90	85	100
4	41004	Chak Gobindapur-Aldadpur SP	WCD	Gaibandha/ Sadullapur	100	90	100	85	90	90	100
11	41011	Noapara-Hazirdhara Beel SP	WCD	Rajshahi/ Puthia	100	90	100	85	90	90	100
15	42016	Gabua Fultala Subproject	WCD	Barguna/ Betagi	100	90	100	90	95	90	100
18	42020	Ulushi Khal SP	WCD	Sirajganj/ Tarash	100	90	100	85	90	85	100
23	42025	Kujail-Raktadaha	WCD	Naogaon/ Raninagar &	100	90	100	85	90	90	100

Sl. No.	SP No.	Subproject Name	Type of Subproject	Location (District/Upazila)	Design and Preparation	Worker Provision	Gender Equity	Community Based Monitoring	Community values and safety	Hydrology / Water pollution	Project Completion
		SP		Atrai							
24	42026	Ratandhara-Sodakhali SP	WCD	Naogaon/ Raninagar & Atrai	100	90	100	85	90	90	100
25	42027	Nuruddin Khal SP	WCD	Pabna/ Sujanagar	100	90	100	90	95	90	100
26	42028	Sapdanga Khal SP	WCD	Pabna/ Atghoria	100	90	100	85	90	85	100
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	Barguna/ Sadar	100	90	100	85	90	90	100
50	43054	Mafijan SP	WCD	Gaibandha/ Saghata	100	90	100	85	90	90	100
55	43059	Kederpur-Gobindapur SP	WCD	Comilla/ Chandina	100	90	100	90	95	90	100
59	43063	Kuthurakandi Khal	WCD	Jessore/ Bagherpara	100	90	100	85	90	85	100
61	43065	Bhanga Kha-Niamatpur SP	WCD	Laxmipur/ Sadar	100	90	100	85	90	90	100
67	43071	Bokrabari SP	WCD	Rangpur/ Mithapukur	100	90	100	85	90	90	100
69	44074	Swarupdaha Dhunar Khal SP	WCD	Jessore/ Chowgachha	100	90	100	90	95	90	100
79	44094	Shree Khal SP	WCD	Joypurhat/ Akkelpur	100	90	100	85	90	85	100
80	44095	Kalapania Khal SP	WCD	Chittagong/ Fatikchhari	100	90	100	90	95	90	100
86	44107	Amail-Indail SP	WCD	Bogra/ Adamdighi	100	90	100	85	90	85	100
91	44119	Banglabazar-Gopalpur SP	WCD	Noakhali/ Begumganj	100	90	100	85	90	90	100
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	Gaibandha/Gobindaganj	100	90	100	85	90	90	100
96	44135	Debdun-Bauisona Khal SP	WCD	Narail/ Kalia	100	90	100	90	95	90	100
99	45145	Naimuri Alidaha SP	WCD	Sirajganj/ Ullapara	100	90	100	85	90	85	100
100	45148	Bot-tola SP	WCD	Jhalokathi/ Nalcity	100	90	100	85	90	90	100
101	45150	Chandpasha SP	WCD	Barisal/ Babuganj	100	90	100	85	90	90	100
104	45168	Chalitabunia-Ghatichara SP	WCD	Pirojpur/Mathbaria	100	90	100	90	95	90	100
105	45173	Charadi SP	WCD	Barisal/Bakerganj	100	90	100	85	90	85	100
106	45180	Tengrakhal Char Tengrakhal Khal SP	WCD	Bagerhat/Kachua & Sadar	100	90	100	85	90	90	100
Subprojects under DR											
20	42022	Sapleza SP	DR	Pirojpur/ Mathbaria	100	85	100	95	95	85	100
21	42023	Jalabaria SP	DR	Pirojpur/ Nesarabad	100	95	100	90	85	85	100
22	42024	Nishanbaria-Gazimahmud Subproject	DR	Barguna/ Sadar	100	90	100	85	90	90	100
28	43030	Aylapatakata Subproject	DR	Barguna/ Sadar	100	85	100	90	85	90	100
29	43031	Balgaur-Julupara SP	DR	Naogaon/ Niamatpur	100	85	100	85	80	85	100
31	43033	Sontospara-Chatra SP	DR	Naogaon/ Niamatpur	100	90	100	90	90	85	100
32	43034	Potkakhali Subproject	DR	Barguna/ Sadar	100	85	100	85	90	90	100
34	43036	Bhadraboti South SP	DR	Sirajganj/ Tarash	100	85	100	95	95	85	100
35	43037	Bhadraboti Khal (North) SP	DR	Sirajganj/ Tarash	100	95	100	90	85	85	100

Sl. No.	SP No.	Subproject Name	Type of Subproject	Location (District/Upazila)	Design and Preparation	Worker Provision	Gender Equity	Community Based Monitoring	Community values and safety	Hydrology / Water pollution	Project Completion
36	43038	Shilaur-Dogangy Khal SP	DR	Brahmanbaria/ Sadar	100	85	100	95	95	85	100
38	43040	Singkhali Subproject	DR	Barguna/ Amtoly	100	95	100	90	85	85	100
39	43041	Sonbonia SP	DR	Barguna/ Sadar	100	90	100	85	90	90	100
40	43042	Atrai-Burigonj SP	DR	Naogaon/ Atrai	100	85	100	90	85	90	100
41	43043	Dehergati SP	DR	Barisal/ Babuganj	100	85	100	85	80	85	100
42	43044	Garabania Subproject	DR	Barguna/ Amtoly	100	85	100	95	95	85	100
46	43048	Deshantarkathi-Goaribonia Subproject	DR	Barguna/ Betagi	100	95	100	90	85	85	100
47	43049	Kafila-Krishnanagar SP	DR	Barisal/Bakerganj	100	90	100	85	90	90	100
48	43050	Moddah-Purba Rajapur SP	DR	Patuakhali/ Bauphal	100	85	100	90	85	90	100
52	43056	Latifpur-Etbarpur Khal SP	DR	Comilla/ Chandina	100	85	100	85	80	85	100
54	43058	Shabupura Khal SP	DR	Patuakhali/ Bauphal	100	90	100	90	90	85	100
58	43062	Gouripur SP	DR	Pirojpur/ Bhandaria	100	85	100	85	90	90	100
62	43066	Bhelumia SP	DR	Bhola/ Sadar	100	85	100	95	95	85	100
63	43067	Purba Char Madras SP	DR	Bhola/ Charfession	100	95	100	90	85	85	100
64	43068	Paschim Char Madras SP	DR	Bhola/ Charfession	100	85	100	95	95	85	100
65	43069	Char Samaia SP	DR	Bhola/ Sadar	100	95	100	90	85	85	100
66	43070	Panchagram SP	DR	Jhalokathi/ Nalchhiti	100	90	100	85	90	90	100
70	44075	Losnabad Phalaghar SP	DR	Barisal/ Bakerganj	100	85	100	90	85	90	100
71	44077	Sorakathi SP	DR	Jhalokathi/ Sadar	100	85	100	85	80	85	100
73	44080	Chollish Kahania SP	DR	Jhalokathi/ Rajapur	100	90	100	90	90	85	100
74	44081	Thakur Mollik SP	DR	Barisal/ Bakerganj	100	85	100	85	90	90	100
75	44083	Amua Patikhalghata SP	DR	Jhalokathi/ Kathali	100	85	100	95	95	85	100
76	44084	Shitly Khal SP	DR	Jhenaidah/ Harinakunda	100	95	100	90	85	85	100
83	44103	Gotkhali-Chalitabunia Khal SP	DR	Barguna/ Amtoly	100	85	100	95	95	85	100
84	44104	Sarengal SP	DR	Jhalokathi/ Sadar	100	95	100	90	85	85	100
85	44106	Sachilapur SP	DR	Jhalokathi/ Sadar	100	90	100	85	90	90	100
87	44111	Kashipur SP	DR	Barisal/ Sadar	100	85	100	90	85	90	100
90	44117	Deulkathi Binnapara SP	DR	Jhalokathi/ Sadar	100	85	100	85	80	85	100
92	44125	Chakhar SP	DR	Barisal/ Banaripara	100	90	100	90	90	85	100
93	44127	Haripasha Pironda SP	DR	Jhalokathi/ Sadar	100	85	100	85	90	90	100
95	44131	Guarekha SP	DR	Pirojpur/ Nesarabad	100	85	100	95	95	85	100
97	44136	Paschim Chhayam Takta SP	DR	Barisal/ Mehendiganj	100	95	100	90	85	85	100
98	44143	Hetalia-Ballabhpur Khal SP	DR	Patuakhali/ Sadar	100	85	100	95	95	85	100
102	45152	Biddyanandapur SP	DR	Barisal/ Mehendiganj	100	95	100	90	85	85	100

Sl. No.	SP No.	Subproject Name	Type of Subproject	Location (District/Upazila)	Design and Preparation	Worker Provision	Gender Equity	Community Based Monitoring	Community values and safety	Hydrology / Water pollution	Project Completion
103	45157	Satail Beel SP	DR	Natore/ Boraigram	100	90	100	85	90	90	100
107	45205	Napitkhali Burirchar Khal SP	DR	Barguna/Sadar	100	85	100	90	85	90	100
108	45211	Uttampur SP	DR	Barisal/Bakerganj	100	85	100	85	80	85	100
109	46240	Amtoly Ruhita Potkakhali SP	DR	Barguna/ Bamna	100	90	100	90	90	85	100
Subprojects under FMD											
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	Manikganj/ Harirampur	100	95	100	90	90	90	100
5	41005	Kanakdia SP	FMD	Patuakhali/ Bauphal	100	90	100	90	90	90	100
9	41009	Kusta-Thakurkandi SP	FMD	Manikganj/ Gheor	100	90	100	85	90	85	100
10	41010	Swrnakhali khal SP	FMD	Dhaka/ Dhamrai	100	90	100	90	85	90	95
16	42017	Nabinpur-Dharla Beel SP	FMD	Meherpur/ Gangni	100	85	90	95	90	90	100
17	42018	Kata Khal SP	FMD	Meherpur/ Mujibnagar	100	95	100	90	90	90	100
30	43032	Chalk Temukh-Ismsgati SP	FMD	Naogaon/ Atrai	100	90	100	90	90	90	100
33	43035	Goalkandib Dhuturbari Khal SP	FMD	Gaibandha/ Gobindaganj	100	90	100	85	90	85	100
51	43055	Dholdholia SP	FMD	Gaibandha/ Saghata	100	90	100	90	85	90	95
53	43057	Adabaria SP	FMD	Patuakhali/ Bauphal	100	85	90	95	90	90	100
56	43060	Ponahura SP	FMD	Patuakhali/ Bauphal	100	95	100	90	90	90	100
57	43061	Bhagalpur-Montala SP	FMD	Sirajganj/ Ullapara	100	89	100	88	90	90	100
60	43064	Dier Khal SP	FMD	Bagerhat/ Sadar	100	90	100	85	90	85	100
68	43072	Pathuria-Kalibari SP	FMD	Bagerhat/ Morelganj	100	90	100	90	85	90	95
72	44078	Dhankundi SP	FMD	Bogra/ Sherpur	100	85	90	95	90	90	100
77	44092	Faridpur Badurerjan SP	FMD	Rangpur/ Mithapukur	100	95	100	90	90	90	100
81	44097	Dudhal SP	FMD	Barisal/ Bakerganj	100	90	100	90	90	90	100
82	44101	Bonduk Khali Khal	FMD	Meherpur/ Sadar	100	90	100	90	85	90	95
88	44112	Harirampur Beel SP	FMD	Meherpur/ Sadar	100	85	90	95	90	90	100
89	44113	Jhiry Bridge-Jangalpara Khal SP	FMD	Gaibandha/ Gobindaganj	100	95	100	90	90	90	100
Subprojects under CAD											
8	41008	Gosinga-Sitalakha SP	CAD	Gazipur/ Sreepur	100	90	100	90	90	90	100
12	41013	South Gohat SP	CAD	Chandpur/ Kachua	100	90	100	85	90	85	100
13	41014	Udara Khal SP	CAD	Chandpur/ Kachua	100	90	100	90	90	90	100
14	41015	Sundari Khal SP	CAD	Chandpur/ Kachua	100	90	100	85	90	85	100
19	42021	Fasiakhali Irrigation SP	CAD	Cox's Bazar/ Chakoria	100	90	100	90	90	90	100
37	43039	Ghoghodima Khutbatala SP	CAD	Chapai Nawabganj/ Sadar	100	90	100	85	90	85	100
78	44093	Paschim Joar SP	CAD	Chittagong/ Mirersarai	100	90	100	90	90	90	100

11.5 Environmental Impact Assessment

Based on the collected field data/information, efforts has been made to shed some lights on the impacts of subproject interventions on various project pertinent environmental issues, and these findings are presented below in the **Table-14**. As part of the environmental impact assessment process, the impacts were broadly classified as physical, biological and social, and then each of these broad categories further divided into different aspects. The potential impacts thus identified are characterized as follows:

positive (beneficial) impact: (+)

Negative (adverse) impact: (-)

Insignificant or no impact: (0)

11.5.1 Physical Assessment

- (a) Impact on Agricultural Land Types by flood depth: As found from impact Assessment (**Table14**), none of the subproject types Drainage (DR), Command Area Development (CAD), Water Conservation, Rubber Dam (WC-RD) yielded any impact on agricultural land types. But only 9 nos. of Flood Management & Drainage (FMD) subprojects and 5 nos. of Flood Management & Drainage have registered an increase in agricultural land of type F0+F1(highland + medium highland). As all these subprojects will make changes in monsoon water level under pre and post project conditions, the increase of land types F0+F1 is understandable.
- (b) Impact on Erosion & Siltation Issues: From the impact assessment table, it is apparent , that none but all the 20 nos. of FMD subprojects and 29 nos. of WCD subprojects have yielded a positive impact on the erosion and siltation problem, that is, erosion and siltation in the subproject khals has been reported to be significantly checked.
- (c) Impact on Flooding and River Hydrology: As observed from impact assessment, none of the CAD, DR, WC-RD and WCD type of subprojects has resulted any change in the existing condition of flooding and river hydrology, and this is due to the fact that there will be no change in monsoon water level under pre and post project conditions. On the other hand, only 7 nos. of FMD subprojects have registered change in the flooding and river hydrological conditions of the subprojects, and this is due to the fact that the subproject khals cannot drain out adequate water from the subproject area during pre and post monsoon. Thus, there will be change in agricultural land types and an increase in the agricultural production.
- (d) Impact on Water Logging and Drainage: As observed from the impact assessment table, this issue is not pertinent to CAD and WC-RD types of subprojects. But all the subprojects of type DR (47 nos.), FMD (20 nos.) and WCD (29 nos.) have had positive impacts in the removal of water logging and improvement of drainage. Since these subprojects involve either construction of embankment or regulator/sluice or re-excavation of khals or their combinations, these interventions evidently limit flood water to get in and improve drainage and capacity of the subproject khals to hold more water for irrigation.
- (e) Impact on Tidal Flooding and Saline Water Intrusion: As it appears from the impact assessment table, none of the subprojects except one (Pathuria-Kalibari SP) of the FMD type has resulted in positive impact in relation to the tidal flooding and saline water intrusion. Proposed interventions in the mentioned subproject area might have prevented high tidal inundation by peripheral embankments, and controlled saline water intrusion by tidal sluices and conserve sweet water in the re-excavated channels/khals, and this in turn benefits subproject agriculture and Fishery.

11.5.2 Biological Assessment

- (a) Change in Number of Fish Cultivators/Aquaculturist: As observed from the impact assessment table, all the subproject types demonstrated positive impact in relation to the increment in fish cultivators/aquaculturist. Fisheries Report may be consulted for the details.
- (b) Incremental Fish Production(in Floodplain & Permanent Water Bodies: As observed from the impact assessment table, all the subproject types demonstrated positive impact in relation to the incremental fish production from floodplain and permanent water bodies. Fisheries Report may be consulted for the details.
- (c) Impact on Wetland & Aquatic Habitat: As observed from the impact assessment table, all the subproject types except CAD type confirmed positive impact on the wetland & aquatic habitats of subproject area.
- (d) Impact on Terrestrial Habitat & Natural Vegetation: As observed from the impact assessment table, all the subproject types except CAD and DR type confirmed positive impact on the terrestrial habitat & natural vegetation. New plantation along the road, drainage channel and embankment slope could be the reason for this positive impact.
- (e) Impact on Wild life & Biodiversity: As observed from the impact assessment table, none of the subproject types has registered any impact on wildlife & biodiversity of the subproject area.

11.5.3 Social & Socio-Economic Assessment

- (a) Soil Quality / Fertility: As revealed from the impact assessment table, all the subproject types demonstrated positive impact on soil quality in relation to the soil fertility status of subproject soils. This positive impact is perhaps due to the fact that subproject farmers under the project received various agricultural training on integrated crop management (ICM), and which subsequently encouraged them to adopt planned cropping patterns and made them aware of soil fertility management.
- (b) Incremental Cropping intensity & cropped Area: As observed from the impact assessment table, all the subproject types demonstrated positive impacts of different degrees on the incremental increase of cropping intensity and cropped area as well. Such positive impacts are linked to the project interventions that have resulted drainage improvement and removal of water logging, flood protection and water conservation, and timely land preparation and planting. For details of incremental increase of cropping intensity and cropped area, the EME Agriculture Report may be consulted.
- (c) Incremental Crop production & Yield: As found from the impact assessment table, all the subproject types demonstrated positive impacts of different degrees on the incremental increase in crop production. Such type of impact from subproject intervention is obvious as it is linked to the resultant incremental cropping intensity and cropped area. For details of incremental increase of crop production and crop yield, the EME Agriculture Report may be consulted.
- (d) Gender Development & Cultural Values: As revealed from the impact assessment table, intervention of subprojects of all types has resulted positive impacts on gender development and cultural values. Within the female community of subproject area, there are a good number of landless and destitute. With the subproject development, these landless households are benefited through increased employment in agriculture and fish culture activities; and the poor women are benefited from earthwork involved in the subproject implementation. The illiterate women, in addition to their household works, can grow vegetables and rear live stocks (cattle and poultry) with the assistance of WMCAs. However with the development of gender, the villagers are encouraged to observe sociocultural and religious festivals, and these are associated with Bangali New Year celebration and pre-monsoon fair and post-harvest festivals for the area.
- (e) Community Health & Livelihood: As found from the impact assessment table, all the subproject types have resulted improved community health and livelihood, and this is apparently due to the increased crop production and income generation, and improved health and nutritional status.
- (f) Employment Opportunities: As found from the impact assessment table, all the subproject types have resulted positive impacts on employment scopes. This positive impact of generation of employment opportunities can be attributed to the intensive agriculture and development of culture fishery due to subproject implementation.

Table 14: Subproject Environmental Impact Assessment

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Physical					Biological					Social & Socio Economic						
						Impact on agricultural land Types (EO+E1) / (E2+E3) by flood depth)	Impact on Erosion / Siltation Problem	Impact on Flooding / River	Hydrology Removal of water Logging & Improvement of Drainage	Change in number of Fish Cultivators/ Aqua culturist	Incremental Fish Production (in Floodplain & Permanent WB)	Wetland & Aquatic Habitat	Terrestrial Fauna / natural Vegetation	Wild Life & Biodiversity	Soil Quality / Fertility	Incremental Cropping intensity & Cropped Area	Incremental Cropped Production	Gender Development & Cultural Values	Community Health / Livelihood	Employment Opportunities		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
A) Command Area Development (CAD)																						
8	41008	Goshinga-Sitalakha	CAD	Gazipur/ Sreepur	600	0	N/A	0	N/A	0	+	+	0	0	0	+	+	+	+	+	+	
12	42013	South-Gohat	CAD	Chandpur/ Kachua	936	0	N/A	0	N/A	0	+	+	0	0	0	+	+	+	+	+	+	
13	42014	Udura Khal	CAD	Chandpur/ Kachua	997	0	N/A	0	N/A	0	+	+	0	0	0	+	+	+	+	+	+	
14	42015	Sunduri Khal	CAD	Chandpur/ Kachua	983	0	N/A	0	N/A	0	+	+	0	0	0	+	+	+	+	+	+	
19	42021	Fasiakhali Irrigation	CAD	Cox's Bazar/ Chakoria	358	0	N/A	0	N/A	0	+	+	0	0	0	+	+	+	+	+	+	
37	43039	Ghughudima-Khutbatala	CAD	Chapai Nawabganj/ Sadar	105	0	N/A	0	N/A	0	+	+	0	0	0	+	+	+	+	+	+	
78	44093	Pashchim Joar	CAD	Chittagong/ Mirersarai	250	0	N/A	0	N/A	0	+	+	0	0	0	+	+	+	+	+	+	
B) Drainage (DR)																						
20	42022	Sapleza DR-1	DR	Pirojpur/ Mathbaria	896	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
21	42023	Jalabaria DR-1	DR	Pirojpur/ Nesarabad	700	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
22	42024	Nishanbaria-Gazimahmud	DR	Barguna/ Sadar	750	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
28	43030	Aylapatakata DR-1	DR	Barguna/ Sadar	720	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
29	43031	Belgapur-Julupara	DR	Naogaon/ Niamatpur	1,000	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
31	43033	Santoshpara-Chatra	DR	Naogaon/ Niamatpur	900	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
32	43034	Potka Khali DR & Iri.	DR	Barguna/ Sadar	597	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
34	43036	Badrabati (South)	DR	Sirajganj/ Tarash	700	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
35	43037	Badrabati (North)	DR	Sirajganj/ Tarash	850	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
36	43038	Silaur-Dogangy SP	DR	Brahmanbaria/ Sadar	623	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
38	43040	Singkhali	DR	Barguna/ Amtoly	570	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
39	43041	Sonbunia Subproject	DR	Barguna/ Sadar	208	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
40	43042	Atrai-Burigang Subproject	DR	Naogaon/ Atrai	1,000	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
41	43043	Dehergati	DR	Barisal/ Babuganj	700	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
42	43044	Garabunia	DR	Barguna/ Amtoly	300	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
46	43048	Deshantorkathi-Garabunia	DR	Barguna/ Betagi	625	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
47	43049	Kapila-Krishnapur	DR	Barisal/Bakerganj	845	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
48	43050	Madhya-Purba Rajapur	DR	Patuakhali/ Bauphal	302	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
52	43056	Latifpur-Etbarpur Khal	DR	Comilla/ Chandina	666	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
54	43058	Sabupura	DR	Patuakhali/ Bauphal	540	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
58	43062	Gouripur	DR	Pirojpur/ Bhandaria	791	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
62	43066	Bhelumia	DR	Bhola/ Sadar	420	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
63	43067	Purba Char Madras	DR	Bhola/ Charfession	769	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
64	43068	Pashcim Char Madras	DR	Bhola/ Charfession	890	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
65	43069	Char Samaia	DR	Bhola/ Sadar	267	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
66	43070	Panchagram	DR	Jhalokathi/ Nalchhiti	820	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
70	44075	Losnabad Phalaghar	DR	Barisal/ Bakerganj	900	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
71	44077	Saorakathi	DR	Jhalokathi/ Sadar	750	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
73	44080	Challish kahania	DR	Jhalokathi/ Rajapur	869	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
74	44081	Thakurmaliik	DR	Barisal/ Bakerganj	920	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
75	44083	Amua Patikhalghata	DR	Jhalokathi/ Kathali	920	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
76	44084	Sitty Khal	DR	Jhenaidah/ Harinakunda	800	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
83	44103	Gothkhal Chalitabunia	DR	Barguna/ Amtoly	840	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
84	44104	Sarengal	DR	Jhalokathi/ Sadar	440	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
85	44106	Sachilapur	DR	Jhalokathi/ Sadar	480	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
87	44111	Kashipur	DR	Barisal/ Sadar	909	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
90	44117	Deulkathi-Binnapara	DR	Jhalokathi/ Sadar	884	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
92	44125	Chakhar	DR	Barisal/ Banaripara	815	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
93	44127	Haripasha-Pironda	DR	Jhalokathi/ Sadar	890	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
95	44131	Guarekha	DR	Pirojpur/ Nesarabad	996	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
97	44136	Paschim Chhayam Takta	DR	Barisal/ Mehendiganj	337	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
98	44143	Hetalia-Ballabhpur	DR	Patuakhali/ Sadar	467	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Physical					Biological					Social & Socio Economic						
						Impact on agricultural land Types (E0+E1) / (E2+E3) by flood depth)	Impact on Erosion / Siltation Problem	Hydrology on Flooding / River Removal of water Logging & Improvement of Drainage	Reduction of Saline Water Intrusion	Change in number of Fish Cultivators/ Aqua Cultivist	Incremental Fish Production (in Floodplain & Permanent WB)	Wetland & Aquatic Habitat	Terrestrial Fauna/ Natural Vegetation	Wild Life & Biodiversity	Soil Quality / Fertility	Incremental Cropping Intensity & Cropped Area	Incremental Cropped Production	Gender Development & Cultural Values	Community Health / Livelihood	Employment Opportunities		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
102	45152	Biddanandapur	DR	Barisal/ Mehendiganj	383	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
103	45157	Satail Beel	DR	Natore/ Boraigram	290	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
107	45205	Napitkhali-Burichar Khal	DR	Barguna/Sadar	550	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
108	45211	Uttampur	DR	Barisal/Bakerganj	550	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
109	46240	Amtoly-Ruhita-Potkakhali	DR	Barguna/ Bamna	847	0	N/A	0	+	0	+	+	+	0	0	+	+	+	+	+	+	
C) Flood Management & Drainage (FMD)																						
3	41003	Baika-Barahapania	FMD	Manikganj/ Harirampur	590	0	+	0	+	0	+	+	+	+	0	+	+	+	+	+	+	
5	41005	Kanakdia FMD	FMD	Patuakhali/ Bauphal	730	0	+	0	+	0	+	+	+	+	0	+	+	+	+	+	+	
9	41009	Kusta Thakurkandi FMD	FMD	Manikganj/ Gheor	340	0	+	0	+	0	+	+	+	+	0	+	+	+	+	+	+	
10	41010	Swarnakhali Khal	FMD	Dhaka/ Dhamrai	370	0	+	0	+	0	+	+	+	+	0	+	+	+	+	+	+	
16	42017	Nabinpur-Dholar Beel	FMD	Meherpur/ Gangni	932	+ / -	+	+	+	0	+	+	+	+	0	+	+	+	+	+	+	
17	42018	Kata Khal	FMD	Meherpur/ Mujibnagar	221	+ / -	+	+	+	0	+	+	+	+	0	+	+	+	+	+	+	
30	43032	Samaspara-Chalktemukh-Islamgati	FMD	Naogaon/ Atrai	740	+ / -	+	+	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
33	43035	Goal Kandi-Daturbari	FMD	Gaibandha/ Gobindaganj	500	0	+	0	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
51	43055	Dholdholia	FMD	Gaibandha/ Saghata	748	+ / -	+	+	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
53	43057	Adabaria	FMD	Patuakhali/ Bauphal	270	+ / 0	+	0	+	0	+	+	+	+	0	+	+	+	+	+	+	
56	43060	Ponahura FMD & WC	FMD	Patuakhali/ Bauphal	370	+ / 0	+	0	+	0	+	+	+	+	0	+	+	+	+	+	+	
57	43061	Bhagalpur Montola	FMD	Sirajganj/ Ullapara	714	0	+	0	+	0	+	+	+	+	0	+	+	+	+	+	+	
60	43064	Dier Khal	FMD	Bagerhat/ Sadar	665	0	+	0	+	0	+	+	+	+	0	+	+	+	+	+	+	
68	43072	Pathuria Kalibari	FMD	Bagerhat/ Morelganj	375	+ / -	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	
72	44078	Dhonkundi Beel	FMD	Bogra/ Sherpur	509	0	+	0	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
77	44092	Faridpur-Badurerjan	FMD	Rangpur/ Mithapukur	310	+ / -	+	+	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
81	44097	Dudhal	FMD	Barisal/ Bakerganj	415	+/-	+	+	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
82	44101	Bondukkhali Khal	FMD	Meherpur/ Sadar	268	0	+	0	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
88	44112	Harirampur Beel	FMD	Meherpur/ Sadar	396	0	+	0	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
89	44113	Jhirai Bridge-Jangalpara Khal	FMD	Gaibandha/ Gobindaganj	440	0	+	0	+	N/A	+	+	+	+	0	+	+	+	+	+	+	
D) Water Conservation, Rubber dam (WC, RD)																						
6	41006	Bhelabari Durgapur	WC (RD)	Lalmonirhat/ Aditmari	893	0	-	0	N/A	N/A	+	+	+	0	0	+	+	+	+	+	+	
7	41007	Harwalchari	WC (RD)	Chittagong/ Fatikchhari	650	0	-	0	N/A	N/A	+	+	+	0	0	+	+	+	+	+	+	
43	43045	Pok Khali-Naikkhongdia	WC (RD)	Cox's Bazar/ Sadar	663	0	-	0	N/A	N/A	+	+	+	0	0	+	+	+	+	+	+	
44	43046	Thimchari-Purbakul	WC (RD)	Cox's Bazar/ Ukhia	784	0	-	0	N/A	N/A	+	+	+	0	0	+	+	+	+	+	+	
45	43047	Pashchim Dighulia	WC (RD)	Cox's Bazar/ Ukhia	881	0	-	0	N/A	N/A	+	+	+	0	0	+	+	+	+	+	+	
49	43051	Monirjheel-Sonaichhari Khal	WC (RD)	Cox's Bazar/ Ramu	637	0	-	0	N/A	N/A	+	+	+	0	0	+	+	+	+	+	+	
E) Water Conservation & Drainage (WCD)																						
1	41001	Nimai Khari Khal	WCD	Dinajpur/ Sadar	850	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
2	41002	Purba Sarail Madhai Khal	WCD	Joypurhat/ Kalai	732	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
4	41004	Chak Govindapur-Aladpur	WCD	Gaibandha/ Sadullapur	470	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
11	41011	Noapara-Hazirdhara	WCD	Rajshahi/ Puthia	682	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
15	42016	Gabua Fultala	WCD	Barguna/ Betagi	750	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
18	42020	Ulushikhal	WCD	Sirajganj/ Tarash	650	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
23	42025	Kujail-Sodakhali-Ractodoha	WCD	Naogaon/ Raninagar & Atrai	682	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Physical					Biological					Social & Socio Economic						
						Impact on agricultural land types (E0+E1) / (E2+E3) by flood death	Impact on Erosion / Siltation Problem	Impact on Flooding / River Hydrology	Removal of water Logging & Flood-flooding & Saline Water	Intrusion / number of Fish Cultivators/ Aqua Cultivist	Incremental Fish Production (in Floodplain & Permanent WB)	Wetland & Aquatic Habitat	Terrestrial Fauna/ Natural Vegetation	Wild Life & Biodiversity	Soil Quality / Fertility	Incremental Cropping intensity & Cropped Area	Incremental Cropped Production	Gender Development & Cultural Values	Community Health / Livelihood	Employment Opportunities		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
24	42026	Ratan Dhara (Sadhukhali)	WCD	Naogaon/ Raninagar & Atrai	511	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
25	42027	Nuruddin Khal	WCD	Pabna/ Sujanagar	235	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
26	43028	Sapdanga Khal WC & DR	WCD	Pabna/ Atghoria	650	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
27	43029	Burichar-Nur Ali Charakgachhia	WCD	Barguna/ Sadar	500	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
50	43054	Mofizan Khal	WCD	Gaibandha/ Saghata	200	+ / -	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
55	43059	Kedarpur-Gobindapur	WCD	Comilla/ Chandina	630	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
59	43063	Kathurakandi Khal	WCD	Jessore/ Bagherpara	750	+ / -	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
61	43065	Bhangakha-Nyamatur	WCD	Laxmipur/ Sadar	665	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
67	43071	Bokrabari	WCD	Rangpur/ Mithapukur	353	+ / -	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
69	44074	Swarupdaha Dhunar Khal	WCD	Jessore/ Chowgachha	841	+ / -	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
79	44094	Shree Khal	WCD	Joypurhat/ Akkelpur	450	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
80	44095	Kalapania Khal	WCD	Chittagong/ Fatikchhari	440	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
86	44107	Amail Indail	WCD	Bogra/ Adamdighi	545	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
91	44119	Bangla Bazar-Gopalpur	WCD	Noakhali/ Begumganj	690	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
94	44130	Purandar Vushan Chandrer Bari	WCD	Gaibandha/Gobindaganj	500	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
96	44135	Debdun Bauisona Khal	WCD	Narail/ Kalia	253	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
99	45145	Naimuri Alidaha	WCD	Sirajganj/ Ullapara	380	+ / -	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
100	45148	Bottola Khal SP	WCD	Jhalokathi/ Nalcity	922	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
101	45150	Chandpasha	WCD	Barisal/ Babuganj	616	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
104	45168	Chalitabunia	WCD	Pirojpur/Mathbaria	850	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
105	45173	Charadi	WCD	Barisal/Bakerganj	650	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	
106	45180	Tengrakhali Char Tengra	WCD	Bagerhat/Kachua & Sadar	280	0	+	0	+	N/A	+	+	+	0	0	+	+	+	+	+	+	

11.6 Water Quality Assessment

Effect monitoring and evaluation of water quality are intended to determine the impact of project interventions on the sample subproject's water quality. In order to undertake this evaluation 30%, a total of 34 subprojects from among 109 subprojects under implementation (from Batches 1 to 6 under the year 2016-2017)

Data collected during the first year is used for establishing baseline conditions and then follow-up data (value range for year 2016-2017 at different periods) of monitoring period are being compared for assessing impact evaluation.

The water quality parameters for this monitoring are pH, electrical conductivity (Eh), dissolved oxygen (DO), nitrate-N (NO₃-N), phosphate-P (PO₄⁻³), water hardness (as CaCO₃), total dissolved solids (TDS) and Temp (°C). The water quality test results of target sample subprojects presented in (**Annex-B**)

However, analysis of the water quality test results of sample subprojects has demonstrated basically no remarkable abnormalities with respect to the quality of surface and ground water. Values of all the tested parameters of water quality agree well with the recommended values of the Department of Environment. Only in few instances salinity values of surface water and CaCO₃ (Hardness) values demonstrated somewhat irregularities. By and large subproject interventions appear to exert no noticeable adverse impact on water quality in the sample subprojects.

11.7 Environmental Training and Capacity Development

In order to ensure effective and timely implementation of the EMP, in particular, and to enhance the environmental management capacity of Upazila Engineers, Sr. Sociologists, and Socio-economist of project districts, and WMCA members at subproject level, a training program has been developed and imparted during project period. Once the Upazila Engineers, Sr. Sociologists, and Socio-economist staffs have received appropriate training and have gained adequate experience on environmental related matters, they are expected to train the WMCA members and contractor's staffs, NGOs and other stakeholders. The following aspects are considered in the environmental training programme:

- Integrating environmental considerations in project planning & design, implementation and O&M planning by preparing environmental management plan (EMP) for subprojects
- Strengthening knowledge of environmental aspects to monitoring environmental issues, impact and management
- Strengthening the theoretical and practical knowledge of LGED Environmental Lab personnel in order to facilitate smooth operation of lab exercises for water quality testing in particular
- Strengthening the understanding and environmental knowledge of WMCA members with focus on protection and management of natural resources and their sensible and rational use as well

In order to achieve the above aspects, a comprehensive environmental training program has been designed for the study subprojects. Three hundred sixty eight (368) course events have been executed so far where eleven thousand sixty four (11064) trainees participated in the training including four thousand seven hundred twenty two (4722) females (42.68%). The course events spread over eleven thousand seven hundred eighteen (11718) trainee days. These training details are given in the **Table 15**:

As a result of training imparted to LGED Officials and WMCA members, field monitoring is being carried out to verify whether the subproject contractor/LCS are properly implementing the environmental management works as specified in the contract document and adhering to the underlying principles of ADB's Environmental Safeguard Policies. They effectively monitor earth work/construction related issues on physical and social environment like soil erosion, temporary interruption of natural drainage and local flooding, pollution from construction materials, equipments and dust, traffic disruption, construction safety etc and submit reports to project office mentioning subproject-wise possible impacts, their mitigation measures, observations and recommendations.

LGED's Lab-Technicians after receiving training, monitor water quality parameters like ; temperature, pH, Nitrate, Arsenic, Total Dissolved solid(TDS), Salinity, Phosphate, Electrical Conductivity, Dissolved Oxygen(DO), Water Hardness, Salinity etc. and submit their reports to project office mentioning subproject-wise possible impacts, observations and recommendations for management decision.

As a result of Environmental Awareness and Local Resources Management training, the WMCA members became aware of using arsenic free drinking water, benefit of homestead gardening, applying integrated pest management in agriculture, properly dispose of organic wastes, improving sanitation habits etc.

Table 15: Status of Environmental Training

Sl. No.	Course Code, Title & Category of Participants			Cumulative Achievement as of June, 2016						
				No. of Events	Duration (days)	Participants		Total Participants	Trainee days	Cost (BDT Lakh)
	Code	Title	Category of Participants			Male	Female			
1	PSSW-92	Implementation & Monitoring of Environmental Mitigation measures	XEN,UE,AE,Socio,CO, CA, WMCA members	62	1	1444	354	1798	1798	40.09
2	PSSW-93	Environmental Laboratory and Water Quality Testing	Selected LGED Lab Technicians, Lab Asstt. & Agri/Fish Faci.	7	3,2,1	199	0	199	420	11.3
3	PSSW-167	Orientation on Environmental Awareness and Local Resources Management	WMCA members and general beneficiaries, including women & Cos	285	1	4323	4311	8634	8634	93.65
4	PSSW-168	TOT on Environmental Issues, Impact & Management	AE,UE, SoE,CO, Selected WMCA Chairman/Secretary/Women members	14	2	376	57	433	866	19.15
		Total		368		6342	4722	11064	11718	164.19

11.8 Concluding Remarks

Extensive monitoring of the environmental concerns of PSSWRSP suggests the actions required to implement the subproject components and related activities in an environmentally sound manner. Further, it sets out the actions to be taken in combination with the necessary compliance monitoring.

Particular areas for monitoring action are the avoidance of pollution of any land or water (surface or groundwater), the preservation of flora and fauna and the avoidance of disruption from noise, vibrations or dust and compliance of Occupational Health and Safety and Public Health and Safety during the course of the works. Monitoring consists of the following:

- Environmental Inspections (undertaken on regular basis)
- Assessment of the inspections (on monthly/quarterly basis)
- Follow-up inspections on corrective actions (when needed)

The Environmental Inspections generate the primary set of monitoring data that are being used to evaluate the effectiveness of environmental management and to demonstrate compliance with the Contract Specifications.

Effect monitoring has helped to evaluate the performance of the environmental protection measures and with that, the overall effectiveness of environmental management, and to demonstrate compliance with the Contract Specifications and implementation of the Environmental Safeguard Policies of ADB and the recommendations of the Department of Environment (DoE), Bangladesh.

**Participatory Small Scale Water Resources Sector Project
(PSSWRSP)
Environmental Performance Assessment Checklist
Part A: General Project Information**

Subproject Name: Bhagalpur-Montola SP
 Subproject No: SP - 43061 Batch No:
 Subproject Type: Flood Management & Drainage (FMD)
 District / Upazila: Sirajganj / Ullapara
 Form Completed by: Md. Nurul Islam, Environmental Specialist Phone: 01760602194

Part B: Monitoring Information

Performance Indicator 1. Design and Preparation

The PIC (Environmental Specialist, ES/Construction Management & Quality Control Specialist, CM & QCS to complete 1-4 at the time the project is tendered.

	Score	Remarks/ (Performance, %)
1. Does the subproject design meet applicable engineering safety and public health standards?	4	
2. Has ADB approved the revised and updated IEE and related EMP for the subproject?	4	
3. Have applicable resettlement provisions been disclosed and compensation made to affected persons or households?	4	
4. Have special conditions and the EMP been included in the procurement documents?	4	

The PIC to complete 5-13 with the CM & QCS and construction contractor at the time of start-up.

5. Are the special conditions and the EMP from the subproject IEE included in the construction contract?	4	
6. Has the contractor prepared a Construction EMP?	4	
7. Has the Contractor's supervisory staff obtained environmental management training and orientation?	4	
8. Has the contractor posted a public notice regarding the nature, extent and cost of the project?	4	
9. Are locations for equipment/materials storage sufficiently distant from schools and hospitals?	4	
10. Have worksite and ancillary sites been surveyed and pegged to ensure correct lines and grades?	4	
11. Has final verification of affected persons/assets been undertaken prior to commencement of works?	4	
12. Are owner agreements in place for temporary use of land for worker camps and construction yards?	4	
13. Are quarry sites, borrow pits and spoil disposal sites selected in consultation with local authorities/community?	4	
Score (1-13; 13 total) 52	52	100%

Performance Indicator 2. Worker Provisions

The PIC to complete 14-20 in conjunction with the construction contractor following commencement of construction.

	Score	Remarks/ (Performance, %)
14. Is GOB labor law complied with in hiring of workers?	4	
15. Are supervisors or other site personnel trained in basic first aid emergency response measures?	4	
16. Are first aid kits readily available to workers at the job site along with instructions for use?	4	
17. Has the contractor undertaken an awareness program for communicable diseases/HIV-AIDS?	3	
18. Has the contractor provided necessary safety equipment to workers and training in use?	3	
19. Are construction camps adequately equipped with water supply, sanitary toilets, washing facilities and facilities for waste collection and storage?	3	
20. Do workers at construction sites have access to potable water supply and toilet facilities?	4	
Score (14-20; 7 total) 28	25	89%

Performance Indicator 3. Gender Equity

The PIC should complete 21 - 23 in conjunction with the construction contractor following commencement of construction.

	Score	Remarks/ (Performance, %)
21. Does the contractor engage women laborers and project-affected women in suitable work?	4	
22. Does the contractor provide equal wages for equal value of work to women engaged at the worksite?	4	
23. Has separate sanitation facilities been provided for women at work camps and the construction site?	4	
Score (21 - 23; 3 total) 12	12	100%

Performance Indicator 4. Community Based Monitoring

The PIC should complete 24 and 25 in conjunction with the construction contractor following commencement of construction.

	Score	Remarks/ (Performance, %)
24. Has the contractor posted a public notice regarding the Grievance Redress Mechanism (GRM)?	4	
25. Has there been a public consultation regarding construction environmental impact, and the community complaints system?	3	
Score (24-25; 2 total) 8	7	88%

Performance Indicator 5. Community Values and Safety

The PIC should complete Items 26 – 38 on visual inspection of the conduct of work.

	Score	Remarks/ (Performance, %)
26. Is temporary access provided to homes and businesses?	3	
27. Is permanent access reinstated on completion of a segment of work?	4	
28. ~~Are construction hours adjusted around houses, hospitals and schools to minimize disturbance?~~	N/A	
29. Does the contractor limit the scope of construction in progress to minimize community impacts?	4	
30. Are physical impacts on public infrastructure and service disruption minimized?	4	
31. Are materials transported on approved haul routes?	4	
32. Is construction equipment kept in good condition?	4	
33. Do vehicles operate within legal speed limits?	3	
34. Are trucks hauling bulk materials covered in transit?	3	
35. Is dust suppressed and road surfaces kept clean?	3	
36. Has the contractor installed signs and lighting in vicinity of works on public roads?	4	
37. Are construction activities barricaded and pedestrian pathways maintained?	3	
38. Have complaints arising during the quarter been satisfactorily resolved?	4	
Score (26-38; 12 total) 48	43	90%

Performance Indicator 6. Hydrology/Water Pollution

The PIC should complete Items 39 – 43 on visual inspection of the conduct of work.

	Score	Remarks/ (Performance, %)
39. Are construction camps and equipment/materials stores maintained in clean and hygienic condition?	4	
40. Are oil, fuel and chemicals stored in enclosed areas (dyked or covered)?	4	
41. Is clearing activity suspended during rains?	4	
42. Have existing drainage patterns been maintained during construction?	4	
43. Are sediment controls installed upslope of waterways?	2	
Score (39-43; 5 total) 20	18	90%

Performance Indicator 7. Project Completion

The PIC should complete items 44 – 50 prior to finalizing the construction works.

	Score	Remarks/ (Performance, %)
44. Have drainage fixtures, curbs, road shoulders and ditch slopes been finished out to prevent hazard to the public during use?	4	
45. Are ground surfaces in the project area graded to prevent water from collecting?	4	
46. Have all construction debris, tree cuttings, excess dirt, rubble and scrap been removed from the construction zone?	4	
47. Have all pits been filled in and graded to drain, underground tanks (including septic tanks) removed and holes backfilled?	4	
48. Are all wastes and unused materials removed from the site, equipment yards and worker camps?	4	
49. Have all points of access (drives, walks) and utilities (water supply, power, communications) to public and private property been restored to original condition?	4	
50. Have all complaints by project-affected persons been resolved by the Contractor?	4	
Score (44-50; 7 total) 28	28	100%

Annex-B: Water Quality Impact Assessment

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
1. SP41001, Nimai Khari Subproject	Ground Water	Temperature, oC	25.9 ~ 29.3	20~30
Dinajpur, Sadar	(from a tube-well of	pH	6.8 ~ 7.1	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	395 ~ 680	<2000
	(of SP Khal, and it is	Temperature, oC	27.1 ~ 29.8	20~30
	used for crop irrigation	Salinity, ppm	142 ~ 188	300~1000
	and/or fisheries)	Phosphate (Ph4), mg/L	4.5 ~ 5.5	<6
		pH	6.6 ~ 6.9	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	285 ~ 342	400~1000
		Dissolved Oxygen, mg/L	4.9 ~ 5.7	4~6
		CaCo3(Hardness), mg/L	95 ~ 146	80~120
2. SP41002, Purba Sarail Madhai Khal	Ground Water	Temperature, oC	29.1 ~ 29.8	20~30
Joypurhat, Kalai	(from a tube-well of	pH	6.4 ~ 6.9	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	236 ~ 357	<2000
	(of SP Khal, and is used	Temperature, oC	28.2 ~ 29.7	20~30
	for crop irrigation and / or	Salinity, ppm	115 ~ 176	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.6 ~ 5.4	<6
		pH	6.8 ~ 6.9	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	343 ~ 405	400~1000
		Dissolved Oxygen, mg/L	4.0 ~ 4.5	4~6
		CaCo3(Hardness), mg/L	65 ~ 115	80~120
3. SP41011, Noapara-Hazirdhara Beel Subproject	Ground Water	Temperature, oC	22.0 ~ 25.0	20~30
Rajshahi, Puthia	(from a tube-well of	pH	6.9 ~ 7.3	6.5 ~ 8.5
	SP Area, and is used for	Nitrate, mg/L	<10 ~ <10	<10

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
	<i>drinking / domestic purpose)</i>	Arsenic, mg/L	< 0.01 ~ < 0.01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	172 ~ 282	<2000
	<i>(of SP Khal, and is used for crop irrigation and / or fisheries)</i>	Temperature, oC	25 ~ 28	20~30
		Salinity, ppm	150 ~ 285	300~1000
		Phosphate (Ph4), mg/L	4.4 ~ 5.4	<6
		pH	7.1 ~ 7.2	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	175 ~ 340	400~1000
		Dissolved Oxygen, mg/L	5.1 ~ 5.9	4~6
		CaCo3(Hardness), mg/L	85 ~ 110	80~120
4. SP42020, Ulushi Khal Subproject	Ground Water	Temperature, oC	24.1 ~ 27.4	20~30
Sirajganj, Tarash	<i>(from a tube-well of SP Area, and is used for drinking / domestic purpose)</i>	pH	7.1 ~ 7.3	6.5 ~ 8.5
		Nitrate, mg/L	<10 ~ <10	<10
		Arsenic, mg/L	< 0.01 ~ < 0.01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	152 ~ 230	<2000
	<i>(of SP Khal, and is used for crop irrigation and / or fisheries)</i>	Temperature, oC	26.0 ~ 30.0	20~30
		Salinity, ppm	108 ~ 185	300~1000
		Phosphate (Ph4), mg/L	4.1 ~ 5.1	<6
		pH	7.1 ~ 7.5	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	225 ~ 340	400~1000
		Dissolved Oxygen, mg/L	3.9 ~ 5.9	4~6
		CaCo3(Hardness), mg/L	115 ~ 150	80~120
5. SP42016 Gabua Fultala	Ground Water	Temperature, oC	28.5 ~ 29.1	20~30
Barguna, Betagi	<i>(from a tube-well of SP Area, and is used for drinking / domestic purpose)</i>	pH	7.5 ~ 7.8	6.5 ~ 8.5
		Nitrate, mg/L	<10 ~ <10	<10
		Arsenic, mg/L	< 0.01 ~ < 0.01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	136 ~ 215	<2000
	<i>(of SP Khal, and is used for crop irrigation and / or fisheries)</i>	Temperature, oC	29.5 ~ 30.0	20~30
		Salinity, ppm	174 ~ 275	300~1000
		Phosphate (Ph4), mg/L	4.6 ~ 5.1	<6
		pH	7.5 ~ 8.0	6.5 ~ 8.5
		Nitrate, mg/L	<10 ~ <10	<10
		Electrical Conductivity (EC), µs/cm	205 ~ 285	400~1000
		Dissolved Oxygen, mg/L	4.19 ~ 4.85	4~6
		CaCo3(Hardness), mg/L	130 ~ 135	80~120
6. SP43034, Potka Khali DR & Irri Subproject	Ground Water	Temperature, oC	25 ~ 30	20~30
Barguna, Sadar	<i>(from a tube-well of SP Area, and is used for drinking / domestic purpose)</i>	pH	7.7 ~ 7.95	6.5 ~ 8.5
		Nitrate, mg/L	<10 ~ <10	<10
		Arsenic, mg/L	< 0.01 ~ < 0.01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	70 ~ 80	<2000
	<i>(of SP Khal, and is used for crop irrigation and / or</i>	Temperature, oC	27 ~ 30	20~30
		Salinity, ppm	155 ~ 190	300~1000

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
	<i>fisheries)</i>	Phosphate (Ph4), mg/L	4.3 ~ 5.21	<6
		pH	6.8 ~ 7.6	6.5 ~ 8.5
		Nitrate, mg/L	<10 ~ <10	<10
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	310 ~ 320	400~1000
		Dissolved Oxygen, mg/L	5.1 ~ 5.7	4~6
		CaCo3(Hardness), mg/L	100 ~ 130	80~120
7. SP43061, Badrabati (South) Subproject	Ground Water	Temperature, oC	27.0 ~ 28.5	20~30
Sirajganj, Ullapara	<i>(from a tube-well of</i>	pH	6.8 ~ 7.1	6.5 ~ 8.5
	<i>SP Area, and is used for drinking / domestic</i>	Nitrate, mg/L	<10 ~ <10	<10
	<i>purpose)</i>	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	260 ~ 302	<2000
	<i>(of SP Khal, and is used</i>	Temperature, oC	26.8 ~ 28.7	20~30
	<i>for crop irrigation and / or</i>	Salinity, ppm	195 ~ 275	300~1000
	<i>fisheries)</i>	Phosphate (Ph4), mg/L	4.5 ~ 5.2	<6
		pH	6.9 ~ 7.3	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	255 ~ 324	400~1000
		Dissolved Oxygen, mg/L	3.8 ~ 5.0	4~6
		CaCo3(Hardness), mg/L	90 ~ 150	80~120
8. SP43058, Shabupura Khal Subproject	Ground Water	Temperature, oC	22.6 ~ 25.1	20~30
Patuakhali, Bauphal	<i>(from a tube-well of</i>	pH	6.9 ~ 7.3	6.5 ~ 8.5
	<i>SP Area, and is used for drinking / domestic</i>	Nitrate, mg/L	<10 ~ <10	<10
	<i>purpose)</i>	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	170 ~ 282	<2000
	<i>(of SP Khal, and is used</i>	Temperature, oC	22.0 ~ 28.0	20~30
	<i>for crop irrigation and / or</i>	Salinity, ppm	169 ~ 310	300~1000
	<i>fisheries)</i>	Phosphate (Ph4), mg/L	4.7 ~ 5.4	<6
		pH	7.1 ~ 7.4	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	240 ~ 355	400~1000
		Dissolved Oxygen, mg/L	4.8 ~ 5.5	4~6
		CaCo3(Hardness), mg/L	90 ~ 110	80~120
9. SP43070, Panchagram Subproject	Ground Water	Temperature, oC	30.5 ~ 30.9	20~30
Jhalokathi, Nalcity	<i>(from a tube-well of</i>	pH	7.4 ~ 7.8	6.5 ~ 8.5
	<i>SP Area, and is used for drinking / domestic</i>	Nitrate, mg/L	<10 ~ <10	<10
	<i>purpose)</i>	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
	Surface Water	Total Dissolved solids (TDS), mg/L	168 ~ 387	<2000
	(of SP Khal, and is used	Temperature, oC	30.5 ~ 31.0	20~30
	for crop irrigation and / or	Salinity, ppm	197 ~ 275	300~1000
	fisheries)	Phosphate (Ph4), mg/L	3.5 ~ 5.2	<6
		pH	6.5 ~ 7.3	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	303 ~ 449	400~1000
		Dissolved Oxygen, mg/L	4.0 ~ 4.5	4~6
		CaCo3(Hardness), mg/L	135 ~ 165	80~120
10. SP43032, Chalk Temukh Islamgati Subproject	Ground Water	Temperature, oC	29.8 ~ 30.2	20~30
Naogaon, Atrai	(from a tube-well of	pH	6.7 ~ 6.8	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	382 ~ 450	<2000
	(of SP Khal, and is used	Temperature, oC	28.8 ~ 30.0	20~30
	for crop irrigation and / or	Salinity, ppm	205 ~ 355	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.5 ~ 5.8	<6
		pH	6.7 ~ 6.9	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	525 ~ 634	400~1000
		Dissolved Oxygen, mg/L	4.5 ~ 5.0	4~6
		CaCo3(Hardness), mg/L	115 ~ 165	80~120
11. SP43060, Ponahura Subproject	Ground Water	Temperature, oC	22.5 ~ 25.1	20~30
Patuakhali, Bauphal	(from a tube-well of	pH	6.9 ~ 7.3	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	172 ~ 282	<2000
	(of SP Khal, and is used	Temperature, oC	25.0 ~ 28.0	20~30
	for crop irrigation and / or	Salinity, ppm	180 ~ 310	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.4 ~ 5.4	<6
		pH	7.1 ~ 7.2	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	175 ~ 340	400~1000
		Dissolved Oxygen, mg/L	5.1 ~ 5.9	4~6
		CaCo3(Hardness), mg/L	85 ~ 110	80~120
12. SP43061, Bhagalpur-Montala Subproject	Ground Water	Temperature, oC	27.0 ~ 29.5	20~30
Sirajganj, Ullapara	(from a tube-well of	pH	6.75 ~ 7.2	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	260 ~ 302	<2000
	(of SP Khal, and is used	Temperature, oC	26.6 ~ 28.5	20~30
	for crop irrigation and / or	Salinity, ppm	204 ~ 285	300~1000

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
	fisheries)	Phosphate (Ph4), mg/L	4.6 ~ 5.2	<6
		pH	6.9 ~ 7.3	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	390 ~ 480	400~1000
		Dissolved Oxygen, mg/L	3.8 ~ 5.2	4~6
		CaCo3(Hardness), mg/L	90 ~ 160	80~120
13. SP43033, Sontospara-Chatra Subproject	Ground Water	Temperature, oC	28.0 ~ 30.2	20~30
Naogaon, Niamatpur	(from a tube-well of	pH	6.7 ~ 7.1	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	402 ~ 1050	<2000
	(of SP Khal, and is used	Temperature, oC	28.0 ~ 31.0	20~30
	for crop irrigation and / or	Salinity, ppm	292 ~ 410	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.5 ~ 5.8	<6
		pH	6.8 ~ 7.2	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	505 ~ 685	400~1000
		Dissolved Oxygen, mg/L	4.2 ~ 5.5	4~6
		CaCo3(Hardness), mg/L	140 ~ 182	80~120
14. SP43063, Kuthurakandi Khal Subproject	Ground Water	Temperature, oC	28.2 ~ 28.9	20~30
Jessore, Bagharpara	(from a tube-well of	pH	6.2 ~ 6.7	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	276 ~ 310	<2000
	(of SP Khal, and is used	Temperature, oC	28.5 ~ 29.1	20~30
	for crop irrigation and / or	Salinity, ppm	158 ~ 198	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.4 ~ 5.3	<6
		pH	6.5 ~ 6.8	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	460 ~ 520	400~1000
		Dissolved Oxygen, mg/L	3.8 ~ 4.2	4~6
		CaCo3(Hardness), mg/L	358 ~ 512	80~120
15. SP43071, Bokrabari Subproject	Ground Water	Temperature, oC	22.4 ~ 25.0	20~30
Rangpur, Mithapukur	(from a tube-well of	pH	6.9 ~ 7.3	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	138 ~ 230	<2000
	(of SP Khal, and is used	Temperature, oC	25.1 ~ 28.2	20~30
	for crop irrigation and / or	Salinity, ppm	175 ~ 285	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.7 ~ 5.4	<6

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
		pH	7.1 ~ 7.3	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	152 ~ 340	400~1000
		Dissolved Oxygen, mg/L	4.8 ~ 5.9	4~6
		CaCo3(Hardness), mg/L	80 ~ 110	80~120
16. SP42027, Nuruddin Khal Subproject	Ground Water	Temperature, oC	25.7 ~ 28.2	20~30
Pabna, Sujanagar	(from a tube-well of	pH	6.9 ~ 7.2	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	126 ~ 530	<2000
	(of SP Khal, and is used	Temperature, oC	25.0 ~ 29.0	20~30
	for crop irrigation and / or	Salinity, ppm	275 ~ 410	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.5 ~ 5.6	<6
		pH	7.0 ~ 7.2	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	216 ~ 850	400~1000
		Dissolved Oxygen, mg/L	4.7 ~ 5.7	4~6
		CaCo3(Hardness), mg/L	105 ~ 154	80~120
17. SP43028, Sapdanga Khal Subproject	Ground Water	Temperature, oC	25.4 ~ 27.4	20~30
Pabna, Atghoria	(from a tube-well of	pH	7.1 ~ 7.3	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	216 ~ 385	<2000
	(of SP Khal, and is used	Temperature, oC	21.5 ~ 28.5	20~30
	for crop irrigation and / or	Salinity, ppm	295 ~ 435	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.2 ~ 5.4	<6
		pH	7.2 ~ 7.6	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	272 ~ 312	400~1000
		Dissolved Oxygen, mg/L	4.6 ~ 5.5	4~6
		CaCo3(Hardness), mg/L	108 ~ 140	80~120
18. SP43048, Deshantorkathi-Garabunia Subproject	Ground Water	Temperature, oC	27.4 ~ 30.9	20~30
Barguna, Betagi	(from a tube-well of	pH	7.8 ~ 8.0	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	136 ~ 245	<2000
	(of SP Khal, and is used	Temperature, oC	26.5 ~ 29.4	20~30
	for crop irrigation and / or	Salinity, ppm	135 ~ 190	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.1 ~ 5.2	<6
		pH	7.3 ~ 7.5	6.5 ~ 8.5

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
		Nitrate, mg/L	<10 ~ <10	<10
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	110 ~ 205	400~1000
		Dissolved Oxygen, mg/L	4.2 ~ 5.3	4~6
		CaCo3(Hardness), mg/L	120 ~ 135	80~120
19. SP43049, Kapila-Krishnapur Subproject	Ground Water	Temperature, oC	25.7 ~ 26.9	20~30
Barisal, Babuganj	(from a tube-well of	pH	7.4 ~ 7.7	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	130 ~ 160	<2000
	(of SP Khal, and is used	Temperature, oC	27.5 ~ 28.7	20~30
	for crop irrigation and / or	Salinity, ppm	120 ~ 140	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.5 ~ 5.1	<6
		pH	7.1 ~ 7.6	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	147 ~ 255	400~1000
		Dissolved Oxygen, mg/L	4.7 ~ 5.1	4~6
		CaCo3(Hardness), mg/L	105 ~ 130	80~120
20. SP44093, Paschim Joar Subproject	Ground Water	Temperature, oC	25.0 ~ 28.0	20~30
Chittagong, Mirsharai	(from a tube-well of	pH	6.6 ~ 7.2	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	70 ~ 120	<2000
	(of SP Khal, and is used	Temperature, oC	25.3 ~ 29.1	20~30
	for crop irrigation and / or	Salinity, ppm	195 ~ 289	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.0 ~ 5.0	<6
		pH	6.7 ~ 7.0	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	148 ~ 253	400~1000
		Dissolved Oxygen, mg/L	4.2 ~ 5.8	4~6
		CaCo3(Hardness), mg/L	158 ~ 190	80~120
21. SP44075, Losnabad Phalaghar Subproject	Ground Water	Temperature, oC	26.5 ~ 29.0	20~30
	(from a tube-well of	pH	7.5 ~ 7.8	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	136 ~ 174	<2000
	(of SP Khal, and is used	Temperature, oC	26 ~ 28	20~30
	for crop irrigation and / or	Salinity, ppm	110 ~ 135	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.2 ~ 5.0	<6
		pH	7.6 ~ 7.9	6.5 ~ 8.5
		Electrical Conductivity (EC), $\mu\text{S}/\text{cm}$	205 ~ 310	400~1000

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
		Dissolved Oxygen, mg/L	4.2 ~ 5.2	4~6
		CaCo3(Hardness), mg/L	118 ~ 135	80~120
22. SP44077, Saorakhati Subproject	Ground Water	Temperature, oC	26.0 ~ 30.0	20~30
Jhalokathi, Sadar	(from a tube-well of	pH	7.3 ~ 7.8	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	297 ~ 357	<2000
	(of SP Khal, and is used	Temperature, oC	27.0 ~ 30.0	20~30
	for crop irrigation and / or	Salinity, ppm	150 ~ 253	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.5 ~ 4.8	<6
		pH	6.8 ~ 7.1	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	208 ~ 387	400~1000
		Dissolved Oxygen, mg/L	4.0 ~ 4.5	4~6
		CaCo3(Hardness), mg/L	135 ~ 159	80~120
23. SP44111, Kashipur Subproject	Ground Water	Temperature, oC	25.2 ~ 28.4	20~30
Barisal, Sadar	(from a tube-well of	pH	7.3 ~ 7.9	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	80 ~ 163	<2000
	(of SP Khal, and is used	Temperature, oC	26.0 ~ 29.0	20~30
	for crop irrigation and / or	Salinity, ppm	120 ~ 165	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.4 ~ 5.0	<6
		pH	6.8 ~ 7.8	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	148 ~ 253	400~1000
		Dissolved Oxygen, mg/L	4.9 ~ 5.2	4~6
		CaCo3(Hardness), mg/L	105 ~ 175	80~120
24. SP44078, Dhankundi Subproject	Ground Water	Temperature, oC	28.5 ~ 30.1	20~30
Bogra, Sherpur	(from a tube-well of	pH	6.9 ~ 7.0	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	367 ~ 398	<2000
	(of SP Khal, and is used	Temperature, oC	29.4 ~ 30.1	20~30
	for crop irrigation and / or	Salinity, ppm	203 ~ 237	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.4 ~ 4.9	<6
		pH	6.8 ~ 7.1	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	412 ~ 432	400~1000
		Dissolved Oxygen, mg/L	4.2 ~ 4.8	4~6
		CaCo3(Hardness), mg/L	166 ~ 179	80~120
25. SP44074, Swarupdaha Dhunar Khal Subproject	Ground Water	Temperature, oC	28.2 ~ 29.2	
Jessore, Chowgacha	(from a tube-well of	pH	6.5 ~ 6.8	20~30
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	6.5 ~ 8.5
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	<10
	Surface Water	Total Dissolved solids (TDS),	231 ~ 310	<2000

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
		mg/L		
	(of SP Khal, and is used	Temperature, oC	28.5 ~ 29.2	20~30
	for crop irrigation and / or	Salinity, ppm	215 ~ 287	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.6 ~ 5.5	<6
		pH	6.7 ~ 6.9	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	386 ~ 466	400~1000
		Dissolved Oxygen, mg/L	4.2 ~ 4.8	4~6
		CaCo3(Hardness), mg/L	110 ~ 240	80~120
26. SP44095, Kalapania Subproject	Ground Water	Temperature, oC	26.0 ~ 27.0	20~30
Chittagong, Fatikchari	(from a tube-well of	pH	7.2 ~ 7.6	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	202 ~ 620	<2000
	(of SP Khal, and is used	Temperature, oC	26.7 ~ 28.0	20~30
	for crop irrigation and / or	Salinity, ppm	189 ~ 276	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.3 ~ 4.9	<6
		pH	7.1 ~ 7.7	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	225 ~ 600	400~1000
		Dissolved Oxygen, mg/L	4.7 ~ 5.1	4~6
		CaCo3(Hardness), mg/L	172 ~ 210	80~120
27. SP44107, Amail-Indail Subproject	Ground Water	Temperature, oC	26.0 ~ 30.0	20~30
Bogra, Adamdighi	(from a tube-well of	pH	6.8 ~ 7.2	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	297 ~ 357	<2000
	(of SP Khal, and is used	Temperature, oC	29.0 ~ 31.0	20~30
	for crop irrigation and / or	Salinity, ppm	159 ~ 176	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.0 ~ 5.0	<6
		pH	6.9 ~ 7.1	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	343 ~ 387	400~1000
		Dissolved Oxygen, mg/L	4.0 ~ 4.5	4~6
		CaCo3(Hardness), mg/L	135 ~ 159	80~120
28. SP44143, Hetalia-Ballabphur Subproject	Ground Water	Temperature, oC	23.0 ~ 25.5	20~30
Patuakhali, Sadar	(from a tube-well of	pH	6.9 ~ 7.3	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	178 ~ 282	<2000
	(of SP Khal, and is used	Temperature, oC	22.0 ~ 29.0	20~30
	for crop irrigation and / or	Salinity, ppm	144 ~ 310	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.5 ~ 5.4	<6
		pH	7.1 ~ 7.3	6.5 ~ 8.5
		Electrical Conductivity (EC), µs/cm	245 ~ 342	400~1000
		Dissolved Oxygen, mg/L	4.8 ~ 5.9	4~6
		CaCo3(Hardness), mg/L	90 ~ 110	80~120

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
29. SP45158, Bottola Khal Subproject	Ground Water	Temperature, oC	26.0 ~ 30.7	20~30
Jhalokathi, Nalcity	(from a tube-well of	pH	7.1 ~ 7.8	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	71 ~ 324	<2000
	(of SP Khal, and is used	Temperature, oC	25.7 ~ 28.7	20~30
	for crop irrigation and / or	Salinity, ppm	245 ~ 375	300~1000
	fisheries)	Phosphate (Ph4), mg/L	3.5 ~ 5.2	<6
		pH	6.9 ~ 7.3	6.5 ~ 8.5
		Electrical Conductivity (EC), μ s/cm	308 ~ 525	400~1000
		Dissolved Oxygen, mg/L	4.2 ~ 5.2	4~6
		CaCo3(Hardness), mg/L	115 ~ 150	80~120
30. SP45205, Napitkhali - Burirchar khal Subproject	Ground Water	Temperature, oC	28.5 ~ 29.0	20~30
Barguna, Sadar	(from a tube-well of	pH	7.6 ~ 8.1	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	136 ~ 300	<2000
	(of SP Khal, and is used	Temperature, oC	25.5 ~ 30.7	20~30
	for crop irrigation and / or	Salinity, ppm	197 ~ 280	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.7 ~ 5.3	<6
		pH	7.5 ~ 7.8	6.5 ~ 8.5
		Electrical Conductivity (EC), μ s/cm	185 ~ 265	400~1000
		Dissolved Oxygen, mg/L	4.0 ~ 4.5	4~6
		CaCo3(Hardness), mg/L	110 ~ 135	80~120
31. SP45173, Charadi Subproject	Ground Water	Temperature, oC	29.0 ~ 30.5	20~30
Barisal, Bakergonj	(from a tube-well of	pH	7.1 ~ 7.9	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	110 ~ 170	<2000
	(of SP Khal, and is used	Temperature, oC	29 ~ 30	20~30
	for crop irrigation and / or	Salinity, ppm	156 ~ 197	300~1000
	fisheries)	Phosphate (Ph4), mg/L	4.1 ~ 4.8	<6
		pH	7.6 ~ 7.8	6.5 ~ 8.5
		Electrical Conductivity (EC), μ s/cm	110 ~ 205	400~1000
		Dissolved Oxygen, mg/L	4.2 ~ 5.3	4~6
		CaCo3(Hardness), mg/L	120 ~ 135	80~120
32. SP45211, Uttampur Subproject	Ground Water	Temperature, oC	26.2 ~ 29.3	20~30
Barisal, Bakerganj	(from a tube-well of	pH	7.1 ~ 7.3	6.5 ~ 8.5
	SP Area, and is used for drinking / domestic	Nitrate, mg/L	<10 ~ <10	<10
	purpose)	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	131 ~ 170	<2000
	(of SP Khal, and is used	Temperature, oC	27.0 ~ 29.6	20~30

Subproject ID, Name & Location	Water Type	Parameter	Base / Observed Range	Environment Deptt. Standard
	<i>for crop irrigation and / or</i>	Salinity, ppm	125 ~ 150	300~1000
	<i>fisheries)</i>	Phosphate (Ph4), mg/L	4.2 ~ 4.8	<6
		pH	6.9 ~ 7.4	6.5 ~ 8.5
		Electrical Conductivity (EC), μ S/cm	147 ~ 302	400~1000
		Dissolved Oxygen, mg/L	4.5 ~ 4.7	4~6
		CaCo3(Hardness), mg/L	108 ~ 120	80~120
33. SP45145,Naimuri Alidha Subproject	Ground Water	Temperature, oC	24.3 ~ 27.4	20~30
Sirajganj, Tarash	<i>(from a tube-well of</i>	pH	7.1 ~ 7.3	6.5 ~ 8.5
	<i>SP Area, and is used for drinking / domestic</i>	Nitrate, mg/L	<10 ~ <10	<10
	<i>purpose)</i>	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	136 ~ 230	<2000
	<i>(of SP Khal, and is used</i>	Temperature, oC	26.0 ~ 28.0	20~30
	<i>for crop irrigation and / or</i>	Salinity, ppm	175 ~ 285	300~1000
	<i>fisheries)</i>	Phosphate (Ph4), mg/L	4.7 ~ 5.4	<6
		pH	7.1 ~ 7.5	6.5 ~ 8.5
		Electrical Conductivity (EC), μ S/cm	150 ~ 340	400~1000
		Dissolved Oxygen, mg/L	5.2 ~ 5.4	4~6
		CaCo3(Hardness), mg/L	108 ~ 110	80~120
34. SP46240,Amtoly-Ruhita-Potkakhali Subproject	Ground Water	Temperature, oC	30.7 ~ 30.9	20~30
Barguna, Bamna	<i>(from a tube-well of</i>	pH	7.6 ~ 7.9	6.5 ~ 8.5
	<i>SP Area, and is used for drinking / domestic</i>	Nitrate, mg/L	<10 ~ <10	<10
	<i>purpose)</i>	Arsenic, mg/L	< 0.01 ~ < 0 .01	0.050
	Surface Water	Total Dissolved solids (TDS), mg/L	165 ~ 210	<2000
	<i>(of SP Khal, and is used</i>	Temperature, oC	29.4 ~ 29.8	20~30
	<i>for crop irrigation and / or</i>	Salinity, ppm	117 ~ 187	300~1000
	<i>fisheries)</i>	Phosphate (Ph4), mg/L	4.5 ~ 5.1	<6
		pH	7.5 ~ 8.0	6.5 ~ 8.5
		Electrical Conductivity (EC), μ S/cm	205 ~ 310	400~1000
		Dissolved Oxygen, mg/L	4.2 ~ 4.6	4~6
		CaCo3(Hardness), mg/L	115 ~ 135	80~120

12. SOCIAL MONITORING & INDIGENOUS PEOPLE'S CATEGORIZATION REPORT

12.1 Background

The Participatory Small-scale Water Resources Sector Project (PSSWRSP) intends to reduce poverty through increase agricultural production in subproject areas through a sustainable stakeholder driven Small-scale Water Resources (SSWR) management system; and to internalize the participatory development processes through the strengthening of the Local Government Engineering Department's (LGED) Integrated Water Resources Management Unit (IWRMU) to plan, implement, monitor and support sustainable SSWR development. LGED is the Project Executing Agency (EA).

The Project builds on lessons from previous ADB, IFAD, Netherlands Government and the Government of Bangladesh investments in the small-scale (less than 1,000 hectares) water resources sector. Especially the Small-Scale Water Resources Development Sector Project (SSW 1) which was implemented from 1996 to 2002 and developed 280 subproject in the western part of Bangladesh; the Second Small-scale Water Resources Development Sector

Project (SSW 2) which commenced in 2002 and was completed in 2009 after developing 275 subproject in 61 of 64 districts of Bangladesh. SSW 3 is the Participatory Small Scale Water Resources Sector Project (PSSWRSP) or the Project and implementing 265 new subprojects and 148 performance enhancement subprojects selected from PSSW-1 & PSSW-2 subprojects.

12.2 Resettlement Framework, Legal Obligations of Loan Agreement

5. The Resettlement Framework (RF) is based on the national land acquisition and requisition laws (especially Acquisition and Requisition of Immovable Property Ordinance, 1982), the draft National Policy on Resettlement and Rehabilitation (NPRR), 2007 and ADB's Involuntary Resettlement policy (1995). In July 2009, ADB's Board of Director approved the New Safeguard Policy Statement (SPS) for the governance of the environments and social safe guard of ADB's operations. The SPS aims to avoid, minimize or mitigate harmful environmental impacts, social cost, and to help borrowers/clients strengthen their safeguard systems. The SPS's supersedes ADB's Involuntary Resettlement Policy (1995), Policy on Indigenous People (1998) and Environment Policy.
6. However, in accordance with the SPs, the previous policies apply to all projects that were reviewed by ADB management before 20 January 2010. As the loan agreement of the PSSWRSP was signed on 10 September 2009, the PSSWRSP will remain under the 1995 Involuntary Resettlement Policy and the 1998 policy on Indigenous Peoples.
7. The RF provides guidelines for the formulation of subproject Resettlement Plans under the Project and will apply to all subprojects to be prepared under the Project. The RF ensures that all Affected-Persons (APs) titled, or non-titled, will be eligible for appropriate compensation packages under the Project. The RF confirmed that, considering the high level of beneficiary participation in the project and relatively minor land acquisition at a few subprojects a negotiated settlement for land acquisition will be preferred option to the formal land acquisition processes.
8. Indigenous People (IPs) live in some district of Bangladesh. No major impacts on them are anticipated. Since at the time of project preparation the subprojects were not identified, the project was **Classified B**. At feasibility stage IP plans are investigated and prepared. If IPs are adversely affected by subprojects they are compensated according to the RF and ADB's policy on Indigenous People (1998). In addition to the RF, an Indigenous Peoples Development Framework (IPDF) was prepared for the PSSWRSP and ensure that IPs, if present in the subproject villages, are informed, consulted and mobilized to participate in subproject preparation.
9. The IPDF was intended to guide selection and preparation of additional subprojects under the project where impacts on IPs are identified to ensure better distribution of the Project benefits and to promote development for IPs found to be within the subproject areas. The ADB's policy on IP aims to protect ethnic minorities from the adverse impact of development, and ensure that ethnic minorities benefit from development projects. The need for an Indigenous Peoples Specific Plan (IPSAP) will be established on the basis of the criteria set out in the ADB's policy on IPs. The IPSAP will ensure that project affected IPs are at least as well off with the project as without it.
10. As there is limited number of IPs living in the districts under the Project, in most subprojects no IP communities are affected. Further, as the project procedures are designed to ensure the participation of all local stakeholders including IPs, and since the subprojects will improve the overall environment and agricultural production, no adverse impact on IPs is likely where they are found in subproject areas. If the impact on IP is determined to be insignificant, then specific actions in favor of the IPs will be integrated in Resettlement Plan developed for subprojects or a common Community Action Plan including IPs and non-IPs will be developed.

12.3 Resettlement Plan & Socio Economic Survey Reports

Preparation of Socio Economic Survey Reports (SESR), Resettlement Plans (RP) and Implementation and Compensation benefits to the PAP's has been done within 109 subprojects. The Socio-economic Survey Reports (SESR) is prepared on the basis of those subprojects where Resettlement Plan either for Land Acquisition or Compensation for project affected persons is not required. In subproject where LA and/or compensation are required, RP has been prepared on the basis of approved Resettlement Frame work. The Subprojects for which the RP's and SESR's have been prepared are summarized by batch in **Table-16**. Submission of SESR to the ADB is a pre-requisite at the start of construction. In total 109 subprojects have been taken over for social monitoring and evaluation.

In total Socio-economic Survey were completed at 109 SPs and Socio-economic Survey Reports (SESR) of 97 subprojects have been prepared as per format and submitted to the ADB for their record and 12 subprojects are applicable for Resettlement Plans. Accordingly Resettlement Plans on 12 subprojects have been prepared and implemented. All these subprojects are fully implemented and as per PAP's ID cards payment has been made, and preserve necessary document for future audit and inspection purpose.

Table-16: Detail of Socio-Economic Survey Report (SESR) and Resettlement Plans (RP)

SL No.	SP ID	District/ Upazila	Subproject Name	RP (Indicative)	Primary Milestones									RP Benefit Paid to PAPS	No. SES
					Feasibility Study/RP	Detailed Design	DMS/ Updating RP	Submission of LA Proposal to DC	Implement RP	ADB Submission Date	Compensation/Benefit or other comments				
Batch 1 2010 - 2011															
1	SP-41001 SSW-2	Dinajpur/ Sadar	Nimai Khari WC	No Impact	05 09 2007	31 12 2011	SES	NA	Mar-11	04.01.2011	SESR submitted to ADB.		7		
2	SP-41002 SSW-2	Joypurhat/ Khalai	PurbaSarail Madai WC	RP prepared	01 09 2007	31 12 2010	DMS/RP	NA	14.06.2011	RP24 04 2011/25 04 2011	Approved & compensation paid to 71 AP	358260	RP		
Batch 2 2011 - 2012														1	
4	SP-41003 SSW-2	Manikgonj/ Harirumpur	Baika-Barahapania	Less Impact	Dec-04	Jul-11	SES	NA	NA	23.08.2011	SESR submitted to ADB		10		
5	SP41004 SSW-2	Gaibanda/ Sadullapur	Chak Gobindapur-Aldadpur	Need RP	Dec-11	Dec-11	DMS/RP	NA	19 03 2012	RP 14 12 2011/ 09 01 2012	Approved & compensation paid to 61 AP.	502455	RP		
6	SP41005 SSW-2	Patuakhali/ Bauphal	Kanakdia	Need RP	25 06 2007	Jun-11	DMS/RP	NA	14 11 2012	RP 08 05 2012/ 18 05 2012	Approved & compensation paid to 17 AP.	1237608	RP		
7	SP41006 SSW-2	Lalmonirhat/Hatibandha	Bhelapari-Durgapur	Less Impact	May-09	Sep-11	SES	NA	NA	01 01 2012	SESR submitted to ADB		11		
8	SP41007 SSW-2	Chittagong/ Fatikchari	Harwalchari	Less impact	Jun-07	Sep-11	SES	NA	NA	12 01 2011	SESR submitted to ADB		7		
9	SP41008 SSW-2	Gazipur/ Sreepur	Goshinga-Sitalakha	Less impact	25 09 2007	Oct-11	SES	NA	NA	12 01 2011	SESR submitted to ADB		12		
10	SP41009	Manikganj/ Gheor	Kusta Thakurkandi	Less impact	Oct-11	Nov-11	SES	NA	NA	14 12 11	SESR submitted to ADB		9		
11	SP41010	Dhaka/ Dhamrai	Swarna Khali	RP prepared	Oct-11	Jan-12	RP	NA	28 04 2012	RP 04 03 12/ 19 03 2012	Appov. Comp paid to 37 PAP's	431681	RP		
12	SP41011 SSW-2	Rajshahi/ Puthia	Noapara-Hazirdhara	Less impact	July 2005	Sept 11	SES	NA	NA	18 10 11	SESR submitted to ADB		9		
13	SP42013	Chandpur/ Kachua	South-Gohat	Less Impact	Dec-11	Dec-11	SES	NA	NA	14 12 12	SESR submitted to ADB		11		
14	SP42014	Chandpur/ Kachua	Udura Khal	Less Impact	Dec-11	Dec-11	SES	NA	NA	14 12 12	SESR submitted to ADB		6		
15	SP42015	Chandpur/ Kachua	Sunduri Khal	Less Impact	Dec-11	Dec-11	SES	NA	NA	06 12 12	SESR submitted to ADB		10		
16	SP42016	Barguna/ Betagi	Gabua Fultala	Less Impact	03 05 2012	Nov-11	SES	NA	NA	28 02 12	SESR submitted to ADB		10		
17	SP42017	Meherpur/ Gangni	Nabinpur-Dholar Beel	Less impact	Oct-11	Nov-11	SES	NA	NA	15 01 12	SESR submitted to ADB		8		
18	SP42018	Meherpur/ Mujibnagar	Kata Khal	RP prepared	Aug-11	Feb-12	DMS/SES	NA	09.05.2012	RP 06 03 2012/ 19 03 2012	Comp. paid to 20 PAP's	166319	RP		
19	SP42020	Sirajgonj/ Tarash	Ulushikhal	Less impact	Jan-12	Feb-12	SES	NA	NA	28 02 12	SESR submitted to ADB		8		
20	SP42021	Cox's Bazar/ Chokoria	Fasiakhali	Less impact	Jan-12	Feb-12	SES	NA	NA	15 03 12	SESR submitted to ADB		10		
21	SP42022	Pirojpur/ Mathbaria	Sapleza DR-1	Less impact	Aug-12	Sep-12	SES	NA	NA	15 10 12	SESR submitted to ADB		9		
Batch 3 2012 - 2013														4	
22	SP42023	Pirojpur/ Nesarabad	Jalabaria DR-1	Less impact	Aug-12	Sept 2012	SES	NA	NA	15 10 12	SESR submitted to ADB		9		

SL No.	SP ID	District/ Upazila	Subproject Name	RP (Indicative)	Primary Milestones								
					Feasibility Study/RP	Detailed Design	DMS/ Updating RP	Submission of LA Proposal to DC	Implement RP	ADB Submission Date	Compensation/Benefit or other comments	RP Benefit Paid to PAPS	No. SES
23	SP42024	Barguna/ Sadar	Nishanbaria Gazi Mahamud	Less impact	15 02 2012	Mar-12	SES	NA	NA	29 03 12	SESR submitted to ADB		10
24	SP42025	Naogaon/ Raninagar	Kujail-Raktodoha	Less impact	Apr-12	Apr-12	SES	NA	NA	21 05 12	SESR submitted to ADB		20
25	SP42026	Naogaon/Atrai	Ratandhara	Less impact	Apr-12	Apr-12	SES	NA	NA	21 05 12	SESR submitted to ADB		20
26	SP42027	Pabna/ Sujanagar	Nuruddin Khal	Less impact	Jun-12	Aug-12	SES	NA	NA	15 10 12	SESR submitted to ADB		7
27	SP43028	Pabna/ Atghoria	Sabdanga	Less impact	Oct-11	June 12	SES	NA	NA	31 10 12	SESR submitted to ADB		10
28	SP43029	Barguna/ Sadar	Burirchar-Nur-Ali Charaggachia	RP prepared	08 05 2012	Feb 2012	SES	NA	12.03.2013	RP 03 12 12 30 12 2012	As approved, compensation paid to all 112 affected persons.	204975	RP
29	SP43030	Barguna/ Sadar	Ayalapatakata	Less impact	07 05 2012	May-12	SES	NA	NA	05 08 12	SESR submitted to ADB		1
30	SP43031	Naogaon/ Niamotpur	Belgour-Julupara	Less Impact	Apr-12	Apr-12	SES		NA	23 05 12	SESR submitted to ADB		30
31	SP43032	Naogaon/ Atrai	Chalk Te-muk Islamgati	Less impact	04 03 2012	Feb 12	SES	NA	NA	15 03 12	SESR submitted to ADB		21
32	SP43033	Naogaon/ Niamotpur	Santoshpara-Chatra	RP prepared	Jun-12	Jul-12	SES	NA	21.05.2013	RP 03 12 12 16 05 2013	Comp. paid to all 484 PAP's	1420719	RP
33	SP43034	Barguna/ Sadar	Potkakhali	Less impact	27 02 2012	Mar-12	SES	NA	NA	29 03 12	SESR submitted to ADB		10
34	SP43035	Gaibandha/ Gobindaganj	Goalkandi-Daturbari	Less impact	May-12	Jun-12	SES	NA	NA	20 07 12	SESR submitted to ADB		8
35	SP43036	Sirajganj/ Tarash	Badrabati Khal (South)	Less impact	Jun-12	Aug-12	SES	NA	NA	15 10 12	SESR submitted to ADB		10
36	SP43037	Sirajganj/ Tarash	Badrabati Khal (North)	Less impact	May-12	Aug-12	SES	NA	NA	15 10 12	SESR submitted to ADB		10
37	SP43038	Brahmanbaria/Sadar	Shilaur-Dogangy	Less impact	Aug-12	Aug 2012	SES	NA	NA	13 09 12	SESR submitted to ADB		10
38	SP43039	Chapai-Nawabganj/ Sadar	Ghughudima-Khutbatala	Less impact	Apr-12	May 2012	SES	NA	NA	11 07 12	SESR submitted to ADB		10
39	SP43040	Barguna/ Amtoly	Shingkhali	Less impact	02 02 2012	July 2012	SES	NA	NA	13 08 12	SESR submitted to ADB		12
40	SP43041	Barguna /Sadar	Sonbunia	RP prepared	06 08 2012	8/7/2012	SES	NA	12 03 2013	RP 03 12 12 30 12 2013	Approved & compensation paid to 55 AP.	278100	RP
41	SP43042	Naogaon/ Atrai	Old Atrai-Buriganj	Less impact	Jul-12	Sep 2012	SES	NA	NA	13 09 12	SESR submitted to ADB		15
42	SP43043	Barisal/ Bakerganj	Dehergati	Less impact	Jun-12	Aug-12	SES	NA	NA	15 10 12	SESR submitted to ADB		10
43	SP43044	Barguna/ Amtoly	Garabunia	Less impact	Jun-12	Jul-12	SES	NA	NA	05 08 12	SESR submitted to ADB		10
44	SP43045	Cox's Bazar/Sadar	Pokkhalil-Naikongdia	Less impact	Mar-12	Apr-12	SES	NA	NA	17 04 12	SESR submitted to ADB		9
45	SP43046	Cox's Bazar/Ukhia	Thimchari-Purbakul	Less impact	Apr-12	Sep 12	SES	NA	NA	03 12 12	SESR submitted to ADB		7
46	SP43047	Cox's Bazar/Ukhia	Pashchim Dighulia	Less Impact	Apr-12	Sep-12	SES	NA	NA	07 11 12	SESR submitted to ADB		6
47	SP43048	Barguna/ Betagi	Deshantarkathi Gouribunia	Less impact	May-12	Jun-12	SES	NA	NA	05 08 12	SESR submitted to ADB		10
48	SP43049	Barisal/ Bakerganj	Kafila-Krisnanagar	Less impact	Feb-12	Mar 12	SES	NA	NA	11 04 12	SESR submitted to ADB		11
49	SP43050	Patuakhali/ Bauphal	Madhye Purba Rajapur	Less impact	05 08 2012	Aug-12	SES	NA	NA	03 12 12	SESR submitted to ADB		12
50	SP43051	Cox's Bazar/Ramu	Monirjheel Sonaichari	Less impact	June 12	Sep-12	SES	NA	NA	07 11 12	SESR submitted to ADB		6
51	SP43054	Gaibandha/ Sadar & Shaghata	Mofijan	Less Impact	April 12	Jul-12	SES	NA	NA	13 09 12	SESR submitted to ADB		8
52	SP43055	Gaibandha/ Saghata	Doldholia	Less impact	Jan-12	Aug-12	SES	NA	NA	28 02 12	SESR submitted to ADB		5

SL No.	SP ID	District/ Upazila	Subproject Name	RP (Indicative)	Primary Milestones									RP Benefit Paid to PAPS	No. SES
					Feasibility Study/RP	Detailed Design	DMS/ Updating RP	Submission of LA Proposal to DC	Implement RP	ADB Submission Date	Compensation/Benefit or other comments				
53	SP43056	Comilla/ Chandina	Latifpur -Etbarpur	Less impact	Dec-12	Dec 2012	SES	NA	NA	01 01 13	SESR submitted to ADB		8		
54	SP43057	Patuakhali/ Bauphal	Adabaria	RP prepared	02 10 2012	15 11 2012	SES	NA	24.07.1013	11 04 2013 01 05 2013	Approved& Compensation paid to PAP	671180	RP		
55	SP43058	Patuakhali/ Bauphal	Sabupura	Less impact	Sep-12	Oct-12	SES	NA	NA	04 03 13	SESR submitted to ADB		12		
56	SP43059	Comilla/ Chandina	Gobindapur Etbarpur	Less impact	Oct 12	Dec-12	SES	NA	NA	01 01 13	SESR submitted to ADB		8		
57	SP43060	Patuakhali/ Bauphal	Ponahura	Less impact	Aug-12	Oct-12	SES	NA	NA	06 06 12	SESR Submitted to ADB		12		
58	SP43061	Sirajganj/ Ullahpara	Bhagalpur Montola	Less impact	01 07 2007	Aug-12	SES	NA	NA	31 07 13	SESR Submitted to ADB		5		
59	SP43062	Pirojpur/ Bhandaria	Gouripur	RP prepared	Oct 12	Dec-12	SES	NA	08.03.2015	24.04.2014 08.05.2014	As approved, Compensation paid to all 142 PAP's	986600	RP		
60	SP43063	Jessore/ Bagherpara	Kothurakandi khal	RP prepared	02 12 2012	Feb 2013	SES	NA	26.06.2013	09 09 2013 16 05 2013	Approved & Compensation paid to 28 PAP's	232900	RP		
61	SP43064	Bagerhat/ Sadar	Dier Khal	Less impact	Feb-13	Apr-13	SES	NA	NA	23 10 13	SESR submitted to ADB		10		
62	SP43065	Laxmipur / Sadar	Bhangakha	Less impact	Nov-12	Dec-12	SES	NA	NA	04.02.15	SESR Submitted to ADB		10		
63	SP43066	Bhola/Sadar	Bhelumia	Less impact	Mar-13	Apr-13	SES	NA	NA	04 04 13	SESR Submitted to ADB		10		
64	SP43067	Bhola/ Charfassion	Purba Char Madras	Less impact	Mar 13	Apr-13	SES	NA	NA	21 03 13	SESR Submitted to ADB		10		
65	SP43068	Bhola/ Charfassion	Paschim Char Madras	Less impact	Mar 13	Apr-13	SES	NA	NA	21 03 13	SESR Submitted to ADB		10		
66	SP43069	Bhola/ Sadar	Char Samaia	Less impact	Mar 13	Apr-13	SES	NA	NA	24 04 13	SESR Submitted to ADB		10		
67	SP43070	Jhalokathi/ Nalcity	Panchagram	Less impact	Jan-13	Mar-13	SES	NA	NA	14 05 2014	SESR Submitted to ADB		7		
68	SP43071	Rangpur/ Mithapukur	Bokrabari	RP prepared	Feb 13	Mar-13	SES	NA	25 02 2014	14 11 13 20 12 13	Approved & compensation paid to 54 PAPs	568625	RP		
69	SP43072	Bagerhat/ Morelganj	Pathuria Kalibari	Less impact	Dec-12	Feb-13	SES	NA	NA	23 10 13	SESR submitted to ADB		10		
Batch 4 2013 - 2014														7	
70	SP44074	Jessore/ Chawgacha	Swarupdha Dhunar Khal	Less impact	28 02 2013	08 06 2013	SES	NA	NA	16 03 14	SESR submitted to ADB		10		
71	SP43075	Barisal/ Bakerganj	Losnabad	Less impact	22 06 2013	23 04 2013	SES	NA	NA	04 09 13	SESR submitted to ADB		12		
72	SP44077	Jhalokathi/ Sadar	Saorakathi	Less impact	02 02 2013	04 03 2013	SES	NA	NA	05 12 13	SESR submitted to ADB		6		
73	SP44078	Bogra/ Sherpur	Dhankundi Napitbari	Less impact	20 10 2012	30 10 2013	SES	NA	NA	04 04 13	SESR submitted to ADB		4		
74	SP44080	Jhalokathi/ Rajapur	Challish Kahania	Less impact	10 05 2013	26 05 2013	SES	NA	NA	05 12 13	SESR submitted to ADB		6		
75	SP44081	Barisal /Babuganj	Thakur Mallik	Less impact	02 07 2013	05 09 2013	SES	NA	NA	04 09 13	SESR submitted to ADB		12		
76	SP44083	Jhalokathi/ Kathalia	Amua Patikhal Ghata	Less impact	20 06 2013	05 09 2013	SES	NA	NA	08 05 2014	SESR submitted to ADB		8		
11	SP44084	Jhenaidah/ Harinakunda	Sitly	Less impact	31 07 2013	05 09 2013	SES	NA	NA	23 10 13	SESR submitted to ADB		8		
77	SP44092	Rangpur/ Mithapukur	Faridpur Badurer Jan	Less impact	10 03 2013	22 08 2013	SES	NA	NA	31 03 14	SESR submitted to ADB		7		
78	SP44093	Chittagong/ Mirsarai	Paschim Joara	Less impact	05 02 2013	18 08 2013	SES	NA	NA	31 07 13	SESR submitted to ADB		10		
79	SP44094	Joypurhat/ Akkelpur	Sree Khal	Less impact	04 12 2013	04 12 2013	SES	NA	NA	27 01 14	SESR submitted to ADB		9		
80	SP44095	Chittagong/ Fatikchari	Kalapania Khal	Less impact	18 09 2013		SES	NA	NA	07 11 13	SESR submitted to ADB		10		
81	SP44097	Barisal/ Bakergonj	Dudhal	Less impact	17 11 2013	17 11 2013	SES	NA	NA	11 12 13	SESR submitted to ADB		8		
82	SP440101	Meherpur/ Sadar	Bondhuk khali	Less impact	13 11 2013	13 11 2013	SES	NA	NA	23 10 13	SESR submitted to ADB		10		

SL No.	SP ID	District/ Upazila	Subproject Name	RP (Indicative)	Primary Milestones								
					Feasibility Study/RP	Detailed Design	DMS/ Updating RP	Submission of LA Proposal to DC	Implement RP	ADB Submission Date	Compensation/Benefit or other comments	RP Benefit Paid to PAPS	No. SES
83	SP44103	Barguna/ Amtali	Gotkhali Chalitabunia	Less impact	04 12 2013	04 12 2013	SES	NA	NA	11 05 14	SESR submitted to ADB		9
84	SP44104	Jhalokathi/ Sadar	Sarengal	Less impact	02 01 2014	31 01 2012	SES	NA	NA	27 01 14	SESR submitted to ADB		6
85	SP44106	Jhalokathi/ Sadar	Sachilapur	Less impact	16 10 201	09 01 2014	SES	NA	NA	27 01 14	SESR submitted to ADB		7
86	SP44107		Amail Indail	Less impact	22 09 2013	07 01 2014	SES	NA	NA	31 03 14	SESR submitted to ADB		4
87	SP44111	Barisal/Sadar	Kashipur	Less impact	27 10 2013	13 01 2014	SES	NA	NA	05 05 15	SESR submitted to ADB		12
88	SP44112	Meherpur/ Sadar	Harirampur Beel	Less impact	15 06 2013	29 01 2014	SES	NA	NA	23 10 13	SESR submitted to ADB		10
89	SP44113	Gaibandha/ Gobindaganj	Jhirai Bridge-Jangalpara Khal	Less impact	24 10 2013	18 02 2014	SES	NA	NA	31.03.2014	SESR submitted to ADB		9
90	SP44117	Jhalokathi/ Sadar	Deulkathi-Binnapara	Less impact	20 10 2013	Feb-14	SES	NA	NA	24 08 2014	SESR submitted to ADB		6
91	SP44119	Noakhali/ Begumganj	Bangla Bazar-Gopalpur	Less impact	15 06 2013	12 03 2014	SES	NA	NA	09 11 2014	SESR submitted to ADB		8
92	SP44125	Barisal/ Banaripara	Chakhar	Less impact	20 03 2014	Mar-14	SES	NA	NA	27.01.2015	SESR submitted to ADB		20
93	SP44127	Jhalokathi/ Sadar	Haripasha-Pironda	Less impact	20 07 2013	19 05 2014	SES	NA	NA	17.02.2015	SESR submitted to ADB		6
94	SP44130	Gaibandha/ Gobindaganj	Purandar Bhushan Chandrer Bari-Sarbeswar Ghat	Less impact	12 12 2013	04 05 2014	SES	NA	NA	15.07.2014	SESR submitted to ADB		15
95	SP44131	Pirojpur/ Nesarabad	Guarekha	Less impact	30 10 2013	26 05 2014	SES	NA	NA	12.02.2015	SESR submitted to ADB		10
96	SP44135	Narail/ Kalia	Debdun Bauisona Khal	Less impact	10 05 2014	29 06 2014	SES	NA	NA	12.11.2015	SESR submitted to ADB		9
97	SP44136	Barisal/ Mehendiganj	Paschim Chhayam Takta	Less impact	04 05 2014	03 07 2014	SES	NA	NA	29.01.15	SESR submitted to ADB		10
98	SP44143	Patuakhali/ Sadar	Hetalia-Ballabhpur	Less impact	10 05 2014	02 09 2014	SES	NA	NA	31.03.2015	SESR Submitted to ADB		10
Batch 5 2014 - 2015													0
99	SP45145	Sirajganj/ Ullapara	Naimuri Alidaha	Less impact	30 10 2013	20 09 2014	SES	NA	NA	05 05 2015	SESR submitted to ADB		8
100	SP45148	Jhalokathi/ Nalcity	Bottola Khal SP	Less impact	16 02 2014	02 10 2014	SES	NA	NA	18.02.2016	SESR submitted to ADB		7
101	SP45150	Barisal/ Babuganj	Chandpasha	Less impact	15 02 2014	01 10 2014	SES	NA	NA	29 06 2015	SESR submitted to ADB		9
102	SP45152	Barisal/ Mehendiganj	Biddanandapur	Less impact	25 09 2013	28 10 2014	SES	NA	NA	02 02 2015	SESR submitted to ADB		10
103	SP45157	Natore/ Boraigram	Satail Beel	Less impact	10 10 2014	20 11 2014	SES	NA	NA	30.03.2015	SESR submitted to ADB		12
104	45168	Pirojpur/ Mathbaria	Chalitabunia	Less impact	19 06 2014	29 12 2014	SES	NA	NA	29.03.2015	SESR submitted to ADB		6
105	45173	Barisal/ Bakerganj	Charadi	Less impact	15 07 2014	31 12 2014	SES	NA	NA	13 09 2015	SESR submitted to ADB		16
106	45180	Bagerhat/Kachua & Sadar	Tengrakhali Char	Less impact	Oct-14	01.11.2014	SES	NA	NA	12.11.2015	SESR submitted to ADB		9
107	45205	Barguna/Sadar	Napitkhali-Burichar Khal	Less impact	May-15	May-15	SES	NA	NA	05.05.2016	SESR submitted ADB		10
108	45211	Barisal/Bakerganj	Uttampur	Less impact	Feb-15	May-15	SES	NA	NA	15.03.2016	SESR submitted to ADB		10
Batch 6 2015 - 2016													0
109	46240	Barguna/ Bamna	Amtoly-Ruhita-Potkakhali	Less impact	15-Apr	15-Oct	SES	NA	NA	16.05.1016	SESR submitted to ADB		10

Batch	No. of SP	Data Collection Target	Planned Resettlement Target	RP Assigned	Resettlement Plan				SESR		RP Benefits	
					Approved by ADB	Implemented	Under Process	Under Preparation	Submitted	Required	Affected Person	Amount
Batch 1: 2010-2011	2	2	1	1	1	1	0	0	1	0	71	358260
Batch 2: 2011-2012	18	18	4	4	4	4	0	0	14	0	135	2338063
Batch 3: 2012-2013	48	48	7	7	7	7	0	0	41	0	921	4503359
Batch 4: 2013-2014	30	30	0	0	0	0	0	0	30	0	0	0
Batch 5: 2014-2015	10	10	0	0	0	0	0	0	10	0	0	0
Batch 6: 2015-2016	1	1	0	0	0	0	0	0	1	0	0	0
	109	109	12	12	12	12	0	0	97	0	1127	7199682

Table-17: List of Subprojects for which Resettlement Plans implemented and compensation paid to PAP

SL NO	SP ID NO	District/Upazila	Name of SP	Project Affected Person (no.)			Amount Paid
				Male	Female	Total	
1	SP-41002	Joypurhat/Khalai	Purba Sarail Madhai WC	63	8	71	358260
2	SP-41004	Gaibanda/Sadullapur	Chak Gobindapur-Aldadpur	58	3	61	502455
3	SP-41005	Patuakhali/Bauphal	Kanakdia	16	1	17	1237608
4	SP-41010	Dhaka/Dhamrai	Swarna Khali	37	0	37	431681
5	SP-42018	Meherpur/Mujibnagar	Kata Khal	20	0	20	166319
6	SP-43029	Barguna/Sadar	Burirchar-Nur-Ali Charaggachia	104	8	112	225135
7	SP-43033	Naogaon/Niamotpur	Santoshpara-Chatra	476	8	484	1517519
8	SP-43041	Barguna/Sadar	Sonbunia	52	3	55	288000
9	SP-43057	Patuakhali/Bauphal	Adabaria	42	4	46	679780
10	SP-43062	Pirojpur/Bhandaria	Gouripur	130	12	142	986600
11	SP-43063	Jessore/Bagherpara	Kothurakandi Khal	28	0	28	237700
12	SP-43071	Rangpur/Mithapukur	Bokrabari	54	0	54	568625
			Total	1080	47	1127	7199682

12.4 Implementation of RP and distribution of Resettlement Benefit to AP

Out of 109 SPs 12 subprojects assigned for preparation of Resettlement Plans and implementation. During implementation in total 1127 affected persons have been identified and an amount of Tk.70, 59,422.00 as compensation benefits has been paid to the PAP's. Detailed information on this is summarized in the **Table 16 & 17**. No land acquisition was required within the 109 subprojects under EME Report.

13. CASE STUDIES

Case studies (success women)

Case studies and best practices have been developed and disseminated through training and published in quarterly progress reports also IWRM/LGED newsletters as well as donors' websites. There were several stages to give awards to the identified successful women of WMCA who has to be selected through a selection committee of LGED. They are also treated as "Role Model" and brought to other WMCAs to share their experiences among other members to encourage them. A total of 36 successful case studies collected and written while 26 (Twenty six) successful and self-reliant women members of WMCA of various districts, received award on the occasion of International Women's Day, started from the year 2011; One of them even attended in an abroad study tour with LGED cost. A case study here set as an example:

Hard working woman Kamrun Nahar is successful in her life

A hard working woman Mrs. Kamrun Nahar lives in Khamarpara village of Chowphaldandi, Sadar Upazila of Cox's Bazar district. She is a poor woman and lost her husband in 2011 who died for Liver-Cancer. She lost all her assets and savings for her husband's treatment, so when he died she had nothing even not a handful of rice to eat. Two sons and one daughter all are school going children. Her father was also a patient of brain-stroke and she had no other siblings so she did not get any help from parents rather she had to take responsibility of her parent's family. I was like a blind; do not know how to earn money and how to provide food to the children and parents as no earning member in the family.



Kamrun Nahar is working in her own to make Shutki (dry fish)

After long struggling, I got a job as assistant teacher of a non-government primary Madrasha but the remuneration was very poor so I took a small amount of loan from a known person and started dry-fish business but it was not enough for the family expenditure. At that time I heard about Pokkhali-Naikkhongdia-Chawphaldandi WMCA and I went there then became a member. I received various training including Gender awareness, role of women in decision making process, IGA for livelihood development etc. which gave me courage and confidence so I got a way to forward and started a business of processing of dry-fish to make shut-in and nuffi that is popular food in Cox's Bazar and surrounding area. I took loan from WMCA several times and increased the business. I have recruited some families to work with me for drying and processing fish so we all are doing hard work and earning money for our families. From 2013 I extended my business when I took 1,50,000 Taka loan from WMCA to start processing and marketing of the dry-fish and nuffi, our product is well accepted to the local markets and Cox's Bazar and now I have 10 workers (male& female both) to work with me. I have face lots of social problems as I am a woman and doing work like a man but I did not care because I know I have to do work for my children and for my parents who are vulnerable as children and old age, I am the only one who can help them. Now I have overcome those problems and same people used to say good things about me which I have earned by struggle with poverty.

I am happy that now I can send my children to the school, provide proper treatment to my father and have regular meal for all 6-members of family. I also help other members of the WMCA to start similar business and visit other WMCA or women groups to share my struggles and success story to encourage them.

I have been invited last year by Dhaka University's Gender and Studies Department to make a speech in the seminar organized on International Women's Day 8th March 2016. I think that is my achievement

Harwalchhari Subproject:

Rejuvenated the Moribund Water Management system of the Area

Harwalchhari khal Subproject (SP - 41007) has been implemented in Fatikchhari Upazila, Chittagang under Participatory Small Scale Water Resources Sector Project of LGED in the year 2012-13. In order to conserve stream water in Harwalchhari khal, a Rubber Dam, connecting bridge, pump house and O&M shed have been constructed in the subproject. Earlier, there was an age-long agricultural practice in the area when local people mobilized fund to construct an earthen cross dam in the Harwalchhari Khal and exploit water for irrigating about 100 ha. land during winter but doing so they faced manifold problems. Generating fund every year for constructing earthen dam was not very easy. Furthermore, washing out the cross dam in flush flood in the midst of irrigation season damaged the crops for that particular season. The problems consequently made the local people discouraged in such a way that they gradually lost interest in cultivating Boro crop in the area. In such a situation the local people came to know the name of LGED's Participatory Small Scale Water Resources Sector Project that implements schemes which might suit their need.

The local people then approached to the Upazila Engineer, Fatikchhari and became aware of the participatory implementation process of the Project that required involvement of the local people in all the stages of the subproject development. They made up their mind to fulfill some preconditions to get the subproject implemented. Among the preconditions involved are formation and registration of a Cooperative Association covering a minimum of 70% from direct and indirect beneficiary household in its membership; collection of upfront O&M contribution from the beneficiary farmers; formation of capital of the cooperative society; shouldering responsibilities of post-project operation, maintenance and management of the subproject with their cooperative effort and collective fund etc.

As indication of their intention to get LGED to implement the subproject, a Cooperative society was formed and registered as Harwalchhari Khal Water Management Cooperative Association (WMCA) Ltd. involving the local beneficiaries. The WMCA members have enrolled more than 1 thousand members in the WMCA, collected from them and deposited .9 Million taka as upfront O&M contribution against the investment cost of Tk. 74.3 million taka for the Rubber Dam. They also generated a capital fund of nearly 4 million taka from the members' share and savings effort. The technical activities, such as PRA, Feasibility Study and Detailed Design the institutional activities went on in parallel. However, alongside construction of the Rubber Dam the WMCA leaders concentrated on the livelihood improvement of the poor members of WMCA. The WMCA launched micro finance program with the capital fund it generated and provided a revolving credit support of 10.7 million taka cumulative fund to about 900 poor male and destitute female members of it. The borrowers have been engaged in different income generating activities like poultry rearing and duck raising, livestock rearing, beef fattening, fish culture, agriculture and many others in order to uplift their livelihood status.

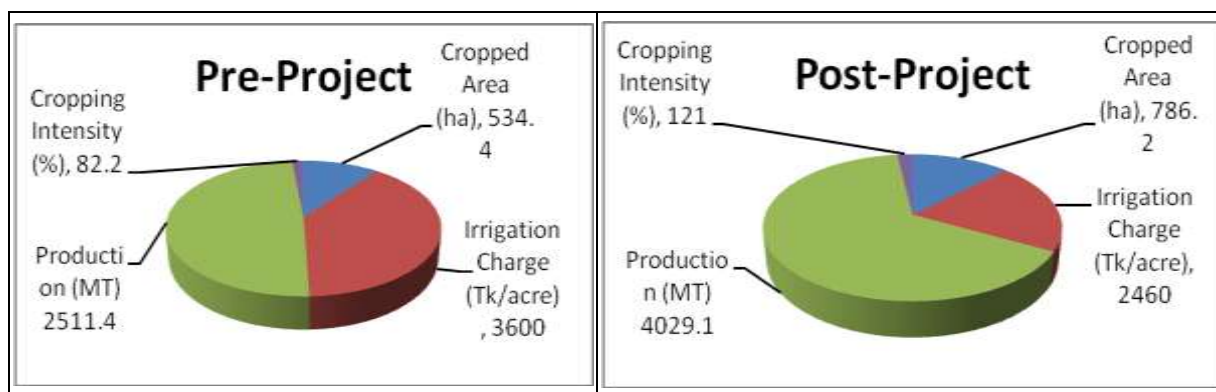


Members of Harwalchhari WMCA Ltd. are seen depositing their savings in the office (left); The 30-meter long Harwalchhari Rubber Dam, Fatikchhari, Chittagang (right).

Meanwhile, after completion of the 30-meter long Rubber Dam construction, the users' right of the subproject infrastructure has been handed over to the beneficiary organization, the Harwalchhari Khal Water Management Cooperative Association (WMCA) Ltd. through a lease agreement. The WMCA, after shouldering the responsibility of operation and maintenance of it, has been enthusiastically involved in the distribution and conveyance of irrigation water, conserved by the Rubber Dam, to the irrigation blocks of the subproject area. This is the third year the Rubber Dam is under operation. The construction of Rubber Dam has entirely eliminated the uncertainty of fund mobilization and stability matters concerned with the earthen cross dams. A significant improvement has been recorded in the increase in cropped area, production and cropping intensity and reduction in irrigation charges in recent years. A comparative picture in the pre and post project situation of Harwalchhari Subproject is presented below:

Pre-Project and Post-Project condition of the Subproject

SI #	Pre-Project condition	Post-Project condition
a.	Total Cropped Area: 534.4 ha Cereal – 528.7 ha; Non Cereal – 5.7 ha	Total Cropped Area: 786.2 ha. (Increased by 47.11%) Cereal – 751.0 ha; (Increased by 42%) Non Cereal – 35.2 ha (Increased by 517%)
b.	Production: 2511.4 (MT) Cereal 2471.7 ton; Non Cereal 39.7 ton; (Approx.)	Production Increased: 4029.1 (MT) (Increased by 60.4%) Cereal 3,653.9 ton; (Increased by 47.8%) Non Cereal – 375.2 ton; (Increased by 845%)
c.	Irrigation Charges/Acre: BDT 2000	Irrigation Charge Reduced: BDT 1,250 (Reduced by 37.5%)
d.	Cropping Intensity: 82.2%	Cropping Intensity: 121.0% (Increased by 38.8%)



The moribund winter irrigation has been invigorated after construction of the Rubber Dam. The WMCA leaders are quite stimulated to effectively carry out water management efficiently in the area encompassing it. Alongside, capacity development initiative of the WMCA leaders and different subcommittee members is under way with a view to develop them in a way that they can be as self-reliant as competent to carry out institutional, agricultural and operation and maintenance activities on their own. Meanwhile, they have been trained in BARD to prepare their poverty reduction plan, provided different training on institution development, agriculture, fisheries, gender and development and O&M aspects. Through these trainings a very useful linkage between the WMCA members and the Upazila and district level Government line agencies has been developed. The WMCA receives expected support services from the offices of the line agencies.

Implementation of Harwalchhari Rubber dam has brought about a massive social and agro-ecological transformation in the subproject area. The WMCA steadfastly involved people of the subproject area in their livelihood improvement and agricultural movement in the area that was quite lacking before construction of the Rubber Dam. Boro and vegetable cultivation in winter by the irrigated water conserved by Rubber Dam has enhanced agricultural yield as well as played a very significant role in the environmental up-scaling in the surrounding area. Due to conserving water in the Harwalchhari khal by the Rubber Dam, substantial extent of greenery delights in the area which has only been possible because of substantial ground water recharge made by the conserved water in the khal. The noteworthy affluence of aquatic flora and fauna in the conserved water of the khal has enriched the water quality leaving it usable to the families adjacent to the khal. Seasonal fish culture in the khal provides the surrounding people with necessary fish protein. Agricultural uprising particularly in the Rabi season, when previously there was no job opportunity in the area, has now built up a sense of rejuvenation among them as they can work in their land for growing food. Their food security has now been achieved with the efficient water governance by the WMCA leaders.

Currently, the WMCA leaders have taken initiative to move forward with the Poverty Reduction plan of the WMCA. The benefit of the Rubber Dam construction is not only confined to the extension of irrigated area, the incremental increase in crop production and employment opportunities of the local landless poor are the follow-through benefit, the local people confirmed. The micro finance, on the other hand, contributes to livelihood improvement of the poor members for which land ownership and poverty indicators have started changing in a positive way. The efficient leadership of Harwalchhari WMCA Ltd, has set a two-fold goal ahead to achieve, that is to contribute to the agricultural development to achieve food security through efficient water management and successful water governance in the subproject area as well as to play a guiding role to assist the poor members of the WMCA to uplift their livelihood above the poverty line. The people of the area don't have a least bit hesitation to be grateful to LGED for the support they have been providing for the socio-economic development of the area.

APPENDIX A

Table A.1: Sub-project Location, Type, Area (ha) and Construction Cost (BDT/US \$) OK

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Structure Cost (BDT)		LCS Cost (BDT)		LCS Groups	Total Cost (BDT)		Contract Amount	
						Engineer's Estimate	Contract Amount	Engineer's Estimate	Contract Amount		Engineer's Estimate	Contract Amount	Unit Cost (BDT/ha)	Unit Cost (US\$/ha)
1	2	3	4	5	6	7	8	10	11	12	13	14	15	16
1	41001	Nimai Khari Khal	WCD	Dinajpur/ Sadar	850	12956917	15,489,384	3514707	3,514,707	12	16471624.00	19,004,091	22,358	286.64
2	41002	Purba Sarail Madhai Khal	WCD	Joypurhat/ Kalai	732	9973530	11,416,804	3989771	3,989,771	10	13963301.00	15,406,575	21,047	269.84
3	41003	Baika-Barahapania	FMD	Manikganj/ Harirampur	590	11241319	9,075,638	3106392	3106392	7	14347711.00	12,182,030	20,648	264.71
4	41004	Chak Govindapur-Aldadpur	WCD	Gaibandha/ Sadullapur	470	5169620	5,563,742	718823	718,823	2	5888443.00	6,282,565	13,367	171.37
5	41005	Kanakdia FMD	FMD	Patuakhali/ Bauphal	730	24974502	29536526	15870473	15,870,473	27	40844975.00	45,406,999	62,201	797.45
6	41006	Bhelabari Durgapur	WC (RD)	Lalmonirhat/ Aditmari	893	40893372	40,475,104				40893371.72	40,475,104	45,325	581.09
7	41007	Harwalchari	WC (RD)	Chittagong/ Fatikchhari	650	59759860	74,319,552				59759860.00	74,319,552	114,338	1465.87
8	41008	Goshinga-Sitalakha	CAD	Gazipur/ Sreepur	600	63589415	71,115,798				63589414.66	71,115,798	118,526	1519.57
9	41009	Kusta Thakurkandi FMD	FMD	Manikganj/ Gheor	340	6270143	6,575,460	2566974	2,566,974	8	8837117.00	9,142,434	26,890	344.74
10	41010	Swarnakhali Khal	FMD	Dhaka/ Dhamrai	370	8256626.1	10,437,714	1689258	1,689,258	7	9945884.12	12,126,972	32,776	420.20
11	41011	Noapara-Hazirdhara	WCD	Rajshahi/ Puthia	682	11537224	12,091,760	1229666	1,229,666	3	12766890.00	13,321,426	19,533	250.42
12	42013	South-Gohat	CAD	Chandpur/ Kachua	936	8196053	9396338	6024185	5613314	12	14220238.00	15,009,652	16,036	205.59
13	42014	Udura Khal	CAD	Chandpur/ Kachua	997	12740586	14572034	7039472	6815600	14	19780058.00	21,387,634	21,452	275.03
14	42015	Sunduri Khal	CAD	Chandpur/ Kachua	983	9956939	7500404	8828800	8828800	15	18785739.00	16,329,204	16,612	212.97
15	42016	Gabua Fultala	WCD	Barguna/ Betagi	750	1400227	1399227	16730210	16730210	35	18130437.00	18,129,437	24,173	309.90
16	42017	Nabinpur-Dholar Beel	FMD	Meherpur/ Gangni	932	12177803	13243604	4337267	4337267	11	16515070.00	17,580,871	18,864	241.84
17	42018	Kata Khal	FMD	Meherpur/ Mujibnagar	221	5137855	5969576	491000	491000	1	5628855.00	6,460,576	29,233	374.79
18	42020	Ulushikkhal	WCD	Sirajganj/ Tarash	650	7406112	8802256	7660358	7660358	15	15066470.00	16,462,614	25,327	324.71
19	42021	Fasiakhali Irrigation	CAD	Cox's Bazar/ Chakoria	358	10513430	10500050				10513430.44	10,500,050	29,330	376.02
20	42022	Sapleza DR-1	DR	Pirojpur/ Mathbaria	896	1398697	1398697	10280488	10280488	26	11679185.00	11,679,185	13,035	167.11
21	42023	Jalabaria DR-1	DR	Pirojpur/ Nesarabad	700	1398701	1398701	10498074	10498074	27	11896775.00	11,896,775	16,995	217.89
22	42024	Nishanbaria-Gazimahmud	DR	Barguna/ Sadar	750	1400227	1400214	11096783	11096783	75	12497010.00	12,496,997	16,663	213.62
23	42025	Kujail-Sodakhali-Ractodaha	WCD	Naogaon/ Raninagar & Atrai	682	1374982	1517034.34	8196803	8196803	14	9571785.00	9,713,837	14,243	182.60
24	42026	Ratan Dhara (Sadhukhali to Jhanjhanian)	WCD	Naogaon/ Raninagar & Atrai	511	1374982	1396966	4647540	4647540	12	6022522.00	6,044,506	11,829	151.65
25	42027	Nuruddin Khal	WCD	Pabna/ Sujanagar	235	10682406	10652297	2304577	2304577	5	12986983.00	12,956,874	55,136	706.87
26	43028	Sapdanga Khal WC & DR	WCD	Pabna/ Atghoria	650	14847180	14863189	1402802	1402802	3	16249982.00	16,265,991	25,025	320.83
27	43029	Burichar-Nur Ali Charakgachhia	WCD	Barguna/ Sadar	500	1391428	1390578	6328986	6328986	14	7720414.00	7,719,564	15,439	197.94
28	43030	Aylapatakata DR-1	DR	Barguna/ Sadar	720	1400227	1396227	7785516	7785516	19	9185743.00	9,181,743	12,752	163.49
29	43031	Belgapur-Julupara	DR	Naogaon/ Niamatpur	1,000	1366184	1432583	13673109	13673109	22	15039293.00	15,105,692	15,106	193.66
30	43032	Samaspura-Chalk Temukh-Islamgati	FMD	Naogaon/ Atrai	740	16912095	17320732.9	6747348	6747348	12	23659443.00	24,068,081	32,524	416.98

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Structure Cost (BDT)		LCS Cost (BDT)		LCS Groups	Total Cost (BDT)		Contract Amount	
						Engineer's Estimate	Contract Amount	Engineer's Estimate	Contract Amount		Engineer's Estimate	Contract Amount	Unit Cost (BDT/ha)	Unit Cost (US\$/ha)
1	2	3	4	5	6	7	8	10	11	12	13	14	15	16
31	43033	Santoshpara-Chatra	DR	Naogaon/ Niamatpur	900	1373903	1434775	14523585	14,523,585	23	15897488.00	15,958,360	17,732	227.33
32	43034	Potka Khali DR & Irri.	DR	Barguna/ Sadar	597	1391428	1387528	6014216	6014216	13	7405644.00	7,401,744	12,398	158.95
33	43035	Goal Kandi-Daturbari	FMD	Gaibandha/ Gobindaganj	500	10542672	11,567,193	5311794	5,311,794	18	15854466.00	16,878,987	33,758	432.79
34	43036	Badrabati (South)	DR	Sirajganj/ Tarash	700	1374990	1,612,948	27279789	27,279,789	52	28654779.00	28,892,737	41,275	529.17
35	43037	Badrabati (North)	DR	Sirajganj/ Tarash	850	1374990	1,649,328	13993773	13,993,773	28	15368763.00	15,643,101	18,404	235.94
36	43038	Silaur-Dogangy SP	DR	Brahmanbaria/ Sadar	623	1398475	1,397,396	5950877	5,950,877	11	7349352.00	7,348,273	11,795	151.22
37	43039	Ghughudima-Khutbatala	CAD	Chapai Nawabganj/ Sadar	105	9633129	10,046,439				9633129.00	10,046,439	95,680	1226.67
38	43040	Singkhali	DR	Barguna/ Amtoly	570	1365949	1366948	9918107	9918107	21	11284056.00	11,285,055	19,798	253.82
39	43041	Sonbunia Subproject	DR	Barguna/ Sadar	208	8626859	8626859	4241402	4241402	7	12868261.00	12,868,261	61,867	793.16
40	43042	Atrai-Burigang Subproject	DR	Naogaon/ Atrai	1,000	1373904	1420137	7581290	7,581,290	12	8955194.00	9,001,427	9,001	115.40
41	43043	Dehergati	DR	Barisal/ Babuganj	700	1391429	1,399,057	11949967	11949967	20	13341396.00	13,349,024	19,070	244.49
42	43044	Garabunia	DR	Barguna/ Amtoly	300	1391428	1390035	4697748	4697748	12	6089176.00	6,087,783	20,293	260.16
43	43045	Pok Khali-Naikkhongdia	WC (RD)	Cox's Bazar/ Sadar	663	80206459	87,841,874				80206459.00	87,841,874	132,492	1698.61
44	43046	Thimchari-Purbakul	WC (RD)	Cox's Bazar/ Ukhia	784	39300000	40,382,723				39300000.00	40,382,723	51,509	660.37
45	43047	Pashchim Dighulia	WC (RD)	Cox's Bazar/ Ukhia	881	45281744	55503804.2				45281744.00	55,503,804	63,001	807.70
46	43048	Deshantorkathi-Garabunia	DR	Barguna/ Betagi	625	1365048	1340034	10681557	10681557	25	12046605.00	12,021,591	19,235	246.60
47	43049	Kapila-Krishnapur	DR	Barisal/Bakerganj	845	1391428	1,563,247	14595150	14595150	25	15986578.00	16,158,397	19,122	245.16
48	43050	Madhya-Purba Rajapur	DR	Patuakhali/ Bauphal	302	1391428	1469637	9631802	9,631,802	19	11023230.00	11,101,439	36,760	471.28
49	43051	Monirjheel-Sonaichhari Khal	WC (RD)	Cox's Bazar/ Ramu	637	44297328	56,624,771				44297328.00	56,624,771	88,893	1139.65
50	43054	Mofizan Khal	WCD	Gaibandha/ Saghata	200	6188332	6,280,777	3065820	3,065,820	18	9254152.00	9,346,597	46,733	599.14
51	43055	Dholdholia	FMD	Gaibandha/ Saghata	748	7243188	7,889,072	8038430	8038430	14	15281618.00	15,927,502	21,293	272.99
52	43056	Latifpur-Etbarpur Khal	DR	Comilla/ Chandina	666	5654469	6470970	7462305	7462305	16	13116774.00	13,933,275	20,921	268.22
53	43057	Adabaria	FMD	Patuakhali/ Bauphal	270	9328240	10732471	3950385	3950385	9	13278625.00	14,682,856	54,381	697.19
54	43058	Sabupura	DR	Patuakhali/ Bauphal	540	1391428	1,730,165	6460606	6460606	14	7852034.00	8,190,771	15,168	194.46
55	43059	Kedarpur-Gobindapur	WCD	Comilla/ Chandina	630	6719917	7,334,559	10626032	10,626,032	23	17345949.00	17,960,591	28,509	365.50
56	43060	Ponahura FMD & WC	FMD	Patuakhali/ Bauphal	370	15871674	19,360,395	7338190	7338190	14	23209864.00	26,698,585	72,158	925.11
57	43061	Bhagalpur Montola	FMD	Sirajganj/ Ullapara	714	14224238	16,491,491	26709292	26,709,292	58	40933530.00	43,200,783	60,505	775.71
58	43062	Gouripur	DR	Pirojpur/ Bhandaria	791	1314303	1,314,220	9574904	9,574,904	23	10889207.00	10,889,124	13,766	176.49
59	43063	Kathurakandi Khal	WCD	Jessore/ Bagherpara	750	9425666	10,238,926	349302	349,302	1	9774968.00	10,588,228	14,118	181.00
60	43064	Dier Khal	FMD	Bagerhat/ Sadar	665	4689368	5,296,645	5187325	5,187,325	13	9876693.00	10,483,970	15,765	202.12
61	43065	Bhangakha-Nyamatpur	WCD	Laxmipur/ Sadar	665	11224264	12,308,167	2649673	2649673	7	13873937.00	14,957,840	22,493	288.37
62	43066	Bhelumia	DR	Bhola/ Sadar	420	1374429	1,443,362	12980080	12,980,080	26	14354509.00	14,423,442	34,342	440.28
63	43067	Purba Char Madras	DR	Bhola/ Charfession	769	1374429	1,374,101	13791552	13,791,552	27	15165981.00	15,165,653	19,721	252.84
64	43068	Pashcim Char Madras	DR	Bhola/ Charfession	890	1374429	1,374,252	18394637	18,394,637	35	19769066.00	19,768,889	22,212	284.77
65	43069	Char Samaia	DR	Bhola/ Sadar	267			6680237	6,680,237	14	6680237.00	6,680,237	25,020	320.76

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Structure Cost (BDT)		LCS Cost (BDT)		LCS Groups	Total Cost (BDT)		Contract Amount	
						Engineer's Estimate	Contract Amount	Engineer's Estimate	Contract Amount		Engineer's Estimate	Contract Amount	Unit Cost (BDT/ha)	Unit Cost (US\$/ha)
1	2	3	4	5	6	7	8	10	11	12	13	14	15	16
66	43070	Panchagram	DR	Jhalokathi/ Nalchhiti	820	1375922	1,374,196	13715643	13715643	28	15091565.00	15,089,839	18,402	235.93
67	43071	Bokrabari	WCD	Rangpur/ Mithapukur	353	7941031	9,578,052	5306902	5306902	11	13247933.00	14,884,954	42,167	540.60
68	43072	Pathuria Kalibari	FMD	Bagerhat/ Morelganj	375	12943509	15,131,850	13998671	13,998,671	31	26942180.00	29,130,521	77,681	995.92
69	44074	Swarupdaha Dhunar Khal	WCD	Jessore/ Chowgachha	841	16885289	18,551,910	900061	900,061	2	17785350.00	19,451,971	23,130	296.53
70	44075	Losnabad Phalaghar	DR	Barisal/ Bakerganj	900	1250199	1,509,447	10850502	10850502	26	12100701.00	12,359,949	13,733	176.07
71	44077	Saorakathi	DR	Jhalokathi/ Sadar	750	1375922	1,375,000	10744580	10,744,580	21	12120502.00	12,119,580	16,159	207.17
72	44078	Dhonkundi Beel	FMD	Bogra/ Sherpur	509	8229340	7,680,934	410869	410,869	1	8640209.00	8,091,803	15,897	203.81
73	44080	Challish kahania	DR	Jhalokathi/ Rajapur	869	1319038	1317572	10607426	10607426	25	11926464.00	11,924,998	13,723	175.93
74	44081	Thakurmallik	DR	Barisal/ Bakerganj	920	3205975	3,487,135	12774881	12774881	29	15980856.00	16,262,016	17,676	226.62
75	44083	Amua Patikhalghata	DR	Jhalokathi/ Kathali	920	1374984	1374427	11328431	11328431	27	12703415.00	12,702,858	13,807	177.02
76	44084	Sitly Khal	DR	Jhenaidah/ Harinakunda	800	1362774	1,492,908	4870627	4,870,627	11	6233401.00	6,363,535	7,954	101.98
77	44092	Faridpur-Badurerjan	FMD	Rangpur/ Mithapukur	310	4376509	4,828,900	849060	849060	7	5225569.00	5,677,960	18,316	234.82
78	44093	Pashchim Joar	CAD	Chittagong/ Mirersarai	250	16481395	19,665,853				16481395.00	19,665,853	78,663	1008.51
79	44094	Shree Khal	WCD	Joypurhat/ Akkelpur	450	12633000	15,359,900	6152234	6152234	14	18785234.00	21,512,134	47,805	612.88
80	44095	Kalapania Khal	WCD	Chittagong/ Fatikchhari	440	20934841	25,109,965	1506547	1456000	4	22441387.53	26,565,965	60,377	774.07
81	44097	Dudhal	FMD	Barisal/ Bakerganj	415	11890000	13392979	4824739	9175784	10	16714739.00	22,568,763	54,383	697.21
82	44101	Bondukkhali Khal	FMD	Meherpur/ Sadar	268	3848384	4,036,420	702951	702,951	2	4551335.00	4,739,371	17,684	226.72
83	44103	Gotkhali Chalitabunia	DR	Barguna/ Amtoly	840	1573114	1569195	10655696	10655696	24	12228810.00	12,224,891	14,553	186.58
84	44104	Sarengal	DR	Jhalokathi/ Sadar	440	1374429	1,373,372	9643668	9643668	26	11018097.00	11,017,040	25,039	321.01
85	44106	Sachilapur	DR	Jhalokathi/ Sadar	480	1374429	1373552	8450206	8450206	21	9824635.00	9,823,758	20,466	262.39
86	44107	Amail Indail	WCD	Bogra/ Adamdighi	545	9342728	10,261,219	6351897	6351897	19	15694625.00	16,613,116	30,483	390.80
87	44111	Kashipur	DR	Barisal/ Sadar	909	1383157	1,516,742	15872646	15872646	35	17255803.00	17,389,388	19,130	245.26
88	44112	Harirampur Beel	FMD	Meherpur/ Sadar	396	10082300	10,868,329	3763227	3,763,227	7	13845527.00	14,631,556	36,948	473.70
89	44113	Jhirai Bridge-Jangalpara Khal	FMD	Gaibandha/ Gobindaganj	440	13369016	14,403,817	6126037	6,126,037	12	19495053.00	20,529,854	46,659	598.19
90	44117	Deulkathi-Binnapara	DR	Jhalokathi/ Sadar	884	1374429	1,373,298	10984094	10984094	23	12358523.00	12,357,392	13,979	179.22
91	44119	Bangla Bazar-Gopalpur	WCD	Noakhali/ Begumganj	690	13012782	15,335,999	5002926	5,012,926	13	18015708.00	20,348,925	29,491	378.09
92	44125	Chakhar	DR	Barisal/ Banaripara	815	1363828	1493370.3	14238616	14,238,616	32	15602444.00	15,731,986	19,303	247.48
93	44127	Haripasha-Pironda	DR	Jhalokathi/ Sadar	890	1374429	1,373,977	12540385	12540385	30	13914814.00	13,914,362	15,634	200.44
94	44130	Purandar Vushan Chandrer Bari-Sarbeshwar Ghat	WCD	Gaibandha/Gobindaganj	500	13793343	14,965,258	3896323	3,896,323	8	17689666.00	18,861,581	37,723	483.63
95	44131	Guarekha	DR	Pirojpur/ Nesarabad	996	1374429	1374939	9266511	9266511	22	10640940.00	10,641,450	10,684	136.98
96	44135	Debdun Bauisona Khal	WCD	Narail/ Kalia	253	2818829	2,956,222	2198900	2,198,900	7	5017729.00	5,155,122	20,376	261.23
97	44136	Paschim Chhayam Takta	DR	Barisal/ Mehendiganj	337	1327114	1,452,940	7374167	7,374,167	18	8701281.00	8,827,107	26,193	335.81
98	44143	Hetalia-Ballabhpur	DR	Patuakhali/ Sadar	467	4078449	3,442,267	12089169	12089169	28	16167618.00	15,531,436	33,258	426.38
99	45145	Naimuri Alidaha	WCD	Sirajganj/ Ullapara	380	5085662	5,477,629	11616200	11,616,200	22	16701862.00	17,093,829	44,984	576.71

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Structure Cost (BDT)		LCS Cost (BDT)		LCS Groups	Total Cost (BDT)		Contract Amount	
						Engineer's Estimate	Contract Amount	Engineer's Estimate	Contract Amount		Engineer's Estimate	Contract Amount	Unit Cost (BDT/ha)	Unit Cost (US\$/ha)
1	2	3	4	5	6	7	8	10	11	12	13	14	15	16
100	45148	Bottola Khal SP	WCD	Jhalokathi/ Nalcity	922	1231264	1,229,376	12094804	12094804	26	13326068.00	13,324,180	14,451	185.27
101	45150	Chandpasha	WCD	Barisal/ Babuganj	616	1290689	1059094	9368326	9368326	22	10659015.00	10,427,420	16,928	217.02
102	45152	Biddanandapur	DR	Barisal/ Mehendiganj	383	1310867	1091706.36	6313401	6313401	17	7624268.00	7,405,107	19,334	247.88
103	45157	Satail Beel	DR	Natore/ Boraigram	290	1303339	1,426,932	4262527	4,262,527	10	5565866.00	5,689,459	19,619	251.52
104	45168	Chalitabunia	WCD	Pirojpur/Mathbaria	850	7833358	7,832,805	9972146	9972146	23	17805504.00	17,804,951	20,947	268.55
105	45173	Charadi	WCD	Barisal/Bakerganj	650	6400529	5,075,276	10825971	10,825,971	23	17226500.00	15,901,247	24,463	313.63
106	45180	Tengrakhal Char Tengra	WCD	Bagerhat/Kachua & Sadar	280	3601846	3,936,427	7476361	7,476,361	19	11078207.00	11,412,788	40,760	522.56
107	45205	Napitkhali-Burirchar Khal	DR	Barguna/Sadar	550	4839567	4,838,253	7053708	7,053,708	16	11893275.00	11,891,961	21,622	277.20
108	45211	Uttampur	DR	Barisal/Bakerganj	550	1309963	1,372,903	7186136	7,186,136	16	8496099.00	8,559,039	15,562	199.51
109	46240	Amtoly-Ruhita-Potkakhali	DR	Barguna/ Bamna	847	1413018	1,235,533	14301739	14,301,739	32	15714757.00	15,537,272	18,344	235.18
Total					67,653	969634625	1074290376	804859120	808534875	1806	1774493745	1882825251	27,831	356.80
Average					621	8895731	9855875	8129890	8167019	18	16279759	17273626	27,831	356.80
Range														
Min.					105	1,231,264	1,059,094	349,302	349,302	1	4,551,335	4,739,371	7,954	102
Max.					1,000	80206459	87841874	27279789	27279789	75	80,206,459	87841874	132492	1,699

Note: BDT 78 = US\$ 1

Source: Project studies

Table A.2: Selected Indicators of Institutional Development, Beneficiary Households, Membership, Capital Formation and Micro-credit

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Beneficiary HHs		WMCA Membership			Capital Fund (BDT)				Micro Credit						
						No.	%	Male	Female	Total	Share	Savings	Total	BDT/ Member	No. of Loans	Male	Female	Total Disbursed (BDT)	Total Return (BDT)	Average Value of Loan (BDT)	Interest/ Year (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	41001	Nimai Khari Khal	WCD	Dinajpur/ Sadar	850	617	81	348	151	499	172400	253426	425826	853	66	46	20	236100	105000	3577	15
2	41002	Purba Sarail Madhai Khal	WCD	Joypurhat/ Kalai	732	435	107	277	189	466	46800	183020	229820	493							
3	41003	Baika-Barahapania	FMD	Manikganj/ Harirampur	590	467	112	440	85	525	52500	350300	402800	767	26	26	0	152000	152000	5846	
4	41004	Chak Govindapur- Aldadpur	WCD	Gaibandha/ Sadullapur	470	726	172	681	569	1,250	64380	204020	268400	215							
5	41005	Kanakdia FMD	FMD	Patuakhali/ Bauphal	730	650	84	367	182	549	5490	430310	435800	794	31	16	15	425000	266872	13710	15
6	41006	Bhelabari Durgapur	WC (RD)	Lalmonirhat/ Aditmari	893	465	125	270	310	580	278763	615483	894246	1542	53	30	23	866000	530000	16340	
7	41007	Harwalchari	WC (RD)	Chittagong/ Fatikchhari	650	569	212	820	385	1,205	2705850	2587550	5293400	4393	360	329	31	19605000	13794166	54458	15
8	41008	Goshinga-Sitalakha	CAD	Gazipur/ Sreepur	600	704	86	432	176	608	79550	113700	193250	318							
9	41009	Kusta Thakurkandi FMD	FMD	Manikganj/ Gheor	340	482	89	318	113	431	43100	147600	190700	442							
10	41010	Swarnakhali Khal	FMD	Dhaka/ Dhamrai	370	328	196	449	195	644	224200	2793267	3017467	4686	577	449	128	11701680	9964093	20280	15
11	41011	Noapara-Hazirdhara	WCD	Rajshahi/ Puthia	682	257	79	144	59	203	66550	106000	172550	850	55	27	28	297000	202124	5400	
12	42013	South-Gohat	CAD	Chandpur/ Kachua	936	1,250	73	530	383	913	90650	110200	200850	220							
13	42014	Udura Khal	CAD	Chandpur/ Kachua	997	550	84	353	107	460	46450	91500	137950	300							
14	42015	Sunduri Khal	CAD	Chandpur/ Kachua	983	700	80	392	168	560	50000	675000	725000	1295							
15	42016	Gabua Fultala	WCD	Barguna/ Betagi	750	706	81	337	237	574	305440	575310	880750	1534	187	92	95	2835600	1821635	15164	15
16	42017	Nabinpur-Dholar Beel	FMD	Meherpur/ Gangni	932	604	88	373	156	529	26450	193260	219710	415							
17	42018	Kata Khal	FMD	Meherpur/ Mujibnagar	221	415	77	180	140	320	31000	383680	414680	1296	33	26	7	558000	200800	16909	15
18	42020	Ulshikkhal	WCD	Sirajganj/ Tarash	650	1,229	79	573	404	977	418700	2760330	3179030	3254	114	67	47	2745700	2020750	24085	15
19	42021	Fasiakhali Irrigation	CAD	Cox's Bazar/ Chakoria	358	482	130	440	188	628	71910	156640	228550	364							
20	42022	Sapleza DR-1	DR	Pirojpur/ Mathbaria	896	831	76	394	241	635	65650	447470	513120	808	54	36	18	835000	367510	15463	15
21	42023	Jalabaria DR-1	DR	Pirojpur/ Nesarabad	700	614	85	339	184	523	30350	186940	217290	415	9	5	4	180000	41870	20000	15
22	42024	Nishanbaria-Gazimahmud	DR	Barguna/ Sadar	750	868	84	471	254	725	24550	356975	381525	526	40	24	16	387000	156897	9675	15
23	42025	Kujail-Sodakhali-Ractodaha	WCD	Naogaon/ Raninagar & Atrai	682	438	80	214	135	349	62000	324800	386800	1108							
24	42026	Ratan Dhara (Sadhukhali to Jhanjhanian)	WCD	Naogaon/ Raninagar & Atrai	511	364	105	254	127	381	53000	309530	362530	952							
25	42027	Nuruddin Khal	WCD	Pabna/ Sujanagar	235	632	71	298	149	447	22350	49405	71755	161							

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Beneficiary HHs		WMCA Membership			Capital Fund (BDT)				Micro Credit						
						No.	%	Male	Female	Total	Share	Savings	Total	BDT/ Member	No. of Loans	Male	Female	Total Disbursed (BDT)	Total Return (BDT)	Average Value of Loan (BDT)	Interest/ Year (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
26	43028	Sapdanga Khal	WCD	Pabna/ Atghoria	650	898	71	423	211	634	31700	58100	89800	142							
27	43029	Burichar-Nur Ali Charakgachhia	WCD	Barguna/ Sadar	500	870	93	510	301	811	713980	932036	1646016	2030	397	217	180	7017000	5028409	17675	15
28	43030	Aylapatakata DR-1	DR	Barguna/ Sadar	720	912	70	370	265	635	24400	847498	871898	1373	92	58	34	1323000	542525	14380	15
29	43031	Belgapur-Julupara	DR	Naogaon/ Niamatpur	1,000	323	124	268	132	400	75200	324120	399320	998							
30	43032	Samaspara-Chalk Temukh-Islamgati	FMD	Naogaon/ Atrai	740	593	83	311	179	490	74000	289300	363300	741							
31	43033	Santoshpara-Chatra	DR	Naogaon/ Niamatpur	900	736	79	352	230	582	71000	655600	726600	1248							
32	43034	Potka Khali DR & Irri.	DR	Barguna/ Sadar	597	630	89	227	336	563	24380	322110	346490	615	57	28	29	1038000	658560	18211	15
33	43035	Goal Kandi-Daturbari	FMD	Gaibandha/ Gobindaganj	500	498	106	281	246	527	26350	427690	454040	862							
34	43036	Badrabati (South)	DR	Sirajganj/ Tarash	700	1,104	76	561	280	841	134000	2460420	2594420	3085	103	61	42	2475000	2400000	24029	15
35	43037	Badrabati (North)	DR	Sirajganj/ Tarash	850	969	82	479	317	796	199600	2606780	2806380	3526	89	62	27	2425000	1850000	27247	15
36	43038	Silaur-Dogangy SP	DR	Brahmanbaria/ Sadar	623	220	80	100	75	175	40000	50500	90500	517							
37	43039	Ghughudima-Khutbatala	CAD	Chapai Nawabganj/ Sadar	105	418	78	165	159	324	64700	470880	535580	1653	162	83	79	962000	733000	5938	
38	43040	Singkhali	DR	Barguna/ Amtoly	570	625	71	297	148	445	29230	499060	528290	1187	22	14	8	487200	408905	22145	15
39	43041	Sonbunia Subproject	DR	Barguna/ Sadar	208	505	108	368	175	543	22200	263025	285225	525	63	32	31	465900	290495	7395	15
40	43042	Atrai-Burigang Subproject	DR	Naogaon/ Atrai	1,000	412	90	250	121	371	52900	241465	294365	793							
41	43043	Dehergati	DR	Barisal/ Babuganj	700	660	104	429	257	686	40410	576370	616780	899	51	26	25	426800	322400	8369	15
42	43044	Garabunia	DR	Barguna/ Amtoly	300	520	71	242	127	369	26900	303540	330440	896	37	18	19	293100	75865	7922	15
43	43045	Pok Khali-Naikkhongdia	WC (RD)	Cox's Bazar/ Sadar	663	564	139	547	238	785	80500	137280	217780	277							
44	43046	Thimchari-Purbakul	WC (RD)	Cox's Bazar/ Ukhia	784	480	182	590	284	874	33990	179500	213490	244							
45	43047	Pashchim Dighulia	WC (RD)	Cox's Bazar/ Ukhia	881	399	124	322	174	496	33120	206390	239510	483	22	15	7	210000	40020	9545	15
46	43048	Deshantorkathi-Garabunia	DR	Barguna/ Betagi	625	718	71	296	214	510	28560	205930	234490	460							
47	43049	Kapila-Krishnapur	DR	Barisal/Bakerganj	845	823	41	244	97	341	17670	314094	331764	973	2	2	0	20000	3334	10000	15
48	43050	Madhya-Purba Rajapur	DR	Patuakhali/ Bauphal	302	300	80	165	75	240	11800	188950	200750	836	23	13	10	115000	92773	5000	15
49	43051	Monirjheel-Sonaichhari Khal	WC (RD)	Cox's Bazar/ Ramu	637	800	96	507	260	767	153760	158010	311770	406	13	8	5	150000	0	11538	15
50	43054	Mofizan Khal	WCD	Gaibandha/ Saghata	200	895	99	390	495	885	23900	205550	229450	259							
51	43055	Dholdholia	FMD	Gaibandha/ Saghata	748	886	87	365	407	772	8460	183500	191960	249	12	6	6	60000	26000	5000	10
52	43056	Latifpur-Etbarpur Khal	DR	Comilla/ Chandina	666	400	113	299	153	452	64300	229780	294080	651	10	5	5	150000	114000	15000	
53	43057	Adabaria	FMD	Patuakhali/ Bauphal	270	371	101	233	142	375	21760	326810	348570	930	11	8	3	120000	86257	10909	15

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Beneficiary HHs		WMCA Membership			Capital Fund (BDT)				Micro Credit						
						No.	%	Male	Female	Total	Share	Savings	Total	BDT/ Member	No. of Loans	Male	Female	Total Disbursed (BDT)	Total Return (BDT)	Average Value of Loan (BDT)	Interest/ Year (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
54	43058	Sabupura	DR	Patuakhali/ Bauphal	540	300	233	371	329	700	50000	1007060	1057060	1510	28	13	15	260000	229006	9286	15
55	43059	Kedarpur-Gobindapur	WCD	Comilla/ Chandina	630	570	75	279	146	425	53600	170600	224200	528	10	10		170000	145000	17000	
56	43060	Ponahura FMD & WC	FMD	Patuakhali/ Bauphal	370	300	105	188	127	315	20000	186390	206390	655							15
57	43061	Bhagalpur Montola	FMD	Sirajganj/ Ullapara	714	1,029	72	504	233	737	73700	270710	344410	467	27	14	13	315000	60000	11667	
58	43062	Gouripur	DR	Pirojpur/ Bhandaria	791	600	85	286	224	510	44600	141210	185810	364	9	4	5	180000	15000	20000	15
59	43063	Kathurakandi Khal	WCD	Jessore/ Bagherpara	750	302	90	171	101	272	27750	154740	182490	671	3	3	0	156570	16800	52190	15
60	43064	Dier Khal	FMD	Bagerhat/ Sadar	665	498	75	249	125	374	18900	331600	350500	937	16	10	6	212970	100000	13311	15
61	43065	Bhangakha-Nyamatur	WCD	Laxmipur/ Sadar	665	636	74	340	130	470	38500	163565	202065	430							
62	43066	Bhelumia	DR	Bhola/ Sadar	420	388	99	284	100	384	13220	198140	211360	550	7	5	2	120000	29080	17143	15
63	43067	Purba Char Madras	DR	Bhola/ Charfession	769	802	89	503	208	711	47960	257200	305160	429	14	11	3	100000	21800	7143	15
64	43068	Pashcim Char Madras	DR	Bhola/ Charfession	890	933	80	422	322	744	50080	294760	344840	463	20	14	6	100000	27000	5000	15
65	43069	Char Samaia	DR	Bhola/ Sadar	267	493	158	475	304	779	20820	351100	371920	477	6	3	3	165000	127050	27500	15
66	43070	Panchagram	DR	Jhalokathi/ Naichhiti	820	458	84	251	134	385	17360	227000	244360	635	9	5	4	180000	39000	20000	15
67	43071	Bokrabari	WCD	Rangpur/ Mithapukur	353	415	78	218	104	322	32200	106950	139150	432							
68	43072	Pathuria Kalibari	FMD	Bagerhat/ Morelganj	375	305	103	206	109	315	48400	339245	387645	1231	33	28	5	471650	190364	14292	15
69	44074	Swarupdaha Dhunar Khal	WCD	Jessore/ Chowgachha	841	364	87	213	105	318	34400	156425	190825	600	38	20	18	175000	56480	4605	15
70	44075	Losnabad Phalaghar	DR	Barisal/ Bakerganj	900	849	76	427	215	642	19260	390570	409830	638	13	5	8	130000	17115	10000	15
71	44077	Saorakathi	DR	Jhalokathi/ Sadar	750	540	89	321	162	483	29540	221805	251345	520	64	43	21	408300	259601	6380	15
72	44078	Dhonkundi Beel	FMD	Bogra/ Sherpur	509	155	123	119	72	191	33000	299795	332795	1742	110	69	41	1548000	1258000	14073	15
73	44080	Challish kahania	DR	Jhalokathi/ Rajapur	869	550	84	250	210	460	42300	152790	195090	424	11	8	3	160000	60350	14545	15
74	44081	Thakurmali	DR	Barisal/ Bakerganj	920	810	76	340	273	613	57400	514320	571720	933	40	19	21	461000	395025	11525	15
75	44083	Amua Patikhaighata	DR	Jhalokathi/ Kathali	920	601	73	274	165	439	32600	320055	352655	803	16	11	5	310000	200886	19375	15
76	44084	Sitly Khal	DR	Jhenaidah/ Harinakunda	800	294	85	146	105	251	48020	305071	353091	1407	74	35	39	678500	220000	9169	15
77	44092	Faridpur-Badurerjan	FMD	Rangpur/ Mithapukur	310	368	130	360	117	477	47700	125800	173500	364							
78	44093	Pashchim Joar	CAD	Chittagong/ Mirersarai	250	509	83	275	150	425	148800	454390	603190	1419	19	14	5	300000	262640	15789	15
79	44094	Shree Khal	WCD	Joypurhat/ Akkelpur	450	595	87	330	186	516	51700	383590	435290	844	92	61	31	834000	547000	9065	15
80	44095	Kalapania Khal	WCD	Chittagong/ Fatikchhari	440	514	83	300	129	429	48900	67800	116700	272							
81	44097	Dudhal	FMD	Barisal/ Bakerganj	415	732	78	360	211	571	17130	364690	381820	669	4	2	2	230000	0	57500	15
82	44101	Bondukkhali Khal	FMD	Meherpur/ Sadar	268	438	83	251	113	364	22700	221760	244460	672							
83	44103	Gotkhali Chalitabunia	DR	Barguna/ Amtoly	840	420	73	193	112	305	10120	252200	262320	860							
84	44104	Sarengal	DR	Jhalokathi/ Sadar	440	525	111	338	245	583	42240	1430292	1472532	2526	265	132	133	3638000	2235114	13728	15
85	44106	Sachilapur	DR	Jhalokathi/ Sadar	480	595	107	375	260	635	32320	308720	341040	537	7	5	2	166000	33675	23714	15
86	44107	Amail Indail	WCD	Bogra/ Adamdighi	545	703	90	250	380	630	76900	432320	509220	808	26		26	127000	54000	4885	15
87	44111	Kashipur	DR	Barisal/ Sadar	909	850	78	441	224	665	39150	531685	570835	858	99	47	52	1010000	419685	10202	15

Sl. No.	SP No.	Name of Subproject	Type	Name of District/Upazila	Benefitted Area (ha)	Beneficiary HHs		WMCA Membership			Capital Fund (BDT)				Micro Credit							
						No.	%	Male	Female	Total	Share	Savings	Total	BDT/ Member	No. of Loans	Male	Female	Total Disbursed (BDT)	Total Return (BDT)	Average Value of Loan (BDT)	Interest/ Year (%)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
88	44112	Harirampur Beel	FMD	Meherpur/ Sadar	396	460	74	205	136	341	23380	278840	302220	886	12	12	0	224000	0	18667	15	
89	44113	Jhirai Bridge-Jangalpara Khal	FMD	Gaibandha/ Gobindaganj	440	547	87	328	148	476	50400	291540	341940	718	54	24	30	210000	52800	3889	15	
90	44117	Deulkathi-Binnapara	DR	Jhalokathi/ Sadar	884	492	92	242	213	455	18700	155960	174660	384	13	8	5	215000	118350	16538	15	
91	44119	Bangla Bazar-Gopalpur	WCD	Noakhali/ Begumganj	690	526	76	347	55	402	40200	141100	181300	451								
92	44125	Chakhar	DR	Barisal/ Banaripara	815	533	204	404	683	1,087	72400	1228000	1300400	1196	187	75	112	2172000	1200890	11615	15	
93	44127	Haripasha-Pironda	DR	Jhalokathi/ Sadar	890	601	50	172	131	303	28780	136310	165090	545	133	61	72	882000	727487	6632	15	
94	44130	Purandar Vushan Chandrer Bari-Sarbeshwar Ghat	WCD	Gaibandha/Gobindaganj	500	576	84	297	184	481	48100	264440	312540	650	14	8	6	60000	56000	4286	15	
95	44131	Guarekha	DR	Pirojpur/ Nesarabad	996	637	73	298	169	467	48100	174840	222940	477	4	2	2	46000	6900	11500	15	
96	44135	Debdun Bauisona Khal	WCD	Narail/ Kalia	253	298	95	155	128	283	14150	87570	101720	359								
97	44136	Paschim Chhayam Takta	DR	Barisal/ Mehendiganj	337	405	81	214	113	327	18950	233300	252250	771	10	5	5	100000	48000	10000	15	
98	44143	Hetalia-Ballabhpur	DR	Patuakhali/ Sadar	467	500	89	252	194	446	57800	362180	419980	942								
99	45145	Naimuri Alidaha	WCD	Sirajganj/ Ullapara	380	815	65	326	202	528	52800	283310	336110	637	26	17	9	270000	115000	10385	15	
100	45148	Bottola Khal SP	WCD	Jhalokathi/ Nalcity	922	545	93	323	183	506	23820	260945	284765	563	33	17	16	410000	137666	12424	15	
101	45150	Chandpasha	WCD	Barisal/ Babuganj	616	604	71	271	159	430	41000	177639	218639	508								
102	45152	Biddanandapur	DR	Barisal/ Mehendiganj	383	452	77	192	156	348	19360	168790	188150	541	28	17	11	450000	354200	16071	15	
103	45157	Satail Beel	DR	Natore/ Boraigram	290	390	80	204	107	311	15550	137600	153150	492				75000	48000			
104	45168	Chalitabunia	WCD	Pirojpur/Mathbaria	850	527	89	267	201	468	31950	154820	186770	399	12	6	6	80000	0	6667	15	
105	45173	Charadi	WCD	Barisal/Bakerganj	650	490	74	230	133	363	18150	370370	388520	1070	4	2	2	130000	0	32500	15	
106	45180	Tengrakhali Char Tengra	WCD	Bagerhat/Kachua & Sadar	280	588	80	304	169	473	80800	600895	681695	1441								
107	45205	Napitkhali-Burirchar Khal	DR	Barguna/Sadar	550	520	83	286	146	432	9660	194520	204180	473	38	31	7	361000	204242	9500	15	
108	45211	Uttampur	DR	Barisal/Bakerganj	550	606	112	428	253	681	40800	458280	499080	733	60	39	21	597000	150620	9950	15	
109	46240	Amtoly-Ruhita-Potkakhali	DR	Barguna/ Bamna	847	812	70	382	188	570	63500	198200	261700	459								
Total					67653	63277	91	35722	21566	57288	9376473	45563801	54940274	959	4459	2744	1715	77451070	52536086	17370		
Average					621	581	91	328	198	526	86023	418017	504039	959	62	38	24	1075709	729668	17370	15	
Range:																						
Minimum					105	155	41	100	55	175	5,490	49,405	71,755	142	2	2	0	20,000	0	3,577	10	
Maximum					1000	1250	233	820	683	1250	2705850	2793267	5293400	4686	577	449	180	19605000	13794166	57,500	15	

Source: Project studies

APPENDIX B

Table B1: Project Orientation & Management Training Courses, Trainees Disaggregated by Gender for Subprojects.

Subproject			Poverty Reduction Plan Preparation	Finalization of Poverty Reduction Plan	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees		
41001	Nimai Khari Khal	WCD	1	1	2	20	9	29
41002	Purba Sarail Madhai Khal	WCD	1	1	2	20	6	26
41003	Baika-Barahapania	FMD	1	1	2	20	11	31
41004	Chak Govindapur-Aldadpur	WCD	1		1	8	4	12
41005	Kanakdia FMD	FMD	1	1	2	19	9	28
41006	Bhelabari Durgapur	WC (RD)	1	1	2	20	8	28
41007	Harwalchari	WC (RD)	1	1	2	21	9	30
41008	Goshinga-Sitalakha	CAD	1	1	2	20	7	27
41009	Kusta Thakurkandi FMD	FMD			0			0
41010	Swarnakhali Khal	FMD	1	1	2	20	7	27
41011	Noapara-Hazirdhara	WCD	1	1	2	19	8	27
42013	South-Gohat	CAD	1		1	8	4	12
42014	Udura Khal	CAD	1		1	8	4	12
42015	Sunduri Khal	CAD			0			0
42016	Gabua Fultala	WCD	1	1	2	21	6	27
42017	Nabinpur-Dholar Beel	FMD			0			0
42018	Kata Khal	FMD	1	1	2	20	7	27
42020	Ulushikhali	WCD	1	1	2	20	8	28
42021	Fasiakhali Irrigation	CAD	1	1	2	21	7	28
42022	Sapleza DR-1	DR			0			0
42023	Jalabaria DR-1	DR			0			0
42024	Nishanbaria-Gazimahmud	DR	1	1	2	20	7	27
42025	Kujail-Sodakhali-Ractodaha	WCD	1		1	7	5	12
42026	Ratan Dhara (Sadhukhali to Jhanjhanian)	WCD	1		1	8	4	12
42027	Nuruddin Khal	WCD	1	1	2	19	7	26
43028	Sapdanga Khal WC & DR	WCD			0			0
43029	Burichar-Nur Ali Charakgachhia	WCD	1	1	2	21	6	27
43030	Aylapatakata DR-1	DR	1	1	2	20	8	28
43031	Belgapur-Julupara	DR			0			0

Subproject			Poverty Reduction Plan Preparation	Finalization of Poverty Reduction Plan	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees		
43032	Samaspara-Chalk Temukh-Islamgati	FMD	1		1	9	3	12
43033	Santoshpara-Chatra	DR			0			0
43034	Potka Khali DR & Irri.	DR	1	1	2	22	6	28
43035	Goal Kandi-Daturbari	FMD			0			0
43036	Badrabati (South)	DR	1	1	2	21	7	28
43037	Badrabati (North)	DR	1	1	2	22	8	30
43038	Silaur-Dogangy SP	DR	1		1	8	4	12
43039	Ghughudima-Khutbatala	CAD	1	1	2	21	6	27
43040	Singkhali	DR	1	1	2	22	8	30
43041	Sonbunia Subproject	DR	1	1	2	21	7	28
43042	Atrai-Burigang Subproject	DR	1		1	8	4	12
43043	Dehergati	DR	1	1	2	21	7	28
43044	Garabunia	DR	1	1	2	22	8	30
43045	Pok Khali-Naikkhongdia	WC (RD)	1	1	2	20	8	28
43046	Thimchari-Purbakul	WC (RD)	1		1	8	4	12
43047	Pashchim Dighulia	WC (RD)	1	1	2	22	7	29
43048	Deshantorkathi-Garabunia	DR	1	1	2	21	7	28
43049	Kapila-Krishnapur	DR	1	1	2	22	6	28
43050	Madhya-Purba Rajapur	DR	1		1	20	8	28
43051	Monirjheel-Sonaichhari Khal	WC (RD)	1	1	2	20	7	27
43054	Mofizan Khal	WCD	1	1	2	22	6	28
43055	Dholdholia	FMD	1	1	2	23	6	29
43056	Latifpur-Etbarpur Khal	DR	1	1	2	22	8	30
43057	Adabaria	FMD	1	1	2	21	7	28
43058	Sabupura	DR			0			0
43059	Kedarpur-Gobindapur	WCD	1	1	2	21	7	28
43060	Ponahura FMD & WC	FMD			0			0
43061	Bhagalpur Montola	FMD	1		1	8	4	12
43062	Gouripur	DR			0			0
43063	Kathurakandi Khal	WCD	1	1	2	22	9	31
43064	Dier Khal	FMD	1	1	2	21	9	30
43065	Bhangakha-Nyamampur	WCD			0			0

Subproject			Poverty Reduction Plan Preparation	Finalization of Poverty Reduction Plan	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees		
43066	Bhelumia	DR			0			0
43067	Purba Char Madras	DR	1		1	8	5	13
43068	Pashcim Char Madras	DR	1		1	8	4	12
43069	Char Samaia	DR			0			0
43070	Panchagram	DR			0			0
43071	Bokrabari	WCD			0			0
43072	Pathuria Kalibari	FMD	1	1	2	23	7	30
44074	Swarupdaha Dhunar Khal	WCD	1		1	8	4	12
44075	Losnabad Phalaghar	DR	1	1	2	22	8	30
44077	Saorakathi	DR			0			0
44078	Dhonkundi Beel	FMD			0			0
44080	Challish kahania	DR	1	1	2	19	8	27
44081	Thakurmallik	DR	1		1	8	4	12
44083	Amua Patikhalghata	DR			0			0
44084	Sitly Khal	DR	1	1	2	20	8	28
44092	Faridpur-Badurerjan	FMD			0			0
44093	Pashchim Joar	CAD	1		1	8	4	12
44094	Shree Khal	WCD	1	1	2	19	7	26
44095	Kalapania Khal	WCD			0			0
44097	Dudhal	FMD			0			0
44101	Bondukkhali Khal	FMD	1	1	2	21	9	30
44103	Gotkhali Chalitabunia	DR	1		1	7	5	12
44104	Sarengal	DR	1	1	2	22	8	30
44106	Sachilapur	DR			0			0
44107	Amail Indail	WCD	1		1	7	5	12
44111	Kashipur	DR			0			0
44112	Harirampur Beel	FMD	1	1	2	22	8	30
44113	Jhirai Bridge-Jangalpara Khal	FMD	1		1	8	4	12
44117	Deulkathi-Binnapara	DR	1		1	7	5	12
44119	Bangla Bazar-Gopalpur	WCD			0			0
44125	Chakhar	DR	1		1	8	4	12
44127	Haripasha-Pironda	DR			0			0

Subproject			Poverty Reduction Plan Preparation	Finalization of Poverty Reduction Plan	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees		
44130	Purandar Vushan Chandrer Bari-Sarbishwar Ghat	WCD	1		1	8	4	12
44131	Guarekha	DR	1		1	8	4	12
44135	Debdun Bauisona Khal	WCD	1	1	2	23	8	31
44136	Paschim Chhayam Takta	DR			0			0
44143	Hetalia-Ballabhpur	DR			0			0
45145	Naimuri Alidaha	WCD	1		1	8	4	12
45148	Bottola Khal SP	WCD			0			0
45150	Chandpasha	WCD	1		1	8	4	12
45152	Biddanandapur	DR			0			0
45157	Satail Beel	DR	1		1	8	4	12
45168	Chalitabunia	WCD	1		1	8	4	12
45173	Charadi	WCD	1		1	9	3	12
45180	Tengrakhal Char Tengra	WCD	1		1	8	4	12
45205	Napitkhali-Burirchar Khal	DR			0			0
45211	Uttampur	DR	1		1	7	5	12
46240	Amtoly-Ruhita-Potkakhali	DR			0			0
Total			76	46	122	1210	473	1683
Percent Gender						71.90	28.10	

Table B2: Planning, Design & Construction Training Courses, Trainees Disaggregated by Gender for Subprojects

Subproject			Earthwork Methods for LCSs	Construction Monitoring for WMCA	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees		
41001	Nimai Khari Khal	WCD		1	1	5	2	7
41002	Purba Sarail Madhai Khal	WCD	5	1	6	130	127	257
41003	Baika-Barahapania	FMD		1	1	5	2	7
41004	Chak Govindapur-Aldadpur	WCD	1	1	2	40	17	57
41005	Kanakdia FMD	FMD		1	1	5	2	7
41006	Bhelabari Durgapur	WC (RD)		1	1	5	2	7
41007	Harwalchari	WC (RD)		1	1	5	2	7
41008	Goshinga-Sitalakha	CAD		1	1	5	2	7
41009	Kusta Thakurkandi FMD	FMD		1	1	5	2	7

Subproject			Earthwork Methods for LCSs	Construction Monitoring for WMCA	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees		
41010	Swarnakhali Khal	FMD		1	1	5	2	7
41011	Noapara-Hazirdhara	WCD	1	1	2	80	2	82
42013	South-Gohat	CAD	3	1	4	185	122	307
42014	Udura Khal	CAD	3	1	4	244	112	356
42015	Sunduri Khal	CAD	4	1	5	253	125	378
42016	Gabua Fultala	WCD	16	1	17	1159	598	1757
42017	Nabinpur-Dholar Beel	FMD	4	1	5	146	80	226
42018	Kata Khal	FMD	1	1	2	22	10	32
42020	Ulushikhali	WCD	4	1	5	184	198	382
42021	Fasiakhali Irrigation	CAD		1	1	5	2	7
42022	Sapleza DR-1	DR	6	1	7	369	268	637
42023	Jalabaria DR-1	DR	7	1	8	435	247	682
42024	Nishanbaria-Gazimahmud	DR	4		4	268	157	425
42025	Kujail-Sodakhali-Ractodaha	WCD	4	1	5	215	142	357
42026	Ratan Dhara (Sadhukhali to Jhanjhan)	WCD	3	1	4	185	122	307
42027	Nuruddin Khal	WCD		1	1	5	2	7
43028	Sapdanga Khal WC & DR	WCD			0			0
43029	Burichar-Nur Ali Charakgachhia	WCD	7		7	245	105	350
43030	Aylapatakata DR-1	DR	9		9	299	176	475
43031	Belgapur-Julupara	DR	6		6	330	220	550
43032	Samaspara-Chalk Temukh-Islamgati	FMD	3	1	4	185	122	307
43033	Santoshpara-Chatra	DR	6		6	345	230	575
43034	Potka Khali DR & Irri.	DR	6		6	138	187	325
43035	Goal Kandi-Daturbari	FMD		1	1	5	2	7
43036	Badrabati (South)	DR	13		13	857	443	1300
43037	Badrabati (North)	DR	7		7	420	280	700
43038	Silaur-Dogangy SP	DR	3		3	180	95	275
43039	Ghughudima-Khutbatala	CAD		1	1	5	2	7
43040	Singkhali	DR	10		10	345	180	525
43041	Sonbunia Subproject	DR	3	1	4	120	62	182
43042	Atrai-Burigang Subproject	DR	3	1	4	187	120	307
43043	Dehergati	DR	10		10	365	125	490
43044	Garabunia	DR	6		6	217	108	325
43045	Pok Khali-Naikkhongdia	WC (RD)		1	1	6	1	7
43046	Thimchari-Purbakul	WC (RD)		1	1	6	1	7
43047	Pashchim Dighulia	WC (RD)		1	1	6	1	7

Subproject			Earthwork Methods for LCSs	Construction Monitoring for WMCA	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees		
43048	Deshantorkathi-Garabunia	DR	16		16	377	214	591
43049	Kapila-Krishnapur	DR	12		12	462	163	625
43050	Madhya-Purba Rajapur	DR	9		9	285	190	475
43051	Monirjheel-Sonaichhari Khal	WC (RD)		1	1	6	1	7
43054	Mofizan Khal	WCD	5		5	145	305	450
43055	Dholdholia	FMD	4	1	5	155	202	357
43056	Latifpur-Etbarpur Khal	DR	8	1	9	151	56	207
43057	Adabaria	FMD	4		4	135	90	225
43058	Sabupura	DR	7		7	210	140	350
43059	Kedarpur-Gobindapur	WCD	7		7	128	47	175
43060	Ponahura FMD & WC	FMD	7	1	8	215	142	357
43061	Bhagalpur Montola	FMD	29	1	30	1070	387	1457
43062	Gouripur	DR			0			0
43063	Kathurakandi Khal	WCD			0			0
43064	Dier Khal	FMD			0			0
43065	Bhangakha-Nyamampur	WCD		1	1	5	2	7
43066	Bhelumia	DR	13		13	433	217	650
43067	Purba Char Madras	DR			0			0
43068	Pashcim Char Madras	DR	18		18	607	293	900
43069	Char Samaia	DR			0			0
43070	Panchagram	DR			0			0
43071	Bokrabari	WCD			0			0
43072	Pathuria Kalibari	FMD	15		15	510	265	775
44074	Swarupdaha Dhunar Khal	WCD	1		1	40	10	50
44075	Losnabad Phalaghar	DR	13		13	442	208	650
44077	Saorakathi	DR	10		10	356	169	525
44078	Dhonkundi Beel	FMD			0			0
44080	Challish kahania	DR			0			0
44081	Thakurmallik	DR	13		13	514	160	674
44083	Amua Patikhalghata	DR			0			0
44084	Sitly Khal	DR	5		5	205	70	275
44092	Faridpur-Badurerjan	FMD	3		3	45	30	75
44093	Pashchim Joar	CAD			0			0
44094	Shree Khal	WCD	7		7	105	70	175
44095	Kalapania Khal	WCD			0			0
44097	Dudhal	FMD	5		5	205	45	250

Subproject			Earthwork Methods for LCSs	Construction Monitoring for WMCA	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees		
44101	Bondukkhali Khal	FMD	1		1	32	18	50
44103	Gotkhali Chalitabunia	DR			0			0
44104	Sarengal	DR			0			0
44106	Sachilapur	DR			0			0
44107	Amail Indail	WCD			0			0
44111	Kashipur	DR			0			0
44112	Harirampur Beel	FMD			0			0
44113	Jhirai Bridge-Jangalpara Khal	FMD			0			0
44117	Deulkathi-Binnapara	DR			0			0
44119	Bangla Bazar-Gopalpur	WCD			0			0
44125	Chakhar	DR			0			0
44127	Haripasha-Pironda	DR			0			0
44130	Purandar Vushan Chandrer Bari-Sarbeshwar Ghat	WCD			0			0
44131	Guarekha	DR			0			0
44135	Debdun Bauisona Khal	WCD			0			0
44136	Paschim Chhayam Takta	DR			0			0
44143	Hetalia-Ballabhpur	DR			0			0
45145	Naimuri Alidaha	WCD	10		10	435	115	550
45148	Bottola Khal SP	WCD			0			0
45150	Chandpasha	WCD			0			0
45152	Biddanandapur	DR			0			0
45157	Satail Beel	DR	3		3	185	65	250
45168	Chalitabunia	WCD			0			0
45173	Charadi	WCD			0			0
45180	Tengrakhali Char Tengra	WCD			0			0
45205	Napitkhali-Burirchar Khal	DR			0			0
45211	Uttampur	DR			0			0
46240	Amtoly-Ruhita-Potkakhali	DR			0			0
Total			383	38	421	15684	8481	24165
Percent Gender						64.90	35.10	

Table B3: Operation & Maintenance Training Courses, Trainees Disaggregated by Gender for Subprojects

Subproject			O&M Training for WMCA Members	WMCA : Building O&M Awareness	Training for New WMCA Members	O&M Training for PSSWRSP Subprojects	O&M Training (Ongoing Subprojects)	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses					Trainees			
41001	Nimai Khari Khal	WCD				1		3	74	39	113
41002	Purba Sarail Madhai Khal	WCD	1			1		2	11	4	15
41003	Baika-Barahapania	FMD	1			2		3	16	7	23
41004	Chak Govindapur-Aldadpur	WCD	1	1				2	68	38	106
41005	Kanakdia FMD	FMD		1				1	65	35	100
41006	Bhelabari Durgapur	WC (RD)	1	1				2	69	38	107
41007	Harwalchari	WC (RD)	1			2		3	19	4	23
41008	Goshinga-Sitalakha	CAD	1			2		3	15	7	22
41009	Kusta Thakurkandi FMD	FMD	1			2		3	16	7	23
41010	Swarnakhali Khal	FMD	1			2		3	16	7	23
41011	Noapara-Hazirdhara	WCD	1	1		1		3	74	39	113
42013	South-Gohat	CAD		1		1		2	70	36	106
42014	Udura Khal	CAD				2		2	12	4	16
42015	Sunduri Khal	CAD				2		2	12	4	16
42016	Gabua Fultala	WCD	1			1		2	11	6	17
42017	Nabinpur-Dholar Beel	FMD	1	1				2	69	38	107
42018	Kata Khal	FMD	1					1	4	3	7
42020	Ulushikhal	WCD	1	1				2	69	38	107
42021	Fasiakhali Irrigation	CAD				2		2	12	4	16
42022	Sapleza DR-1	DR	1			1		2	12	5	17
42023	Jalabaria DR-1	DR	1	1				2	69	38	107
42024	Nishanbaria-Gazimahmud	DR				2		2	12	4	16
42025	Kujail-Sodakhali-Ractodaha	WCD		1				1	65	35	100
42026	Ratan Dhara (Sadhukhali to Jhanjhan)	WCD		1				1	65	35	100
42027	Nuruddin Khal	WCD		1			1	2	70	36	106
43028	Sapdanga Khal WC & DR	WCD				1	1	2	12	4	16
43029	Burichar-Nur Ali Charagachhia	WCD				1		1	7	3	10
43030	Aylapatakata DR-1	DR				2		2	12	4	16
43031	Belgapur-Julupara	DR		1				1	65	35	100
43032	Samaspara-Chalk Temukh-Islamgati	FMD		1				1	65	35	100
43033	Santoshpara-Chatra	DR		1				1	65	35	100
43034	Potka Khali DR & Irri.	DR		1		1		2	75	31	106
43035	Goal Kandi-Daturbari	FMD						0			0
43036	Badrabati (South)	DR						0			0
43037	Badrabati (North)	DR		1				1	65	35	100
43038	Silaur-Dogangy SP	DR		1			1	2	70	36	106
43039	Ghughudima-Khutbatala	CAD				1		1	5	1	6

Subproject			O&M Training for WMCA Members	WMCA : Building O&M Awareness	Training for New WMCA Members	O&M Training for PSSWRSP Subprojects	O&M Training (Ongoing Subprojects)	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses					Trainees			
43040	Singkhali	DR		1		1		2	70	36	106
43041	Sonbunia Subproject	DR				2		2	12	4	16
43042	Atrai-Burigang Subproject	DR						0			0
43043	Dehergati	DR		1				1	65	35	100
43044	Garabunia	DR		1		1		2	70	36	106
43045	Pok Khali-Naikkhongdia	WC (RD)				1		1	12	4	16
43046	Thimchari-Purbakul	WC (RD)				2		2	12	4	16
43047	Pashchim Dighulia	WC (RD)				2		2	12	4	16
43048	Deshantorkathi-Garabunia	DR				1		1	5	1	6
43049	Kapila-Krishnapur	DR				1		1	7	3	10
43050	Madhya-Purba Rajapur	DR		1				1	65	35	100
43051	Monirjheel-Sonaichhari Khal	WC (RD)				2		2	12	4	16
43054	Mofizan Khal	WCD						0			0
43055	Dholdholia	FMD						0			0
43056	Latifpur-Etbarpur Khal	DR				2		2	12	4	16
43057	Adabaria	FMD				1		1	7	3	10
43058	Sabupura	DR				1		1	7	3	10
43059	Kedarpur-Gobindapur	WCD				2		2	12	4	16
43060	Ponahura FMD & WC	FMD				1		1	7	3	10
43061	Bhagalpur Montola	FMD						0			0
43062	Gouripur	DR						0			0
43063	Kathurakandi Khal	WCD				2		2	12	4	16
43064	Dier Khal	FMD				1		1	7	3	10
43065	Bhangakha-Nyamampur	WCD				2		2	12	4	16
43066	Bhelumia	DR				1	1	2	12	4	16
43067	Purba Char Madras	DR					1	1	5	1	6
43068	Pashcim Char Madras	DR				1	1	2	12	4	16
43069	Char Samaia	DR					1	1	5	1	6
43070	Panchagram	DR					1	1	5	1	6
43071	Bokrabari	WCD						0			0
43072	Pathuria Kalibari	FMD				1		1	7	3	10
44074	Swarupdaha Dhunar Khal	WCD				1		1	7	3	10
44075	Losnabad Phalaghar	DR				1		1	7	3	10
44077	Saorakathi	DR				1		1	7	3	10
44078	Dhonkundi Beel	FMD				1		1	7	3	10
44080	Challish kahania	DR						0			0
44081	Thakurmallik	DR				2		2	12	4	16

Subproject			O&M Training for WMCA Members	WMCA : Building O&M Awareness	Training for New WMCA Members	O&M Training for PSSWRSP Subprojects	O&M Training (Ongoing Subprojects)	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses						Trainees		
44083	Amua Patikhalghata	DR		1				1	65	35	100
44084	Sitly Khal	DR				1		1	7	3	10
44092	Faridpur-Badurerjan	FMD		1				1	65	35	100
44093	Pashchim Joar	CAD				2		2	12	4	16
44094	Shree Khal	WCD				1		1	7	3	10
44095	Kalapania Khal	WCD				2		2	12	4	16
44097	Dudhal	FMD		1				1	65	35	100
44101	Bondukkhali Khal	FMD						0			0
44103	Gotkhali Chalitabunia	DR		1				1	65	35	100
44104	Sarengal	DR				1		1	7	3	10
44106	Sachilapur	DR				1		1	7	3	10
44107	Amail Indail	WCD				1		1	7	3	10
44111	Kashipur	DR		1				1	65	35	100
44112	Harirampur Beel	FMD						0			0
44113	Jhirai Bridge-Jangalpara Khal	FMD						0			0
44117	Deulkathi-Binnapara	DR		1				1	65	35	100
44119	Bangla Bazar-Gopalpur	WCD				1	1	2	12	4	16
44125	Chakhar	DR				1		1	7	3	10
44127	Haripasha-Pironda	DR				1		1	7	3	10
44130	Purandar Vushan Chandrer Bari-Sarbeshwar Ghat	WCD						0			0
44131	Guarekha	DR		1				1	65	35	100
44135	Debdun Bauisona Khal	WCD		1				1	65	35	100
44136	Paschim Chhayam Takta	DR		1				1	65	35	100
44143	Hetalia-Ballabhpur	DR						0			0
45145	Naimuri Alidaha	WCD					1	1	5	1	6
45148	Bottola Khal SP	WCD					1	1	5	1	6
45150	Chandpasha	WCD						0			0
45152	Biddanandapur	DR						0			0
45157	Satail Beel	DR					1	1	5	1	6
45168	Chalitabunia	WCD						0			0
45173	Charadi	WCD				2		2	12	4	16
45180	Tengrakhali Char Tengra	WCD		1				1	67	33	100
45205	Napitkhali-Burirchar Khal	DR					1	1	5	1	6
45211	Uttampur	DR						0			0
46240	Amtoly-Ruhita-Potkakhali	DR					1	1	5	1	6
Total			16	32	0	78	14	140	2714	1344	4058
Percent Gender									66.88	33.12	

Table B4: WMCA Establishment & Management Training Courses, Trainees Disaggregated by Gender for Subprojects

Subproject			Training Courses											Trainees		
ID No.	Name	Type														
41001	Nimai Khari Khal	WCD			1		1			1			3	20	8	28
41002	Purba Sarail Madhai Khal	WCD		1		1	1	1		1	1		6	195	95	290
41003	Baika-Barahapania	FMD				1	1		1				3	193	81	274
41004	Chak Govindapur-Aldadpur	WCD			1		1			1			3	20	8	28
41005	Kanakdia FMD	FMD			1		1		1				3	19	8	27
41006	Bhelabari Durgapur	WC (RD)					1			1			2	25	12	37
41007	Harwalchari	WC (RD)		1		1	1	1		1	1		6	222	69	291
41008	Goshinga-Sitalakha	CAD				1		1		1	1		4	27	12	39
41009	Kusta Thakurkandi FMD	FMD			1		1	1		1			4	139	87	226
41010	Swarnakhali Khal	FMD		1		1		1		1	1		5	33	14	47
41011	Noapara-Hazirdhara	WCD		1		1	1	1		1	1		6	134	30	164
42013	South-Gohat	CAD			1		1		1	1			4	28	12	40
42014	Udura Khal	CAD			1		1		1	1			4	27	12	39
42015	Sunduri Khal	CAD			1				1				2	13	6	19
42016	Gabua Fultala	WCD		1		1		1		1	1		5	32	14	46
42017	Nabinpur-Dholar Beel	FMD			1	1	1	1		1			5	128	339	467
42018	Kata Khal	FMD		1		1	1	1		1	1		6	183	109	292
42020	Ulushikhal	WCD		1	1	1		1		1	1		6	43	20	63
42021	Fasiakhali Irrigation	CAD			1	1	1	1		1			5	241	65	306
42022	Sapleza DR-1	DR		1		1		1		1			4	23	10	33
42023	Jalabaria DR-1	DR				1		1		1	1		4	27	12	39
42024	Nishanbaria-Gazimahmud	DR				1		1		1			3	19	8	27
42025	Kujail-Sodakhali-Ractodaha	WCD				1	1	1		1	1		5	150	102	252
42026	Ratan Dhara (Sadhukhali to Jhanjhania)	WCD				1	1	1		1	1		5	161	42	203
42027	Nuruddin Khal	WCD			1	1				1	1		4	22	9	31
43028	Sapdanga Khal WC & DR	WCD				1		1		1	1		4	27	11	38
43029	Burichar-Nur Ali Charakgachhia	WCD		1	1	1		1		1			5	31	13	44
43030	Aylapatakata DR-1	DR				1		1		1			3	20	8	28
43031	Belgapur-Julupara	DR			1	1	1	1		1			5	173	134	307
43032	Samaspara-Chalk Temukh-Islamgati	FMD			1	1	1	1		1	1		6	165	91	256
43033	Santoshpara-Chatra	DR			1	1	1	1		1	1		6	149	121	270
43034	Potka Khali DR & Irri.	DR		1		1		1		1			4	25	10	35
43035	Goal Kandi-Daturbari	FMD		1	1	1	1	1		1	1		7	165	186	351
43036	Badrabati (South)	DR		1	1	1		1		1	1		6	44	20	64
43037	Badrabati (North)	DR		1	1	1		1		1	1		6	44	20	64
43038	Silaur-Dogangy SP	DR				1							1	5	2	7

Subproject			Barisal	Chittagong	Dhaka	Khulna	Rajshahi	Sylhet	Tripura	Barisal	Chittagong	Dhaka	Khulna	Rajshahi	Sylhet	Barisal	Chittagong	Dhaka	Khulna	Rajshahi	Sylhet
ID No.	Name	Type	Training Courses														Trainees				
43039	Ghughudima-Khutbatala	CAD		1		1	1	1		1	1				6	306	203	509			
43040	Singkhali	DR		1		1		1		1					4	33	14	47			
43041	Sonbunia Subproject	DR				1	1	1		1					4	162	84	246			
43042	Atrai-Burigang Subproject	DR			1		1	1		1	1				5	133	95	228			
43043	Dehergati	DR		1		1	1	1		1	1				6	346	141	487			
43044	Garabunia	DR		1		1				1					3	17	6	23			
43045	Pok Khali-Naikkhongdia	WC (RD)			1	1	1	1		1					5	560	279	839			
43046	Thimchari-Purbakul	WC (RD)			1	1	1	1		1	1				6	220	51	271			
43047	Pashchim Dighulia	WC (RD)		1		1		1		1					4	25	9	34			
43048	Deshantorkathi-Garabunia	DR				1		1		1					3	20	7	27			
43049	Kapila-Krishnapur	DR						1		1	1				3	24	12	36			
43050	Madhya-Purba Rajapur	DR				1		1		1					3	20	8	28			
43051	Monirjheel-Sonaichhari Khal	WC (RD)		1	1	1		1		1	1				6	44	19	63			
43054	Mofizan Khal	WCD				1	1	1		1	1				5	129	53	182			
43055	Dholdholia	FMD			1	1	1	1		1	1				6	146	48	194			
43056	Latifpur-Etbarpur Khal	DR				1		1		1	1				4	28	12	40			
43057	Adabaria	FMD				1		1		1					3	20	7	27			
43058	Sabupura	DR				1		1		1					3	20	8	28			
43059	Kedarpur-Gobindapur	WCD				1		1		1	1				4	28	12	40			
43060	Ponahura FMD & WC	FMD				1	1	1		1					4	141	60	201			
43061	Bhagalpur Montola	FMD			1	1	1	1		1	1				6	268	167	435			
43062	Gouripur	DR				1	1	1		1					4	182	80	262			
43063	Kathurakandi Khal	WCD				1		1		1	1				4	28	12	40			
43064	Dier Khal	FMD				1		1		1	1				4	28	12	40			
43065	Bhangakha-Nyamatpur	WCD				1	1			1					3	23	12	35			
43066	Bhelumia	DR				1	1			1					3	174	57	231			
43067	Purba Char Madras	DR				1	1	1		1					4	172	51	223			
43068	Pashcim Char Madras	DR				1	1	1		1					4	205	75	280			
43069	Char Samaia	DR				1	1	1		1					4	153	72	225			
43070	Panchagram	DR				1	1	1		1					4	184	90	274			
43071	Bokrabari	WCD				1	1	1		1	1				5	152	124	276			
43072	Pathuria Kalibari	FMD		1		1		1		1	1				5	33	14	47			
44074	Swarupdaha Dhunar Khal	WCD		1		1	1	1		1	1				6	155	98	253			
44075	Losnabad Phalaghar	DR				1		1		1	1				4	36	15	51			
44077	Saorakathi	DR				1		1		1	1				4	27	12	39			
44078	Dhonkundi Beel	FMD				1	1	1		1	1				5	126	38	164			
44080	Challish kahania	DR				1		1		1					3	20	8	28			
44081	Thakurmallik	DR		1		1	1			1	1				5	198	103	301			

Subproject			Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
ID No.	Name	Type	Training Courses											Trainees			
44083	Amua Patikhalghata	DR				1		1		1	1			4	28	12	40
44084	Sitly Khal	DR		1		1		1		1	1			5	33	14	47
44092	Faridpur-Badurerjan	FMD				1	1	1						3	145	107	252
44093	Pashchim Joar	CAD		1		1		1		1	1	1		6	55	24	79
44094	Shree Khal	WCD				1	1	1		1	1			5	173	142	315
44095	Kalapania Khal	WCD				1		1		1	1	1		5	34	10	44
44097	Dudhal	FMD				1		1		1	1			4	28	10	38
44101	Bondukkhali Khal	FMD		1		1	1	1		1	1			6	211	116	327
44103	Gotkhali Chalitabunia	DR	1		1	1		1		1				5	30	13	43
44104	Sarengal	DR		1		1		1		1	1			5	33	14	47
44106	Sachilapur	DR				1		1		1	1			4	28	12	40
44107	Amail Indail	WCD				1	1	1		1	1			5	138	78	216
44111	Kashipur	DR				1	1	1		1	1			5	236	114	350
44112	Harirampur Beel	FMD		1		1	1	1		1	1			6	293	164	457
44113	Jhirai Bridge-Jangalpara Khal	FMD		1		1	1	1		1	1			6	276	149	425
44117	Deulkathi-Binnapara	DR				1	1	1		1				4	168	112	280
44119	Bangla Bazar-Gopalpur	WCD				1		1		1	1			4	29	14	43
44125	Chakhar	DR				1	1	1		1				4	233	96	329
44127	Haripasha-Pironda	DR		1		1	1	1		1	1			6	220	95	315
44130	Purandar Vushan Chandrer Bari-Sarbeshwar Ghat	WCD		1		2	2	1		1				7	285	223	508
44131	Guarekha	DR				1	1			1				3	163	56	219
44135	Debdun Bauisona Khal	WCD				1		1		1	1			4	28	12	40
44136	Paschim Chhayam Takta	DR				1	1	1		1	1			5	180	78	258
44143	Hetalia-Ballabhpur	DR			1	2	1	1		1				6	210	74	284
45145	Naimuri Alidaha	WCD		1		1		1		1	1			5	48	18	66
45148	Bottola Khal SP	WCD			1	1	1	1		1				5	183	100	283
45150	Chandpasha	WCD				1	1	1		1				4	174	74	248
45152	Biddanandapur	DR				1	1			1	1			4	174	55	229
45157	Satail Beel	DR			1	1		1		1				4	27	13	40
45168	Chalitabunia	WCD				1	1	1		1	1			5	192	86	278
45173	Charadi	WCD				2	1			1				4	171	77	248
45180	Tengrakhali Char Tengra	WCD				1		1		1	1			4	42	20	62
45205	Napitkhali-Burirchar Khal	DR			1	1	1	1		1				5	185	96	281
45211	Uttampur	DR			1	1		1		1				4	27	13	40
46240	Amtoly-Ruhita-Potkakhali	DR			1	1	1	1		1				5	196	108	304
Total			1	31	25	107	57	99	0	104	64	2	0	490	12234	6367	18601
Percent Gender														65.77		34.23	

Table B5: Agricultural Training Courses, Trainees Disaggregated by Gender for Subprojects

Subproject			Ag. Resource Management (Value Chain Management)	Agril. Demonstration (One season)	Agril. Production & Land Use Plan Preparation	Agril. Resource Management (Soil, land, water)	Demand led seed production, processing & preservation.	Demand led training (on farm water management)	Integrated crop management	Mapping land & water use	Review of SP Agril. Development & Effect Monitoring	Sustainable Agril. Production	Women on farm ICAs: Duck, Poultry & Cattle	Women on farm ICAs: Vegetable Cultivation	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses												Trainees			
41001	Nimai Khari Khal	WCD		1	1		1	1	1	1	1	1			8	135	60	195
41002	Purba Sarail Madhai Khal	WCD		1	1	1	1	1	1	1	1	1	1	1	11	127	110	237
41003	Baika-Barahapania	FMD		1	1	1	1		1	1	1	1		1	9	124	78	202
41004	Chak Govindapur-Aldadpur	WCD		1	1		1	1	1	1	1	1		1	9	163	87	250
41005	Kanakdia FMD	FMD		1	1	1	1		1	1		1		1	8	103	83	186
41006	Bhelabari Durgapur	WC (RD)		1	1	1	1	1	1	1	1	1	1	1	11	122	106	228
41007	Harwalchari	WC (RD)		1	1	1	1	1	1	1	1	1		1	10	160	97	257
41008	Goshinga-Sitalakha	CAD	1	1	1		1	1	1	1	1	1			9	135	48	183
41009	Kusta Thakurkandi FMD	FMD		1	1	1	1	1	1	1		1	1	1	10	113	123	236
41010	Swarnakhali Khal	FMD	1	1	1	1	1	1	1	1	1	1		1	11	175	109	284
41011	Noapara-Hazirdhara	WCD		1	1	1	1		1	1	1	1	1	1	10	130	139	269
42013	South-Gohat	CAD			1	1		1	1	1	1				6	98	36	134
42014	Udura Khal	CAD			1	1		1	1	1	1			1	7	82	66	148
42015	Sunduri Khal	CAD			1	1				1	1				4	55	24	79
42016	Gabua Fultala	WCD		1	1	1	1	1	1	1	1	1		1	10	151	69	220
42017	Nabinpur-Dholar Beel	FMD		1		1	1		1			1	1	1	7	74	130	204
42018	Kata Khal	FMD		1	1	1	1		1	1	1	1	1	1	10	130	146	276
42020	Ulushikhal	WCD			1		1	1		1		1			5	66	32	98
42021	Fasiakhali Irrigation	CAD			1	1			1	1	1	1			6	114	40	154
42022	Sapleza DR-1	DR			1		1	1	1	1	1	1	1		8	103	71	174
42023	Jalabaria DR-1	DR			1					1			1		3	34	46	80
42024	Nishanbaria-Gazimahmud	DR		1	1		1	1	1	1	1	1			8	114	56	170
42025	Kujail-Sodakhali-Ractodaha	WCD		1	1		1		1	1	1	1	1	1	9	103	97	200
42026	Ratan Dhara (Sadhukhali to Jhanjhanja)	WCD		1	1		1		1	1	1	1	1	1	9	96	74	170
42027	Nuruddin Khal	WCD									1			1	2	10	5	15
43028	Sapdanga Khal WC & DR	WCD			1		1		1	1	1	1		1	7	82	44	126
43029	Burichar-Nur Ali Charakgachhia	WCD		1	1	1	1	1	1	1				1	8	161	118	279
43030	Aylapatakata DR-1	DR		1	1	1	1	1	1	1		1			8	126	59	185
43031	Belgapur-Julupara	DR		1	1		1	1		1	1	1			7	75	36	111

Subproject			Ag. Resource Management (Value Chain Management)	Agril. Demonstration (One season)	Agril. Production & Land Use Plan Preparation	Agril. Resource Management (Soil, land, water)	Demand led seed production, processing & preservation.	Demand led training (on farm water management)	Integrated crop management	Mapping land & water use	Review of SP Agril. Development & Effect Monitoring	Sustainable Agril. Production	Women on farm IGAs: Duck, Poultry & Cattle	Women on farm IGAs: Vegetable Cultivation	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses												Trainees			
43032	Samaspara-Chalk Temukh-Islamgati	FMD		1	1	1	1	1		1		1		1	8	109	49	158
43033	Santoshpara-Chatra	DR		1	1	1	1		1	1		1			7	111	54	165
43034	Potka Khali DR & Irri.	DR			1	1	1		1	1				1	6	73	74	147
43035	Goal Kandi-Daturbari	FMD		1	1	1	1	1	1	1		1		1	9	237	144	381
43036	Badrabati (South)	DR		1				1	1	1	1	1			6	92	32	124
43037	Badrabati (North)	DR		1	1		1	1	1	1	1	1			8	109	49	158
43038	Silaur-Dogangy SP	DR							1						1	15	10	25
43039	Ghughudima-Khutbatala	CAD					1	1			1		1		4	42	38	80
43040	Singkhali	DR			1		1	1	1	1	1				6	93	38	131
43041	Sonbunia Subproject	DR		1	1	1	1	1	1	1		1		1	9	124	99	223
43042	Atrai-Burigang Subproject	DR		1		1	1		1	1		1		1	7	110	52	162
43043	Dehergati	DR			1			1		1				1	4	60	28	88
43044	Garabunia	DR			1		1	1	1	1		1			6	77	42	119
43045	Pok Khali-Naikkhongdia	WC (RD)		1	1	1		1	1	1		1			7	116	52	168
43046	Thimchari-Purbakul	WC (RD)			1					1		1			3	46	21	67
43047	Pashchim Dighulia	WC (RD)			1							1			2	26	11	37
43048	Deshantorkathi-Garabunia	DR					1	1				1		1	4	53	44	97
43049	Kapila-Krishnapur	DR			1		1	1	1	1				1	6	80	51	131
43050	Madhya-Purba Rajapur	DR			1		1		1	1					4	59	34	93
43051	Monirjheel-Sonaichhari Khal	WC (RD)		1	1	1		1	1	1					6	103	48	151
43054	Mofizan Khal	WCD					1	1	1	1		1		1	6	75	43	118
43055	Dholdholia	FMD					1	1	1			1		1	5	58	35	93
43056	Latifpur-Etbarpur Khal	DR			1		1	1	1	1		1	1	1	8	96	112	208
43057	Adabaria	FMD		1	1		1	1	1	1	1			1	8	134	84	218
43058	Sabupura	DR		1	1		1	1	1	1			1		7	105	84	189
43059	Kedarpur-Gobindapur	WCD			1				1	1			1	1	5	51	84	135
43060	Ponahura FMD & WC	FMD			1		1			1					3	42	26	68
43061	Bhagalpur Montola	FMD			1		1		1	1		1		1	6	111	92	203
43062	Gouripur	DR			1			1		1			1		4	46	53	99
43063	Kathurakandi Khal	WCD		1	1	2	1	1	1	1		1	1	1	11	146	140	286

Subproject			Ag. Resource Management (Value Chain Management)	Agril. Demonstration (One season)	Agril. Production & Land Use Plan Preparation	Agril. Resource Management (Soil, land, water)	Demand led seed production, processing & preservation.	Demand led training (on farm water management)	Integrated crop management	Mapping land & water use	Review of SP Agril. Development & Effect Monitoring	Sustainable Agril. Production	Women on farm ICAs: Duck, Poultry & Cattle	Women on farm ICAs: Vegetable Cultivation	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses												Trainees			
43064	Dier Khal	FMD		1	1	1			1	1		1			6	163	81	244
43065	Bhangakha-Nyamatpur	WCD						1				1		1	3	27	40	67
43066	Bhelumia	DR												1	1	8	5	13
43067	Purba Char Madras	DR												1	1	8	5	13
43068	Pashcim Char Madras	DR												1	1	8	5	13
43069	Char Samaia	DR												1	1	8	5	13
43070	Panchagram	DR					1								1	3	2	5
43071	Bokrabari	WCD			1					1					2	34	16	50
43072	Pathuria Kalibari	FMD		1	1	1		1	1	1		1		1	8	105	77	182
44074	Swarupdaha Dhunar Khal	WCD				1	1		1				1		4	28	46	74
44075	Losnabad Phalaghar	DR					1	1	1	1				1	5	63	43	106
44077	Saorakathi	DR			1		1			1					3	41	26	67
44078	Dhonkundi Beel	FMD			1		1	1		1		1			5	63	35	98
44080	Challish kahania	DR					1								1	3	2	5
44081	Thakurmallik	DR						1						1	2	23	15	38
44083	Amua Patikhalghata	DR					1								1	5	2	7
44084	Sitly Khal	DR					1	1							2	32	22	54
44092	Faridpur-Badurerjan	FMD			1		1	1		1					4	51	31	82
44093	Pashchim Joar	CAD			1				1	1		1			4	63	29	92
44094	Shree Khal	WCD			1		1	1		1		1			5	81	53	134
44095	Kalapania Khal	WCD			1			1	1	1					4	60	29	89
44097	Dudhal	FMD								1				1	2	26	18	44
44101	Bondukkhali Khal	FMD				1	1	1	1			1	1		6	72	63	135
44103	Gotkhali Chalitabunia	DR			1		1	1		1				1	5	65	41	106
44104	Sarengal	DR			1		1			1				1	4	45	36	81
44106	Sachilapur	DR			1		1			1				1	4	49	31	80
44107	Amail Indail	WCD			1		1	1	1	1		1			6	84	46	130
44111	Kashipur	DR			1					1				1	3	38	26	64
44112	Harirampur Beel	FMD					1		1				1	1	4	55	72	127
44113	Jhirai Bridge-Jangalpara Khal	FMD					1	1	1			1		1	5	56	37	93
44117	Deulkathi-Binnapara	DR			1		1			1				1	4	49	31	80

Subproject			Ag. Resource Management (Value Chain Management)	Agri. Demonstration (One season)	Agri. Production & Land Use Plan Preparation	Agri. Resource Management (Soil, land, water)	Demand led seed production, processing & preservation.	Demand led training (on farm water management)	Integrated crop management	Mapping land & water use	Review of SP Agri. Development & Effect Monitoring	Sustainable Agri. Production	Women on farm IGAs: Duck, Poultry & Cattle	Women on farm IGAs: Vegetable Cultivation	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses												Trainees			
44119	Bangla Bazar-Gopalpur	WCD					1								1	11	7	18
44125	Chakhar	DR					1		1	1				1	4	61	28	89
44127	Haripasha-Pironda	DR			1		1			1				1	4	50	26	76
44130	Purandar Vushan Chandrer Bari-Sarbeshwar Ghat	WCD					1	1	1					1	4	58	52	110
44131	Guarekha	DR			1			1		1			1		4	46	58	104
44135	Debdun Bauisona Khal	WCD			1					1					2	34	16	50
44136	Paschim Chhayam Takta	DR					1							1	2	12	15	27
44143	Hetalia-Ballabhpur	DR			1		1		1	1					4	56	36	92
45145	Naimuri Alidaha	WCD			1		1		1	1				1	5	82	79	161
45148	Bottola Khal SP	WCD					1								1	3	2	5
45150	Chandpasha	WCD					1	1						1	3	31	20	51
45152	Biddanandapur	DR					1								1	8	5	13
45157	Satail Beel	DR					1							1	2	17	5	22
45168	Chalitabunia	WCD					1								1	8	5	13
45173	Charadi	WCD					1								1	3	2	5
45180	Tengrakhal Char Tengra	WCD			1		1	1	1	1				1	6	76	81	157
45205	Napitkhali-Burirchar Khal	DR					1							1	2	7	12	19
45211	Uttampur	DR							1	1				1	3	41	28	69
46240	Amtoly-Ruhita-Potkakhali	DR					1								1	5	2	7
Total			2	34	71	31	78	54	62	77	27	49	20	59	564	7785	5361	13146
Percent Gender															59.22 40.78			

Table B-6: Fisheries Training Courses, Trainees Disaggregated by Gender for Subprojects

Subproject			Fisheries Program Management Course	Fish Production Technology (Pond Fish)	Rice Fish Culture	Fish Production Technology (Tilapia)	Fish Production Technology (Shing-Magur)	Fisheries Extension Support for Fish Prod.	Fish Production Technology (Fingerling)	Fish Production Technology (Golda)	Pond Fish & Fingerling Production for Women	Fisheries Refresher Training(ongoing subproject)	On-site Fisheries Training	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses											Trainees			
41001	Nimai Khari Khal	WCD	1	1	1	1	1	1	1		1			8	64	38	102
41002	Purba Sarail Madhai Khal	WCD	1	1	1	1	1		1					6	62	25	87
41003	Baika-Barahapania	FMD	1	1	1	1	1	1	1				1	8	89	31	120
41004	Chak Govindapur-Aldadpur	WCD	1	1	1	1	1	1	1					7	63	29	92
41005	Kanakdia FMD	FMD	1		1				1					3	42	3	45
41006	Bhelabari Durgapur	WC (RD)	1		1	1		1	1					5	44	18	62
41007	Harwalchari	WC (RD)	1		1				1					3	42	3	45
41008	Goshinga-Sitalakha	CAD	1	1	1	1	1	1	1					7	69	23	92
41009	Kusta Thakurkandi FMD	FMD	1	1	1	1			1					5	71	7	78
41010	Swarnakhali Khal	FMD	1	1	1			1	1				1	6	85	35	120
41011	Noapara-Hazirdhara	WCD	1	1		1								3	32	13	45
42013	South-Gohat	CAD	1	1	1	1	1	1	1					7	73	34	107
42014	Udura Khal	CAD	1	1	1	1	1	1	1					7	73	34	107
42015	Sunduri Khal	CAD	1		1				1					3	32	13	45
42016	Gabua Fultala	WCD	1	1	1	1		1	1				1	7	77	30	107
42017	Nabinpur-Dholar Beel	FMD	1	1	1	1		1	1				1	7	83	24	107
42018	Kata Khal	FMD	1	1		1		1	1				1	6	87	35	122
42020	Ulushikhali	WCD	1	1	1	1	1	1	1				1	8	91	31	122
42021	Fasiakhali Irrigation	CAD	1	1	1	1		1	1					6	69	8	77
42022	Sapleza DR-1	DR	1	1	1	1		1	1					6	63	29	92
42023	Jalabaria DR-1	DR	1	1	1	1		1	1					6	64	28	92
42024	Nishanbaria-Gazimahmud	DR	1		1				1					3	32	13	45
42025	Kujail-Sodakhali-Ractodaha	WCD	1	1	1	1	1	1	1					7	64	28	92
42026	Ratan Dhara (Sadhukhali to Jhanjhania)	WCD	1	1	1	1		1	1					6	54	23	77
42027	Nuruddin Khal	WCD	1	1	1	1		1	1					6	59	18	77
43028	Sapdanga Khal WC & DR	WCD	1	1		1		1	1					5	58	19	77
43029	Burichar-Nur Ali Charakgachhia	WCD	1	1	1			1	1				1	6	64	28	92
43030	Aylapatakata DR-1	DR	1		1	1								3	32	13	45
43031	Belgapur-Julupara	DR	1	1	1	1	1	1	1					7	74	33	107

Subproject			Fisheries Program Management Course	Fish Production Technology (Pond Fish)	Rice Fish Culture	Fish Production Technology (Tilapia)	Fish Production Technology (Shing-Magur)	Fisheries Extension Support for Fish Prod.	Fish Production Technology (Fingerling)	Fish Production Technology(Golda)	Pond Fish & Fingerling Production for Women	Fisheries Refresher Training(ongoing subproject)	On-site Fisheries Training	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses											Trainees			
43032	Samaspara-Chalk Temukh-Islamgati	FMD	1	1		1		1	1					5	43	19	62
43033	Santoshpara-Chatra	DR	1	1	1	1		1	1					6	64	28	92
43034	Potka Khali DR & Irri.	DR	1		1									2	21	9	30
43035	Goal Kandi-Daturbari	FMD	1		1	1		1	1					5	44	18	62
43036	Badrabati (South)	DR	1	1	1	1	1	1	1				1	8	83	39	122
43037	Badrabati (North)	DR	1	1		1			1				1	5	62	28	90
43038	Silaur-Dogangy SP	DR	1	1					1					3	32	13	45
43039	Ghughudima-Khutbatala	CAD	1						1					2	22	8	30
43040	Singkhali	DR	1	1					1				1	4	51	24	75
43041	Sonbunia Subproject	DR	1	1				1	1					4	34	13	47
43042	Atrai-Burigang Subproject	DR	1	1		1		1	1					5	45	17	62
43043	Dehergati	DR	1			1								2	23	1	24
43044	Garabunia	DR	1	1					1					3	31	14	45
43045	Pok Khali-Naikkhongdia	WC (RD)	1		1				1					3	42	3	45
43046	Thimchari-Purbakul	WC (RD)	1						1	1				3	41	12	53
43047	Pashchim Dighulia	WC (RD)	1							1				2	22	8	30
43048	Deshantorkathi-Garabunia	DR	1		1	1		1						4	35	14	49
43049	Kapila-Krishnapur	DR	1	1					1				1	4	55	20	75
43050	Madhya-Purba Rajapur	DR												0			0
43051	Monirjheel-Sonaichhari Khal	WC (RD)	1	1	1				1	1				5	52	23	75
43054	Mofizan Khal	WCD	1	1				1	1					4	33	14	47
43055	Dholdholia	FMD	1		1	1	1	1	1					6	54	23	77
43056	Latipur-Etbarpur Khal	DR	1	1		1			1					4	51	14	65
43057	Adabaria	FMD	1	1		1			1					4	52	23	75
43058	Sabupura	DR	1											1	12	3	15
43059	Kedarpur-Gobindapur	WCD	1	1					1					3	32	13	45
43060	Ponahura FMD & WC	FMD	1	1					1					3	32	13	45
43061	Bhagalpur Montola	FMD	1	1					1					3	32	13	45
43062	Gouripur	DR	1								1			2	14	13	27
43063	Kathurakandi Khal	WCD	1	1				1	1				1	5	54	23	77

Subproject			Fisheries Program Management Course	Fish Production Technology (Pond Fish)	Rice Fish Culture	Fish Production Technology (Tilapia)	Fish Production Technology (Shing-Magur)	Fisheries Extension Support for Fish Prod.	Fish Production Technology (Fingerling)	Fish Production Technology (Goida)	Pond Fish & Fingerling Production for Women	Fisheries Refresher Training(ongoing subproject)	On-site Fisheries Training	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses											Trainees			
43064	Dier Khal	FMD	1		1	1			1					4	51	9	60
43065	Bhangakha-Nyamatpur	WCD												0			0
43066	Bhelumia	DR	1											1	12	3	15
43067	Purba Char Madras	DR												0			0
43068	Pashcim Char Madras	DR												0			0
43069	Char Samaia	DR												0			0
43070	Panchagram	DR		1	1	1								3	22	23	45
43071	Bokrabari	WCD	1	1	1	1	1		1					6	62	28	90
43072	Pathuria Kalibari	FMD	1		1	1			1					4	50	10	60
44074	Swarupdaha Dhunar Khal	WCD	1	1	1	1		1	1				1	7	91	48	139
44075	Losnabad Phalaghar	DR	1						1					2	22	8	30
44077	Saorakathi	DR		1	1	1			1					4	32	28	60
44078	Dhonkundi Beel	FMD	1			1								2	22	8	30
44080	Challish kahania	DR												0			0
44081	Thakurmallik	DR	1											1	12	3	15
44083	Amua Patikhalghata	DR		1	1	1			1					4	32	28	60
44084	Sitly Khal	DR	1	1					1					3	32	13	45
44092	Faridpur-Badurerjan	FMD	1	1	1	1	1	1	1					7	64	28	92
44093	Pashchim Joar	CAD	1	1	1				1	1				5	52	20	72
44094	Shree Khal	WCD	1	1	1				1					4	52	17	69
44095	Kalapania Khal	WCD	1						1					2	30	6	36
44097	Dudhal	FMD												0			0
44101	Bondukkhali Khal	FMD		1	1	1		1						4	35	14	49
44103	Gotkhali Chalitabunia	DR		1										1	11	4	15
44104	Sarengal	DR	1	1		1			1					4	42	18	60
44106	Sachilapur	DR	1	1		1			1					4	42	18	60
44107	Amail Indail	WCD	1	1	1				1					4	42	15	57
44111	Kashipur	DR												0			0
44112	Harirampur Beel	FMD		1	1	1		1						4	34	15	49
44113	Jhirai Bridge-Jangalpara Khal	FMD	1	1	1				1		1			5	44	25	69
44117	Deulkathi-Binnapara	DR		1	1	1			1					4	42	18	60

Subproject			Fisheries Program Management Course	Fish Production Technology (Pond Fish)	Rice Fish Culture	Fish Production Technology (Tilapia)	Fish Production Technology (Shing-Magur)	Fisheries Extension Support for Fish Prod.	Fish Production Technology (Fingerling)	Fish Production Technology (Golda)	Pond Fish & Fingerling Production for Women	Fisheries Refresher Training (ongoing subproject)	On-site Fisheries Training	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses											Trainees			
44119	Bangla Bazar-Gopalpur	WCD							1					1	10	2	12
44125	Chakhar	DR				1							1	2	30	15	45
44127	Haripasha-Pironda	DR		1	1	1			1					4	32	28	60
44130	Purandar Vushan Chandrer Bari-Sarbeshwar Ghat	WCD	1		1									2	22	5	27
44131	Guarekha	DR									1			1	2	10	12
44135	Debdun Bauisona Khal	WCD												0			0
44136	Paschim Chhayam Takta	DR												0			0
44143	Hetalia-Ballabhpur	DR		1										1	11	4	15
45145	Naimuri Alidaha	WCD	1											1	30	6	36
45148	Bottola Khal SP	WCD												0			0
45150	Chandpasha	WCD												0			0
45152	Biddanandapur	DR												0			0
45157	Satal Beel	DR	1	1							1	1		4	33	18	51
45168	Chalitabunia	WCD									1			1	2	10	12
45173	Charadi	WCD												0			0
45180	Tengrakhali Char Tengra	WCD			1	1			1					3	38	7	45
45205	Napitkhali-Burirchar Khal	DR												0			0
45211	Uttampur	DR		1										1	11	4	15
46240	Amtoly-Ruhita-Potkakhali	DR												0			0
Total			78	62	52	51	14	35	70	4	6	1	14	387	4131	1645	5776
Percent Gender															71.52	28.48	

Table B7: Environment Training Courses, Trainees Disaggregated by Gender for Subprojects

Subproject			Orientation on Environmental Awareness & Local Resource Mgmt.	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses		Trainees		
41001	Nimai Khari Khal	WCD	1	1	15	15	30
41002	Purba Sarail Madhai Khal	WCD	2	2	30	30	60
41003	Baika-Barahapania	FMD	1	1	15	15	30
41004	Chak Govindapur-Aldadpur	WCD	1	1	15	15	30
41005	Kanakdia FMD	FMD		0			0
41006	Bhelabari Durgapur	WC (RD)	1	1	15	15	30
41007	Harwalchari	WC (RD)	1	1	15	15	30
41008	Goshinga-Sitalakha	CAD		0			0
41009	Kusta Thakurkandi FMD	FMD	1	1	15	15	30
41010	Swarnakhali Khal	FMD		0			0
41011	Noapara-Hazirdhara	WCD	1	1	15	15	30
42013	South-Gohat	CAD		0			0
42014	Udura Khal	CAD		0			0
42015	Sunduri Khal	CAD		0			0
42016	Gabua Fultala	WCD	1	1	15	15	30
42017	Nabinpur-Dholar Beel	FMD	1	1	15	15	30
42018	Kata Khal	FMD	1	1	15	15	30
42020	Ulushikhal	WCD		0			0
42021	Fasiakhali Irrigation	CAD		0			0
42022	Sapleza DR-1	DR		0			0
42023	Jalabaria DR-1	DR		0			0
42024	Nishanbaria-Gazimahmud	DR	1	1	15	15	30
42025	Kujail-Sodakhali-Ractodaha	WCD		0			0
42026	Ratan Dhara (Sadhukhali to Jhanjhania)	WCD		0			0
42027	Nuruddin Khal	WCD		0			0
43028	Sapdanga Khal WC & DR	WCD		0			0
43029	Burichar-Nur Ali Charakgachhia	WCD	1	1	15	15	30
43030	Aylapatakata DR-1	DR		0			0
43031	Belgapur-Julupara	DR		0			0
43032	Samaspura-Chalk Temukh-Islamgati	FMD		0			0
43033	Santoshpara-Chatra	DR		0			0
43034	Potka Khali DR & Irr.	DR		0			0
43035	Goal Kandi-Daturbari	FMD	2	2	30	30	60
43036	Badrabati (South)	DR		0			0
43037	Badrabati (North)	DR		0			0
43038	Silaur-Dogangy SP	DR		0			0
43039	Ghughudima-Khutbatala	CAD		0			0
43040	Singkhali	DR		0			0
43041	Sonbunia Subproject	DR		0			0
43042	Atrai-Burigang Subproject	DR		0			0
43043	Dehergati	DR		0			0
43044	Garabunia	DR		0			0
43045	Pok Khali-Naikkhongdia	WC (RD)	1	1	15	15	30
43046	Thimchari-Purbakul	WC (RD)		0			0
43047	Pashchim Dighulia	WC (RD)		0			0
43048	Deshantorkathi-Garabunia	DR		0			0
43049	Kapila-Krishnapur	DR		0			0
43050	Madhya-Purba Rajapur	DR		0			0
43051	Monirjheel-Sonaichhari Khal	WC (RD)	1	1	15	15	30
43054	Mofizan Khal	WCD		0			0
43055	Dholdholia	FMD	1	1	15	15	30
43056	Latifpur-Etbarpur Khal	DR		0			0
43057	Adabaria	FMD		0			0
43058	Sabupura	DR		0			0
43059	Kedarpur-Gobindapur	WCD		0			0
43060	Ponahura FMD & WC	FMD		0			0
43061	Bhagalpur Montola	FMD		0			0

Subproject			Orientation on Environmental Awareness & Local Resource Mgmt.	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses	Trainees			
43062	Gouripur	DR		0			0
43063	Kathurakandi Khal	WCD		0			0
43064	Dier Khal	FMD	1	1	15	15	30
43065	Bhangakha-Nyamatpur	WCD		0			0
43066	Bhelumia	DR		0			0
43067	Purba Char Madras	DR		0			0
43068	Pashcim Char Madras	DR		0			0
43069	Char Samaia	DR		0			0
43070	Panchagram	DR		0			0
43071	Bokrabari	WCD		0			0
43072	Pathuria Kalibari	FMD	1	1	15	15	30
44074	Swarupdaha Dhunar Khal	WCD		0			0
44075	Losnabad Phalaghar	DR		0			0
44077	Saorakathi	DR		0			0
44078	Dhonkundi Beel	FMD		0			0
44080	Challish kahlania	DR		0			0
44081	Thakurmallik	DR		0			0
44083	Amua Patikhalghata	DR		0			0
44084	Sitly Khal	DR		0			0
44092	Faridpur-Badurerjan	FMD		0			0
44093	Pashchim Joar	CAD		0			0
44094	Shree Khal	WCD	1	1	15	15	30
44095	Kalapania Khal	WCD		0			0
44097	Dudhal	FMD		0			0
44101	Bondukkhali Khal	FMD		0			0
44103	Gotkhali Chalitabunia	DR		0			0
44104	Sarengal	DR		0			0
44106	Sachilapur	DR		0			0
44107	Amail Indail	WCD		0			0
44111	Kashipur	DR		0			0
44112	Harirampur Beel	FMD		0			0
44113	Jhirai Bridge-Jangalpara Khal	FMD		0			0
44117	Deulkathi-Binnapara	DR		0			0
44119	Bangla Bazar-Gopalpur	WCD		0			0
44125	Chakhar	DR		0			0
44127	Haripasha-Pironda	DR		0			0
44130	Purandar Vushan Chandrer Bari-Sarbeswar Ghat	WCD		0			0
44131	Guarekha	DR		0			0
44135	Debdun Bauisona Khal	WCD		0			0
44136	Paschim Chhayam Takta	DR		0			0
44143	Hetalia-Ballabhpur	DR		0			0
45145	Naimuri Alidaha	WCD		0			0
45148	Bottola Khal SP	WCD		0			0
45150	Chandpasha	WCD		0			0
45152	Biddanandapur	DR		0			0
45157	Satail Beel	DR		0			0
45168	Chalitabunia	WCD		0			0
45173	Charadi	WCD		0			0
45180	Tengrakhal Char Tengra	WCD		0			0
45205	Napitkhali-Burirchar Khal	DR		0			0
45211	Uttampur	DR		0			0
46240	Amtoly-Ruhita-Potkakhali	DR		0			0
Total			22	22	330	330	660
Percent Gender					50.00	50.00	

Table B-8: Gender & Development Training Courses, Trainees Disaggregated by Gender for Subprojects

Subproject			Gender Awareness Training for WMCA Members	IGA for Livelihood Development	Role of Women in WMCA Decision Making	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses			Trainees			
41001	Nimai Khari Khal	WCD	1		1	2	15	45	60
41002	Purba Sarail Madhai Khal	WCD	1		1	2	15	45	60
41003	Baika-Barahapania	FMD	1	1	1	3	15	75	90
41004	Chak Govindapur-Aldadpur	WCD	1		1	2	15	45	60
41005	Kanakdia FMD	FMD	1		1	2	15	45	60
41006	Bhelabari Durgapur	WC (RD)	1		1	2	15	45	60
41007	Harwalchari	WC (RD)	1		1	2	15	45	60
41008	Goshinga-Sitalakha	CAD	1	1	1	3	15	75	90
41009	Kusta Thakurkandi FMD	FMD	1	1	1	3	15	75	90
41010	Swarnakhali Khal	FMD	1	1	1	3	15	75	90
41011	Noapara-Hazirdhara	WCD	1		1	2	15	45	60
42013	South-Gohat	CAD	1			1	15	15	30
42014	Udura Khal	CAD				0			0
42015	Sunduri Khal	CAD	1			1	15	15	30
42016	Gabua Fultala	WCD	1		1	2	15	45	60
42017	Nabinpur-Dholar Beel	FMD	1		1	2	30	60	90
42018	Kata Khal	FMD	1	1	1	3	15	75	90
42020	Ulushikhal	WCD	1		1	2	15	45	60
42021	Fasiakhali Irrigation	CAD	1		1	2	15	45	60
42022	Sapleza DR-1	DR	1		1	2	15	45	60
42023	Jalabaria DR-1	DR	1		1	2	15	45	60
42024	Nishanbaria-Gazimahmud	DR	1	1		2	15	45	60
42025	Kujail-Sodakhali-Ractodaha	WCD	1		1	2	15	45	60
42026	Ratan Dhara (Sadhukhali to Jhanjhanja)	WCD	1		1	2	15	45	60
42027	Nuruddin Khal	WCD	1			1	15	15	30
43028	Sapdanga Khal WC & DR	WCD				0			0
43029	Burichar-Nur Ali Charakgachhia	WCD	1	1	1	3	15	75	90
43030	Aylapatakata DR-1	DR				0			0
43031	Belgapur-Julupara	DR	1		1	2	15	45	60
43032	Samaspara-Chalk Temukh-Islamgati	FMD	1		1	2	32	53	85
43033	Santoshpara-Chatra	DR	1	1		2	15	75	90
43034	Potka Khali DR & Irr.	DR	1			1	15	15	30
43035	Goal Kandi-Daturbari	FMD	1	1	1	3	15	75	90
43036	Badrabati (South)	DR	1		1	2	15	45	60
43037	Badrabati (North)	DR	1		1	2	15	45	60
43038	Silaur-Dogangy SP	DR				0			0
43039	Ghughudima-Khutbatala	CAD			1	1		30	30
43040	Singkhali	DR	1			1	15	15	30
43041	Sonbunia Subproject	DR	1			1	15	15	30
43042	Atrai-Burigang Subproject	DR	1	1	1	3	15	75	90
43043	Dehergati	DR	1	1		2	15	45	60
43044	Garabunia	DR	1			1	15	15	30
43045	Pok Khali-Naikkhongdia	WC (RD)	1		1	2	15	45	60
43046	Thimchari-Purbakul	WC (RD)	1		1	2	15	45	60
43047	Pashchim Dighulia	WC (RD)	1		1	2	15	45	60
43048	Deshantorkathi-Garabunia	DR	1			1	15	15	30
43049	Kapila-Krishnapur	DR	1		1	2	15	45	60
43050	Madhya-Purba Rajapur	DR	1		1	2	15	45	60
43051	Monirjheel-Sonaichhari Khal	WC (RD)	1		1	2	15	45	60
43054	Mofizan Khal	WCD	1	1	1	3	15	75	90
43055	Dholdholia	FMD	1		1	2	15	45	60
43056	Latifpur-Etbarpur Khal	DR	1		1	2	15	45	60
43057	Adabaria	FMD	1		1	2	15	45	60
43058	Sabupura	DR	1		1	2	15	45	60

Subproject			Gender Awareness Training for WMCA Members	IGA for Livelihood Development	Role of Women in WMCA Decision Making	Number of Courses	Number of Trainees (Male)	Number of Trainees (Female)	Number of Trainees (Total)
ID No.	Name	Type	Training Courses				Trainees		
43059	Kedarpur-Gobindapur	WCD	1		1	2	15	45	60
43060	Ponahura FMD & WC	FMD	1		1	2	15	45	60
43061	Bhagalpur Montola	FMD				0			0
43062	Gouripur	DR	1			1	15	15	30
43063	Kathurakandi Khal	WCD	1			1	15	15	30
43064	Dier Khal	FMD				0			0
43065	Bhangakha-Nyamatpur	WCD				0			0
43066	Bhelumia	DR	1			1	15	15	30
43067	Purba Char Madras	DR				0			0
43068	Pashcim Char Madras	DR				1		30	30
43069	Char Samaia	DR				0			0
43070	Panchagram	DR				0			0
43071	Bokrabari	WCD	1			1	15	15	30
43072	Pathuria Kalibari	FMD				0			0
44074	Swarupdaha Dhunar Khal	WCD				0			0
44075	Losnabad Phalaghar	DR			1	1		30	30
44077	Saorakathi	DR	1			1	15	15	30
44078	Dhonkundi Beel	FMD	1			1	15	15	30
44080	Challish kahania	DR	1			1	15	15	30
44081	Thakurmallik	DR				0			0
44083	Amua Patikhalghata	DR	1			1	15	15	30
44084	Sitly Khal	DR	1			1	15	15	30
44092	Faridpur-Badurerjan	FMD	1			1	15	15	30
44093	Pashchim Joar	CAD	1		1	2	15	45	60
44094	Shree Khal	WCD	1			1	15	15	30
44095	Kalapania Khal	WCD	1		1	2	15	45	60
44097	Dudhal	FMD			1	1		30	30
44101	Bondukkhali Khal	FMD			1	1	0	30	30
44103	Gotkhali Chalitabunia	DR	1	1		2	15	45	60
44104	Sarengal	DR				0			0
44106	Sachilapur	DR				0			0
44107	Amail Indail	WCD	1			1	15	15	30
44111	Kashipur	DR			1	1		30	30
44112	Harirampur Beel	FMD				0			0
44113	Jhirai Bridge-Jangalpara Khal	FMD		1		1	0	30	30
44117	Deulkathi-Binnapara	DR				0			0
44119	Bangla Bazar-Gopalpur	WCD		1		1		30	30
44125	Chakhar	DR				0			0
44127	Haripasha-Pironda	DR				0			0
44130	Purandar Vushan Chandrer Bari-Sarbeswar Ghat	WCD				0			0
44131	Guarekha	DR				0			0
44135	Debdun Bauisona Khal	WCD				0			0
44136	Paschim Chhayam Takta	DR				0			0
44143	Hetalia-Ballabhpur	DR	1	1	1	3	15	75	90
45145	Naimuri Alidaha	WCD				0			0
45148	Bottola Khal SP	WCD		1		1		30	30
45150	Chandpasha	WCD		1		1		30	30
45152	Biddanandapur	DR				0			0
45157	Satail Beel	DR				0			0
45168	Chalitabunia	WCD	1			1	15	15	30
45173	Charadi	WCD		1		1	0	30	30
45180	Tengrakhali Char Tengra	WCD	1	1		2	15	45	60
45205	Napitkhali-Burirchar Khal	DR	1	1	1	3	15	65	80
45211	Uttampur	DR	1	1		2	15	45	60
46240	Amtoly-Ruhita-Potkakhali	DR		1		1		30	30
Total			71	23	49	144	1097	3298	4395
Percent Gender							24.96	75.04	

APPENDIX C

Table-C.1: Subproject wise Winter (Rabi+Boro) Cropped Area (ha) in 2016-17

Sl. No.	ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
1	SP41001	Nimai Khari Subproject (SP)	WCD	544.13	476.11	1020.24	607.29	643.72	1251.01	63.16	167.61	230.77	11.61	35.20	22.62
2	SP41002	Purba Sarail-Madhai SP	WCD	631.17	296.36	927.53	693.12	296.36	989.47	61.94	0.00	61.94	9.81	0.00	6.68
3	SP41003	Baika-Bara Hapania-Jhikutia SP	FMD	452.63	180.97	633.60	511.74	185.43	697.17	59.11	4.45	63.56	13.06	2.46	10.03
4	SP41004	Chak Gobindapur-Aldadpur SP	WCD	389.46	104.87	494.33	470.43	200.09	670.53	80.97	95.22	176.19	20.79	90.80	35.64
5	SP41005	Kanakdia SP	FMD	348.18	504.13	852.31	307.69	583.89	891.58	-40.49	79.76	39.27	-11.63	15.82	4.61
6	SP41006	Velabari-Durgapur SP	WC (RD)	443.93	392.91	836.84	502.02	550.61	1052.63	58.10	157.69	215.79	13.09	40.13	25.79
7	SP41007	Harwalchari SP	WC (RD)	253.04	5.67	258.70	334.01	35.22	369.23	80.97	29.55	110.53	32.00	521.43	42.72
8	SP41008	Gosinga-Sitalakha SP	CAD	180.16	305.26	485.43	303.64	322.67	626.32	123.48	17.41	140.89	68.54	5.70	29.02
9	SP41009	Kusta-Thakurkandi SP	FMD	283.40	124.70	408.10	283.40	136.03	419.43	0.00	11.34	11.34	0.00	9.09	2.78
10	SP41010	Swrnakhali khal SP	FMD	222.63	260.65	483.28	345.75	360.32	706.07	123.12	99.68	222.79	55.30	38.24	46.10
11	SP41011	Noapara-Hazirdhara Beel Sp	WCD	346.15	152.63	498.79	493.93	231.98	725.91	147.77	79.35	227.13	42.69	51.99	45.54
12	SP41013	South Gohat SP	CAD	736.03	390.28	1126.32	739.68	537.65	1277.33	3.64	147.37	151.01	0.50	37.76	13.41
13	SP41014	Udara Khal SP	CAD	634.82	717.81	1352.63	786.23	502.02	1288.26	151.42	215.79	-64.37	23.85	-30.06	-4.76
14	SP41015	Sundari Khal SP	CAD	785.02	393.12	1178.14	803.24	410.93	1214.17	18.22	17.81	36.03	2.32	4.53	3.06
15	SP42016	Gabua Fultala Subproject	WCD	98.38	208.10	306.48	141.70	435.22	576.92	43.32	227.13	270.45	44.03	109.14	88.24
16	SP42017	Nabinpur-Dharla Beel SP	FMD	878.95	10.12	889.07	846.15	99.19	945.34	-32.79	89.07	56.28	-3.73	880.00	6.33
17	SP42018	Kata Khal SP	FMD	208.10	6.07	214.17	214.57	6.07	220.65	6.48	0.00	6.48	3.11	0.00	3.02
18	SP42020	Ulushi Khal SP	WCD	469.23	111.34	580.57	545.34	163.97	709.31	76.11	52.63	128.74	16.22	47.27	22.18
19	SP42021	Fasiakhali Irrigation SP	CAD	195.14	117.81	312.96	269.23	131.58	400.81	74.09	13.77	87.85	37.97	11.68	28.07
20	SP42022	Sapleza SP	DR	0.00	219.03	219.03	0.00	276.92	276.92	0.00	57.89	57.89	-	26.43	26.43
21	SP42023	Jalabaria SP	DR	70.04	529.96	600.00	151.01	611.74	762.75	80.97	81.78	162.75	115.61	15.43	27.13
22	SP42024	Nishanbaria-Gazimahmud Subproject	DR	21.86	32.39	54.25	63.16	174.09	237.25	41.30	141.70	183.00	188.89	437.50	337.31
23	SP42025	Kujail-Raktadaha SP	WCD	636.03	108.50	744.53	636.03	108.50	744.53	0.00	0.00	0.00	0.00	0.00	0.00
24	SP42026	Ratandhara-Sodakhali SP	WCD	457.00	48.02	505.02	509.31	35.63	544.94	52.31	-12.39	39.92	11.45	-25.80	7.90
25	SP42027	Nuruddin Khal SP	WCD	102.83	90.28	193.12	153.85	120.65	274.49	51.01	30.36	81.38	49.61	33.63	42.14
26	SP42028	Sapdanga Khal SP	WCD	265.99	79.92	345.91	351.01	120.40	471.42	85.02	40.49	125.51	31.96	50.66	36.28
27	SP43029	Burichar-Nur Ali Charakgachia Subproject	WCD	0.00	499.60	499.60	0.00	469.23	469.23	0.00	-30.36	-30.36	-	-6.08	-6.08
28	SP43030	Aylapatakata Subproject	DR	0.00	323.99	323.99	0.00	527.53	527.53	0.00	203.54	203.54	-	62.82	62.82
29	SP43031	Balgaur-Julupara SP	DR	752.00	240.00	992.00	898.79	205.26	1104.05	146.79	-34.74	112.05	19.52	-14.47	11.30
30	SP43032	Chalk Temukh-Ismsgati SP	FMD	675.00	35.00	710.00	775.71	65.99	841.70	100.71	30.99	131.70	14.92	88.55	18.55
31	SP43033	Sontospara-Chatra SP	DR	768.83	135.00	903.83	719.84	161.94	881.78	-48.99	26.94	-22.04	-6.37	19.96	-2.44
32	SP43034	Potkakhali Subproject	DR	0.00	235.22	235.22	0.00	528.34	528.34	0.00	293.12	293.12	-	124.61	124.61
33	SP43035	Goalkandib	FMD	436.03	291.50	727.53	476.52	421.05	897.57	40.49	129.55	170.04	9.29	44.44	23.37

Sl. No.	ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
		Dhuturbari Khal SP													
34	SP43036	Bhadraboti South SP	DR	42.11	391.90	434.01	692.31	101.21	793.52	650.20	-290.69	359.51	1544.23	-74.17	82.84
35	SP43037	Bhadraboti Khal (North) SP	DR	31.98	206.48	238.46	230.77	263.16	493.93	198.79	56.68	255.47	621.52	27.45	107.13
36	SP43038	Shilaur-Dogangy Khal SP	DR	455.06	361.94	817.00	479.35	370.45	849.80	24.29	8.50	32.79	5.34	2.35	4.01
37	SP43039	Ghoghodima Khutbatala SP	CAD	41.82	15.79	57.61	81.78	19.03	100.81	39.96	3.24	43.20	95.57	20.51	74.99
38	SP43040	Singkhali Subproject	DR	0.00	159.92	159.92	0.00	228.74	228.74	0.00	68.83	68.83	-	43.04	43.04
39	SP43041	Sonbonia SP	DR	0.00	57.49	57.49	0.00	145.34	145.34	0.00	87.85	87.85	-	152.82	152.82
40	SP43042	Atrai-Burigonj SP	DR	700.00	294.96	994.96	1039.68	360.73	1400.40	339.68	65.77	405.44	48.53	22.30	40.75
41	SP43043	Dehergati SP	DR	155.06	270.45	425.51	190.28	333.60	523.89	35.22	63.16	98.38	22.72	23.35	23.12
42	SP43044	Garabania Subproject	DR	0.00	58.70	58.70	0.00	115.38	115.38	0.00	56.68	56.68	-	96.55	96.55
43	SP43045	Pokkhali Naikhongdia SP	WC (RD)	248.99	86.23	335.22	289.47	126.72	416.19	40.49	40.49	80.97	16.26	46.95	24.15
44	SP43046	Thim Chari Purbakul SP	WC (RD)	244.94	202.83	447.77	325.91	243.32	569.23	80.97	40.49	121.46	33.06	19.96	27.12
45	SP43047	Paschim Digulia SP	WC (RD)	297.98	188.66	486.64	378.95	229.15	608.10	80.97	40.49	121.46	27.17	21.46	24.96
46	SP43048	Deshantarkathi-Goaribonia Subproject	DR	0.00	419.84	419.84	0.00	570.04	570.04	0.00	150.20	150.20	-	35.78	35.78
47	SP43049	Kafila-Krishnanagar SP	DR	336.03	281.78	617.81	417.00	322.27	739.27	80.97	40.49	121.46	24.10	14.37	19.66
48	SP43050	Moddah-Purba Rajapur SP	DR	0.00	121.05	121.05	0.00	202.02	202.02	0.00	80.97	80.97	-	66.89	66.89
49	SP43051	Monirjheel-Sonaichari Khal SP	WC (RD)	129.96	153.85	283.81	303.64	194.33	497.98	173.68	40.49	214.17	133.64	26.32	75.46
50	SP43054	Mafijan SP	WCD	193.12	44.94	238.06	193.12	147.37	340.49	0.00	102.43	102.43	0.00	227.93	43.03
51	SP43055	Dholdholia SP	FMD	651.01	278.14	929.15	716.60	359.11	1075.71	65.59	80.97	146.56	10.07	29.11	15.77
52	SP43056	Latifpur-Etbarpur Khal SP	DR	365.18	371.66	736.84	388.66	408.50	797.17	23.48	36.84	60.32	6.43	9.91	8.19
53	SP43057	Adabaria SP	FMD	0.00	30.77	30.77	0.00	89.47	89.47	0.00	58.70	58.70	-	190.79	190.79
54	SP43058	Shabupura Khal SP	DR	6.88	163.56	170.45	47.37	244.53	291.90	40.49	80.97	121.46	588.24	49.50	71.26
55	SP43059	Kederpur-Gobindapur SP	WCD	134.82	408.10	542.91	182.19	417.41	599.60	47.37	9.31	56.68	35.14	2.28	10.44
56	SP43060	Ponahura SP	FMD	0.00	116.95	116.95	0.00	157.11	157.11	0.00	40.16	40.16	-	34.34	34.34
57	SP43061	Bhagalpur-Montala SP	FMD	0.00	242.91	242.91	0.00	311.74	311.74	0.00	68.83	68.83	-	28.33	28.33
58	SP43062	Gouripur SP	DR	212.15	152.23	364.37	252.63	192.71	445.34	40.49	40.49	80.97	19.08	26.60	22.22
59	SP43063	Kuthurakandi Khal	WCD	480.16	103.24	583.40	642.11	133.60	775.71	161.94	30.36	192.31	33.73	29.41	32.96
60	SP43064	Dier Khal SP	FMD	180.16	61.13	241.30	220.65	101.62	322.27	40.49	40.49	80.97	22.47	66.23	33.56
61	SP43065	Bhanga Kha-Niamatpur SP	WCD	204.05	301.21	505.26	285.02	382.19	667.21	80.97	80.97	161.94	39.68	26.88	32.05
62	SP43066	Bhelumia SP	DR	168.83	0.00	168.83	249.80	46.56	296.36	80.97	46.56	127.53	47.96	-	75.54
63	SP43067	Purba Char Madras SP	DR	397.98	328.74	726.72	483.00	369.23	852.23	85.02	40.49	125.51	21.36	12.32	17.27
64	SP43068	Paschim Char Madras SP	DR	319.03	368.83	687.85	485.02	407.29	892.31	165.99	38.46	204.45	52.03	10.43	29.72
65	SP43069	Char Samaia SP	DR	198.79	124.70	323.48	273.68	165.18	438.87	74.90	40.49	115.38	37.68	32.47	35.67
66	SP43070	Panchagram SP	DR	287.85	358.30	646.15	465.59	439.27	904.86	177.73	80.97	258.70	61.74	22.60	40.04
67	SP43071	Bokrabari SP	WCD	326.52	19.90	346.42	313.56	64.23	377.79	-12.96	44.33	31.38	-3.97	222.79	9.06

Sl. No.	ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
68	SP43072	Pathuria-Kalibari SP	FMD	326.72	17.81	344.53	342.11	55.47	397.57	15.38	37.65	53.04	4.71	211.36	15.39
69	SP44074	Swarupdaha Dhunar Khal SP	WCD	121.86	146.99	268.85	170.04	146.99	317.03	48.18	0.00	48.18	39.53	0.00	17.92
70	SP44075	Losnabad Phalaghar SP	DR	802.02	208.10	1010.12	829.96	263.16	1093.12	27.94	55.06	83.00	3.48	26.46	8.22
71	SP44077	Saorakathi SP	DR	155.06	270.45	425.51	195.55	351.42	546.96	40.49	80.97	121.46	26.11	29.94	28.54
72	SP44078	Dhankundi SP	FMD	375.71	261.94	637.65	509.72	101.62	611.34	134.01	-160.32	-26.32	35.67	-61.21	-4.13
73	SP44080	Chollish Kahania SP	DR	248.18	427.13	675.30	329.15	508.10	837.25	80.97	80.97	161.94	32.63	18.96	23.98
74	SP44081	Thakur Mollik SP	DR	76.92	507.21	584.14	86.23	508.10	594.33	9.31	0.88	10.19	12.11	0.17	1.75
75	SP44083	Amua Patikhalghata SP	DR	65.99	372.06	438.06	106.48	453.04	559.51	40.49	80.97	121.46	61.35	21.76	27.73
76	SP44084	Shitly Khal SP	DR	485.43	380.16	865.59	485.43	542.11	1027.53	0.00	161.94	161.94	0.00	42.60	18.71
77	SP44092	Faridpur Badurerjan SP	FMD	225.10	85.83	310.93	273.28	202.43	475.71	48.18	116.60	164.78	21.40	135.85	52.99
78	SP44093	Paschim Joar SP	CAD	136.03	10.12	146.15	217.00	10.12	227.13	80.97	0.00	80.97	59.52	0.00	55.40
79	SP44094	Shree Khal SP	WCD	296.36	397.57	693.93	377.33	438.06	815.38	80.97	40.49	121.46	27.32	10.18	17.50
80	SP44095	Kalapania Khal SP	WCD	304.86	0.00	304.86	426.32	34.41	460.73	121.46	34.41	155.87	39.84	-	51.13
81	SP44097	Dudhal SP	FMD	36.84	302.83	339.68	60.73	343.32	404.05	23.89	40.49	64.37	64.84	13.37	18.95
82	SP44101	Bonduk Khali Khal	FMD	131.17	89.88	221.05	212.15	111.34	323.48	80.97	21.46	102.43	61.73	23.87	46.34
83	SP44103	Gotkhali-Chalitabunia Khal SP	DR	419.84	399.60	819.43	500.81	480.57	981.38	80.97	80.97	161.94	19.29	20.26	19.76
84	SP44104	Sarengal SP	DR	170.04	234.82	404.86	251.01	275.30	526.32	80.97	40.49	121.46	47.62	17.24	30.00
85	SP44106	Sachilapur SP	DR	8.91	298.38	307.29	49.39	338.87	388.26	40.49	40.49	80.97	454.55	13.57	26.35
86	SP44107	Amali-Indail SP	WCD	393.93	410.08	804.01	474.90	491.05	965.95	80.97	80.97	161.94	20.55	19.75	20.14
87	SP44111	Kashipur SP	DR	857.89	51.01	908.91	902.83	131.98	1034.82	44.94	80.97	125.91	5.24	158.73	13.85
88	SP44112	Harirampur Beel SP	FMD	265.99	158.70	424.70	306.48	158.70	465.18	40.49	0.00	40.49	15.22	0.00	9.53
89	SP44113	Jhury Bridge-Jangalpara Khal SP	FMD	399.19	283.40	682.59	439.68	283.40	723.08	40.49	0.00	40.49	10.14	0.00	5.93
90	SP44117	Deulkathi Binnapara SP	DR	202.02	144.53	346.56	283.00	229.55	512.55	80.97	85.02	165.99	40.08	58.82	47.90
91	SP44119	Banglabazar-Gopalpur SP	WCD	85.02	104.86	189.88	85.02	145.34	230.36	0.00	40.49	40.49	0.00	38.61	21.32
92	SP44125	Chakhar SP	DR	391.90	309.31	701.21	472.87	349.80	822.67	80.97	40.49	121.46	20.66	13.09	17.32
93	SP44127	Haripasha Pironda SP	DR	319.03	368.83	687.85	351.82	449.80	801.62	32.79	80.97	113.77	10.28	21.95	16.54
94	SP44130	Purendar Vushan C.Bari S.Ghat SP	WCD	482.19	214.17	696.36	493.93	254.66	748.58	11.74	40.49	52.23	2.43	18.90	7.50
95	SP44131	Guarekha SP	DR	105.02	0.00	105.02	145.75	0.00	145.75	40.73	0.00	40.73	38.78	-	38.78
96	SP44135	Debdun-Bauisona Khal SP	WCD	123.08	114.57	237.65	163.56	155.06	318.62	40.49	40.49	80.97	32.89	35.34	34.07
97	SP44136	Paschim Chhayam Takta SP	DR	190.28	61.94	252.23	230.77	102.43	333.20	40.49	40.49	80.97	21.28	65.36	32.10
98	SP44143	Hetalia-Ballabhpur Khal SP	DR	110.12	229.55	339.68	150.61	270.04	420.65	40.49	40.49	80.97	36.76	17.64	23.84
99	SP45145	Naimuri Alidaha SP	WCD	352.00	100.58	452.58	368.42	181.42	549.84	16.42	80.83	97.26	4.67	80.37	21.49
100	SP45148	Bot-tola SP	WCD	0.00	225.91	225.91	20.24	286.64	306.88	20.24	60.73	80.97	-	26.88	35.84
101	SP45150	Chandpasha SP	WCD	80.16	365.18	445.34	120.65	446.15	566.80	40.49	80.97	121.46	50.51	22.17	27.27
102	SP45152	Biddyanandapur SP	DR	137.25	180.97	318.22	177.73	221.46	399.19	40.49	40.49	80.97	29.50	22.37	25.45

Sl. No.	ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
103	SP45157	Satail Beel SP	DR	150.20	110.12	260.32	190.69	150.61	341.30	40.49	40.49	80.97	26.95	36.76	31.10
104	SP45168	Chalitabunia-Ghatichara SP	WCD	101.21	204.05	305.26	141.70	285.02	426.72	40.49	80.97	121.46	40.00	39.68	39.79
105	SP45173	Charadi SP	WCD	33.20	170.85	204.05	73.68	211.34	285.02	40.49	40.49	80.97	121.95	23.70	39.68
106	SP45180	Tengrakhal Char Tengrakhal Khal SP	WCD	97.98	125.10	223.08	138.46	188.26	326.72	40.49	63.16	103.64	41.32	50.49	46.46
107	SP45205	Napitkhali Burirchar Khal SP	DR	0.00	495.00	495.00	0.00	547.63	547.63	0.00	52.63	52.63	-	10.63	10.63
108	SP45211	Uttampur SP	DR	0.00	268.00	268.00	0.00	330.75	330.75	0.00	62.75	62.75	-	23.42	23.42
109	SP46240	Amtoly Ruhita Potkakhali SP	DR	0.00	633.34	633.34	0.00	794.81	794.81	0.00	161.47	161.47	-	25.49	25.49
Grand Total (109 SPs)				28361.3	24115.5	52476.8	34718.0	29753.2	64471.2	6356.7	5637.7	11994.4	-	-	-
Average (109 SPs)				260.2	221.2	481.4	318.5	273.0	591.5	58.3	51.7	110.0	63.9	53.1	35.2

Source: Project studies

Table-C.2: Subproject wise Pre-Monsoon (Kharif-1) Cropped Area (ha) in 2016-17

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
1	41001	Nimai Khari Subproject (SP)	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
2	41002	Purba Sarail-Madhai SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
4	41004	Chak Gobindapur-Aldadpur SP	WCD	0.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	-	0.0	0.0
5	41005	Kanakdia SP	FMD	40.0	0.0	40.0	40.0	0.0	40.0	0.0	0.0	0.0	0.0	-	0.0
6	41006	Velabari-Durgapur SP	WC (RD)	38.0	321.0	359.0	89.1	267.2	356.3	51.1	-53.8	-2.8	134.3	-16.8	-0.8
7	41007	Harwalchari SP	WC (RD)	15.0	0.0	15.0	24.3	0.0	24.3	9.3	0.0	9.3	62.2	-	62.2
8	41008	Gosinga-Sitalakha SP	CAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
9	41009	Kusta-Thakurkandi SP	FMD	0.0	15.8	15.8	0.0	15.8	15.8	0.0	0.0	0.0	-	0.0	0.0
10	41010	Swrnakhal khal SP	FMD	52.2	66.6	118.8	60.7	72.9	133.6	8.5	6.3	14.8	16.4	9.4	12.5
11	41011	Noapara-Hazirdhara Beel Sp	WCD	0.0	13.0	13.0	20.2	0.0	20.2	20.2	-13.0	7.3	-	-100.0	56.3
12	42013	South Gohat SP	CAD	125.1	129.1	254.3	187.0	187.0	374.1	61.9	57.9	119.8	49.5	44.8	47.1
13	42014	Udara Khal SP	CAD	0.0	238.9	238.9	0.0	249.0	249.0	0.0	10.1	10.1	-	4.2	4.2
14	42015	Sundari Khal SP	CAD	0.0	138.1	138.1	0.0	245.7	245.7	0.0	107.7	107.7	-	78.0	78.0
15	42016	Gabua Fultala Subproject	WCD	529.1	53.8	583.0	628.3	0.0	628.3	99.2	-53.8	45.3	18.7	-100.0	7.8
16	42017	Nabinpur-Dharla Beel SP	FMD	0.0	21.1	21.1	105.3	50.6	155.9	105.3	29.6	134.8	-	140.4	640.4
17	42018	Kata Khal SP	FMD	0.0	14.2	14.2	0.0	14.2	14.2	0.0	0.0	0.0	-	0.0	0.0
18	42020	Ulushi Khal SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
19	42021	Fasiakhali Irrigation SP	CAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
20	42022	Sapleza SP	DR	90.3	23.9	114.2	252.2	23.9	276.1	161.9	0.0	161.9	179.4	0.0	141.8
21	42023	Jalabaria SP	DR	100.0	0.0	100.0	140.5	0.0	140.5	40.5	0.0	40.5	40.5	-	40.5
22	42024	Nishanbaria-Gazimahmud Subproject	DR	0.0	0.0	0.0	47.4	142.5	189.9	47.4	142.5	189.9	-	-	-

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
23	42025	Kujail-Raktadaha SP	WCD	0.0	159.9	159.9	0.0	182.2	182.2	0.0	22.3	22.3	-	13.9	13.9
24	42026	Ratandhara-Sodakhali SP	WCD	0.0	48.0	48.0	0.0	60.7	60.7	0.0	12.7	12.7	-	26.5	26.5
25	42027	Nuruddin Khal SP	WCD	0.0	65.2	65.2	0.0	65.2	65.2	0.0	0.0	0.0	-	0.0	0.0
26	43028	Sapdanga Khal SP	WCD	115.0	73.7	188.7	115.0	73.7	188.7	0.0	0.0	0.0	0.0	0.0	0.0
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	282.2	0.0	282.2	449.4	0.0	449.4	167.2	0.0	167.2	59.3	-	59.3
28	43030	Aylapatakata Subproject	DR	360.3	0.0	360.3	502.0	42.5	544.5	141.7	42.5	184.2	39.3	-	51.1
29	43031	Balgaur-Julupara SP	DR	0.0	240.0	240.0	0.0	251.0	251.0	0.0	11.0	11.0	-	4.6	4.6
30	43032	Chalk Temukh-Ismsgati SP	FMD	0.0	13.0	13.0	0.0	18.2	18.2	0.0	5.2	5.2	-	40.1	40.1
31	43033	Sontospara-Chatra SP	DR	0.0	48.2	48.2	0.0	60.7	60.7	0.0	12.6	12.6	-	26.1	26.1
32	43034	Potkakhali Subproject	DR	378.1	0.0	378.1	435.2	0.0	435.2	57.1	0.0	57.1	15.1	-	15.1
33	43035	Goalkandib Dhuturbari Khal SP	FMD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
34	43036	Bhadraboti South SP	DR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
35	43037	Bhadraboti Khal (North) SP	DR	0.0	0.0	0.0	212.6	85.0	297.6	212.6	85.0	297.6	-	-	-
36	43038	Shilaur-Dogangy Khal SP	DR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
37	43039	Ghoghodima Khutbatala SP	CAD	24.3	0.0	24.3	13.4	8.1	21.5	-10.9	8.1	-2.8	-45.0	-	-11.7
38	43040	Singkhali Subproject	DR	326.7	0.0	326.7	344.1	0.0	344.1	17.4	0.0	17.4	-	-	-
39	43041	Sonbonia SP	DR	0.0	0.0	0.0	0.0	31.2	31.2	0.0	31.2	31.2	-	-	-
40	43042	Atrai-Burigonj SP	DR	0.0	295.0	295.0	0.0	232.4	232.4	0.0	-62.6	-62.6	-	-21.2	-21.2
41	43043	Dehergati SP	DR	61.9	70.0	132.0	226.3	70.0	296.4	164.4	0.0	164.4	265.4	-	124.5
42	43044	Garabania Subproject	DR	300.0	0.0	300.0	290.7	0.0	290.7	-9.3	0.0	-9.3	-	-	-
43	43045	Pokkhali Naikhongdia SP	WC (RD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
44	43046	Thim Chari Purbakul SP	WC (RD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
45	43047	Paschim Digulia SP	WC (RD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
46	43048	Deshantarkathi-Goaribonia Subproject	DR	619.8	0.0	619.8	625.1	0.0	625.1	5.3	0.0	5.3	0.8	-	0.8
47	43049	Kafila-Krishnanagar SP	DR	57.1	63.2	120.2	57.1	63.2	120.2	0.0	0.0	0.0	0.0	-	0.0
48	43050	Moddah-Purba Rajapur SP	DR	59.9	0.0	59.9	140.9	0.0	140.9	81.0	0.0	81.0	-	-	-
49	43051	Monirjheel-Sonaichari Khal SP	WC (RD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
50	43054	Mafijan SP	WCD	0.0	15.0	15.0	0.0	20.2	20.2	0.0	5.3	5.3	-	-	35.1
51	43055	Dholdholia SP	FMD	0.0	66.8	66.8	0.0	66.8	66.8	0.0	0.0	0.0	-	-	0.0
52	43056	Latifpur-Etbarpur Khal SP	DR	347.0	0.0	347.0	468.4	0.0	468.4	121.5	0.0	121.5	35.0	-	35.0
53	43057	Adabaria SP	FMD	55.9	0.0	55.9	136.8	0.0	136.8	81.0	0.0	81.0	144.9	-	144.9
54	43058	Shabupura Khal SP	DR	348.2	0.0	348.2	348.2	0.0	348.2	0.0	0.0	0.0	0.0	-	0.0
55	43059	Kederpur-Gobindapur SP	WCD	282.2	0.0	282.2	363.2	0.0	363.2	81.0	0.0	81.0	28.7	-	28.7

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
56	43060	Ponahura SP	FMD	166.4	0.0	166.4	347.4	0.0	347.4	181.0	0.0	181.0	108.8	-	108.8
57	43061	Bhagalpur-Montala SP	FMD	359.9	0.0	359.9	489.9	0.0	489.9	130.0	0.0	130.0	36.1	-	36.1
58	43062	Gouripur SP	DR	115.0	0.0	115.0	115.0	0.0	115.0	0.0	0.0	0.0	-	-	-
59	43063	Kuthurakandi Khal	WCD	98.8	0.0	98.8	66.8	81.0	147.8	-32.0	81.0	49.0	-32.4	-	49.6
60	43064	Dier Khal SP	FMD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
61	43065	Bhanga Kha-Niamatpur SP	WCD	0.0	382.2	382.2	0.0	382.2	382.2	0.0	0.0	0.0	-	0.0	0.0
62	43066	Bhelumia SP	DR	127.9	0.0	127.9	176.5	0.0	176.5	48.6	0.0	48.6	-	-	-
63	43067	Purba Char Madras SP	DR	366.4	0.0	366.4	419.8	0.0	419.8	53.4	0.0	53.4	14.6	-	14.6
64	43068	Paschim Char Madras SP	DR	540.1	0.0	540.1	592.7	0.0	592.7	52.6	0.0	52.6	9.7	-	9.7
65	43069	Char Samaia SP	DR	97.2	0.0	97.2	157.9	0.0	157.9	60.7	0.0	60.7	62.5	-	62.5
66	43070	Panchagram SP	DR	182.6	201.2	383.8	263.6	201.2	464.8	81.0	0.0	81.0	44.3	0.0	21.1
67	43071	Bokrabari SP	WCD	0.0	9.9	9.9	0.0	9.9	9.9	0.0	0.0	0.0	-	-	0.0
68	43072	Pathuria-Kalibari SP	FMD	0.0	9.7	9.7	0.0	9.7	9.7	0.0	0.0	0.0	-	0.0	0.0
69	44074	Swarupdaha Dhunar Khal SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
70	44075	Losnabad Phalaghar SP	DR	74.9	36.4	111.3	70.9	97.2	168.0	-4.0	60.7	56.7	-	-	-
71	44077	Saorakathi SP	DR	61.9	70.0	132.0	110.5	70.0	180.6	48.6	0.0	48.6	78.4	0.0	36.8
72	44078	Dhankundi SP	FMD	0.0	0.0	0.0	81.0	29.1	110.1	81.0	29.1	110.1	-	-	-
73	44080	Cholish Kahania SP	DR	304.9	25.1	330.0	345.3	25.1	370.4	40.5	0.0	40.5	-	-	-
74	44081	Thakur Mollik SP	DR	162.7	30.0	192.7	345.3	25.1	370.4	182.7	-4.9	177.8	112.3	-	92.3
75	44083	Amua Patikhalghata SP	DR	304.0	0.0	304.0	304.0	0.0	304.0	0.0	0.0	0.0	0.0	-	0.0
76	44084	Shitly Khal SP	DR	198.4	234.0	432.4	238.9	234.0	472.9	40.5	0.0	40.5	20.4	-	9.4
77	44092	Faridpur Badurerjan SP	FMD	0.0	42.9	42.9	0.0	42.9	42.9	0.0	0.0	0.0	-	-	-
78	44093	Paschim Joar SP	CAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
79	44094	Shree Khal SP	WCD	43.7	0.8	44.5	43.7	0.8	44.5	0.0	0.0	0.0	0.0	-	0.0
80	44095	Kalapania Khal SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
81	44097	Dudhal SP	FMD	85.0	0.0	85.0	85.0	0.0	85.0	0.0	0.0	0.0	-	-	-
82	44101	Bonduk Khali Khal	FMD	47.0	25.9	72.9	70.4	25.9	96.4	23.5	0.0	23.5	50.0	-	32.2
83	44103	Gotkhali-Chalitabunia Khal SP	DR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
84	44104	Sarengal SP	DR	200.8	0.0	200.8	281.8	0.0	281.8	81.0	0.0	81.0	40.3	-	40.3
85	44106	Sachilapur SP	DR	442.9	0.0	442.9	442.9	0.0	442.9	0.0	0.0	0.0	-	-	-
86	44107	Amail-Indail SP	WCD	54.0	0.0	54.0	54.0	0.0	54.0	0.0	0.0	0.0	0.0	-	0.0
87	44111	Kashipur SP	DR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
88	44112	Harirampur Beel SP	FMD	0.0	66.0	66.0	0.0	66.0	66.0	0.0	0.0	0.0	-	-	0.0
89	44113	Jhiry Bridge-Jangalpara Khal SP	FMD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
90	44117	Deulkathi Binnapara SP	DR	742.1	0.0	742.1	782.6	0.0	782.6	40.5	0.0	40.5	5.5	-	5.5
91	44119	Banglabazar-Gopalpur SP	WCD	81.0	0.0	81.0	141.7	0.0	141.7	60.7	0.0	60.7	75.0	-	75.0
92	44125	Chakhar SP	DR	144.9	47.0	191.9	144.9	47.0	191.9	0.0	0.0	0.0	0.0	0.0	0.0
93	44127	Haripasha Pironda SP	DR	540.1	0.0	540.1	628.7	0.0	628.7	88.7	0.0	88.7	16.4	#DIV/0!	16.4
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
95	44131	Guarekha SP	DR	691.6	0.0	691.6	891.0	0.0	891.0	199.4	0.0	199.4	28.8	-	28.8

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
96	44135	Debdun-Bauisona Khal SP	WCD	59.1	39.7	98.8	59.1	39.7	98.8	0.0	0.0	0.0	0.0	0.0	0.0
97	44136	Paschim Chhayam Takta SP	DR	47.0	19.8	66.8	47.0	19.8	66.8	0.0	0.0	0.0	0.0	0.0	0.0
98	44143	Hetalia-Ballabhpur Khal SP	DR	140.1	0.0	140.1	180.6	0.0	180.6	40.5	0.0	40.5	28.9	-	28.9
99	45145	Naimuri Alidaha SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
100	45148	Bot-tola SP	WCD	910.9	0.0	910.9	910.9	0.0	910.9	0.0	0.0	0.0	0.0	-	0.0
101	45150	Chandpasha SP	WCD	340.1	170.9	510.9	421.1	170.9	591.9	81.0	0.0	81.0	23.8	0.0	15.8
102	45152	Biddyanandapur SP	DR	53.8	24.3	78.1	94.3	24.3	118.6	40.5	0.0	40.5	75.2	0.0	51.8
103	45157	Satail Beel SP	DR	85.8	0.0	85.8	106.1	0.0	106.1	20.2	0.0	20.2	23.6	-	23.6
104	45168	Chalitabunia-Ghatchara SP	WCD	176.1	0.0	176.1	176.1	0.0	176.1	0.0	0.0	0.0	0.0	-	0.0
105	45173	Charadi SP	WCD	106.9	0.0	106.9	147.4	0.0	147.4	40.5	0.0	40.5	37.9	-	37.9
106	45180	Tengrakhali Char Tengrakhali Khal SP	WCD	34.0	0.0	34.0	34.0	0.0	34.0	0.0	0.0	0.0	0.0	-	0.0
107	45205	Napitkhali Burirchar Khal SP	DR	55.0	0.0	55.0	107.6	0.0	107.6	52.6	0.0	52.6	95.7	-	95.7
108	45211	Uttampur SP	DR	286.0	0.0	286.0	470.0	0.0	470.0	184.0	0.0	184.0	64.3	-	64.3
109	46240	Amtoly Ruhita Potkakhali SP	DR	407.0	17.0	424.0	502.1	24.3	526.4	95.1	7.3	102.4	23.4	42.9	24.2
Grand Total (109 SPs)				13544.3	3647.2	17191.6	17272.1	4227.1	21499.2	3727.8	579.9	4307.7	-	-	-
Average (109 SPs)				124.3	33.5	157.7	158.5	38.8	197.2	34.2	5.3	39.5	39.4	#DIV/0!	36.2

Source: Project studies

Table-C.3: Subproject wise Monsoon (Kharif-2) Cropped Area (ha) in 2016-17

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
1	41001	Nimai Khari Subproject (SP)	WCD	764.0	0.0	764.0	809.7	0.0	809.7	45.7	0.0	45.7	6.0	-	6.0
2	41002	Purba Sarail-Madhai SP	WCD	683.8	0.0	683.8	683.8	0.0	683.8	0.0	0.0	0.0	0.0	-	0.0
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	159.9	0.0	159.9	192.3	0.0	192.3	32.4	0.0	32.4	20.3	-	20.3
4	41004	Chak Gobindapur-Aldadpur SP	WCD	378.1	0.0	378.1	418.6	0.0	418.6	40.5	0.0	40.5	10.7	-	10.7
5	41005	Kanakdia SP	FMD	120.9	0.0	120.9	144.1	0.0	144.1	23.2	0.0	23.2	19.2	-	19.2
6	41006	Velabari-Durgapur SP	WC (RD)	732.0	0.0	732.0	809.7	0.0	809.7	77.7	0.0	77.7	10.6	-	10.6
7	41007	Harwalchari SP	WC (RD)	260.7	0.0	260.7	392.7	0.0	392.7	132.0	0.0	132.0	50.6	-	50.6
8	41008	Gosinga-Sitalakha SP	CAD	385.0	0.0	385.0	489.9	0.0	489.9	104.9	0.0	104.9	27.2	-	27.2
9	41009	Kusta-Thakurkandi SP	FMD	93.1	0.0	93.1	190.3	0.0	190.3	97.2	0.0	97.2	104.3	-	104.3
10	41010	Swrnakhali khal SP	FMD	362.1	0.0	362.1	370.0	0.0	370.0	7.9	0.0	7.9	2.2	-	2.2
11	41011	Noapara-Hazirdhara Beel Sp	WCD	557.9	0.0	557.9	593.1	12.1	605.3	35.2	12.1	47.4	6.3	-	8.5
12	42013	South Gohat SP	CAD	618.2	0.0	618.2	530.8	0.0	530.8	-87.4	0.0	-87.4	-14.1	-	-14.1
13	42014	Udara Khal SP	CAD	306.9	0.0	306.9	635.6	0.0	635.6	328.7	0.0	328.7	107.1	-	107.1
14	42015	Sundari Khal SP	CAD	644.1	0.0	644.1	722.3	0.0	722.3	78.1	0.0	78.1	12.1	-	12.1
15	42016	Gabua Fultala Subproject	WCD	749.8	0.0	749.8	708.9	0.0	708.9	-40.9	0.0	-40.9	-5.5	-	-5.5

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
16	42017	Nabinpur-Dharla Beel SP	FMD	117.0	0.0	117.0	182.2	0.0	182.2	65.2	0.0	65.2	55.7	-	55.7
17	42018	Kata Khal SP	FMD	47.0	0.0	47.0	60.7	0.0	60.7	13.8	0.0	13.8	29.3	-	29.3
18	42020	Ulushi Khal SP	WCD	640.9	0.0	640.9	609.3	0.0	609.3	-31.6	0.0	-31.6	-4.9	-	-4.9
19	42021	Fasiakhali Irrigation SP	CAD	338.1	0.0	338.1	354.3	0.0	354.3	16.2	0.0	16.2	4.8	-	4.8
20	42022	Sapleza SP	DR	286.6	0.0	286.6	286.6	0.0	286.6	0.0	0.0	0.0	0.0	-	0.0
21	42023	Jalabaria SP	DR	600.0	0.0	600.0	688.3	0.0	688.3	88.3	0.0	88.3	14.7	-	14.7
22	42024	Nishanbaria-Gazimahmud Subproject	DR	739.7	0.0	739.7	577.7	0.0	577.7	-161.9	0.0	-161.9	-21.9	-	-21.9
23	42025	Kujail-Raktadaha SP	WCD	604.0	0.0	604.0	510.1	93.1	603.2	-93.9	93.1	-0.8	-15.5	-	-0.1
24	42026	Ratandhara-Sodakhali SP	WCD	501.0	0.0	501.0	510.1	0.0	510.1	9.1	0.0	9.1	1.8	-	1.8
25	42027	Nuruddin Khal SP	WCD	180.2	0.0	180.2	234.8	0.0	234.8	54.7	0.0	54.7	30.3	-	30.3
26	43028	Sapdanga Khal SP	WCD	114.6	0.0	114.6	155.1	0.0	155.1	40.5	0.0	40.5	35.3	-	35.3
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	476.9	0.0	476.9	499.2	0.0	499.2	22.3	0.0	22.3	4.7	-	4.7
28	43030	Aylapatakata Subproject	DR	716.6	0.0	716.6	561.9	0.0	561.9	-154.7	0.0	-154.7	-21.6	-	-21.6
29	43031	Balgaur-Julupara SP	DR	472.0	0.0	472.0	356.3	164.0	520.2	-115.7	164.0	48.2	-24.5	-	10.2
30	43032	Chalk Temukh-Ismsgati SP	FMD	390.0	0.0	390.0	404.9	58.7	463.6	14.9	58.7	73.6	3.8	-	18.9
31	43033	Sontospara-Chatra SP	DR	501.2	0.0	501.2	557.9	0.0	557.9	56.7	0.0	56.7	11.3	-	11.3
32	43034	Potkakhali Subproject	DR	598.8	0.0	598.8	515.0	0.0	515.0	-83.8	0.0	-83.8	-14.0	-	-14.0
33	43035	Goalkandib Dhuturbari Khal SP	FMD	354.0	0.0	354.0	434.9	0.0	434.9	80.9	0.0	80.9	22.8	-	22.8
34	43036	Bhadraboti South SP	DR	688.3	0.0	688.3	607.3	0.0	607.3	-81.0	0.0	-81.0	-11.8	-	-11.8
35	43037	Bhadraboti Khal (North) SP	DR	839.7	0.0	839.7	740.5	0.0	740.5	-99.2	0.0	-99.2	-11.8	-	-11.8
36	43038	Shilaur-Dogangy Khal SP	DR	524.3	0.0	524.3	613.4	0.0	613.4	89.1	0.0	89.1	17.0	-	17.0
37	43039	Ghoghodima Khutbatala SP	CAD	30.0	0.0	30.0	52.6	0.0	52.6	22.7	0.0	22.7	75.7	-	75.7
38	43040	Singkhali Subproject	DR	332.0	0.0	332.0	342.1	0.0	342.1	10.1	0.0	10.1	3.0	-	3.0
39	43041	Sonbonia SP	DR	208.0	0.0	208.0	208.1	0.0	208.1	0.1	0.0	0.1	0.0	-	0.0
40	43042	Atrai-Burigonj SP	DR	980.1	0.0	980.1	716.6	101.2	817.8	-263.5	101.2	-162.3	-26.9	-	-16.6
41	43043	Dehergati SP	DR	615.0	0.0	615.0	643.7	0.0	643.7	28.7	0.0	28.7	4.7	-	4.7
42	43044	Garabania Subproject	DR	300.0	0.0	300.0	287.4	0.0	287.4	-12.6	0.0	-12.6	-4.2	-	-4.2
43	43045	Pokkhali Naikhongdia SP	WC (RD)	663.2	0.0	663.2	663.2	0.0	663.2	0.0	0.0	0.0	0.0	-	0.0
44	43046	Thim Chari Purbakul SP	WC (RD)	755.1	0.0	755.1	782.2	0.0	782.2	27.1	0.0	27.1	3.6	-	3.6
45	43047	Paschim Digulia SP	WC (RD)	746.2	0.0	746.2	827.1	0.0	827.1	81.0	0.0	81.0	10.9	-	10.9
46	43048	Deshantarkathi-Goaribonia Subproject	DR	625.1	0.0	625.1	625.1	0.0	625.1	0.0	0.0	0.0	0.0	-	0.0
47	43049	Kafila-Krishnanagar SP	DR	606.9	0.0	606.9	712.1	0.0	712.1	105.3	0.0	105.3	17.3	-	17.3
48	43050	Moddah-Purba Rajapur SP	DR	308.9	0.0	308.9	389.9	0.0	389.9	81.0	0.0	81.0	26.2	-	26.2
49	43051	Monirjheel-Sonaichari Khal SP	WC (RD)	623.1	0.0	623.1	634.0	0.0	634.0	10.9	0.0	10.9	1.8	-	1.8
50	43054	Mafijan SP	WCD	121.9	0.0	121.9	115.0	0.0	115.0	-6.9	0.0	-6.9	-5.6	-	-5.6
51	43055	Dholdholia SP	FMD	378.9	0.0	378.9	500.8	0.0	500.8	121.9	0.0	121.9	32.2	-	32.2

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
52	43056	Latifpur-Etbarpur Khal SP	DR	461.1	0.0	461.1	502.8	0.0	502.8	41.7	0.0	41.7	9.0	-	9.0
53	43057	Adabaria SP	FMD	198.0	0.0	198.0	231.6	0.0	231.6	33.6	0.0	33.6	17.0	-	17.0
54	43058	Shabupura Khal SP	DR	174.1	0.0	174.1	340.1	0.0	340.1	166.0	0.0	166.0	95.3	-	95.3
55	43059	Kederpur-Gobindapur SP	WCD	457.9	0.0	457.9	589.5	0.0	589.5	131.6	0.0	131.6	28.7	-	28.7
56	43060	Ponahura SP	FMD	289.1	0.0	289.1	297.6	0.0	297.6	8.5	0.0	8.5	2.9	-	2.9
57	43061	Bhagalpur-Montala SP	FMD	558.3	0.0	558.3	595.1	0.0	595.1	36.8	0.0	36.8	6.6	-	6.6
58	43062	Gouripur SP	DR	657.1	0.0	657.1	701.6	0.0	701.6	44.5	0.0	44.5	6.8	-	6.8
59	43063	Kuthurakandi Khal	WCD	441.3	0.0	441.3	441.3	0.0	441.3	0.0	0.0	0.0	0.0	-	0.0
60	43064	Dier Khal SP	FMD	169.2	0.0	169.2	209.7	0.0	209.7	40.5	0.0	40.5	23.9	-	23.9
61	43065	Bhanga Kha-Niamatpur SP	WCD	498.0	0.0	498.0	659.9	0.0	659.9	161.9	0.0	161.9	32.5	-	32.5
62	43066	Bhelumia SP	DR	399.2	0.0	399.2	415.0	0.0	415.0	15.8	0.0	15.8	4.0	-	4.0
63	43067	Purba Char Madras SP	DR	768.8	0.0	768.8	768.8	0.0	768.8	0.0	0.0	0.0	0.0	-	0.0
64	43068	Paschim Char Madras SP	DR	723.1	0.0	723.1	854.3	0.0	854.3	131.2	0.0	131.2	18.1	-	18.1
65	43069	Char Samaia SP	DR	226.3	0.0	226.3	266.8	0.0	266.8	40.5	0.0	40.5	17.9	-	17.9
66	43070	Panchagram SP	DR	663.6	0.0	663.6	825.5	0.0	825.5	161.9	0.0	161.9	24.4	-	24.4
67	43071	Bokrabari SP	WCD	141.7	0.0	141.7	222.7	0.0	222.7	81.0	0.0	81.0	57.1	-	57.1
68	43072	Pathuria-Kalibari SP	FMD	142.1	0.0	142.1	223.1	0.0	223.1	81.0	0.0	81.0	57.0	-	57.0
69	44074	Swarupdaha Dhunar Khal SP	WCD	63.6	0.0	63.6	63.6	0.0	63.6	0.0	0.0	0.0	0.0	-	0.0
70	44075	Losnabad Phalaghar SP	DR	695.1	0.0	695.1	776.1	0.0	776.1	81.0	0.0	81.0	11.6	-	11.6
71	44077	Saorakathi SP	DR	615.0	0.0	615.0	716.2	0.0	716.2	101.2	0.0	101.2	16.5	-	16.5
72	44078	Dhankundi SP	FMD	459.9	0.0	459.9	504.0	0.0	504.0	44.1	0.0	44.1	9.6	-	9.6
73	44080	Chollish Kahania SP	DR	631.2	0.0	631.2	712.1	0.0	712.1	81.0	0.0	81.0	12.8	-	12.8
74	44081	Thakur Mollik SP	DR	523.1	0.0	523.1	550.2	0.0	550.2	27.1	0.0	27.1	5.2	-	5.2
75	44083	Amua Patikhalghata SP	DR	433.2	0.0	433.2	493.9	0.0	493.9	60.7	0.0	60.7	14.0	-	14.0
76	44084	Shitly Khal SP	DR	719.0	0.0	719.0	759.5	0.0	759.5	40.5	0.0	40.5	5.6	-	5.6
77	44092	Faridpur Badurerjan SP	FMD	229.1	0.0	229.1	287.4	0.0	287.4	58.3	0.0	58.3	25.4	-	25.4
78	44093	Paschim Joar SP	CAD	248.2	0.0	248.2	248.2	0.0	248.2	0.0	0.0	0.0	0.0	-	0.0
79	44094	Shree Khal SP	WCD	384.6	0.0	384.6	425.1	0.0	425.1	40.5	0.0	40.5	10.5	-	10.5
80	44095	Kalapania Khal SP	WCD	89.9	0.0	89.9	170.9	0.0	170.9	81.0	0.0	81.0	90.1	-	90.1
81	44097	Dudhal SP	FMD	242.1	0.0	242.1	347.4	0.0	347.4	105.3	0.0	105.3	43.5	-	43.5
82	44101	Bonduk Khali Khal	FMD	174.9	0.0	174.9	259.9	0.0	259.9	85.0	0.0	85.0	48.6	-	48.6
83	44103	Gotkhali-Chalitabunia Khal SP	DR	839.7	0.0	839.7	839.7	0.0	839.7	0.0	0.0	0.0	0.0	-	0.0
84	44104	Sarengal SP	DR	440.1	0.0	440.1	440.1	0.0	440.1	0.0	0.0	0.0	0.0	-	0.0
85	44106	Sachilapur SP	DR	410.1	0.0	410.1	450.6	0.0	450.6	40.5	0.0	40.5	9.9	-	9.9
86	44107	Amail-Indail SP	WCD	428.0	0.0	428.0	547.4	0.0	547.4	119.4	0.0	119.4	27.9	-	27.9
87	44111	Kashipur SP	DR	908.9	0.0	908.9	908.9	0.0	908.9	0.0	0.0	0.0	0.0	-	0.0
88	44112	Harirampur Beel SP	FMD	196.0	0.0	196.0	357.9	0.0	357.9	161.9	0.0	161.9	82.6	-	82.6
89	44113	Jhiry Bridge-Jangalpara Khal SP	FMD	346.2	0.0	346.2	427.1	0.0	427.1	81.0	0.0	81.0	23.4	-	23.4
90	44117	Deulkathi Binnapara SP	DR	802.8	0.0	802.8	883.8	0.0	883.8	81.0	0.0	81.0	10.1	-	10.1
91	44119	Banglabazar-Gopalpur SP	WCD	159.9	0.0	159.9	342.1	0.0	342.1	182.2	0.0	182.2	113.9	-	113.9
92	44125	Chakhar SP	DR	505.3	0.0	505.3	646.2	0.0	646.2	140.9	0.0	140.9	27.9	-	27.9
93	44127	Haripasha Pironda SP	DR	723.1	0.0	723.1	752.6	0.0	752.6	29.6	0.0	29.6	4.1	-	4.1
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	378.9	0.0	378.9	378.9	0.0	378.9	0.0	0.0	0.0	0.0	-	0.0
95	44131	Guarekha SP	DR	830.8	0.0	830.8	830.8	0.0	830.8	0.0	0.0	0.0	0.0	-	0.0

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Area			2016-17 Area			Incremental Area (ha)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
96	44135	Debdun-Bauisona Khal SP	WCD	219.0	0.0	219.0	259.5	0.0	259.5	40.5	0.0	40.5	18.5	-	18.5
97	44136	Paschim Chhayam Takta SP	DR	336.0	0.0	336.0	452.6	0.0	452.6	116.6	0.0	116.6	34.7	-	34.7
98	44143	Hetalia-Ballabhpur Khal SP	DR	387.0	0.0	387.0	468.0	0.0	468.0	81.0	0.0	81.0	20.9	-	20.9
99	45145	Naimuri Alidaha SP	WCD	330.0	0.0	330.0	370.4	0.0	370.4	40.4	0.0	40.4	12.3	-	12.3
100	45148	Bot-tola SP	WCD	922.3	0.0	922.3	922.3	0.0	922.3	0.0	0.0	0.0	0.0	-	0.0
101	45150	Chandpasha SP	WCD	591.1	0.0	591.1	611.3	0.0	611.3	20.2	0.0	20.2	3.4	-	3.4
102	45152	Biddyanandapur SP	DR	350.6	0.0	350.6	350.6	0.0	350.6	0.0	0.0	0.0	0.0	-	0.0
103	45157	Satail Beel SP	DR	170.0	0.0	170.0	242.9	0.0	242.9	72.9	0.0	72.9	42.9	-	42.9
104	45168	Chalitabunia-Ghatchara SP	WCD	651.8	0.0	651.8	781.4	0.0	781.4	129.6	0.0	129.6	19.9	-	19.9
105	45173	Charadi SP	WCD	472.1	0.0	472.1	634.0	0.0	634.0	161.9	0.0	161.9	34.3	-	34.3
106	45180	Tengrakhal Char Tengrakhal Khal SP	WCD	184.2	0.0	184.2	232.8	0.0	232.8	48.6	0.0	48.6	26.4	-	26.4
107	45205	Napitkhali Burirchar Khal SP	DR	549.8	0.0	549.8	549.8	0.0	549.8	0.0	0.0	0.0	0.0	-	0.0
108	45211	Uttampur SP	DR	449.4	0.0	449.4	526.7	0.0	526.7	77.3	0.0	77.3	17.2	-	17.2
109	46240	Amtoly Ruhita Potkakhali SP	DR	717.0	0.0	717.0	819.8	0.0	819.8	102.8	0.0	102.8	14.3	-	14.3
Grand Total (109 SPs)				49619.4	0.0	49619.4	54140.6	429.1	54569.7	4521.2	429.1	4950.4	-	-	-
Average (109 SPs)				455.2	0.0	455.2	496.7	3.9	500.6	41.5	3.9	45.4	16.9	-	17.6

Source: Project Studies

Table-C.4: Subproject wise Total Cropped Area in 2016-17

Sl. No.	SP ID No.	Subproject Name	SP Type	Net Area	Total Cropped Area (ha)-Base			Total Cropped Area(ha)-2016-17			Incremental Cropped Area		
				(ha)	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
1	41001	Nimai Khari Subproject (SP)	WCD	850.0	1308.1	476.1	1784.2	1417.0	643.7	2060.7	108.9	167.6	276.5
2	41002	Purba Sarail-Madhai SP	WCD	732.0	1315.0	296.4	1611.3	1376.9	296.4	1673.3	61.9	0.0	61.9
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	590.0	612.6	181.0	793.5	704.0	185.4	889.5	91.5	4.5	96.0
4	41004	Chak Gobindapur-Aldadpur SP	WCD	470.0	767.6	105.9	873.5	889.1	201.1	1090.1	121.5	95.2	216.7
5	41005	Kanakdia SP	FMD	730.0	509.1	504.1	1013.2	491.8	583.9	1075.7	-17.3	79.8	62.5
6	41006	Velabari-Durgapur SP	WC (RD)	893.0	1213.9	713.9	1927.9	1400.8	817.8	2218.6	186.9	103.9	290.8
7	41007	Harwalchari SP	WC (RD)	650.0	528.7	5.7	534.4	751.0	35.2	786.2	222.3	29.6	251.8
8	41008	Gosinga-Sitalakha SP	CAD	600.0	565.2	305.3	870.4	793.5	322.7	1116.2	228.3	17.4	245.7
9	41009	Kusta-Thakurkandi SP	FMD	340.0	376.5	140.5	517.0	473.7	151.8	625.5	97.2	11.3	108.5
10	41010	Swrnakhali khal SP	FMD	370.0	636.9	327.2	964.2	776.5	433.2	1209.7	139.6	106.0	245.5
11	41011	Noapara-Hazirdhara Beel Sp	WCD	682.0	904.0	165.6	1069.6	1107.3	244.1	1351.4	203.2	78.5	281.8
12	42013	South Gohat SP	CAD	936.0	1479.4	519.4	1998.8	1457.5	724.7	2182.2	-21.9	205.3	183.4
13	42014	Udara Khal SP	CAD	997.0	941.7	956.7	1898.4	1421.9	751.0	2172.9	480.2	-205.7	274.5
14	42015	Sundari Khal SP	CAD	983.0	1429.1	531.2	1960.3	1525.5	656.7	2182.2	96.4	125.5	221.9
15	42016	Gabua Fultala Subproject	WCD	750.0	1377.3	261.9	1639.3	1478.9	435.2	1914.2	101.6	173.3	274.9
16	42017	Nabinpur-Dharla Beel SP	FMD	932.0	996.0	31.2	1027.1	1133.6	149.8	1283.4	137.7	118.6	256.3
17	42018	Kata Khal SP	FMD	221.0	255.1	20.2	275.3	275.3	20.2	295.5	20.2	0.0	20.2
18	42020	Ulushi Khal SP	WCD	650.0	1110.1	111.3	1221.5	1154.7	164.0	1318.6	44.5	52.6	97.2
19	42021	Fasiakhali Irrigation SP	CAD	358.0	533.2	117.8	651.0	623.5	131.6	755.1	90.3	13.8	104.0
20	42022	Sapleza SP	DR	896.0	376.9	242.9	619.8	538.9	300.8	839.7	161.9	57.9	219.8
21	42023	Jalabaria SP	DR	700.0	770.0	530.0	1300.0	979.8	611.7	1591.5	209.7	81.8	291.5
22	42024	Nishanbaria-Gazimahmud	DR	750.0	761.5	32.4	793.9	688.3	316.6	1004.9	-73.3	284.2	210.9

Sl. No.	SP ID No.	Subproject Name	SP Type	Net Area	Total Cropped Area (ha)-Base			Total Cropped Area(ha)-2016-17			Incremental Cropped Area		
				(ha)	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
		Subproject											
23	42025	Kujail-Raktadaha SP	WCD	682.0	1240.1	268.4	1508.5	1146.2	383.8	1530.0	-93.9	115.4	21.5
24	42026	Ratandhara-Sodakhali SP	WCD	511.0	958.0	96.0	1054.0	1019.4	96.4	1115.8	61.4	0.3	61.8
25	42027	Nuruddin Khal SP	WCD	235.0	283.0	155.5	438.5	388.7	185.8	574.5	105.7	30.4	136.0
26	43028	Sapdanga Khal SP	WCD	650.0	495.5	153.6	649.1	621.1	194.1	815.1	125.5	40.5	166.0
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	500.0	759.1	499.6	1258.7	948.6	469.2	1417.8	189.5	-30.4	159.1
28	43030	Aylapatakata Subproject	DR	720.0	1076.9	324.0	1400.9	1064.0	570.0	1634.0	-13.0	246.0	233.1
29	43031	Balgaur-Julupara SP	DR	1000.0	1224.0	480.0	1704.0	1255.1	620.2	1875.3	31.1	140.2	171.3
30	43032	Chalk Temukh-Isismgati SP	FMD	740.0	1065.0	48.0	1113.0	1180.6	142.9	1323.5	115.6	94.9	210.5
31	43033	Sontospara-Chatra SP	DR	900.0	1270.0	183.2	1453.2	1277.7	222.7	1500.4	7.7	39.5	47.2
32	43034	Potkakhali Subproject	DR	597.0	976.9	235.2	1212.1	950.2	528.3	1478.5	-26.7	293.1	266.4
33	43035	Goalkandib Dhuturbari Khal SP	FMD	500.0	790.0	291.5	1081.5	911.4	421.1	1332.4	121.4	129.6	250.9
34	43036	Bhadraboti South SP	DR	700.0	730.4	391.9	1122.3	1299.6	101.2	1400.8	569.2	-290.7	278.5
35	43037	Bhadraboti Khal (North) SP	DR	850.0	871.7	206.5	1078.1	1183.8	348.2	1532.0	312.1	141.7	453.8
36	43038	Shilaur-Dogangy Khal SP	DR	623.0	979.4	361.9	1341.3	1092.7	370.4	1463.2	113.4	8.5	121.9
37	43039	Ghoghodima Khutbatala SP	CAD	105.0	96.1	15.8	111.9	147.8	27.1	174.9	51.7	11.3	63.0
38	43040	Singkhali Subproject	DR	570.0	658.7	159.9	818.6	686.2	228.7	915.0	27.5	68.8	96.4
39	43041	Sonbonia SP	DR	208.0	208.0	57.5	265.5	208.1	176.5	384.6	0.1	119.0	119.1
40	43042	Atrai-Burigonj SP	DR	1000.0	1680.1	590.0	2270.1	1756.3	694.3	2450.6	76.2	104.4	180.5
41	43043	Dehergati SP	DR	700.0	832.0	340.5	1172.5	1060.3	403.6	1464.0	228.3	63.2	291.5
42	43044	Garabania Subproject	DR	300.0	600.0	58.7	658.7	578.1	115.4	693.5	-21.9	56.7	34.8
43	43045	Pokkhali Naikhongdia SP	WC (RD)	663.0	912.1	86.2	998.4	952.6	126.7	1079.4	40.5	40.5	81.0
44	43046	Thim Chari Purbakul SP	WC (RD)	784.0	1000.0	202.8	1202.8	1108.1	243.3	1351.4	108.1	40.5	148.6
45	43047	Paschim Digulia SP	WC (RD)	881.0	1044.1	188.7	1232.8	1206.1	229.1	1435.2	161.9	40.5	202.4
46	43048	Deshantarkathi-Goaribonia Subproject	DR	625.0	1244.9	419.8	1664.8	1250.2	570.0	1820.2	5.3	150.2	155.5
47	43049	Kafila-Krishnanagar SP	DR	845.0	1000.0	344.9	1344.9	1186.2	385.4	1571.7	186.2	40.5	226.7
48	43050	Moddah-Purba Rajapur SP	DR	302.0	368.8	121.1	489.9	530.8	202.0	732.8	161.9	81.0	242.9
49	43051	Monirjheel-Sonaichari Khal SP	WC (RD)	637.0	753.0	153.8	906.9	937.7	194.3	1132.0	184.6	40.5	225.1
50	43054	Mafijan SP	WCD	200.0	315.0	59.9	374.9	308.1	167.6	475.7	-6.9	107.7	100.8
51	43055	Dholdholia SP	FMD	748.0	1030.0	344.9	1374.9	1217.4	425.9	1643.3	187.4	81.0	268.4
52	43056	Latifpur-Etbarpur Khal SP	DR	666.0	1173.3	371.7	1544.9	1359.9	408.5	1768.4	186.6	36.8	223.5
53	43057	Adabaria SP	FMD	270.0	253.8	30.8	284.6	368.4	89.5	457.9	114.6	58.7	173.3
54	43058	Shabupura Khal SP	DR	540.0	529.1	163.6	692.7	735.6	244.5	980.2	206.5	81.0	287.4
55	43059	Kederpur-Gobindapur SP	WCD	630.0	874.9	408.1	1283.0	1134.8	417.4	1552.2	259.9	9.3	269.2
56	43060	Ponahura SP	FMD	370.0	455.5	116.9	572.4	644.9	157.1	802.0	189.5	40.2	229.6
57	43061	Bhagalpur-Montala SP	FMD	714.0	918.2	242.9	1161.1	1085.0	311.7	1396.8	166.8	68.8	235.6
58	43062	Gouripur SP	DR	791.0	984.2	152.2	1136.4	1069.2	192.7	1261.9	85.0	40.5	125.5
59	43063	Kuthurakandi Khal	WCD	750.0	1020.2	103.2	1123.5	1150.2	214.6	1364.8	130.0	111.3	241.3
60	43064	Dier Khal SP	FMD	665.0	349.4	61.1	410.5	430.4	101.6	532.0	81.0	40.5	121.5
61	43065	Bhanga Kha- Niamatpur SP	WCD	665.0	702.0	683.4	1385.4	944.9	764.4	1709.3	242.9	81.0	323.9
62	43066	Bhelumia SP	DR	420.0	696.0	0.0	696.0	841.3	46.6	887.9	145.3	46.6	191.9
63	43067	Purba Char Madras SP	DR	769.0	1533.2	328.7	1861.9	1671.7	369.2	2040.9	138.5	40.5	178.9
64	43068	Paschim Char Madras SP	DR	890.0	1582.2	368.8	1951.0	1932.0	407.3	2339.3	349.8	38.5	388.3
65	43069	Char Samaia SP	DR	267.0	522.3	124.7	647.0	698.4	165.2	863.6	176.1	40.5	216.6
66	43070	Panchagram SP	DR	820.0	1134.0	559.5	1693.5	1554.7	640.5	2195.1	420.6	81.0	501.6

Sl. No.	SP ID No.	Subproject Name	SP Type	Net Area	Total Cropped Area (ha)-Base			Total Cropped Area(ha)-2016-17			Incremental Cropped Area		
				(ha)	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
67	43071	Bokrabari SP	WCD	353.0	468.2	29.8	498.0	536.2	74.1	610.4	68.0	44.3	112.3
68	43072	Pathuria-Kalibari SP	FMD	375.0	468.8	27.5	496.4	565.2	65.2	630.4	96.4	37.7	134.0
69	44074	Swarupdaha Dhunar Khal SP	WCD	841.0	185.4	147.0	332.4	233.6	147.0	380.6	48.2	0.0	48.2
70	44075	Losnabad Phalaghar SP	DR	900.0	1572.1	244.5	1816.6	1676.9	360.3	2037.2	104.9	115.8	220.6
71	44077	Saorakathi SP	DR	750.0	832.0	340.5	1172.5	1022.3	421.5	1443.7	190.3	81.0	271.3
72	44078	Dhankundi SP	FMD	509.0	835.6	261.9	1097.6	1094.7	130.8	1225.5	259.1	-131.2	127.9
73	44080	Chollish Kahania SP	DR	869.0	1184.2	452.2	1636.4	1386.6	533.2	1919.8	202.4	81.0	283.4
74	44081	Thakur Molik SP	DR	920.0	762.7	537.2	1299.9	981.8	533.2	1515.0	219.1	-4.0	215.1
75	44083	Amua Patikhalghata SP	DR	920.0	803.2	372.1	1175.3	904.5	453.0	1357.5	101.2	81.0	182.2
76	44084	Shitly Khal SP	DR	800.0	1402.8	614.2	2017.0	1483.8	776.1	2259.9	81.0	161.9	242.9
77	44092	Faridpur Badurerjan SP	FMD	310.0	454.3	128.7	583.0	560.7	245.3	806.1	106.5	116.6	223.1
78	44093	Paschim Joar SP	CAD	250.0	384.2	10.1	394.3	465.2	10.1	475.3	81.0	0.0	81.0
79	44094	Shree Khal SP	WCD	450.0	724.7	398.4	1123.1	846.2	438.9	1285.0	121.5	40.5	161.9
80	44095	Kalapania Khal SP	WCD	440.0	394.7	0.0	394.7	597.2	34.4	631.6	202.4	34.4	236.8
81	44097	Dudhal SP	FMD	415.0	364.0	302.8	666.8	493.1	343.3	836.4	129.1	40.5	169.6
82	44101	Bonduk Khali Khal	FMD	268.0	353.0	115.8	468.8	542.5	137.2	679.8	189.5	21.5	210.9
83	44103	Gotkhali-Chalitabunia Khal SP	DR	840.0	1259.5	399.6	1659.1	1340.5	480.6	1821.1	81.0	81.0	161.9
84	44104	Sarengal SP	DR	440.0	810.9	234.8	1045.7	972.9	275.3	1248.2	161.9	40.5	202.4
85	44106	Sachilapur SP	DR	480.0	861.9	298.4	1160.3	942.9	338.9	1281.8	81.0	40.5	121.5
86	44107	Amail-Indail SP	WCD	545.0	875.9	410.1	1286.0	1076.3	491.1	1567.4	200.4	81.0	281.4
87	44111	Kashipur SP	DR	909.0	1766.8	51.0	1817.8	1811.7	132.0	1943.7	44.9	81.0	125.9
88	44112	Harirampur Beel SP	FMD	396.0	461.9	224.7	686.6	664.4	224.7	889.1	202.4	0.0	202.4
89	44113	Jhiry Bridge-Jangalpara Khal SP	FMD	440.0	745.3	283.4	1028.7	866.8	283.4	1150.2	121.5	0.0	121.5
90	44117	Deulkathi Binnapara SP	DR	884.0	1747.0	144.5	1891.5	1949.4	229.6	2178.9	202.4	85.0	287.4
91	44119	Banglabazar-Gopalpur SP	WCD	690.0	325.9	104.9	430.8	568.8	145.3	714.2	242.9	40.5	283.4
92	44125	Chakhar SP	DR	815.0	1042.1	356.3	1398.4	1264.0	396.8	1660.7	221.9	40.5	262.3
93	44127	Haripasha Pironda SP	DR	890.0	1582.2	368.8	1951.0	1733.2	449.8	2183.0	151.0	81.0	232.0
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	500.0	861.1	214.2	1075.3	872.9	254.7	1127.5	11.7	40.5	52.2
95	44131	Guarekha SP	DR	996.0	1627.4	0.0	1627.4	1867.5	0.0	1867.5	240.2	0.0	240.2
96	44135	Debdun-Bauisona Khal SP	WCD	253.0	401.2	154.3	555.5	482.2	194.7	676.9	81.0	40.5	121.5
97	44136	Paschim Chhayam Takta SP	DR	337.0	573.3	81.8	655.1	730.4	122.3	852.6	157.1	40.5	197.6
98	44143	Hetalia-Ballabhpur Khal SP	DR	467.0	637.2	229.6	866.8	799.2	270.0	1069.2	161.9	40.5	202.4
99	45145	Naimuri Alidaha SP	WCD	380.0	682.0	100.6	782.6	738.8	181.4	920.3	56.8	80.8	137.7
100	45148	Bot-tola SP	WCD	922.0	1833.2	225.9	2059.1	1853.4	286.6	2140.1	20.2	60.7	81.0
101	45150	Chandpasha SP	WCD	616.0	1011.3	536.0	1547.4	1153.0	617.0	1770.0	141.7	81.0	222.7
102	45152	Biddyanandapur SP	DR	383.0	541.7	205.3	747.0	622.7	245.7	868.4	81.0	40.5	121.5
103	45157	Satail Beel SP	DR	290.0	406.1	110.1	516.2	539.7	150.6	690.3	133.6	40.5	174.1
104	45168	Chalitabunia-Ghatichara SP	WCD	850.0	929.1	204.0	1133.2	1099.2	285.0	1384.2	170.0	81.0	251.0
105	45173	Charadi SP	WCD	650.0	612.1	170.9	783.0	855.1	211.3	1066.4	242.9	40.5	283.4
106	45180	Tengrakhali Char Tengrakhali Khal SP	WCD	280.0	316.2	125.1	441.3	405.3	188.3	593.5	89.1	63.2	152.2
107	45205	Napitkhali Burirchar Khal SP	DR	550.0	604.8	495.0	1099.8	657.4	547.6	1205.1	52.6	52.6	105.3
108	45211	Uttampur SP	DR	550.0	735.4	268.0	1003.4	996.7	330.8	1327.5	261.4	62.8	324.1
109	46240	Amtoly Ruhita Potkakhali SP	DR	847.0	1124.0	650.3	1774.3	1322.0	819.1	2141.1	198.0	168.8	366.7
Grand Total (109 SPs)				67653.0	91525.0	27762.7	119287.7	106130.7	34409.5	140540.1	14605.6	6646.8	21252.4
Average (109 SPs)				620.7	839.7	254.7	1094.4	973.7	315.7	1289.4	134.0	61.0	195.0

Source: Project studies

Table-C.5: Subproject wise Winter (Rabi + Boro) Crop Production (MT) in 2016-17

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
1	41001	Nimai Khari Subproject (SP)	WCD	2548.6	5066.4	7614.9	3090.0	5899.0	8989.0	541.4	832.6	1374.0	21.2	16.4	18.0
2	41002	Purba Sarail-Madhai SP	WCD	3089.7	2771.6	5861.3	3399.4	2771.6	6171.0	309.7	0.0	309.7	10.0	0.0	5.3
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	2411.8	874.1	3285.8	2868.6	1018.4	3887.0	456.8	144.3	601.1	18.9	16.5	18.3
4	41004	Chak Gobindapur-Aldadpur SP	WCD	1893.9	912.0	2805.9	2428.7	1299.3	3728.0	534.8	387.4	922.1	28.2	42.5	32.9
5	41005	Kanakdia SP	FMD	1643.5	1829.6	3473.1	1603.6	1925.4	3529.0	-39.9	95.7	55.9	-2.4	5.2	1.6
6	41006	Velabari-Durgapur SP	WC (RD)	2048.8	3535.9	5584.6	2393.5	5821.8	8215.3	344.7	2286.0	2630.7	16.8	64.7	47.1
7	41007	Harwalchari SP	WC (RD)	1391.9	39.7	1431.6	1938.8	375.2	2314.0	546.9	335.5	882.4	39.3	845.7	61.6
8	41008	Gosinga-Sitalakha SP	CAD	934.9	1315.2	2250.2	1732.5	1615.7	3348.2	797.6	300.4	1098.0	85.3	22.8	48.8
9	41009	Kusta-Thakurkandi SP	FMD	926.3	433.7	1360.0	1444.5	566.4	2010.9	518.2	132.7	650.9	55.9	30.6	47.9
10	41010	Swmakhali khal SP	FMD	1179.0	475.8	1654.8	2088.6	996.5	3085.0	909.6	520.6	1430.2	77.1	109.4	86.4
11	41011	Noapara-Hazirhara Beel SP	WCD	1687.3	1407.7	3095.0	2913.5	1959.6	4873.1	1226.2	551.9	1778.1	72.7	39.2	57.4
12	42013	South Gohat SP	CAD	3681.6	1848.0	5529.5	3681.5	2866.3	6547.8	-0.1	1018.4	1018.3	0.0	55.1	18.4
13	42014	Udara Khal SP	CAD	2721.8	5359.5	8081.3	3929.0	4322.5	8251.5	1207.1	-1037.0	170.2	44.3	-19.3	2.1
14	42015	Sundari Khal SP	CAD	4065.8	6171.7	10237.5	4086.0	6597.5	10683.5	20.2	425.8	446.1	0.5	6.9	4.4
15	42016	Gabua Fultala Subproject	WCD	409.0	884.7	1293.7	700.0	2289.9	2989.9	291.0	1405.2	1696.2	71.1	158.8	131.1
16	42017	Nabinpur-Dharla Beel SP	FMD	3823.1	24.3	3847.4	4779.2	626.7	5405.9	956.1	602.4	1558.5	25.0	2479.0	40.5
17	42018	Kata Khal SP	FMD	903.1	14.6	917.7	931.2	14.6	945.8	28.1	0.0	28.1	3.1	0.0	3.1
18	42020	Ulushi Khal SP	WCD	2318.3	200.4	2518.6	2773.2	684.6	3457.8	454.9	484.3	939.2	19.6	241.7	37.3
19	42021	Fasiakhali Irrigation SP	CAD	1047.9	985.9	2033.8	1483.6	1214.9	2698.5	435.7	229.0	664.8	41.6	23.2	32.7
20	42022	Sapleza SP	DR	0.0	604.9	604.9	0.0	833.8	833.8	0.0	228.9	228.9	-	37.8	37.8
21	42023	Jalabaria SP	DR	385.3	4335.0	4720.2	830.7	5357.7	6188.3	445.4	1022.7	1468.1	115.6	23.6	31.1
22	42024	Nishanbaria-Gazimahmud Subproject	DR	118.8	100.4	219.2	390.0	447.5	837.5	271.2	347.1	618.3	228.3	345.7	282.1
23	42025	Kujail-Raktadaha SP	WCD	3459.3	1535.1	4994.4	3459.3	1535.1	4994.4	0.0	0.0	0.0	0.0	0.0	0.0
24	42026	Ratandhara-Sodakhali SP	WCD	2435.8	753.9	3189.7	2753.8	352.6	3106.4	318.0	-401.3	-83.3	13.1	-53.2	-2.6
25	42027	Nuruddin Khal SP	WCD	337.3	360.4	697.7	665.0	664.3	1329.3	327.7	303.9	631.6	97.1	84.3	90.5
26	43028	Sapdanga Khal SP	WCD	812.2	99.1	911.2	1091.1	147.6	1238.6	278.9	48.5	327.4	34.3	49.0	35.9
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	0.0	3724.1	3724.1	0.0	4128.0	4128.0	0.0	404.0	404.0	-	10.8	10.8
28	43030	Aylapatakata Subproject	DR	0.0	686.6	686.6	0.0	2036.5	2036.5	0.0	1349.9	1349.9	-	196.6	196.6
29	43031	Balgaur-Julupara SP	DR	3750.5	3768.0	7518.6	5627.3	2281.2	7908.5	1876.8	-1486.8	390.0	50.0	-39.5	5.2
30	43032	Chalk Temukh-Isimgati SP	FMD	3307.5	549.5	3857.0	4791.0	289.5	5080.4	1483.5	-260.0	1223.4	44.9	-47.3	31.7
31	43033	Sontospara-Chatra SP	DR	3987.9	2119.7	6107.6	3911.6	2300.0	6211.6	-76.3	180.3	104.0	-1.9	8.5	1.7
32	43034	Potkakhali Subproject	DR	0.0	947.1	947.1	0.0	2723.3	2723.3	0.0	1776.3	1776.3	-	187.6	187.6
33	43035	Goakandb Dhulubari Khal SP	FMD	2324.2	3206.6	5530.7	2621.2	4631.2	7252.3	297.0	1424.6	1721.6	12.8	44.4	31.1
34	43036	Bhadraboti South SP	DR	231.6	3605.8	3837.4	4104.0	1125.0	5229.0	3872.4	-2480.8	1391.6	1672.0	-68.8	36.3
35	43037	Bhadraboti Khal (	DR	175.9	1899.8	2075.7	1432.2	2427.5	3859.7	1256.3	527.8	1784.0	714.1	27.8	85.9

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
		North) SP													
36	43038	Shilaur-Dogangy Khal SP	DR	2339.7	1157.1	3496.8	2705.2	1325.6	4030.8	365.5	168.5	534.0	15.6	14.6	15.3
37	43039	Ghoghodima Khutbatala SP	CAD	207.2	90.6	297.8	462.1	125.0	587.1	254.9	34.4	289.3	123.0	38.0	97.2
38	43040	Singkhali Subproject	DR	0.0	224.0	224.0	0.0	3246.0	3246.0	0.0	3022.0	3022.0	-	1349.3	1349.3
39	43041	Sonbonia SP	DR	0.0	82.4	82.4	0.0	419.6	419.6	0.0	337.2	337.2	-	409.5	409.5
40	43042	Atrai-Burigonj SP	DR	3115.7	2537.0	5652.6	5218.8	4643.5	9862.3	2103.1	2106.5	4209.7	67.5	83.0	74.5
41	43043	Dehergati SP	DR	840.3	1446.9	2287.2	1057.5	2170.9	3228.4	217.2	724.0	941.2	25.8	50.0	41.2
42	43044	Garabania Subproject	DR	0.0	1214.2	1214.2	0.0	2565.0	2565.0	0.0	1350.8	1350.8	-	111.3	111.3
43	43045	Pokkhali Naikhongdia SP	WC (RD)	1337.0	775.6	2112.6	1554.4	1168.0	2722.4	217.4	392.4	609.8	16.3	50.6	28.9
44	43046	Thim Chari Purbakul SP	WC (RD)	1322.5	1486.6	2809.1	1759.7	1583.6	3343.3	437.2	97.0	534.2	33.1	6.5	19.0
45	43047	Paschim Digulia SP	WC (RD)	1623.6	1411.4	3035.0	2064.8	2047.0	4111.8	441.2	635.6	1076.8	27.2	45.0	35.5
46	43048	Deshantarkathi-Goaribonia Subproject	DR	0.0	588.0	588.0	0.0	1281.4	1281.4	0.0	693.4	693.4	-	117.9	117.9
47	43049	Kafila-Krishnanagar SP	DR	1838.5	1921.9	3760.3	2281.5	2557.5	4838.9	443.0	635.6	1078.6	24.1	33.1	28.7
48	43050	Moddah-Purba Rajapur SP	DR	0.0	262.7	262.7	0.0	683.7	683.7	0.0	421.0	421.0	-	160.3	160.3
49	43051	Monihari-Sonachari Khal SP	WC (RD)	705.6	1606.1	2311.6	1648.5	1978.6	3627.1	942.9	372.5	1315.4	133.6	23.2	56.9
50	43054	Matijan SP	WCD	935.9	408.1	1344.0	1034.1	1283.0	2317.1	98.3	874.9	973.1	10.5	214.4	72.4
51	43055	Dholdhola SP	FMD	3581.0	2418.2	5999.2	3941.8	2515.2	6457.0	360.8	97.0	457.8	10.1	4.0	7.6
52	43056	Latipur-Etbarpur Khal SP	DR	1884.3	4495.3	6379.6	2005.4	4547.5	6552.9	121.2	52.2	173.4	6.4	1.2	2.7
53	43057	Adabaria SP	FMD	0.0	40.2	40.2	0.0	114.2	114.2	0.0	74.0	74.0	-	184.2	184.2
54	43058	Shabupura Khal SP	DR	34.4	211.2	245.6	236.8	308.2	545.0	202.4	97.0	299.4	588.2	45.9	121.9
55	43059	Kederpur-Gobindapur SP	WCD	741.6	4573.0	5314.6	1002.2	4658.7	5660.9	260.6	85.7	346.2	35.1	1.9	6.5
56	43060	Ponahura SP	FMD	0.0	294.7	294.7	0.0	342.8	342.8	0.0	48.1	48.1	-	16.3	16.3
57	43061	Bhagalpur-Montala SP	FMD	0.0	633.8	633.8	0.0	905.7	905.7	0.0	272.0	272.0	-	42.9	42.9
58	43062	Gouripur SP	DR	1153.8	387.9	1541.8	1374.0	436.4	1810.5	220.2	48.5	268.7	19.1	12.5	17.4
59	43063	Kuthurakandi Khal	WCD	2134.8	551.5	2686.3	3080.0	723.0	3803.0	945.2	171.5	1116.7	44.3	31.1	41.6
60	43064	Dier Khal SP	FMD	991.0	562.5	1553.5	1213.7	935.0	2148.7	222.7	372.5	595.2	22.5	66.2	38.3
61	43065	Bhanga Kha-Niamatpur SP	WCD	817.0	2771.4	3588.4	1567.8	3889.3	5457.1	750.8	1117.9	1868.7	91.9	40.3	52.1
62	43066	Bhelumia SP	DR	911.6	0.0	911.6	1367.9	248.5	1616.3	456.3	248.5	704.8	50.1	-	77.3
63	43067	Purba Char Madras SP	DR	1313.3	1142.0	2455.3	1778.9	1611.7	3390.6	465.6	469.7	935.3	35.5	41.1	38.1
64	43068	Paschim Char Madras SP	DR	1052.8	894.2	1946.9	1917.9	1285.7	3203.5	865.1	391.5	1256.6	82.2	43.8	64.5
65	43069	Char Samaia SP	DR	623.7	575.5	1199.2	1014.0	1014.0	2028.0	390.4	438.4	828.8	62.6	76.2	69.1
66	43070	Panchagram SP	DR	1341.7	1704.6	3046.3	2449.5	2681.1	5130.6	1107.8	976.5	2084.3	82.6	57.3	68.4
67	43071	Bokrabari SP	WCD	1650.0	484.6	2134.7	1582.5	498.4	2080.9	-67.5	13.8	-53.7	-4.1	2.8	-2.5
68	43072	Pathuria-Kalibari SP	FMD	1780.7	392.4	2173.0	2121.5	664.1	2785.6	340.8	271.7	612.6	19.1	69.2	28.2
69	44074	Swarupdaha Dhunar Khal SP	WCD	665.2	680.4	1345.6	928.2	680.4	1608.6	263.0	0.0	263.0	39.5	0.0	19.5
70	44075	Losnabad Phalaghar SP	DR	3565.8	1315.3	4881.1	3895.0	1750.2	5645.2	329.2	434.9	764.1	9.2	33.1	15.7
71	44077	Saorakathi SP	DR	840.3	1446.9	2287.2	1086.8	1998.1	3084.8	246.4	551.2	797.6	29.3	38.1	34.9
72	44078	Dhankundi SP	FMD	1732.7	2103.8	3836.4	3056.0	515.0	3571.0	1323.3	-1588.8	-265.5	76.4	-75.5	-6.9
73	44080	Chollish Kahania SP	DR	1198.4	4550.8	5749.2	1589.4	4971.9	6561.3	391.0	421.1	812.1	32.6	9.3	14.1
74	44081	Thakur Molik SP	DR	371.5	3835.0	4206.4	416.4	4971.9	5388.3	45.0	1137.0	1181.9	12.1	29.6	28.1

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
75	44083	Amua Patikhalghata SP	DR	353.7	1236.0	1589.7	570.7	1665.2	2235.9	217.0	429.2	646.2	61.3	34.7	40.7
76	44084	Shitty Khal SP	DR	2022.8	1960.1	3982.9	2022.8	2478.4	4501.2	0.0	518.3	518.3	0.0	26.4	13.0
77	44092	Faridpur Badurejan SP	FMD	1172.6	1068.6	2241.2	1518.8	2690.0	4208.8	346.1	1621.4	1967.6	29.5	151.7	87.8
78	44093	Paschim Joar SP	CAD	741.2	93.1	834.3	1182.4	93.1	1275.5	441.2	0.0	441.2	59.5	0.0	52.9
79	44094	Shree Khal SP	WCD	1531.7	6262.4	7794.2	1977.1	6634.9	8612.1	445.4	372.5	817.9	29.1	5.9	10.5
80	44095	Kalapana Khal SP	WCD	1176.0	0.0	1176.0	1834.2	361.3	2195.4	658.2	361.3	1019.5	56.0	-	86.7
81	44097	Dudhal SP	FMD	187.2	1378.1	1565.3	308.6	1426.6	1735.1	121.4	48.5	169.9	64.8	3.5	10.9
82	44101	Bonduk Khal Khal	FMD	699.2	319.8	1019.0	1130.8	536.3	1667.1	431.6	216.6	648.2	61.7	67.7	63.6
83	44103	Golkhal-Chalabunia Khal SP	DR	1762.9	1748.6	3511.5	2659.6	2762.7	5422.3	896.7	1014.1	1910.8	50.9	58.0	54.4
84	44104	Sarengal SP	DR	850.1	679.4	1529.5	1254.9	1051.9	2306.8	404.8	372.5	777.3	47.6	54.8	50.8
85	44106	Sachilapur SP	DR	41.5	733.7	775.2	230.2	1106.2	1336.4	188.7	372.5	561.2	454.5	50.8	72.4
86	44107	Amail-Indal SP	WCD	1836.1	450.7	2286.8	2213.5	823.2	3036.7	377.4	372.5	749.9	20.6	82.6	32.8
87	44111	Kashipur SP	DR	4401.2	71.4	4472.6	4631.7	184.8	4816.6	230.5	113.4	343.9	5.2	158.7	7.7
88	44112	Harirampur Beel SP	FMD	1190.4	1823.0	3013.4	1404.2	1904.0	3308.2	213.8	81.0	294.8	18.0	4.4	9.8
89	44113	Jhity Bridge-Jangalpara Khal SP	FMD	2195.8	3832.7	6028.6	2418.5	3832.7	6251.3	222.7	0.0	222.7	10.1	0.0	3.7
90	44117	Deulkathi Binnapara SP	DR	1010.0	202.4	1212.4	1414.8	321.5	1736.3	404.8	119.1	523.9	40.1	58.8	43.2
91	44119	Banglabazar-Gopalpur SP	WCD	465.2	554.3	1019.4	465.2	973.1	1438.3	0.0	418.9	418.9	0.0	75.6	41.1
92	44125	Chakhar SP	DR	1983.4	1808.6	3792.0	2393.2	2181.1	4574.3	409.8	372.5	782.3	20.7	20.6	20.6
93	44127	Haripasha Pironda SP	DR	1052.8	894.2	1946.9	868.4	991.2	1859.6	-184.4	97.0	-87.4	-17.5	10.8	-4.5
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	2652.4	561.9	3214.2	2716.9	610.4	3327.3	64.6	48.5	113.1	2.4	8.6	3.5
95	44131	Guarekha SP	DR	571.2	0.0	571.2	792.7	0.0	792.7	221.5	0.0	221.5	38.8	-	38.8
96	44135	Debdun-Baaisona Khal SP	WCD	658.5	334.5	993.0	875.1	383.1	1258.2	216.6	48.6	265.2	32.9	14.5	26.7
97	44136	Paschim Chhayam Taka SP	DR	998.6	629.3	1627.9	1218.0	677.9	1895.9	219.4	48.6	268.0	22.0	7.7	16.5
98	44143	Hetala Ballabhpur Khal SP	DR	437.1	1011.8	1448.9	655.9	1407.8	2063.7	218.8	396.0	614.8	50.1	39.1	42.4
99	45145	Naimuri Alidaha SP	WCD	1565.0	304.2	1869.2	1638.0	401.1	2039.1	73.0	96.8	169.8	4.7	31.8	9.1
100	45148	Bot-tola SP	WCD	0.0	316.4	316.4	107.6	944.4	1052.0	107.6	628.0	735.6	-	198.5	232.5
101	45150	Chandpasha SP	WCD	410.9	4444.3	4855.2	618.4	5189.3	5807.7	207.5	745.0	952.5	50.5	16.8	19.6
102	45152	Biddyanandapur SP	DR	601.7	805.4	1407.1	801.7	854.0	1655.7	200.0	48.6	248.6	33.2	6.0	17.7
103	45157	Satail Beel SP	DR	742.0	489.3	1231.3	942.0	537.8	1479.8	200.0	48.5	248.5	27.0	9.9	20.2
104	45168	Chalitabunia-Ghatichara SP	WCD	500.0	591.5	1091.5	700.0	1012.5	1712.5	200.0	421.0	621.0	40.0	71.2	56.9
105	45173	Charadi SP	WCD	164.8	388.3	553.2	385.8	839.1	1224.9	221.0	450.7	671.7	134.1	116.1	121.4
106	45180	Tengrakhal Char Tengrakhal Khal SP	WCD	392.3	336.2	728.5	554.4	917.3	1471.7	162.1	581.1	743.2	41.3	172.8	102.0
107	45205	Napikhal Burichar Khal SP	DR	0.0	693.2	693.2	0.0	1258.9	1258.9	0.0	565.6	565.6	-	81.6	81.6
108	45211	Uttampur SP	DR	0.0	375.3	375.3	0.0	988.6	988.6	0.0	613.3	613.3	-	163.4	163.4
109	46240	Amtoly Ruhita Potkakhali SP	DR	0.0	1064.5	1064.5	0.0	1980.3	1980.3	0.0	915.9	915.9	-	86.0	86.0
Grand Total (109 SPs)				137071.8	151187.1	288258.9	179860.5	193512.4	373372.9	42788.7	42325.3	85114.0	6919.2	10313.5	7090.8
Average (109 SPs)				1257.5	1387.0	2644.6	1650.1	1775.3	3425.4	392.6	388.3	780.9	74.4	97.3	65.1

Source: Project studies

Table-C.6: Subproject wise Pre-Monsoon (Kharif-1) Crop Production (MT) in 2016-17

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
1	41001	Nimai Khari Subproject (SP)	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
2	41002	Purba Sarail-Madhai SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
4	41004	Chak Gobindapur-Aldadpur SP	WCD	0.0	2.5	2.5	0.0	2.5	2.5	0.0	0.0	0.0	-	0.0	0.0
5	41005	Kanakdia SP	FMD	76.1	0.0	76.1	76.1	0.0	76.1	0.0	0.0	0.0	0.0	-	0.0
6	41006	Velabari-Durgapur SP	WC (RD)	72.3	770.5	842.8	303.6	699.6	1003.2	231.3	-70.9	160.4	319.9	-9.2	19.0
7	41007	Harwalchari SP	WC (RD)	62.9	0.0	62.9	103.8	0.0	103.8	40.9	0.0	40.9	65.0	-	65.0
8	41008	Gosinga-Sitalakha SP	CAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
9	41009	Kusta-Thakurkandi SP	FMD	0.0	37.9	37.9	0.0	37.9	37.9	0.0	0.0	0.0	-	0.0	0.0
10	41010	Swarnakhal SP	FMD	214.0	159.8	373.8	292.5	190.8	483.3	78.5	31.0	109.5	36.7	19.4	29.3
11	41011	Noapara-Hazirhara Beel SP	WCD	0.0	31.1	31.1	78.0	0.0	78.0	78.0	-31.1	46.9	-	-100.0	150.8
12	42013	South Gohat SP	CAD	237.6	310.1	547.7	635.3	508.2	1143.5	397.6	198.1	595.8	167.3	63.9	108.8
13	42014	Udara Khal SP	CAD	0.0	573.5	573.5	0.0	682.7	682.7	0.0	109.2	109.2	-	19.0	19.0
14	42015	Sundari Khal SP	CAD	0.0	331.5	331.5	0.0	667.7	667.7	0.0	336.2	336.2	-	101.4	101.4
15	42016	Gabua Fultala Subproject	WCD	1360.9	129.3	1490.2	2561.6	0.0	2561.6	1200.7	-129.3	1071.4	88.2	-100.0	71.9
16	42017	Nabinpur-Dharla Beel SP	FMD	0.0	50.5	50.5	284.4	104.0	388.4	284.4	53.5	337.9	-	105.8	668.4
17	42018	Kata Khal SP	FMD	0.0	34.0	34.0	0.0	34.0	34.0	0.0	0.0	0.0	-	0.0	0.0
18	42020	Ulushi Khal SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
19	42021	Fasiakhali Irrigation SP	CAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
20	42022	Sapleza SP	DR	270.7	156.5	427.2	885.3	156.5	1041.8	614.6	0.0	614.6	227.0	0.0	143.9
21	42023	Jalabaria SP	DR	138.9	0.0	138.9	229.7	0.0	229.7	90.7	0.0	90.7	65.3	-	65.3
22	42024	Nishanbaria-Gazimahmud Subproject	DR	0.0	0.0	0.0	175.5	422.4	597.9	175.5	422.4	597.9	-	-	-
23	42025	Kujail-Raktadaha SP	WCD	0.0	383.9	383.9	0.0	1050.0	1050.0	0.0	666.1	666.1	-	173.5	173.5
24	42026	Ratandhara-Sodakhali SP	WCD	0.0	115.2	115.2	0.0	300.0	300.0	0.0	184.8	184.8	-	160.3	160.3
25	42027	Nuruddin Khal SP	WCD	0.0	156.5	156.5	0.0	156.5	156.5	0.0	0.0	0.0	-	0.0	0.0
26	43028	Sapdanga Khal SP	WCD	215.8	176.9	392.7	215.8	176.9	392.7	0.0	0.0	0.0	0.0	0.0	0.0
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	1157.0	0.0	1157.0	2220.0	0.0	2220.0	1063.0	0.0	1063.0	91.9	-	91.9
28	43030	Aylapatakata Subproject	DR	1421.5	0.0	1421.5	2120.4	18.0	2138.4	698.9	18.0	716.9	49.2	-	50.4
29	43031	Balgaur-Julupara SP	DR	0.0	576.0	576.0	0.0	651.0	651.0	0.0	75.0	75.0	-	13.0	13.0
30	43032	Chalk Temukh-Ismsgati SP	FMD	0.0	31.2	31.2	0.0	95.0	95.0	0.0	63.8	63.8	-	204.5	204.5
31	43033	Sontospara-Chatra SP	DR	0.0	115.7	115.7	0.0	452.5	452.5	0.0	336.8	336.8	-	291.2	291.2
32	43034	Potkakhali Subproject	DR	1316.0	0.0	1316.0	2150.0	0.0	2150.0	834.0	0.0	834.0	63.4	-	63.4
33	43035	Goakandib Dhuturbari Khal SP	FMD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
34	43036	Bhadraboti South SP	DR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
35	43037	Bhadraboti Khal	DR	0.0	0.0	0.0	918.8	215.3	1134.0	918.8	215.3	1134.0	-	-	-

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
		(North) SP													
36	43038	Shilaur-Dogangy Khal SP	DR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
37	43039	Ghoghodima Khutbatala SP	CAD	75.3	0.0	75.3	39.6	9.0	48.6	-35.7	9.0	-26.7	-47.4	-	-35.5
38	43040	Singkhali Subproject	DR	1035.5	0.0	1035.5	1319.2	0.0	1319.2	283.7	0.0	283.7	-	-	-
39	43041	Sonbonia SP	DR	0.0	0.0	0.0	0.0	38.5	38.5	0.0	38.5	38.5	-	-	-
40	43042	Atrai-Burigonj SP	DR	0.0	619.4	619.4	0.0	0.0	0.0	0.0	-619.4	-619.4	-	-100.0	-100.0
41	43043	Dehergati SP	DR	147.2	168.2	315.3	608.9	168.2	777.0	461.7	0.0	461.7	313.7	-	146.4
42	43044	Garabania Subproject	DR	795.4	0.0	795.4	936.4	0.0	936.4	141.0	0.0	141.0	-	-	-
43	43045	Pokkhali Naikhongdia SP	WC (RD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
44	43046	Thim Chari Purbakul SP	WC (RD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
45	43047	Paschim Digulia SP	WC (RD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
46	43048	Deshantarkathi-Goaribonia Subproject	DR	1840.3	0.0	1840.3	2161.6	0.0	2161.6	321.3	0.0	321.3	17.5	-	17.5
47	43049	Kafila-Krishnanagar SP	DR	136.5	151.6	288.2	136.5	151.6	288.2	0.0	0.0	0.0	0.0	-	0.0
48	43050	Moddah-Purba Rajapur SP	DR	202.7	0.0	202.7	534.7	0.0	534.7	332.0	0.0	332.0	-	-	-
49	43051	Monihel-Sonaichari Khal SP	WC (RD)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
50	43054	Mafijan SP	WCD	0.0	36.0	36.0	0.0	48.6	48.6	0.0	12.6	12.6	-	-	35.1
51	43055	Dholdholia SP	FMD	0.0	160.4	160.4	0.0	160.4	160.4	0.0	0.0	0.0	-	-	0.0
52	43056	Latipur-Etbarpur Khal SP	DR	1422.6	0.0	1422.6	1920.6	0.0	1920.6	498.0	0.0	498.0	35.0	-	35.0
53	43057	Adabaria SP	FMD	109.6	0.0	109.6	441.6	0.0	441.6	332.0	0.0	332.0	303.0	-	303.0
54	43058	Shabupura Khal SP	DR	821.3	0.0	821.3	821.3	0.0	821.3	0.0	0.0	0.0	0.0	-	0.0
55	43059	Kederpur-Gobindapur SP	WCD	1157.0	0.0	1157.0	1489.0	0.0	1489.0	332.0	0.0	332.0	28.7	-	28.7
56	43060	Ponahura SP	FMD	350.6	0.0	350.6	714.5	0.0	714.5	363.9	0.0	363.9	103.8	-	103.8
57	43061	Bhagalpur-Montala SP	FMD	1360.2	0.0	1360.2	1996.5	0.0	1996.5	636.3	0.0	636.3	46.8	-	46.8
58	43062	Gouripur SP	DR	299.1	0.0	299.1	299.1	0.0	299.1	0.0	0.0	0.0	-	-	-
59	43063	Kuthurakandi Khal	WCD	217.4	0.0	217.4	264.0	410.0	674.0	46.6	410.0	456.6	21.4	-	210.0
60	43064	Dier Khal SP	FMD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
61	43065	Bhanga Kha-Niamatpur SP	WCD	0.0	917.6	917.6	0.0	917.6	917.6	0.0	0.0	0.0	-	0.0	0.0
62	43066	Bhelumia SP	DR	286.6	0.0	286.6	525.0	0.0	525.0	238.4	0.0	238.4	-	-	-
63	43067	Purba Char Madras SP	DR	853.4	0.0	853.4	1065.9	0.0	1065.9	212.5	0.0	212.5	24.9	-	24.9
64	43068	Paschim Char Madras SP	DR	1252.6	0.0	1252.6	1463.6	0.0	1463.6	211.0	0.0	211.0	16.84	-	16.8
65	43069	Char Samaia SP	DR	109.9	0.0	109.9	450.4	0.0	450.4	340.5	0.0	340.5	309.8	-	309.8
66	43070	Panchagram SP	DR	587.5	483.1	1070.6	919.5	483.1	1402.6	332.0	0.0	332.0	56.5	0.0	31.0
67	43071	Bokrabari SP	WCD	0.0	23.8	23.8	0.0	23.8	23.8	0.0	0.0	0.0	-	-	0.0
68	43072	Pathuria-Kalibari SP	FMD	0.0	23.3	23.3	0.0	23.3	23.3	0.0	0.0	0.0	-	0.0	0.0
69	44074	Swarupdaha Dhunar Khal SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
70	44075	Losnabad Phalaghar SP	DR	194.3	87.5	281.7	262.5	724.0	986.5	68.3	636.5	704.8	-	-	-
71	44077	Saorakathi SP	DR	147.2	168.2	315.3	147.2	168.2	315.3	0.0	0.0	0.0	0.0	0.0	0.0
72	44078	Dhankundi SP	FMD	0.0	0.0	0.0	155.0	91.6	246.6	155.0	91.6	246.6	-	-	-
73	44080	Cholish Kahania SP	DR	792.9	60.3	853.2	898.2	60.3	958.5	105.3	0.0	105.3	-	-	-

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
74	44081	Thakur Mollik SP	DR	358.9	72.0	431.0	898.2	60.3	958.5	539.3	-11.8	527.5	150.2	-	122.4
75	44083	Amua Patikhalghata SP	DR	724.0	0.0	724.0	724.0	0.0	724.0	0.0	0.0	0.0	0.0	-	0.0
76	44084	Shitly Khal SP	DR	501.8	561.8	1063.6	604.2	561.8	1166.0	102.4	0.0	102.4	20.4	-	9.6
77	44092	Faridpur Badurerjan SP	FMD	0.0	103.0	103.0	0.0	103.0	103.0	0.0	0.0	0.0	-	-	-
78	44093	Paschim Joar SP	CAD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
79	44094	Shree Khal SP	WCD	179.3	1.9	181.2	179.3	1.9	181.2	0.0	0.0	0.0	0.0	-	0.0
80	44095	Kalapania Khal SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
81	44097	Dudhal SP	FMD	301.4	0.0	301.4	301.4	0.0	301.4	0.0	0.0	0.0	-	-	-
82	44101	Bonduk Khali Khal	FMD	87.3	62.2	149.6	183.0	62.2	245.3	95.7	0.0	95.7	109.6	-	64.0
83	44103	Golkhal-Chaitabunia Khal SP	DR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
84	44104	Sarengal SP	DR	823.4	0.0	823.4	1155.4	0.0	1155.4	332.0	0.0	332.0	40.3	-	40.3
85	44106	Sachilapur SP	DR	1816.0	0.0	1816.0	1816.0	0.0	1816.0	0.0	0.0	0.0	-	-	-
86	44107	Amail-Indail SP	WCD	140.0	0.0	140.0	140.0	0.0	140.0	0.0	0.0	0.0	0.0	-	0.0
87	44111	Kashipur SP	DR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
88	44112	Harirampur Beel SP	FMD	0.0	158.4	158.4	0.0	158.4	158.4	0.0	0.0	0.0	-	-	0.0
89	44113	Jhiry Bridge-Jangalpara Khal SP	FMD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
90	44117	Deulkathi Binnapara SP	DR	3042.8	0.0	3042.8	3208.8	0.0	3208.8	166.0	0.0	166.0	5.5	-	5.5
91	44119	Banglabazar-Gopalpur SP	WCD	129.6	0.0	129.6	375.6	0.0	375.6	246.0	0.0	246.0	189.8	-	189.8
92	44125	Chakhar SP	DR	275.3	112.8	388.1	275.3	112.8	388.1	0.0	0.0	0.0	0.0	0.0	0.0
93	44127	Haripasha Pironda SP	DR	1252.6	0.0	1252.6	1592.1	0.0	1592.1	339.5	0.0	339.5	27.1	#DIV/0!	27.1
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
95	44131	Guarekha SP	DR	2376.0	0.0	2376.0	3090.2	0.0	3090.2	714.3	0.0	714.3	30.1	-	30.1
96	44135	Debdun-Baisiona Khal SP	WCD	193.1	95.3	288.3	193.1	95.3	288.3	0.0	0.0	0.0	0.0	0.0	0.0
97	44136	Paschim Chhayam Takta SP	DR	100.3	47.6	147.9	100.3	47.6	147.9	0.0	0.0	0.0	0.0	0.0	0.0
98	44143	Hetalia-Ballabhpur Khal SP	DR	424.2	0.0	424.2	583.8	0.0	583.8	159.6	0.0	159.6	37.6	-	37.6
99	45145	Naimuri Alidaha SP	WCD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
100	45148	Bot-tola SP	WCD	2800.0	0.0	2800.0	3058.5	0.0	3058.5	258.5	0.0	258.5	9.2	-	9.2
101	45150	Chandpasha SP	WCD	1268.4	410.2	1678.6	1570.4	410.2	1980.6	302.0	0.0	302.0	23.8	0.0	18.0
102	45152	Biddyanandapur SP	DR	191.3	58.3	249.6	350.7	58.3	409.0	159.4	0.0	159.4	83.3	0.0	63.9
103	45157	Satail Beel SP	DR	180.2	0.0	180.2	232.7	0.0	232.7	52.5	0.0	52.5	29.1	-	29.1
104	45168	Chalitabunia-Ghaticara SP	WCD	442.4	0.0	442.4	442.4	0.0	442.4	0.0	0.0	0.0	0.0	-	0.0
105	45173	Charadi SP	WCD	422.4	0.0	422.4	582.4	0.0	582.4	160.0	0.0	160.0	37.9	-	37.9
106	45180	Tengrakhal Char Tengrakhal Khal SP	WCD	64.6	0.0	64.6	64.6	0.0	64.6	0.0	0.0	0.0	0.0	-	0.0
107	45205	Napitkhali Burirchar Khal SP	DR	144.1	0.0	144.1	358.6	0.0	358.6	214.5	0.0	214.5	148.8	-	148.8
108	45211	Uttampur SP	DR	720.5	0.0	720.5	1592.9	0.0	1592.9	872.4	0.0	872.4	121.1	-	121.1
109	46240	Amtoly Ruhita Potkakhali SP	DR	983.2	156.4	1139.6	1367.4	223.5	1590.9	384.2	67.1	451.3	39.1	42.9	39.6
Grand Total (109 SPs)				40682.0	8881.8	49563.8	57862.9	11994.9	69857.7	17180.8	3113.0	20293.9	-	-	-
Average (109 SPs)				373.2	81.5	454.7	530.9	110.0	640.9	157.6	28.6	186.2	66.2	#DIV/0!	63.8

Source: Project studies

Table-C.7: Subproject wise Monsoon (Kharif-2) Crop Production (MT) in 2016-17

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
1	41001	Nimai Khari Subproject (SP)	WCD	2907.4	0.0	2907.4	4074.0	0.0	4074.0	1166.6	0.0	1166.6	40.1	-	40.1
2	41002	Purba Sarail-Madhai SP	WCD	2396.0	0.0	2396.0	2396.0	0.0	2396.0	0.0	0.0	0.0	0.0	-	0.0
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	349.4	0.0	349.4	628.8	0.0	628.8	279.4	0.0	279.4	80.0	-	80.0
4	41004	Chak Gobindapur-Aldadpur SP	WCD	1415.6	0.0	1415.6	1601.1	0.0	1601.1	185.5	0.0	185.5	13.1	-	13.1
5	41005	Kanakdia SP	FMD	448.6	0.0	448.6	534.7	0.0	534.7	86.1	0.0	86.1	19.2	-	19.2
6	41006	Velabari-Durgapur SP	WC (RD)	2225.6	0.0	2225.6	2960.8	0.0	2960.8	735.2	0.0	735.2	33.0	-	33.0
7	41007	Harwalchari SP	WC (RD)	1017.0	0.0	1017.0	1611.4	0.0	1611.4	594.4	0.0	594.4	58.5	-	58.5
8	41008	Gosinga-Sitalakha SP	CAD	1609.1	0.0	1609.1	2105.4	0.0	2105.4	496.3	0.0	496.3	30.8	-	30.8
9	41009	Kusta-Thakurkandi SP	FMD	270.0	0.0	270.0	343.2	0.0	343.2	73.2	0.0	73.2	27.1	-	27.1
10	41010	Swrnakhali khal SP	FMD	863.2	0.0	863.2	955.4	0.0	955.4	92.2	0.0	92.2	10.7	-	10.7
11	41011	Noapara-Hazirdhara Beel Sp	WCD	1896.2	0.0	1896.2	2294.3	126.8	2421.1	398.1	126.8	524.9	21.0	-	27.7
12	42013	South Gohat SP	CAD	1394.8	0.0	1394.8	1770.1	0.0	1770.1	375.3	0.0	375.3	26.9	-	26.9
13	42014	Udara Khal SP	CAD	644.3	0.0	644.3	1460.1	0.0	1460.1	815.8	0.0	815.8	126.6	-	126.6
14	42015	Sundari Khal SP	CAD	1352.4	0.0	1352.4	1693.6	0.0	1693.6	341.3	0.0	341.3	25.2	-	25.2
15	42016	Gabua Fultala Subproject	WCD	2126.0	0.0	2126.0	2290.5	0.0	2290.5	164.5	0.0	164.5	7.7	-	7.7
16	42017	Nabinpur-Dharla Beel SP	FMD	491.3	0.0	491.3	765.0	0.0	765.0	273.7	0.0	273.7	55.7	-	55.7
17	42018	Kata Khal SP	FMD	176.1	0.0	176.1	227.7	0.0	227.7	51.6	0.0	51.6	29.3	-	29.3
18	42020	Ulushi Khal SP	WCD	1866.2	0.0	1866.2	2027.3	0.0	2027.3	161.0	0.0	161.0	8.6	-	8.6
19	42021	Fasiakhali Irrigation SP	CAD	1419.5	0.0	1419.5	1522.5	0.0	1522.5	103.0	0.0	103.0	7.3	-	7.3
20	42022	Sapleza SP	DR	789.4	0.0	789.4	789.4	0.0	789.4	0.0	0.0	0.0	0.0	-	0.0
21	42023	Jalabaria SP	DR	1561.5	0.0	1561.5	1953.0	0.0	1953.0	391.5	0.0	391.5	25.1	-	25.1
22	42024	Nishanbaria-Gazimahmud Subproject	DR	2029.7	0.0	2029.7	1871.2	0.0	1871.2	-158.5	0.0	-158.5	-7.8	-	-7.8
23	42025	Kujail-Raktadaha SP	WCD	2089.7	0.0	2089.7	2073.6	890.0	2963.6	-16.1	890.0	873.9	-0.8	-	41.8
24	42026	Ratandhara-Sodakhali SP	WCD	1715.7	0.0	1715.7	2394.0	0.0	2394.0	678.3	0.0	678.3	39.5	-	39.5
25	42027	Nuruddin Khal SP	WCD	378.3	0.0	378.3	604.6	0.0	604.6	226.4	0.0	226.4	59.8	-	59.8
26	43028	Sapdanga Khal SP	WCD	270.3	0.0	270.3	419.7	0.0	419.7	149.4	0.0	149.4	55.3	-	55.3
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	1524.4	0.0	1524.4	1850.1	0.0	1850.1	325.7	0.0	325.7	21.4	-	21.4
28	43030	Aylapatakata Subproject	DR	2069.7	0.0	2069.7	2092.3	0.0	2092.3	22.6	0.0	22.6	1.1	-	1.1
29	43031	Balgaur-Julupara SP	DR	1495.2	0.0	1495.2	1510.2	1151.0	2661.2	15.0	1151.0	1166.0	1.0	-	78.0
30	43032	Chalk Temukh-Ismsgati SP	FMD	1071.0	0.0	1071.0	1550.4	555.0	2105.4	479.4	555.0	1034.4	44.8	-	96.6
31	43033	Sontospara-Chatra SP	DR	1716.2	0.0	1716.2	2082.8	0.0	2082.8	366.7	0.0	366.7	21.4	-	21.4
32	43034	Potkakhali Subproject	DR	1754.0	0.0	1754.0	1820.8	0.0	1820.8	66.8	0.0	66.8	3.8	-	3.8
33	43035	Goalkandib Dhuturbari Khal SP	FMD	1266.5	0.0	1266.5	1705.7	0.0	1705.7	439.2	0.0	439.2	34.7	-	34.7
34	43036	Bhadraboti South SP	DR	1991.2	0.0	1991.2	2485.1	0.0	2485.1	493.9	0.0	493.9	24.8	-	24.8

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
35	43037	Bhadraboti Khal (North) SP	DR	2989.0	0.0	2989.0	3227.7	0.0	3227.7	238.6	0.0	238.6	8.0	-	8.0
36	43038	Shilaur-Dogangy Khal SP	DR	1149.3	0.0	1149.3	1744.1	0.0	1744.1	594.8	0.0	594.8	51.8	-	51.8
37	43039	Ghoghodima Khutbatala SP	CAD	102.8	0.0	102.8	260.0	0.0	260.0	157.2	0.0	157.2	153.0	-	153.0
38	43040	Singkhali Subproject	DR	1168.5	0.0	1168.5	1250.6	0.0	1250.6	82.1	0.0	82.1	7.0	-	7.0
39	43041	Sonbonia SP	DR	511.0	0.0	511.0	732.7	0.0	732.7	221.7	0.0	221.7	43.4	-	43.4
40	43042	Atrai-Burigonj SP	DR	2750.3	0.0	2750.3	2861.8	705.0	3566.8	111.4	705.0	816.4	4.1	-	29.7
41	43043	Dehergati SP	DR	1722.5	0.0	1722.5	2454.9	0.0	2454.9	732.4	0.0	732.4	42.5	-	42.5
42	43044	Garabania Subproject	DR	855.1	0.0	855.1	1015.3	0.0	1015.3	160.2	0.0	160.2	18.7	-	18.7
43	43045	Pokkhali Naikhongdia SP	WC (RD)	2486.5	0.0	2486.5	2669.9	0.0	2669.9	183.5	0.0	183.5	7.4	-	7.4
44	43046	Thim Chari Purbakul SP	WC (RD)	2853.1	0.0	2853.1	3169.3	0.0	3169.3	316.2	0.0	316.2	11.1	-	11.1
45	43047	Paschim Digulia SP	WC (RD)	2790.6	0.0	2790.6	3341.4	0.0	3341.4	550.8	0.0	550.8	19.7	-	19.7
46	43048	Deshantarkathi-Goaribonia Subproject	DR	2144.6	0.0	2144.6	2316.0	0.0	2316.0	171.4	0.0	171.4	8.0	-	8.0
47	43049	Kafila-Krishnanagar SP	DR	1244.2	0.0	1244.2	1655.0	0.0	1655.0	410.8	0.0	410.8	33.0	-	33.0
48	43050	Moddah-Purba Rajapur SP	DR	874.9	0.0	874.9	1214.9	0.0	1214.9	340.0	0.0	340.0	38.9	-	38.9
49	43051	Monirheel-Sonaichari Khal SP	WC (RD)	2265.9	0.0	2265.9	2509.6	0.0	2509.6	243.7	0.0	243.7	10.8	-	10.8
50	43054	Mafijan SP	WCD	389.3	0.0	389.3	412.2	0.0	412.2	22.9	0.0	22.9	5.9	-	5.9
51	43055	Dholdholia SP	FMD	1365.8	0.0	1365.8	1902.7	0.0	1902.7	536.9	0.0	536.9	39.3	-	39.3
52	43056	Latifpur-Etbarpur Khal SP	DR	1542.3	0.0	1542.3	1877.2	0.0	1877.2	334.9	0.0	334.9	21.7	-	21.7
53	43057	Adabaria SP	FMD	499.7	0.0	499.7	640.8	0.0	640.8	141.1	0.0	141.1	28.2	-	28.2
54	43058	Shabupura Khal SP	DR	487.6	0.0	487.6	1226.0	0.0	1226.0	738.4	0.0	738.4	151.4	-	151.4
55	43059	Kederpur-Gobindapur SP	WCD	1590.0	0.0	1590.0	2089.8	0.0	2089.8	499.9	0.0	499.9	31.4	-	31.4
56	43060	Ponahura SP	FMD	790.6	0.0	790.6	889.0	0.0	889.0	98.4	0.0	98.4	12.4	-	12.4
57	43061	Bhagalpur-Montala SP	FMD	1623.5	0.0	1623.5	1353.0	0.0	1353.0	-270.5	0.0	-270.5	-16.7	-	-16.7
58	43062	Gouripur SP	DR	1840.5	0.0	1840.5	2218.2	0.0	2218.2	377.7	0.0	377.7	20.5	-	20.5
59	43063	Kuthurakandi Khal	WCD	1229.2	0.0	1229.2	1976.7	0.0	1976.7	747.5	0.0	747.5	60.8	-	60.8
60	43064	Dier Khal SP	FMD	631.2	0.0	631.2	801.2	0.0	801.2	170.0	0.0	170.0	26.9	-	26.9
61	43065	Bhanga Kha-Niamatpur SP	WCD	1857.3	0.0	1857.3	2771.0	0.0	2771.0	913.7	0.0	913.7	49.2	-	49.2
62	43066	Bhelumia SP	DR	1085.6	0.0	1085.6	1457.6	0.0	1457.6	372.0	0.0	372.0	34.3	-	34.3
63	43067	Purba Char Madras SP	DR	2151.6	0.0	2151.6	2699.1	0.0	2699.1	547.5	0.0	547.5	25.4	-	25.4
64	43068	Paschim Char Madras SP	DR	2053.9	0.0	2053.9	2620.9	0.0	2620.9	567.0	0.0	567.0	27.6	-	27.6
65	43069	Char Samaia SP	DR	608.8	0.0	608.8	847.9	0.0	847.9	239.1	0.0	239.1	39.3	-	39.3
66	43070	Panchagram SP	DR	2313.8	0.0	2313.8	3274.5	0.0	3274.5	960.7	0.0	960.7	41.5	-	41.5
67	43071	Bokrabari SP	WCD	577.5	0.0	577.5	902.0	0.0	902.0	324.5	0.0	324.5	56.2	-	56.2
68	43072	Pathuria-Kalibari SP	FMD	483.3	0.0	483.3	909.2	0.0	909.2	425.8	0.0	425.8	88.1	-	88.1
69	44074	Swarupdaha Dhunar Khal SP	WCD	266.9	0.0	266.9	266.9	0.0	266.9	0.0	0.0	0.0	0.0	-	0.0
70	44075	Losnabad Phalaghar SP	DR	2111.6	0.0	2111.6	2978.1	0.0	2978.1	866.5	0.0	866.5	41.0	-	41.0
71	44077	Saorakathi SP	DR	1722.5	0.0	1722.5	1722.5	0.0	1722.5	0.0	0.0	0.0	0.0	-	0.0
72	44078	Dhankundi SP	FMD	1874.4	0.0	1874.4	2141.4	0.0	2141.4	267.0	0.0	267.0	14.2	-	14.2
73	44080	Chollish	DR	1823.3	0.0	1823.3	2288.7	0.0	2288.7	465.4	0.0	465.4	25.5	-	25.5

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17 Production			Incremental Production (t)			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
		Kahania SP													
74	44081	Thakur Mollik SP	DR	1386.3	0.0	1386.3	1796.8	0.0	1796.8	410.5	0.0	410.5	29.6	-	29.6
75	44083	Amua Patikhalghata SP	DR	1135.3	0.0	1135.3	1439.2	0.0	1439.2	303.9	0.0	303.9	26.8	-	26.8
76	44084	Shitly Khal SP	DR	2482.0	0.0	2482.0	2626.7	0.0	2626.7	144.7	0.0	144.7	5.8	-	5.8
77	44092	Faridpur Badurerjan SP	FMD	923.1	0.0	923.1	1292.2	0.0	1292.2	369.1	0.0	369.1	40.0	-	40.0
78	44093	Paschim Joar SP	CAD	1042.1	0.0	1042.1	1042.1	0.0	1042.1	0.0	0.0	0.0	0.0	-	0.0
79	44094	Shree Khal SP	WCD	1269.2	0.0	1269.2	1402.8	0.0	1402.8	133.6	0.0	133.6	10.5	-	10.5
80	44095	Kalapania Khal SP	WCD	377.4	0.0	377.4	734.3	0.0	734.3	356.9	0.0	356.9	94.6	-	94.6
81	44097	Dudhal SP	FMD	673.3	0.0	673.3	1073.7	0.0	1073.7	400.4	0.0	400.4	59.5	-	59.5
82	44101	Bonduk Khali Khal	FMD	466.6	0.0	466.6	856.8	0.0	856.8	390.2	0.0	390.2	83.6	-	83.6
83	44103	Gotkhali-Chalitabunia Khal SP	DR	2833.1	0.0	2833.1	3245.4	0.0	3245.4	412.3	0.0	412.3	14.6	-	14.6
84	44104	Sarengal SP	DR	1514.2	0.0	1514.2	1576.2	0.0	1576.2	62.0	0.0	62.0	4.1	-	4.1
85	44106	Sachilapur SP	DR	1530.6	0.0	1530.6	1681.7	0.0	1681.7	151.1	0.0	151.1	9.9	-	9.9
86	44107	Amail-Indail SP	WCD	1178.7	0.0	1178.7	1666.7	0.0	1666.7	487.9	0.0	487.9	41.4	-	41.4
87	44111	Kashipur SP	DR	3291.2	0.0	3291.2	3390.0	0.0	3390.0	98.8	0.0	98.8	3.0	-	3.0
88	44112	Harirampur Beel SP	FMD	730.8	0.0	730.8	1449.8	0.0	1449.8	718.9	0.0	718.9	98.4	-	98.4
89	44113	Jhiry Bridge-Jangalpara Khal SP	FMD	1169.6	0.0	1169.6	1443.2	0.0	1443.2	273.6	0.0	273.6	23.4	-	23.4
90	44117	Deulkathi Binnapara SP	DR	2764.3	0.0	2764.3	3318.2	0.0	3318.2	553.9	0.0	553.9	20.0	-	20.0
91	44119	Banglabazar-Gopalpur SP	WCD	419.1	0.0	419.1	1161.6	0.0	1161.6	742.5	0.0	742.5	177.2	-	177.2
92	44125	Chakhar SP	DR	1465.2	0.0	1465.2	2011.5	0.0	2011.5	546.4	0.0	546.4	37.3	-	37.3
93	44127	Haripasha Pironda SP	DR	2053.9	0.0	2053.9	2258.3	0.0	2258.3	204.4	0.0	204.4	10.0	-	10.0
93	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	1337.5	0.0	1337.5	1337.5	0.0	1337.5	0.0	0.0	0.0	0.0	-	0.0
94	44131	Guarekha SP	DR	2913.8	0.0	2913.8	2913.8	0.0	2913.8	0.0	0.0	0.0	0.0	-	0.0
95	44135	Debdun-Bauisona Khal SP	WCD	599.8	0.0	599.8	713.7	0.0	713.7	113.9	0.0	113.9	19.0	-	19.0
96	44136	Paschim Chhayam Takla SP	DR	1015.1	0.0	1015.1	1458.6	0.0	1458.6	443.5	0.0	443.5	43.7	-	43.7
97	44143	Hetalia-Balabhupur Khal SP	DR	1171.6	0.0	1171.6	1415.2	0.0	1415.2	243.6	0.0	243.6	20.8	-	20.8
98	45145	Naimuri Alidaha SP	WCD	1146.6	0.0	1146.6	1299.3	0.0	1299.3	152.8	0.0	152.8	13.3	-	13.3
99	45148	Bot-tola SP	WCD	3072.0	0.0	3072.0	3232.6	0.0	3232.6	160.7	0.0	160.7	5.2	-	5.2
100	45150	Chandpasha SP	WCD	2409.0	0.0	2409.0	2491.5	0.0	2491.5	82.5	0.0	82.5	3.4	-	3.4
101	45152	Biddyanandapur SP	DR	1078.1	0.0	1078.1	1135.0	0.0	1135.0	56.9	0.0	56.9	5.3	-	5.3
102	45157	Satal Beel SP	DR	493.9	0.0	493.9	790.9	0.0	790.9	297.0	0.0	297.0	60.1	-	60.1
103	45168	Chalitabunia-Ghaticara SP	WCD	1893.4	0.0	1893.4	2408.6	0.0	2408.6	515.2	0.0	515.2	27.2	-	27.2
104	45173	Charadi SP	WCD	1604.4	0.0	1604.4	2552.6	0.0	2552.6	948.2	0.0	948.2	59.1	-	59.1
105	45180	Tengrakhal Char Tengrakhal Khal SP	WCD	447.7	0.0	447.7	640.9	0.0	640.9	193.2	0.0	193.2	43.2	-	43.2
106	45205	Napitkhali Burirchar Khal SP	DR	1442.2	0.0	1442.2	1609.6	0.0	1609.6	167.4	0.0	167.4	11.6	-	11.6
107	45211	Uttampur SP	DR	1482.0	0.0	1482.0	1684.8	0.0	1684.8	202.8	0.0	202.8	13.7	-	13.7
108	46240	Amtoly Ruhita Potkakhali SP	DR	1843.6	0.0	1843.6	2344.2	0.0	2344.2	500.6	0.0	500.6	27.2	-	27.2
Grand Total (109 SPs)				156076.4	0.0	156076.4	190650.2	3427.8	194078.0	34573.8	3427.8	38001.6	-	-	-
Average (109 SPs)				1431.9	0.0	1431.9	1749.1	31.4	1780.5	317.2	31.4	348.6	30.9	-	32.8

Source: Project studies

Table-C.8: Subproject wise Total Crop Production (MT) in 2016-17

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17			Incremental Production			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
1	41001	Nimai Khari Subproject (SP)	WCD	5456.0	5066.4	10522.3	7164.0	5899.0	13063.0	1708.1	832.6	2540.6	31.3	16.4	24.1
2	41002	Purba Sarail-Madhai SP	WCD	5485.7	2771.6	8257.3	5795.4	2771.6	8567.0	309.7	0.0	309.7	5.6	0.0	3.8
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	2761.1	874.1	3635.2	3497.3	1018.4	4515.7	736.2	144.3	880.5	26.7	16.5	24.2
4	41004	Chak Gobindapur-Aldadpur SP	WCD	3309.5	914.5	4224.0	4029.8	1301.8	5331.6	720.3	387.4	1107.6	21.8	42.4	26.2
5	41005	Kanakdia SP	FMD	2168.2	1829.6	3997.8	2214.4	1925.4	4139.8	46.2	95.7	141.9	2.1	5.2	3.6
6	41006	Velabari-Durgapur SP	WC (RD)	4346.7	4306.3	8653.0	5657.9	6521.4	12179.3	1311.2	2215.1	3526.3	30.2	51.4	40.8
7	41007	Harwalchari SP	WC (RD)	2471.7	39.7	2511.4	3653.9	375.2	4029.1	1182.2	335.5	1517.7	47.8	845.7	60.4
8	41008	Gosinga-Sitalakha SP	CAD	2544.0	1315.2	3859.3	3837.9	1615.7	5453.6	1293.9	300.4	1594.3	50.9	22.8	41.3
9	41009	Kusta-Thakurkandi SP	FMD	1196.3	471.6	1668.0	1787.7	604.3	2392.0	591.4	132.7	724.1	49.4	28.1	43.4
10	41010	Swrnakhali khal SP	FMD	2256.2	635.6	2891.8	3336.5	1187.3	4523.7	1080.3	551.6	1631.9	47.9	86.8	56.4
11	41011	Noapara-Hazirdhara Beel Sp	WCD	3583.5	1438.8	5022.3	5285.8	2086.4	7372.2	1702.3	647.6	2349.9	47.5	45.0	46.8
12	42013	South Gohat SP	CAD	5314.0	2158.0	7472.0	6086.8	3374.5	9461.3	772.8	1216.5	1989.3	14.5	56.4	26.6
13	42014	Udara Khal SP	CAD	3366.1	5933.0	9299.1	5389.1	5005.2	10394.2	2022.9	-927.8	1095.1	60.1	-15.6	11.8
14	42015	Sundari Khal SP	CAD	5418.1	6503.1	11921.3	5779.6	7265.2	13044.8	361.5	762.1	1123.6	6.7	11.7	9.4
15	42016	Gabua Fultala Subproject	WCD	3895.9	1014.0	4909.9	5552.1	2289.9	7842.0	1656.2	1275.9	2932.1	42.5	125.8	59.7
16	42017	Nabinpur-Dharla Beel SP	FMD	4314.4	74.8	4389.3	5828.6	730.7	6559.3	1514.2	655.9	2170.0	35.1	876.3	49.4
17	42018	Kata Khal SP	FMD	1079.2	48.6	1127.8	1158.9	48.6	1207.5	79.7	0.0	79.7	7.4	0.0	7.1
18	42020	Ulushi Khal SP	WCD	4184.5	200.4	4384.8	4800.4	684.6	5485.0	615.9	484.3	1100.2	14.7	241.7	25.1
19	42021	Fasiakhali Irrigation SP	CAD	2467.4	985.9	3453.3	3006.1	1214.9	4221.0	538.7	229.0	767.8	21.8	23.2	22.2
20	42022	Sapleza SP	DR	1060.1	761.3	1821.4	1674.7	990.3	2665.0	614.6	228.9	843.5	58.0	30.1	46.3
21	42023	Jalabaria SP	DR	2085.7	4335.0	6420.7	3013.3	5357.7	8371.0	927.6	1022.7	1950.3	44.5	23.6	30.4
22	42024	Nishanbaria-Gazimahmud Subproject	DR	2148.5	100.4	2248.9	2436.7	869.9	3306.5	288.2	769.5	1057.6	13.4	766.4	47.0
23	42025	Kujail-Raktadaha SP	WCD	5549.0	1919.0	7468.1	5532.9	3475.1	9008.0	-16.1	1556.1	1539.9	-0.3	81.1	20.6
24	42026	Ratandhara-Sodakhali SP	WCD	4151.5	869.1	5020.6	5147.8	652.6	5800.4	996.3	-216.5	779.8	24.0	-24.9	15.5
25	42027	Nuruddin Khal SP	WCD	715.6	516.9	1232.4	1269.6	820.8	2090.4	554.0	303.9	857.9	77.4	58.8	69.6
26	43028	Sapdanga Khal SP	WCD	1298.3	276.0	1574.2	1726.5	324.5	2051.0	428.3	48.5	476.8	33.0	17.6	30.3
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	2681.4	3724.1	6405.5	4070.1	4128.0	8198.1	1388.7	404.0	1792.6	51.8	10.8	28.0
28	43030	Aylapatakata Subproject	DR	3491.2	686.6	4177.8	4212.7	2054.5	6267.2	721.6	1367.9	2089.4	20.7	199.2	50.0
29	43031	Balgaur-Julupara SP	DR	5245.7	4344.0	9589.8	7137.5	4083.2	11220.7	1891.8	-260.8	1631.0	36.1	-6.0	17.0
30	43032	Chalk Temukh-Isimgati SP	FMD	4378.5	580.7	4959.2	6341.4	939.5	7280.8	1962.9	358.8	2321.7	44.8	61.8	46.8
31	43033	Sontospara-Chatra SP	DR	5704.1	2235.3	7939.4	5994.4	2752.5	8746.9	290.4	517.2	807.5	5.1	23.1	10.2
32	43034	Potkakhali Subproject	DR	3070.0	947.1	4017.0	3970.8	2723.3	6694.1	900.8	1776.3	2677.1	29.3	187.6	66.6
33	43035	Goalkandib Dhuturbari Khal SP	FMD	3590.7	3206.6	6797.2	4326.8	4631.2	8958.0	736.2	1424.6	2160.8	20.5	44.4	31.8
34	43036	Bhadraboti South SP	DR	2222.8	3605.8	5828.6	6589.1	1125.0	7714.1	4366.3	-2480.8	1885.5	196.4	-68.8	32.3
35	43037	Bhadraboti Khal (North) SP	DR	3165.0	1899.8	5064.7	5578.6	2642.8	8221.4	2413.6	743.0	3156.6	76.3	39.1	62.3

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17			Incremental Production			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
36	43038	Shilaur-Dogangy Khal SP	DR	3488.9	1157.1	4646.0	4449.3	1325.6	5774.9	960.3	168.5	1128.8	27.5	14.6	24.3
37	43039	Ghoghodima Khutbatala SP	CAD	385.3	90.6	475.9	761.7	134.0	895.7	376.4	43.4	419.8	97.7	47.9	88.2
38	43040	Singkhali Subproject	DR	2204.0	224.0	2428.0	2569.8	3246.0	5815.8	365.8	3022.0	3387.8	16.6	1349.3	139.5
39	43041	Sonbonia SP	DR	511.0	82.4	593.4	732.7	458.1	1190.8	221.7	375.7	597.4	43.4	456.2	100.7
40	43042	Atrai-Burigonj SP	DR	5866.0	3156.3	9022.3	8080.6	5348.5	13429.1	2214.5	2192.2	4406.7	37.8	69.5	48.8
41	43043	Dehargati SP	DR	2710.0	1615.0	4325.0	4121.3	2339.0	6460.3	1411.2	724.0	2135.3	52.1	44.8	49.4
42	43044	Garabania Subproject	DR	1650.6	1214.2	2864.7	1951.7	2565.0	4516.7	301.1	1350.8	1652.0	18.2	111.3	57.7
43	43045	Pokkhali Naikhongdia SP	WC (RD)	3823.5	775.6	4599.1	4224.4	1168.0	5392.4	400.9	392.4	793.3	10.5	50.6	17.2
44	43046	Thim Chari Purbakul SP	WC (RD)	4175.6	1486.6	5662.2	4929.1	1583.6	6512.7	753.4	97.0	850.4	18.0	6.5	15.0
45	43047	Paschim Digulia SP	WC (RD)	4414.2	1411.4	5825.6	5406.3	2047.0	7453.3	992.0	635.6	1627.6	22.5	45.0	27.9
46	43048	Deshantarkathi-Goaribonia Subproject	DR	3984.9	588.0	4572.9	4477.6	1281.4	5759.0	492.7	693.4	1186.1	12.4	117.9	25.9
47	43049	Kafila-Krishnanagar SP	DR	3219.2	2073.5	5292.7	4073.0	2709.1	6782.1	853.8	635.6	1489.4	26.5	30.7	28.1
48	43050	Moddah-Purba Rajapur SP	DR	1077.5	262.7	1340.2	1749.5	683.7	2433.2	672.0	421.0	1093.0	62.4	160.3	81.6
49	43051	Monirjheel-Sonaichari Khal SP	WC (RD)	2971.5	1606.1	4577.6	4158.1	1978.6	6136.7	1186.6	372.5	1559.1	39.9	23.2	34.1
50	43054	Mafijan SP	WCD	1325.1	444.1	1769.2	1446.3	1331.6	2777.9	121.2	887.5	1008.7	9.1	199.8	57.0
51	43055	Dholdholia SP	FMD	4946.8	2578.6	7525.4	5844.5	2675.6	8520.0	897.7	97.0	994.7	18.1	3.8	13.2
52	43056	Latifpur-Etbarpur Khal SP	DR	4849.2	4495.3	9344.5	5803.2	4547.5	10350.8	954.1	52.2	1006.3	19.7	1.2	10.8
53	43057	Adabaria SP	FMD	609.2	40.2	649.4	1082.3	114.2	1196.5	473.1	74.0	547.1	77.7	184.2	84.2
54	43058	Shabupura Khal SP	DR	1343.3	211.2	1554.5	2284.1	308.2	2592.4	940.8	97.0	1037.8	70.0	45.9	66.8
55	43059	Kederpur-Gobindapur SP	WCD	3488.6	4573.0	8061.6	4581.0	4658.7	9239.7	1092.4	85.7	1178.1	31.3	1.9	14.6
56	43060	Ponahura SP	FMD	1141.2	294.7	1435.9	1603.5	342.8	1946.2	462.3	48.1	510.4	40.5	16.3	35.5
57	43061	Bhagalpur-Montala SP	FMD	2983.6	633.8	3617.4	3349.5	905.7	4255.2	365.9	272.0	637.8	12.3	42.9	17.6
58	43062	Gouripur SP	DR	3293.4	387.9	3681.3	3891.3	436.4	4327.7	597.9	48.5	646.4	18.2	12.5	17.6
59	43063	Kuthurakandi Khal	WCD	3581.4	551.5	4132.9	5320.7	1133.0	6453.7	1739.3	581.5	2320.8	48.6	105.4	56.2
60	43064	Dier Khal SP	FMD	1622.2	562.5	2184.7	2014.9	935.0	2949.9	392.7	372.5	765.2	24.2	66.2	35.0
61	43065	Bhanga Kha-Niamatpur SP	WCD	2674.3	3689.0	6363.3	4338.8	4806.8	9145.7	1664.5	1117.9	2782.4	62.2	30.3	43.7
62	43066	Bhelumia SP	DR	2283.8	0.0	2283.8	3350.5	248.5	3598.9	1066.7	248.5	1315.2	46.7	-	57.6
63	43067	Purba Char Madras SP	DR	4318.3	1142.0	5460.3	5543.9	1611.7	7155.6	1225.6	469.7	1695.3	28.4	41.1	31.0
64	43068	Paschim Char Madras SP	DR	4359.3	894.2	5253.5	6002.4	1285.7	7288.1	1643.1	391.5	2034.6	37.7	43.8	38.7
65	43069	Char Samaia SP	DR	1342.3	575.5	1917.9	2312.3	1014.0	3326.2	970.0	438.4	1408.4	72.3	76.2	73.4
66	43070	Panchagram SP	DR	4242.9	2187.7	6430.6	6643.5	3164.2	9807.7	2400.6	976.5	3377.0	56.6	44.6	52.5
67	43071	Bokrabari SP	WCD	2227.5	508.4	2736.0	2484.5	522.2	3006.7	257.0	13.8	270.8	11.5	2.7	9.9
68	43072	Pathuria-Kalibari SP	FMD	2264.0	415.7	2679.7	3030.7	687.4	3718.1	766.7	271.7	1038.4	33.9	65.4	38.8
69	44074	Swarupdaha Dhunar Khal SP	WCD	932.1	680.4	1612.5	1195.1	680.4	1875.5	263.0	0.0	263.0	28.2	0.0	16.3
70	44075	Losnabad Phalaghar SP	DR	5871.7	1402.8	7274.4	7135.6	2474.2	9609.8	1264.0	1071.4	2335.4	21.5	76.4	32.1
71	44077	Saorakathi SP	DR	2710.0	1615.0	4325.0	2956.5	2166.2	5122.7	246.4	551.2	797.6	9.1	34.1	18.4
72	44078	Dhankundi SP	FMD	3607.1	2103.8	5710.8	5352.4	606.6	5959.0	1745.3	-1497.2	248.1	48.4	-71.2	4.3
73	44080	Cholish Kahania SP	DR	3814.6	4611.1	8425.7	4776.3	5032.2	9808.5	961.7	421.1	1382.8	25.2	9.1	16.4
74	44081	Thakur Molik SP	DR	2116.7	3907.0	6023.7	3111.4	5032.2	8143.6	994.7	1125.2	2119.9	47.0	28.8	35.2

Sl. No.	SP ID No.	Subproject Name	SP Type	Base Production			2016-17			Incremental Production			Increment (%)		
				Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total	Cereal	Non-cereal	Total
75	44083	Amua Patikhalghata SP	DR	2212.9	1236.0	3448.9	2733.8	1665.2	4399.0	520.9	429.2	950.1	23.5	34.7	27.5
76	44084	Shitly Khal SP	DR	5006.6	2522.0	7528.5	5253.7	3040.3	8293.9	247.1	518.3	765.4	4.9	20.6	10.2
77	44092	Faridpur Badurerjan SP	FMD	2095.8	1171.6	3267.4	2811.0	2793.0	5604.0	715.2	1621.4	2336.6	34.1	138.4	71.5
78	44093	Paschim Joar SP	CAD	1783.3	93.1	1876.4	2224.5	93.1	2317.6	441.2	0.0	441.2	24.7	0.0	23.5
79	44094	Shree Khal SP	WCD	2980.2	6264.4	9244.6	3559.2	6636.9	10196.1	579.0	372.5	951.5	19.4	5.9	10.3
80	44095	Kalapania Khal SP	WCD	1553.4	0.0	1553.4	2568.5	361.3	2929.7	1015.1	361.3	1376.3	65.3	-	88.6
81	44097	Dudhal SP	FMD	1162.0	1378.1	2540.0	1683.7	1426.6	3110.3	521.8	48.5	570.3	44.9	3.5	22.5
82	44101	Bonduk Khali Khal	FMD	1253.1	382.0	1635.1	2170.6	598.5	2769.1	917.5	216.6	1134.1	73.2	-	69.4
83	44103	Gotkhali-Chalitabunia Khal SP	DR	4596.0	1748.6	6344.5	5905.0	2762.7	8667.7	1309.0	1014.1	2323.1	28.5	58.0	36.6
84	44104	Sarengal SP	DR	3187.6	679.4	3867.0	3986.4	1051.9	5038.3	798.8	372.5	1171.3	25.1	54.8	30.3
85	44106	Sachilapur SP	DR	3388.2	733.7	4121.9	3728.0	1106.2	4834.2	339.8	372.5	712.3	10.0	50.8	17.3
86	44107	Amail-Indail SP	WCD	3154.8	450.7	3605.6	4020.2	823.2	4843.4	865.3	372.5	1237.8	27.4	82.6	34.3
87	44111	Kashipur SP	DR	7692.3	71.4	7763.8	8021.7	184.8	8206.5	329.3	113.4	442.7	4.3	158.7	5.7
88	44112	Harirampur Beel SP	FMD	1921.3	1981.4	3902.7	2854.0	2062.4	4916.4	932.7	81.0	1013.7	48.5	4.1	26.0
89	44113	Jhiry Bridge-Jangalpara Khal SP	FMD	3365.5	3832.7	7198.2	3861.8	3832.7	7694.5	496.3	0.0	496.3	14.7	0.0	6.9
90	44117	Deulkathi Binnapara SP	DR	6817.1	202.4	7019.5	7941.7	321.5	8263.2	1124.7	119.1	1243.7	16.5	58.8	17.7
91	44119	Banglabazar-Gopalpur SP	WCD	1013.8	554.3	1568.1	2002.3	973.1	2975.5	988.5	418.9	1407.4	97.5	75.6	89.7
92	44125	Chakhar SP	DR	3723.9	1921.3	5645.2	4680.0	2293.8	6973.9	956.2	372.5	1328.7	25.7	19.4	23.5
93	44127	Haripasha Pironda SP	DR	4359.3	894.2	5253.5	4718.8	991.2	5710.0	359.5	97.0	456.5	8.2	10.8	8.7
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	3989.9	561.9	4551.8	4054.5	610.4	4664.8	64.6	48.5	113.1	1.6	8.6	2.5
95	44131	Guarekha SP	DR	5861.0	0.0	5861.0	6796.8	0.0	6796.8	935.8	0.0	935.8	16.0	-	16.0
96	44135	Debdun-Baisiona Khal SP	WCD	1451.4	429.8	1881.1	1781.9	478.4	2260.2	330.5	48.6	379.1	22.8	11.3	20.2
97	44136	Paschim Chhayam Takta SP	DR	2114.0	676.9	2790.9	2776.9	725.5	3502.4	662.9	48.6	711.5	31.4	7.2	25.5
98	44143	Hetalia-Ballabhpur Khal SP	DR	2033.0	1011.8	3044.8	2655.0	1407.8	4062.8	622.0	396.0	1018.0	30.6	39.1	33.4
99	45145	Naimuri Alidaha SP	WCD	2711.6	304.2	3015.8	2937.3	401.1	3338.4	225.8	96.8	322.6	8.3	31.8	10.7
100	45148	Bot-tola SP	WCD	5871.9	316.4	6188.3	6398.7	944.4	7343.1	526.7	628.0	1154.8	9.0	198.5	18.7
101	45150	Chandpasha SP	WCD	4088.3	4854.5	8942.8	4680.3	5599.5	10279.8	592.0	745.0	1337.0	14.5	15.3	15.0
102	45152	Biddyanandapur SP	DR	1871.1	863.7	2734.9	2287.4	912.3	3199.8	416.3	48.6	464.9	22.2	5.6	17.0
103	45157	Satal Beel SP	DR	1416.1	489.3	1905.4	1965.6	537.8	2503.4	549.5	48.5	598.0	38.8	9.9	31.4
104	45168	Chalitabunia-Ghatichara SP	WCD	2835.8	591.5	3427.3	3551.0	1012.5	4563.5	715.2	421.0	1136.2	25.2	71.2	33.2
105	45173	Charadi SP	WCD	2191.6	388.3	2580.0	3520.8	839.1	4359.9	1329.2	450.7	1779.9	60.6	116.1	69.0
106	45180	Tengrakhali Char Tengrakhali Khal SP	WCD	904.6	336.2	1240.8	1259.9	917.3	2177.2	355.3	581.1	936.4	39.3	172.8	75.5
107	45205	Napitkhali Burirchar Khal SP	DR	1586.3	693.2	2279.6	1968.2	1258.9	3227.1	381.9	565.6	947.5	24.1	81.6	41.6
108	45211	Uttampur SP	DR	2202.5	375.3	2577.8	3277.7	988.6	4266.4	1075.2	613.3	1688.5	48.8	163.4	65.5
109	46240	Amtoly Ruhita Potkakhali SP	DR	2826.8	1220.9	4047.6	3711.6	2203.8	5915.4	884.8	982.9	1867.7	31.3	80.5	46.1
Grand Total (109 SPs)				333830.3	160068.9	493899.2	428373.6	208935.0	637308.6	94543.3	48866.1	143409.4	3700.0	9303.0	3944.0
Average (109 SPs)				3062.7	1468.5	4531.2	3930.0	1916.8	5846.9	867.4	448.3	1315.7	33.9	88.6	36.2

Source: Project studies

Table-C.9: Subproject wise Agriculture Land Use and Crop Production in 2016-17

Sl. No.	SP ID No.	Subproject Name	SP Type	Net Area	Cropped Area (ha)			Cropping Intensity (%)			Total Production (MT)		Incremental Crop Production(MT)			Increment (%)
				(ha)	Base	2015-16	Increment	Base	2015-16	Increment	Base	2015-16	Cereal	Non-cereal	Total	
1	41001	Nimai Khari Subproject (SP)	WCD	850.0	1784.2	2060.7	276.5	209.9	242.4	32.5	10522.3	13063.0	1708.1	832.6	2540.6	24.1
2	41002	Purba Sarail-Madhai SP	WCD	732.0	1611.3	1673.3	61.9	220.1	228.6	8.5	8257.3	8567.0	309.7	0.0	309.7	3.8
3	41003	Baika-Bara Hapania-Jhikutia SP	FMD	590.0	793.5	889.5	96.0	134.5	150.8	16.3	3635.2	4515.7	736.2	144.3	880.5	24.2
4	41004	Chak Gobindapur-Aldadpur SP	WCD	470.0	873.5	1090.1	216.7	185.8	231.9	46.1	4224.0	5331.6	720.3	387.4	1107.6	26.2
5	41005	Kanakdia SP	FMD	730.0	1013.2	1075.7	62.5	138.8	147.4	8.6	3997.8	4139.8	46.2	95.7	141.9	3.6
6	41006	Velabari-Durgapur SP	WC (RD)	893.0	1927.9	2218.6	290.8	215.9	248.4	32.6	8653.0	12179.3	1311.2	2215.1	3526.3	40.8
7	41007	Harwalchari SP	WC (RD)	650.0	534.4	786.2	251.8	82.2	121.0	38.7	2511.4	4029.1	1182.2	335.5	1517.7	60.4
8	41008	Gosinga-Sitalakha SP	CAD	600.0	870.4	1116.2	245.7	145.1	186.0	41.0	3859.3	5453.6	1293.9	300.4	1594.3	41.3
9	41009	Kusta-Thakurkandi SP	FMD	340.0	517.0	625.5	108.5	152.1	184.0	31.9	1668.0	2392.0	591.4	132.7	724.1	43.4
10	41010	Swrnakhali khal SP	FMD	370.0	964.2	1209.7	245.5	260.6	327.0	66.4	2891.8	4523.7	1080.3	551.6	1631.9	56.4
11	41011	Noapara-Hazirdhara Beel Sp	WCD	682.0	1069.6	1351.4	281.8	156.8	198.2	41.3	5022.3	7372.2	1702.3	647.6	2349.9	46.8
12	42013	South Gohat SP	CAD	936.0	1998.8	2182.2	183.4	213.5	233.1	19.6	7472.0	9461.3	772.8	1216.5	1989.3	26.6
13	42014	Udara Khal SP	CAD	997.0	1898.4	2172.9	274.5	190.4	217.9	27.5	9299.1	10394.2	2022.9	-927.8	1095.1	11.8
14	42015	Sundari Khal SP	CAD	983.0	1960.3	2182.2	221.9	199.4	222.0	22.6	11921.3	13044.8	361.5	762.1	1123.6	9.4
15	42016	Gabua Fultala Subproject	WCD	750.0	1639.3	1914.2	274.9	218.6	255.2	36.7	4909.9	7842.0	1656.2	1275.9	2932.1	59.7
16	42017	Nabinpur-Dharla Beel SP	FMD	932.0	1027.1	1283.4	256.3	110.2	137.7	27.5	4389.3	6559.3	1514.2	655.9	2170.0	49.4
17	42018	Kata Khal SP	FMD	221.0	275.3	295.5	20.2	124.6	133.7	9.2	1127.8	1207.5	79.7	0.0	79.7	7.1
18	42020	Ulushi Khal SP	WCD	650.0	1221.5	1318.6	97.2	187.9	202.9	14.9	4384.8	5485.0	615.9	484.3	1100.2	25.1
19	42021	Fasiakhali Irrigation SP	CAD	358.0	651.0	755.1	104.0	181.8	210.9	29.1	3453.3	4221.0	538.7	229.0	767.8	22.2
20	42022	Sapleza SP	DR	896.0	619.8	839.7	219.8	69.2	93.7	24.5	1821.4	2665.0	614.6	228.9	843.5	46.3
21	42023	Jalabaria SP	DR	700.0	1300.0	1591.5	291.5	185.7	227.4	41.6	6420.7	8371.0	927.6	1022.7	1950.3	30.4
22	42024	Nishanbaria-Gazimahmud Subproject	DR	750.0	793.9	1004.9	210.9	105.9	134.0	28.1	2248.9	3306.5	288.2	769.5	1057.6	47.0
23	42025	Kujail-Raktadaha SP	WCD	682.0	1508.5	1530.0	21.5	221.2	224.3	3.1	7468.1	9008.0	-16.1	1556.1	1539.9	20.6
24	42026	Ratandhara-Sodakhali SP	WCD	511.0	1054.0	1115.8	61.8	206.3	218.4	12.1	5020.6	5800.4	996.3	-216.5	779.8	15.5
25	42027	Nuruddin Khal SP	WCD	235.0	438.5	574.5	136.0	186.6	244.5	57.9	1232.4	2090.4	554.0	303.9	857.9	69.6
26	43028	Sapdanga Khal SP	WCD	650.0	649.1	815.1	166.0	99.9	125.4	25.5	1574.2	2051.0	428.3	48.5	476.8	30.3
27	43029	Burichar-Nur Ali Charakgachia Subproject	WCD	500.0	1258.7	1417.8	159.1	251.7	283.6	31.8	6405.5	8198.1	1388.7	404.0	1792.6	28.0
28	43030	Aylapatakata Subproject	DR	720.0	1400.9	1634.0	233.1	194.6	226.9	32.4	4177.8	6267.2	721.6	1367.9	2089.4	50.0
29	43031	Balgaur-Julupara SP	DR	1000.0	1704.0	1875.3	171.3	170.4	187.5	17.1	9589.8	11220.7	1891.8	-260.8	1631.0	17.0
30	43032	Chalk Temukh-Ismsgati SP	FMD	740.0	1113.0	1323.5	210.5	150.4	178.8	28.4	4959.2	7280.8	1962.9	358.8	2321.7	46.8
31	43033	Sontospara-Chatra SP	DR	900.0	1453.2	1500.4	47.2	161.5	166.7	5.2	7939.4	8746.9	290.4	517.2	807.5	10.2
32	43034	Potkakhali Subproject	DR	597.0	1212.1	1478.5	266.4	203.0	247.7	44.6	4017.0	6694.1	900.8	1776.3	2677.1	66.6
33	43035	Goalkandib Dhuturbari Khal SP	FMD	500.0	1081.5	1332.4	250.9	216.3	266.5	50.2	6797.2	8958.0	736.2	1424.6	2160.8	31.8
34	43036	Bhadraboti South SP	DR	700.0	1122.3	1400.8	278.5	160.3	200.1	39.8	5828.6	7714.1	4366.3	-2480.8	1885.5	32.3

Sl. No.	SP ID No.	Subproject Name	SP Type	Net Area	Cropped Area (ha)			Cropping Intensity (%)			Total Production (MT)		Incremental Crop Production(MT)			Increment (%)
				(ha)	Base	2015-16	Increment	Base	2015-16	Increment	Base	2015-16	Cereal	Non-cereal	Total	
35	43037	Bhadraoti Khal (North) SP	DR	850.0	1078.1	1532.0	453.8	126.8	180.2	53.4	5064.7	8221.4	2413.6	743.0	3156.6	62.3
36	43038	Shilaur-Dogangy Khal SP	DR	623.0	1341.3	1463.2	121.9	215.3	234.9	19.6	4646.0	5774.9	960.3	168.5	1128.8	24.3
37	43039	Ghoghodima Khutbatala SP	CAD	105.0	111.9	174.9	63.0	106.5	166.6	60.0	475.9	895.7	376.4	43.4	419.8	88.2
38	43040	Singkhali Subproject	DR	570.0	818.6	915.0	96.4	143.6	160.5	16.9	2428.0	5815.8	365.8	3022.0	3387.8	139.5
39	43041	Sonbonia SP	DR	208.0	265.5	384.6	119.1	127.6	184.9	57.3	593.4	1190.8	221.7	375.7	597.4	100.7
40	43042	Atrai-Burigonj SP	DR	1000.0	2270.1	2450.6	180.5	227.0	245.1	18.1	9022.3	13429.1	2214.5	2192.2	4406.7	48.8
41	43043	Dehergati SP	DR	700.0	1172.5	1464.0	291.5	167.5	209.1	41.6	4325.0	6460.3	1411.2	724.0	2135.3	49.4
42	43044	Garabania Subproject	DR	300.0	658.7	693.5	34.8	219.6	231.2	11.6	2864.7	4516.7	301.1	1350.8	1652.0	57.7
43	43045	Pokkhali Naikhongdia SP	WC (RD)	663.0	998.4	1079.4	81.0	150.6	162.8	12.2	4599.1	5392.4	400.9	392.4	793.3	17.2
44	43046	Thim Chari Purbakul SP	WC (RD)	784.0	1202.8	1351.4	148.6	153.4	172.4	19.0	5662.2	6512.7	753.4	97.0	850.4	15.0
45	43047	Paschim Digulia SP	WC (RD)	881.0	1232.8	1435.2	202.4	139.9	162.9	23.0	5825.6	7453.3	992.0	635.6	1627.6	27.9
46	43048	Deshantarkathi-Goaribonia Subproject	DR	625.0	1664.8	1820.2	155.5	266.4	291.2	24.9	4572.9	5759.0	492.7	693.4	1186.1	25.9
47	43049	Kafila-Krishnanagar SP	DR	845.0	1344.9	1571.7	226.7	159.2	186.0	26.8	5292.7	6782.1	853.8	635.6	1489.4	28.1
48	43050	Moddah-Purba Rajapur SP	DR	302.0	489.9	732.8	242.9	162.2	242.6	80.4	1340.2	2433.2	672.0	421.0	1093.0	81.6
49	43051	Monirjheel-Sonaichari Khal SP	WC (RD)	637.0	906.9	1132.0	225.1	142.4	177.7	35.3	4577.6	6136.7	1186.6	372.5	1559.1	34.1
50	43054	Mafijan SP	WCD	200.0	374.9	475.7	100.8	187.4	237.9	50.4	1769.2	2777.9	121.2	887.5	1008.7	57.0
51	43055	Dholdholia SP	FMD	748.0	1374.9	1643.3	268.4	183.8	219.7	35.9	7525.4	8520.0	897.7	97.0	994.7	13.2
52	43056	Latipur-Etharpur Khal SP	DR	666.0	1544.9	1768.4	223.5	232.0	265.5	33.6	9344.5	10350.8	954.1	52.2	1006.3	10.8
53	43057	Adabaria SP	FMD	270.0	284.6	457.9	173.3	105.4	169.6	64.2	649.4	1196.5	473.1	74.0	547.1	84.2
54	43058	Shabupura Khal SP	DR	540.0	692.7	980.2	287.4	128.3	181.5	53.2	1554.5	2592.4	940.8	97.0	1037.8	66.8
55	43059	Kederpur-Gobindapur SP	WCD	630.0	1283.0	1552.2	269.2	203.7	246.4	42.7	8061.6	9239.7	1092.4	85.7	1178.1	14.6
56	43060	Ponahura SP	FMD	370.0	572.4	802.0	229.6	154.7	216.8	62.1	1435.9	1946.2	462.3	48.1	510.4	35.5
57	43061	Bhagalpur-Montala SP	FMD	714.0	1161.1	1396.8	235.6	162.6	195.6	33.0	3617.4	4255.2	365.9	272.0	637.8	17.6
58	43062	Gouripur SP	DR	791.0	1136.4	1261.9	125.5	143.7	159.5	15.9	3681.3	4327.7	597.9	48.5	646.4	17.6
59	43063	Kuthurakandi Khal SP	WCD	750.0	1123.5	1364.8	241.3	149.8	182.0	32.2	4132.9	6453.7	1739.3	581.5	2320.8	56.2
60	43064	Dier Khal SP	FMD	665.0	410.5	532.0	121.5	61.7	80.0	18.3	2184.7	2949.9	392.7	372.5	765.2	35.0
61	43065	Bhanga Kha-Niamatpur SP	WCD	665.0	1385.4	1709.3	323.9	208.3	257.0	48.7	6363.3	9145.7	1664.5	1117.9	2782.4	43.7
62	43066	Bhelumia SP	DR	420.0	696.0	887.9	191.9	165.7	211.4	45.7	2283.8	3598.9	1066.7	248.5	1315.2	57.6
63	43067	Purba Char Madras SP	DR	769.0	1861.9	2040.9	178.9	242.1	265.4	23.3	5460.3	7155.6	1225.6	469.7	1695.3	31.0
64	43068	Paschim Char Madras SP	DR	890.0	1951.0	2339.3	388.3	219.2	262.8	43.6	5253.5	7288.1	1643.1	391.5	2034.6	38.7
65	43069	Char Samaia SP	DR	267.0	647.0	863.6	216.6	242.3	323.4	81.1	1917.9	3326.2	970.0	438.4	1408.4	73.4
66	43070	Panchagram SP	DR	820.0	1693.5	2195.1	501.6	206.5	267.7	61.2	6430.6	9807.7	2400.6	976.5	3377.0	52.5
67	43071	Bokrabari SP	WCD	353.0	498.0	610.4	112.3	141.1	172.9	31.8	2736.0	3006.7	257.0	13.8	270.8	9.9
68	43072	Pathuria-Kalibari SP	FMD	375.0	496.4	630.4	134.0	132.4	168.1	35.7	2679.7	3718.1	766.7	271.7	1038.4	38.8
69	44074	Swarupdaha Dhunar Khal SP	WCD	841.0	332.4	380.6	48.2	39.5	45.3	5.7	1612.5	1875.5	263.0	0.0	263.0	16.3
70	44075	Losnabad Phalaghar SP	DR	900.0	1816.6	2037.2	220.6	201.8	226.4	24.5	7274.4	9609.8	1264.0	1071.4	2335.4	32.1
71	44077	Saorakathi SP	DR	750.0	1172.5	1443.7	271.3	156.3	192.5	36.2	4325.0	5122.7	246.4	551.2	797.6	18.4
72	44078	Dhankundi SP	FMD	509.0	1097.6	1225.5	127.9	215.6	240.8	25.1	5710.8	5959.0	1745.3	1497.2	248.1	4.3
73	44080	Cholish Kahania SP	DR	869.0	1636.4	1919.8	283.4	188.3	220.9	32.6	8425.7	9808.5	961.7	421.1	1382.8	16.4
74	44081	Thakur Mollik SP	DR	920.0	1299.9	1515.0	215.1	141.3	164.7	23.4	6023.7	8143.6	994.7	1125.2	2119.9	35.2
75	44083	Amua	DR	920.0	1175.3	1357.5	182.2	127.8	147.6	19.8	3448.9	4399.0	520.9	429.2	950.1	27.5

Sl. No.	SP ID No.	Subproject Name	SP Type	Net Area (ha)	Cropped Area (ha)			Cropping Intensity (%)			Total Production (MT)		Incremental Crop Production(MT)			Increment (%)
					Base	2015-16	Increment	Base	2015-16	Increment	Base	2015-16	Cereal	Non-cereal	Total	
		Patikhalghata SP														
76	44084	Shitly Khal SP	DR	800.0	2017.0	2259.9	242.9	252.1	282.5	30.4	7528.5	8293.9	247.1	518.3	765.4	10.2
77	44092	Faridpur Badurerjan SP	FMD	310.0	583.0	806.1	223.1	188.1	260.0	72.0	3267.4	5604.0	715.2	1621.4	2336.6	71.5
78	44093	Paschim Joar SP	CAD	250.0	394.3	475.3	81.0	157.7	190.1	32.4	1876.4	2317.6	441.2	0.0	441.2	23.5
79	44094	Shree Khal SP	WCD	450.0	1123.1	1285.0	161.9	249.6	285.6	36.0	9244.6	10196.1	579.0	372.5	951.5	10.3
80	44095	Kalapania Khal SP	WCD	440.0	394.7	631.6	236.8	89.7	143.5	53.8	1553.4	2929.7	1015.1	361.3	1376.3	88.6
81	44097	Dudhal SP	FMD	415.0	666.8	836.4	169.6	160.7	201.6	40.9	2540.0	3110.3	521.8	48.5	570.3	22.5
82	44101	Bonduk Khali Khal	FMD	268.0	468.8	679.8	210.9	174.9	253.6	78.7	1635.1	2769.1	917.5	216.6	1134.1	69.4
83	44103	Gotkhali-Chalitabunia Khal SP	DR	840.0	1659.1	1821.1	161.9	197.5	216.8	19.3	6344.5	8667.7	1309.0	1014.1	2323.1	36.6
84	44104	Sarengal SP	DR	440.0	1045.7	1248.2	202.4	237.7	283.7	46.0	3867.0	5038.3	798.8	372.5	1171.3	30.3
85	44106	Sachilapur SP	DR	480.0	1160.3	1281.8	121.5	241.7	267.0	25.3	4121.9	4834.2	339.8	372.5	712.3	17.3
86	44107	Amail-Indail SP	WCD	545.0	1286.0	1567.4	281.4	236.0	287.6	51.6	3605.6	4843.4	865.3	372.5	1237.8	34.3
87	44111	Kashipur SP	DR	909.0	1817.8	1943.7	125.9	200.0	213.8	13.9	7763.8	8206.5	329.3	113.4	442.7	5.7
88	44112	Harirampur Beel SP	FMD	396.0	686.6	889.1	202.4	173.4	224.5	51.1	3902.7	4916.4	932.7	81.0	1013.7	26.0
89	44113	Jhiry Bridge-Jangalpara Khal SP	FMD	440.0	1028.7	1150.2	121.5	233.8	261.4	27.6	7198.2	7694.5	496.3	0.0	496.3	6.9
90	44117	Deulkathi Binnapara SP	DR	884.0	1891.5	2178.9	287.4	214.0	246.5	32.5	7019.5	8263.2	1124.7	119.1	1243.7	17.7
91	44119	Banglabazar-Gopalpur SP	WCD	690.0	430.8	714.2	283.4	62.4	103.5	41.1	1568.1	2975.5	988.5	418.9	1407.4	89.7
92	44125	Chakhar SP	DR	815.0	1398.4	1660.7	262.3	171.6	203.8	32.2	5645.2	6973.9	956.2	372.5	1328.7	23.5
93	44127	Haripasha Pironda SP	DR	890.0	1951.0	2183.0	232.0	219.2	245.3	26.1	5253.5	5710.0	359.5	97.0	456.5	8.7
94	44130	Purendar Vushan C.Bari S.Ghat SP	WCD	500.0	1075.3	1127.5	52.2	215.1	225.5	10.4	4551.8	4664.8	64.6	48.5	113.1	2.5
95	44131	Guarekha SP	DR	996.0	1627.4	1867.5	240.2	163.4	187.5	24.1	5861.0	6796.8	935.8	0.0	935.8	16.0
96	44135	Debdun-Bauisona Khal SP	WCD	253.0	555.5	676.9	121.5	219.6	267.6	48.0	1881.1	2260.2	330.5	48.6	379.1	20.2
97	44136	Paschim Chhayam Takta SP	DR	337.0	655.1	852.6	197.6	194.4	253.0	58.6	2790.9	3502.4	662.9	48.6	711.5	25.5
98	44143	Hetalia-Ballabhpur Khal SP	DR	467.0	866.8	1069.2	202.4	185.6	229.0	43.3	3044.8	4062.8	622.0	396.0	1018.0	33.4
99	45145	Naimuri Alidaha SP	WCD	380.0	782.6	920.3	137.7	205.9	242.2	36.2	3015.8	3338.4	225.8	96.8	322.6	10.7
100	45148	Bot-tola SP	WCD	922.0	2059.1	2140.1	81.0	223.3	232.1	8.8	6188.3	7343.1	526.7	628.0	1154.8	18.7
101	45150	Chandpasha SP	WCD	616.0	1547.4	1770.0	222.7	251.2	287.3	36.1	8942.8	10279.8	592.0	745.0	1337.0	15.0
102	45152	Biddyanandapur SP	DR	383.0	747.0	868.4	121.5	195.0	226.7	31.7	2734.9	3199.8	416.3	48.6	464.9	17.0
103	45157	Satal Beel SP	DR	290.0	516.2	690.3	174.1	178.0	238.0	60.0	1905.4	2503.4	549.5	48.5	598.0	31.4
104	45168	Chalitabunia-Ghatichara SP	WCD	850.0	1133.2	1384.2	251.0	133.3	162.8	29.5	3427.3	4563.5	715.2	421.0	1136.2	33.2
105	45173	Charadi SP	WCD	650.0	783.0	1066.4	283.4	120.5	164.1	43.6	2580.0	4359.9	1329.2	450.7	1779.9	69.0
106	45180	Tengrakhali Char Tengrakhali Khal SP	WCD	280.0	441.3	593.5	152.2	157.6	212.0	54.4	1240.8	2177.2	355.3	581.1	936.4	75.5
107	45205	Napitkhali Burirchar Khal SP	DR	550.0	1099.8	1205.1	105.3	200.0	219.1	19.1	2279.6	3227.1	381.9	565.6	947.5	41.6
108	45211	Uttampur SP	DR	550.0	1003.4	1327.5	324.1	182.4	241.4	58.9	2577.8	4266.4	1075.2	613.3	1688.5	65.5
109	46240	Amtoly Ruhita Potkakhali SP	DR	847.0	1774.3	2141.1	366.7	209.5	252.8	43.3	4047.6	5915.4	884.8	982.9	1867.7	46.1
Grand Total (109 SPs)				67653.0	119287.7	140540.1	21252.4				493899.2	637308.6	94543.3	48866.1	143409.4	
Average (109 SPs)				620.7	1094.4	1289.4	195.0	176.3	207.7	31.4	4531.2	5846.9	867.4	448.3	1315.7	36.2

Source: Project studies

APPENDIX D

Table D.1: Fisheries Change in the Number of Fishers, Incremental Changes in Production (t) and Impact on Livelihood of Genuine Fishers and Cultivators

Water Conservation Sub-project (Regulated)

Sub-project					Change in No. of Fishers		Incremental Production (t)			Change in Livelihood	
ID No.	Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
SP41001	Nimai Khari	Dinajpur	Sadar	WC _s	0	0	0.0	0.0	0.0		
Total					No Fisheries						

Water Conservation Sub-project (Non-regulated)

Sub-project					Change in No. of Fishers		Incremental Production (t)			Change in Livelihood	
ID No.	Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
SP43031	Belgaour-Julupara	Naogaon	Niamatpur	WC	0	16	-26.0	53.0	27.0	Deteriorated	Improved
SP43042	Atrai-Buriganj	Naogaon	Atrai	WC	0	40	-15.0	29.0	14.0	Deteriorated	Improved
Total						56	-41	82	41		
Sub-project Average						28	-20.5	41	21		
Range						16 - 40	-26 - 15	29 - 53	14 - 27		

Drainage and Water Conservation Sub-projects (Regulated)

Sub-project					Change in No. of Fishers		Incremental Production (t)			Change in Livelihood	
ID No.	Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
SP41002	Purba Sarail-Madal	Joy purhat	Kalai	DR&WC _s	0	0	0.0	0.0	0.0		
SP43041	Sonbunia	Barguna	Sadar	DR&WC _s	0	126	11.0	19.6	30.6	Improved	Improved
Total						126	11	20	31		
Sub-project Average						63	5.5	10	15		
Range						0 - 126	0 - 11	0 - 20	0 - 31		

Drainage and Water Conservation Sub-projects (Non-regulated)

Sub-project					Change in No. of Fishers		Incremental Production (t)			Change in Livelihood	
ID No.	Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
SP42016	Gabua Fultala	Barguna	Betagi	DR&WC	0	15	4.0	19.0	23.0	Improved	Improved
SP42025	Kujali Raktodoha Sadokhali	Naogaon	Atrai	DR&WC	0	19	-18.0	39.0	21.0	Deteriorated	Improved
SP42026	Ratan-Dandra	Naogaon	Atrai	DR&WC	0	17	-19.0	29.0	10.0	Deteriorated	Improved
SP43029	Burichar-Nur Ali- Charakgachia	Barguna	Sadar	DR&WC	0	200	6.0	18.0	24.0	Improved	Improved
SP43040	Shingkhali	Barguna	Amtoly	DR&WC	0	60	1.0	25.0	26.0	Improved	Improved
SP43044	Garabunia	Barguna	Amtoly	DR&WC	0	93	-5.0	19.0	14.0	Deteriorated	Improved
SP43048	Deshantarkathi Gouribunia	Barguna	Betagi	DR&WC	0	75	1.0	38.0	39.0	Improved	Improved
Total						479	-30	187	157		
Sub-project Average						68	-15.0	27	22		
Range						17 - 200	-19 - 6	18 - 39	14 - 39		

Flood Management, Drainage and Water Conservation Sub-project (Regulated)

Sub-project					Change in No. of Fishers		Incremental Production (t)			Change in Livelihood	
ID No.	Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
SP41010	Swarna Khali Khal	Dhaka	Dhamrai	FMD&WC _s	0	40	-2.0	12.0	10.0	Deteriorated	Improved
Total						40	-2	12	10		
Sub-project Average						40	-2.0	12	10		

Drainage Sub-projects (Non-regulated)

Sub-project					Change in No. of Fishers		Incremental Production (t)			Change in Livelihood	
ID No.	Name	District	Upazila	Type	Genuine Fishers	Fish Cultivators	Floodplain	Permanent Water Bodies	Total	Fishers	Cultivators
SP42024	Nisanbaria-Gazimahmud	Barguna	Sadar	DR	0	101	6.0	10.0	16.0	Improved	Improved
SP43030	Ay lapatakata	Barguna	Sadar	DR	0	10	7.0	18.0	25.0	Improved	Improved
SP43034	Potkakhali	Barguna	Sadar	DR	0	82	14.0	11.0	25.0	Improved	Improved
Total						193	27	39	66		
Sub-project Average						64	9.0	13	22		
Range						10 - 101	6 - 14	10 - 18	16 - 25		

Source: Project studies