



## SAP008 "Extended Community Climate Change Project-Flood (ECCCP-Flood)"

# Quarterly Progress Report January 2022-March 2022

BASIC	<b>INFORMA</b>	TION OF	THE PROJECT
212020			

Project ID / Output					
ID	SAP 008				
	<b>Extended</b> Communit	ty Climate Change Proj	ect-Flood (ECCCP-		
Full Title:	Food)				
Start Date	27 April 2020	Completion date:	26 April 2024		
		Budgeted allocation			
Total Project Fund:		1st year	USD 2.94 Million		
GCF (Grant):	USD 13.33 Million	2nd year	USD 3.88 Million		
PKSF (Co-	USD 9.68 Million	Total disbursement by	USD 4 07 Million		
financing):	USD 3.65 Million	GCF	USD 4.97 MIIIIOII		
National Designated	Economic Relations D	ivision (ERD), Ministry of	Finance, Govt. of the		
Authority:	People's Republic of Bangladesh.				
Accredited Entity:	Palli Karma-Sahayak F	Foundation (PKSF)			
Country:	Bangladesh				

## Acronyms

GCF	Green Climate Fund
ECCCP	Extended Community Climate Change Project
IE	Implementing Entity
CCAG	Climate Change Adaptation Group
HHs	Households
PMU	Project Management Unit
POs	Partner Organizations
PVA	Preparation of Vulnerability Assessment
ESS	Environmental and Social Safeguard
FGD	Focus Group Discussion
GRM	Grievance Redress Mechanism
PRA	Participatory Rural Appraisal
BADC	Bangladesh Agricultural Development Corporation

#### **Executive Summary**

The ECCCP-Flood project personnel (PMU and IE staff) is trying to reach the target milestone according to the project plan and is expected to reach project achievement within the project deadline through the quality implementation of project activities. Activities under outcome 1 (Institutions and community groups strengthened capacity on addressing climate change) like CCAG formation (100%), Vulnerability assessment and local level adaptation plan are already completed. Outcome 2 (Protect homestead from the adverse effect of climatic change) has achieved a satisfying target though it was delayed at the initial stage of project implementation. Activity under outcome 3 (increased access to safe water and sanitation) entirely depends on outcome 2. The targeted participants having raised plinth adorned with tube well and climateresilient sanitary latrine by the project support have now easy access to safe water sources and sanitation. As most of the people of the project area live on agriculture and livestock which is highly vulnerable to climate change-induced floods, therefore, project outcome 4 (Access to flood-resilient livelihood) has supported the targeted project participants on a large scale through the promotion of climate resilient farming. To achieve this outcome, the project has continued to provide slatted houses, seeds, agricultural inputs and training from the project. As the project couldn't able to reach the expected target milestone in some activities due to some uncertain challenges. Hence, the project has addressed those challenges and will adjust the overall target and incorporate them in the next quarter plan to prepare an inclusive and gapfilling action plan for the upcoming days.



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#### A. Introduction

Due to climate change, the frequency and magnitudes of natural hazards and disasters have increased significantly over the last decade. Bangladesh is known as one of the role model countries in the world for formulating and making policies in disaster management (DM) and disaster risk reduction (DRR). Due to the geographical location of the country, Bangladesh faces water-induced disasters like floods and riverbank erosion every year. Consequently, the people living in low-lying areas have been suffering from these events over the years. The northern part of Bangladesh is more vulnerable to flood and riverbank erosion as the Brahmaputra River entered into this country through this region. Specially many low-lying areas of Nilphamari, Lalmonirhat, Kurigram, Gaibandha, and Jamalpur districts are inundated every year as three major rivers witness a rise in water level due to heavy flow and rain. There is a saying regarding the differential vulnerability of populations, 'disasters do not discriminate; society does. The saying refers to that severity of disasters does not depend only on the magnitude of the event; it mostly depends on the social, economic and geographical conditions of the affected populations. Palli Karma-Sahayak Foundation (PKSF) has designed a project entitled "Extended Community Climate Change Project-Flood (ECCCP-Flood)" with a view to increasing the resilience of the flood vulnerable populations to climate change and its impacts.

With financial assistance from Green Climate Fund (GCF), PKSF has been implementing the project in Nilphamari, Lalmonirhat, Kurigram, Gaibandha, and Jamalpur districts through its partner organization (PO) which is called as Implementing Entity (IE) for this project . Under the supervision of the project management unit (PMU), nine (9) Implementing Entities (IEs) have been carrying out the implementation of project activities in the above-mentioned districts according to the goal and objectives of the project. The goal of the project is 'to increase the resilience of the poor, marginalized and climate-vulnerable communities to the adverse effects of climate change in the flood-prone areas of Bangladesh'. Including others, the main activities of these 4 (four) year-long projects are to raise homestead plinths, install tube wells to create access to safe drinking water, construct flood-resilient latrines, support to construct of slatted houses for rearing goat/sheep, cultivate high value flood tolerant crops, enhance knowledge of the project participants and implementing entities (IEs) through meetings, trainings, workshops and Seminars.

This quarterly progress report (QPR) presents the achievement carried by the PMU with the support of IEs from January to March 2022. Therefore, the purpose of this report is to document and share the achievement, success stories, best practices, and challenges during the quarter and draw some recommendations to overcome the risks and challenges for the best outcomes of the project.

## **B.** Project brief

**Goal:** The goal of the project is to increase the resilience of the poor, marginalized and climatevulnerable communities towards the adverse effects of climate change in flood-prone areas of Bangladesh.

## **The Project Participants**

The project has targeted 20,000 flood-vulnerable households that will cover approximately 90,000 people. The project has developed selection criteria for the project participants during the design phase. These are:

- i. Those who are living in riverine char and low-lying flood vulnerable areas;
- ii. Priority on women-headed households and other disadvantaged groups;
- iii. Poor and Ultra-poor Households;
- iv. Daily income is less than USD 1.75;
- v. Those who are not receiving any support from other projects or organization;

## **Project** area

The project is being implemented in the 5 flood-vulnerable districts namely Nilphamari, Lalmonirhat, Kurigram, Gaibandha, and Jamalpur. The districts were selected based on two criteria i.e., intensity and frequency of flood and density of poverty.

## Expected outcomes of the project

The project has identified four outcomes that will contribute to achieving the selected impact areas of GCF through the achievement of the project goal.

- 1. Institutions and community groups strengthened capacity on addressing climate change
- 2. Protection of homestead from the adverse effect of flood
- 3. Increased access to safe water and sanitation
- 4. Access to flood-resilient livelihood.

## **C. Overall progress**

## **1.0 Institutions (Implementing Entities) and community groups strengthened capacity on addressing climate change**

1.1 Climate change adaptation groups (CCAGs) formed and operationalized

#### 1.1.1 Beneficiary selection and group formation

The project followed the systematic process of beneficiary selection. The final beneficiary selection process followed intensive consultations at the district, upazila (sub-district), union and community levels. In this process, the Field Facilitator (FF) of the implementing entities (IE) has conducted community consultation meetings at the selected village/community with the participation of the community people of different categories, where a list of most vulnerable households was prepared. All selection criteria were strongly met following the beneficiary selection criteria according to the project guideline with the active collaboration of respective areas' local community leaders, religious leaders, and local government representatives. The project already completed its beneficiary selection process and selected 21381 HHs (106%). Those households represent 45,784 male and 45,779 female project participants. The project assumes that 1, 07,590 (male-54752, female-52838) people from the community indirectly benefitted from the project's support. Priority was given to female participants and disadvantaged groups as the project plan while selecting participants.



Figure 1 Total direct and indirect project participants

People in the project areas are more dependent on natural resources, have limited livelihood diversity, and are thus vulnerable to climatic variation. To mitigate the climatic uncertainties project formed Climate Change Adaptation Group (CCAG) at the field level according to the project plan. The CCAG is the platform where representative members are able to gain knowledge on climate change issues like weather forecasting, mitigation, and adaptation issues through regular group meetings at their community level. They didn't only utilize that information for their own purpose but also disseminate those among neighbors along with

adjacent communities. The project already formed 1000 CCAG. One participant from every household was selected to be a member of this group and attend the monthly scheduled meeting. Therefore, 21381 members from the selected 20381 HH were also selected for the CCAG meeting where 20091 females and 1290 males. As the project intended to give priority to women participants, consequently, it included 94% of female participants as CCAG member. Most of the CCAGs consist of 20-30 participants on average. The project also took into account the gender perspective while selecting the group leader, secretary, and cashier, and further the allocated their roles and responsibilities in CCAG in order to access to project support. The active involvement of the project participants enables them to prepare an action plan, implement the community-based activity, and adapt the new technologies which have a long-term impact on the community.

SL	IE	HHs	Total Direct Beneficiaries			Indirect Beneficiaries (Communities)			
	name		Male	Female	Total	Male	Female	Total	
1	ESDO	5300	12017	11832	23849	8670	9255	17925	
2	NAZIR	1280	2822	2506	5328	2450	2392	4842	
3	NDP	3400	8156	8458	16614	8815	9088	17903	
4	POPI	1280	2822	2506	5328	3010	2900	5910	
5	SHARP	1000	2243	2312	4555	2417	2491	4908	
6	SSS	4000	7123	7717	14840	9260	10032	19292	
7	TMSS	2000	4046	4063	8109	6265	5020	11285	
8	PMUK	2121	4410	4590	9000	8150	7850	16000	
9	GBK	1000	2145	1795	3940	5715	3810	9525	
Tota	1	21381	45784	45779	91563	54752 52838 10759		107590	

Table 1- Overview of project IE-wise total direct and indirect project participants

## 1.1.2 Preparing Project participants' socio-economic profile

The socio-economic profile is a key element to assess the status of the social baseline of the project participants. The project already completed all the socio-economic profiles of the selected project participants (21381 nos). Field level staff of the IEs have visited door to door to select the participants and collected the required information in the default formats through the guidance provided by the PMU to prepare the profile.

## 1.1.3 Arranging monthly group meetings on climate change issues of CCAGs

The project has formed Climate Change Adaptation Group (CCAGs) to deliver support in groups by ensuring participation and collective decision of the affected targeted participants in implementing the proposed intervention. The CCAG holds monthly meetings every month after its formation. The meeting is held at the community level and the meeting time is decided by the group members. During this reporting period, the project organizes 3765 CCAG meetings. Overall, it arranged 10,401 meetings during the project total span. The CCAG is formed with an average of 20-30 members and was selected within a close neighborhood so

that they can meet regular basis. The CCAG structure comprises of a Chairperson, a Cashier, a Secretary and General members. This CCAG member discusses different issues on climate change including project supports, weather and climate, causes of climate change, observed changes of climate change, impacts of climate change on their lives and livelihoods, preparing the plan for addressing those impacts, adaptation strategy, pre-flood preparedness, flood response activities, goat/sheep rearing method and management in slatted house, prepare and use of compost, familiarize with modern agricultural technologies, homestead vegetable gardening and fruit tree plantation on a raised plinth, benefits for using the sanitary latrine, hygiene issues, and practices, etc.

Due to the involvement in the CCAG, the member received the below-mentioned benefits:

- Easy to take decisions: Regular attending in the CCAG meeting enables the project participants to take necessary decisions by addressing climate change issues. From the meeting, they also identify their needs and decide who will get what kind of support from the project.
- **Dissemination of information:** The Project participants could disseminate any information specially on climate change issues and training knowledge on climate-resilient farming among the community people.
- **Collection of community-level information:** The group meeting allows the project staff to collect any information from the community in a short time from the CCAG member for the convenience of project interventions. That information further supports them in their decision-making process and compares the changes to them with the community.
- **Information about service providers:** Being involved in the CCAG, the participants come to know about the project support. In addition, the CCAG members also communicate with the local service providers and local leaders to get any support like livestock, agriculture sector, vaccination support, training information, loan information, etc. as they need.

Overall, CCAG supports the community through providing technical support or guidance, sharing relevant information knowledge, experience, and good practices, promoting synergy, and strengthening engagement, etc. It helps to build strong relationships among the group members. It also helps to build their capacity to solve their problems by themselves, especially by building resilience against climate change and its negative consequences on their lives and livelihoods and at the same time improve their livelihoods through taking adaptation measures to the climate change.

## 1.2 Preparation of vulnerability assessment and adaptation action plan

Participatory Vulnerability Assessment (PVA) has been carried out from the beginning of the ECCCP-Flood project. This analysis helps to understand vulnerability, its root causes, and the most vulnerable groups, and agree on actions by, with, and to people to reduce their vulnerability. It's a tool for analysing the differentiation of the impacts of vulnerabilities effectively. PVA also helps the community to identify the actual needs of the beneficiary and helps to prepare social action plan to mitigate the climate change hazards. Each CCAG is

responsible to prepare PVA along with an adaptation action plan. The project has already carried out 1000 PVA with the support of 1000 CCAG.

Through this, the CCAG members are now familiar with Adaptation Action Plan through their active participation in preparing the adaptation action plan. Based on the PVA the project has further prepared 1000 local level adaptation action plans with the involvement of the project participants, local community peoples, local elites, religious leaders, and other relevant stakeholders.

# **1.3 Organize Training on Climate Change conducted for roject Participants and Stakeholders**

## 1.3.2 Preparing training plan and organizing training sessions for project participants

The existing livelihood of the communities in project areas are found not resilient so far. This project has been providing capacity-building training on livelihoods in the context of climate change impacts in Bangladesh. It could also be considered as a community-led solution that may improve the living conditions of the climate-vulnerable people. Different types of training were organized at the field level for the project participants. The people living in the project areas are mostly involved with agricultural activities and livestock rearing. Therefore, the project is trying to promote improved and flood-resilient crop cultivation and goat/sheep rearing through training and creating mass awareness at the community level.

With the support from IEs, the project has organized 50 batches of training on goat rearing, management and leadership skills during this quarter. A total of 1267 participants were attended whereas 1252 were female and 15 male. In total, the project has conducted 267 batches of training and reached 6454 participants (Female 5378, Male 1076). Resource persons from the concerned departments, such as Upazila Livestock Officer (ULO) and Upazila Agriculture Officer (UAO) have taken a session in the training. Besides, project IE staff facilitated the leadership skill training.

This type of training enhanced the knowledge and skills of the participants on adaptation measures and helped to reduce loss and damage to their resources and productions of the respective flood-tolerant crops.

	Participants Attended								
	Jan-2022 to Mar-2022				Till Mar-2022				
Training title	No. of	No. of Participants			No. of	No. of Participants			
	Batch	Total	Male	Female	Batch	Total	Male	Female	
Goat rearing and management	44	1123	15	1108	138	3415	139	3276	
Training on Flood tolerant Rice BRRI Dhan 52 cultivation	0	0	0	0	33	711	369	342	
Training on BARI-30 Wheat cultivation	0	0	0	0	86	2113	545	1568	
Training on Thai Golden 8 Guava cultivation	0	0	0	0	2	28	15	13	

**Table 1-Training Summary** 

	Participants Attended							
	Jan-2022 to Mar-2022				Till Mar-2022			
Training title	No. of	No. of Participants		No. of	No. of Participants			
	Batch	Total	Male	Female	Batch	Total	Male	Female
Training on Sweet gourd cultivation	0	0	0	0	2	43	8	35
Leadership Skill	6	144	0	144	6	144	0	144
Total	50	1267	15	1252	267	6454	1076	5378

#### 2.0 Protection of homesteads from adverse effects of flood

#### 2.1 Raised homesteads above flood level

#### 2.1.1 Raising homestead plinths in clusters

In the flood-prone char areas, the poor people build their houses in low-lying areas which are regularly inundated by floods. During floods, the project participants of ECCCP-Flood had to leave their houses and take shelter on nearby roads or embankments or any flood shelter. This led to the loss of their household resources including livestock and poultry, increase treatment costs, reconstruction cost of house and homestead, insecurity of women, particularly adolescent girls, etc. which was an additional burden for the poor families. They required a lot of money to compensate for this loss. This cost would be double if the household is affected twice a year. They had to suffer a lot and among them, women & children were victimized most. They could not even cook their food. Household assets, trees, vegetables and other belongings including fences of their houses also were damaged due to waterlogging.

Considering the aforementioned rationale, the project has been raising homestead plinths in its project intervention area for its targeted project participants. The purpose of this activity is to uplift the homestead of poor, extremely poor families as if their homestead won't get submerged in the floodwater anymore. During this reporting period, the project raised 1975 homesteads and in total it raised 4471 homesteads during the total project period. Through this, it has reached to the 45% of its total project target. The raised plinth has changed their life and reduced flood-related suffering. They have been cultivating vegetables and rear goats and poultry on the raised homestead plinth after its being raised. Now, they have access to safe drinking water and sanitary toilets facilities throughout the year on the raised plinth. The project participants now can grow fruit and vegetables on their homestead and can sell surplus products in the market. Thus, the family income has increased. The raised plinth is also helpful to nurture the domestic animals during the flooding period. It is worth to mention that, some of the participants already had a real experience of facing a flood at 2021 with having a plinth above flood level. During that period, they did not need to move anywhere rather they stayed at home. No trees or vegetable garden damage was reported during this flood.

The life of the participants in raised homestead has become easier and more stable. Every flood would have left some anxiety for the beneficiaries but now they become stress-free. All the project participants who received the support of this activity, are expressed their gratitude to the PMU for implementing such an intervention in their area.



Photo 1 PMU visited a raised homestead, implemented by ESDO, Jamalpur



Photo 2 Homestead gardening on the raised plinth, implemented by NDP, Kurigram

#### 2.2 Reconstruction of climate-resilient houses

## **2.2.1** Providing financial support to reconstruct climate-resilient houses on raised plinths

Before receiving the project support, the participants lived in low-lying areas and their homestead plinth was lower than the usual flood level. Every year they had to spend money to construct or repair the homestead which was damaged by the flood. As the selected communities are mainly poor and ultra-poor and live on subsistence agriculture and wage labour. They do not have enough financial capacity to address the additional threat from climate change. Besides, providing support for raising the plinth, the project also provides financial support to reconstruct their houses in order to make it climate-resilient. Already PKSF provided financial support as a loan to reconstruct the climate resilient house of the selected participants.. Overall, the total loan of BDT 10,042,000 is distributed to the 947 project participants from the beginning to till reporting period. The project participants already reconstructed their houses with that loan on the raised plinths. They remarked that they were highly satisfied with having this loan.

#### **3.0 Increased access to safe water and sanitation**

#### **3.1 Installation of flood-resilient tube wells**

#### 3.1.1 Installing tube wells

The project's working areas are riverine char lands, situated around the river of Brahmaputra, Tista, Jamuna. Consultations with the local communities revealed that most of the hand tube wells go inundation by flood almost every year due to climate change. The flood-affected community in the ECCCP-Flood project area was also severely affected by the scarcity of safe drinking water. As the increase of the frequency and intensity of flood, the suffering of safe drinking water would be increased. With the support of the project, the installation of tube-well in the raised homestead plinth has ensured access to safe water within a minimum distance and enabled them to meet water for household use and maintain hygiene.

The project had taken initiative to install 500 climate resilient tube well in order to ensure the safe access of water to the 11,250 project participants. In this regard, the project has achieved gratifying progress in installing tube wells during this period. The project has installed 80 tube wells during the reporting period. The installed tube well allows 2696 project participants to access to extract safe water whereas 1393 are male and 1303 were female. In total, the project has installed 108 (22%) tube wells among the project areas that enable 3350 project participants (Female -1667, Male -1683) to have access to safe water source. Before the installation of tube wells, a consultation with the participants has held at the community level to select the site for tube wells installation. Women heads and disadvantaged groups given preference were while



Photo 4 Installed Climate resilient Tubewell on raised Plinth, Kurigram: implemented by NDP

selecting the participants. The tube well has been installed at a cluster-based approach where an average of 4 to 10 families get access to extract safe water. In addition, they have received necessary technical guidance from local offices of the Department of Public Health and Engineering (DPHE). All the tube wells have been installed above the maximum flood level in flood-prone areas.



Besides the project has been provided with an orientation on 'tube-well repairing and management' to the tube-well management committee members. Regular maintenance of tube wells is a very easy and least cost task. The male members of the community can repair the tube wells. But if the problem is something bigger, the male members hire mason from nearby union or upazila. Maintenance of tube wells requires a small amount of money which is affordable for

Figure 2 Number of beneficiaries using safe water (gender disaggregated)

the communities. People in the area happily collect safe water from tube wells. Arsenic, iron, and microorganism were also tested before installing the tube well. There is no toilet were installed within 30 feet of the tube well. So, no germs can enter the tube-well water from the toilet. The tube-well platform is made of cement concrete which protects the surface water from contamination with tube-well water. Used tube-well water is stored in a soak-well.

After installing flood-resistant tube wells, they use safe tube well water as the need of their family. They use tube well water for maintaining good hygiene practices. This reduces the spread of waterborne diseases. In a word, it helps to practice community hygiene. Women are comfortable using tube wells in groups. Installation of tube wells also considered the utilization of used water from the storage tank (soak well) in the vegetable garden.

## **3.2 Construction of sanitary latrines**

#### 3.2.1 Construct climate-resilient sanitary latrines

Most of the working area of the project is sandy char, which is isolated from the mainland. Some areas are adjacent to plain land but communication is very difficult. As a result, the health system is fragile and the transport system is underdeveloped. There are no registered physicians and access to health education is very limited. As most of the people are poor and extreme poor of the project area, so their financial capacity is also very weak. They cannot afford to install hygienic toilets. So, unhealthy toilets are used in the most homestead. The prevalence of waterborne diseases like diarrhoea, abdominal pain, jaundice, etc. is high in the area. The flood-affected poor people spend a large portion of their income on medical treatment each year. Besides, most of the latrines are placed far away from their house. So, the children, women and elderly people of the project area consider insecure to use latrines at night is .

To overcome the situation, the project has been constructing climate resilient sanitary latrine for the targeted project participants. Before constructing the sanitary latrine, the implementing entities have prepared a model to get approval from PKSF. Meanwhile, the project constructed 550 climate-resilient sanitary latrines till the reporting date whereas 521 sanitary latrines were constructed during this reporting quarter. Currently 5097 project participants (Female 2559, Male 2538) can use this constructed sanitary latrine. Due to construction on the raised plinths, these latrines become resilient to floods. Women, aged, and disadvantaged groups have preferences while selecting the participants for latrines.

The project is trying to promote good practices for health and hygiene among the participants in the project's targeted areas through the CCAG meeting. Issues related to personal and family surrounding hygiene, hygiene, safe water use, waste management, hygienic practices, toilet etc. are discussed in the monthly CCAG meeting. Project participants are now quite aware of the issue of hygiene due to regular attendance in the group meetings. Latrines



Figure 3 Number of beneficiaries using sanitary latrines (gender disaggregated)

are well maintained by the users. Water supply systems are also ensured for maintaining hygiene which they did not practice before the intervention. The required water is then collected from the tank or nearby water resources. Project participants informed that no odour is emitted from the latrine, feces cannot be seen to be floated. The selection of appropriate place latrines made them easy to practice hygiene. The latrine is risk-free for children, pregnant women, the elderly, and the sick because it is not too high above the ground. The handle attached to the latrine has made it easier for the weak to get up and down. The Project participants expressed their gratitude to have this latrine.



Photo 3 Construct of climate resilient sanitary latrine, Kurigram, IE: NDP

#### 4.0 Access to flood-resilient livelihood

#### 4.1 Rearing of goats/sheep in slatted houses

#### 4.1.1 providing support to rearing goats/sheep in slatted houses

Goat rearing is one of the important livelihood activities of most of the poor people of the project area. Goats/sheep are very sensitive to affect by various diseases due to climate change. Extreme weather events due to climate change are supporting the vectors of the diseases. Due to the traditional goat rearing system causes different diseases during the rainy season living on the wet floor, cold injury during winter and heat stress during the hot period. Furthermore, environmental factors such as heat, humidity, rain, and wind can stress goats, obstruct their immune system, and lead to either parasitic or respiratory problems, which can be fatal.. Before receiving project support, participants of the ECCCP-Flood had to sell goats to market or other sources at a low price during the flood. Overall, growth and reproduction of the goat were significantly hampered by the above-mentioned circumstances. But the slatted house supported by the project saves the goat of project participants from such types of uncertainties. Thus it is important to rear goats/sheep in a slatted house with improved practices which can reduce the stress and diseases derived from the climatic shocks.

Proper housing of goats is equally important as goat rearing to the full potential production performance. During the assessment, goat rearing in slatted goat houses has found as a suitable practice in flood-prone areas. During this reporting period, the project already constructed about 1264 of slatted houses for female participants. Through this, the project has completed 3198 slatted houses during the total project period. Slatted house is beneficial for staying at night, ensuring security from being theft, protecting from deadly diseases and preventing them from adverse climatic conditions like direct exposure to sunlight at noon during the summer season, cold stress and heavy rain. Rearing goat/sheep in the slatted house, the emitted gas from goat excreta does not affect goats or sheep.

Goat and Sheep rearing in the slatted house activity is one of the most effective interventions in the ECCCP-Flood project due to the availability of raw materials at the local market. Project participants already received training on improved goat rearing technologies. Department of Livestock technical officials provided training and necessary technical support. Project participants' knowledge and skills have strengthened on goat rearing issues like selection or identification improved variety, vaccination and feed management, etc.

SL	IE Name	Number of Goat before project intervention	Number of Goats before this quarter (Till December, 2021)	Increase or decrease during current quarter (Jan-Mar, 2022)	Net income from goats during current quarter (Jan- Mar, 2022) (income- expenditure)	Total Numb er of Goat (Till date)	Cumulatrive net income (Till date)
1	ESDO	2096	2354	528	684,900	2882	1,195,700
2	NAZIR	160	372	80	85,000	452	220.000
3	NDP	802	802	101	340 300	903	643 600
1	POPI	141	480	73	69,000	553	211 300
<del>7</del> 5	SUADD	612	612	17	228 800	620	221,500
5	эпакр	012	012	17	258,800	029	258,800
6	SSS	2270	2397	565	2,720,500	2962	4,949,350
7	TMSS	572	1178	478	1,464,500	1656	4,069,000
8	PMUK	839	1801	374	507,800	2175	768,400
9	GBK	83	3601	132	209,500	3733	1,429,500
	Total	7,575	13,597	2,348	6,320,300	15,945	13,725,650

**Table 2- Goat Record tracking** 

Such activity motivates the other community people to rear the goat/sheep. Many households have already sold additional goats or bigger ones and earned a good amount of income. The rearing costs of the animals were also reduced. Within a slatted house, one beneficiary can rear 10-12 goats at the same time. Now they don't face problems with rearing goats during flood season. They can earn from goat rearing all the year including flood season. This has supported to increase the income of the households, especially for the female members of the households. Before the project intervention, the project participants had 7,575 goats. Due to the project support, the number of goats has reached to 159,45 now. That indicates that 8,370 goats have

increased during the project period due to the project support. This net income from 15,945 goats is approximately BDT 13,725,650. Particularly, 2,348 goats have increased during this quarter, and which selling price is estimated at BDT 6,320,300. Thus the increased income is supporting to build sustainability and resilience in the face of flood.

#### A Small initiative brought a great change

Hasina (57), is a fairly common name around her area (Jamalpur). She was the apple of my parent's eye that's why they wedded her off to a completely good-hearted man. After the marriage, she was blessed with three lovely children- two boys, and a girl.

But the good times have come to end. Due to her husband's illness and being unable to work, she had to face a lot of hurdles to earn a morsel of rice. So, she has to work as a day labourer in agriculture fields or in other people's houses, or in whatever else she could get her hands into. Her young sons had to start doing some vocational work to earn money instead of studying. But that was not enough. At a very young age, she realized that working for food is sacred and no work is small.

She heard that ESDO is implementing 'ECCCP-Flood-project with the support of PKSF, and has been working with vulnerable women in her area. After becoming a project participant, she started to attend in the CCAG. She was enlisted to receive a slatted house for rearing goats. She received training on the management of goat/sheep rearing, slatted house and cattle which later became useful when she started a small livelihood activity of goat and sheep rearing. Besides,



she also received a loan for buying goats. Now, she has 10 goats, earlier it was only 2 goats. She already earned BDT 20,000 additionally by selling a goat. Now she became a successful entrepreneur in goat rearing. She said that came to learn in the CCAG meeting a way to leverage her skills to attain a much better quality of life by involving in income-generating activities.

She is aware of climate vulnerabilities in her livelihood situation. Now, her gained knowledge and economic prosperity due to goat rearing and homestead gardening support her to build a strong resilience against negative climate impact issues. So, she decided to mentor her teammates about increasing home base income-generating activities, especially goat rearing, and homestead gardening. Rural women tend to be shy, but she realized that there is no need to be ashamed of learning anything at any age. Her group members elected her as their vice president of the CCAG and be the representative of their collective voice. It makes her extremely happy that this group will be together even after the end of the project.

Finally, she wants her 13-year-old daughter to do very well in life. She wants her to study as long as she wants and then become became good leader like the prime minister.

#### 4.1.2 Vaccine Information

Goats and Sheep are the natural hosts of the PPR virus whereas goats are more susceptible than sheep. This disease poses challenges to food production and distribution, affecting rural livelihoods. The IEs of the ECCCP-Flood project conducted a PPR vaccination campaign in its intervention area. Before providing the vaccine, the IE discussed it with project participants. It revealed that most of the project participants agree that goats were dying due to PPR disease. For this reason, the project has taken some steps to carry out a PPR vaccination campaign in consultation with PMU, PKSF. Besides this medicine was also provided for goats. As per the instructions of PKSF, a list was prepared to record the number of goats of the participants in the intervention area. Later the responsible person from IEs contacted with Upazila livestock office. PPR vaccine campaign was organized at several spots in each project area. At the local level, a Paravet was responsible to vaccinate the goat. The project provided vaccines for PPR along with medicines for worms to the 11,223 goats of 2,938 participants through the vaccine campaign.

The project participants have received the necessary knowledge on the slatted house, vaccination, goat/sheep rearing, and management by maintaining the environmental issues through the training session. All project participants are aware of the importance of vaccination.

Responsi ble IE	District	Upazila	Union	Name of Vaccine/Medici	Number of Goats	Number of participants
				ne	vaccinated	
ESDO	Jamalpur	Madarganj	Balijuri	PPR/Renadax &	912	220
			Charpakerdha	Index	1029	260
		Shorishabari	Pogoldigha		509	141
	Gaibandha	Fulchari	Erendabari		753	209
TMSS	Gaibandha	Shaghata	Shaghata	PPR/Renadax &	1120	302
				Index		
NAZIR	Lalmonirhat	Lalmonirhat	Khuniagach	PPR	253	99
		Sadar	Rajpur	]	415	132

**Table 3- Vaccine Information** 

Responsi ble IE	District	Upazila	Union	Name of Vaccine/Medici	Number of Goats	Number of participants
				ne	vaccinated	
POPI	Lalmonirhat	Lalmonirhat	Mogolhat	PPR	266	78
		Sadar				
NDP	Kurigram	Chilmari	Noyer hat	PPR	3225	782
			Chilmari		672	201
		Char Rajibpur	Kodalkati		1457	311
GBK	Nilphamari	Dimla	TepaKhoribari	PPR	612	203
		11,223	2,938			

Overall, this activity has supported to increase the income of the poor households significantly and helped to build a resilient livelihood. It has contributed to increase their income as well as adaptation capacity to the adverse impact of climate change. The economic opportunities have enhanced their food security as well as absorptive and adaptive capacities to build resilience against climate change.

#### 4.2 Financial support/loan to purchase goat and sheep

Till now the project distributed BDT 24,005,200 to 1,405 project participants for purchasing goats. Participants already purchased an improved variety of goats from local and regional markets. The targeted participants including women are capable of repaying the loan. The instalment is also monthly basis. So, this loan is affordable to every project participant. This loan will have different impacts on women in married households and women-headed households. Women in the married household may receive support from their husbands to repay the loan. Though the impact is different, women's heads will not face any challenges because they will repay the loan from earning from goats and other income sources like vegetable cultivation and poultry rearing.

Overall, such activity motivates the other community people to rear the goat/sheep and has a significant impact on the socio-economy of the community.

#### 4.3 Cultivation of flood-tolerant crops

Crops grown on Char Island are mainly dependent on nature. Climate change has brought about a change in the behaviour of agricultural practices. During the monsoon season, the char area has been submerged for at least 3 months. Then there is no opportunity to cultivate any crop there. In consultation with the local community, it is revealed that almost every year all crops are inundated by floods 8-10 days before harvest. Cultivation of flood-tolerant high value crops has become essential to adapt to the changing situation.



Photo 4 Wheat Cultivation, Kurigram, IE: NDP

Through the implementation of the activity, farmers have become able to get introduced to improved varieties and technologies of crops. They also cultivated flood-tolerant crops. Even if the crop is submerged in floodwater, there will be no damage to the crop. In this regard, the project provided the seed of climate tolerant rice, wheat and vegetables. To cultivate those, farmers received two days of formal training on "Extension of High Value Crops". Very important topics were covered in the training course such as crop varieties, production techniques, crop care, application of fertilizers and pesticides, remedies for diseases and illnesses, control of harmful insects and pests, etc. They also receive refresher training at CCAG meetings regularly each month. So, they are known for cultivating climate tolerant, flood-tolerant, short term and high value crops. Besides this, the project also provided seeds and fertilizer. Those who received support in this case, are capable of adapting to the adverse impact of climate change.

SI #	Name of Flood tolerant crops/ IGA (vegetables in the homestead)	Total land cultivated (Decimal)	Total Yield (Kg)	Total Profit (BDT.)
1	BRRI- 52	11,217	230,773	5,711,365
2	BARI Wheat-30,32 and 33 & WMRI Wheat	64,673	998,553	23,150,561
3	Golden 8 Guava	330	Not yet harvested	Not yet harvested
4	Sweet gourd cultivation	990	294,120	1,082,000
6	IGA /Homestead vegetables	1,945	50,551	1,608,154
	Total	79,155	1,573,997	31,552,080

 Table 4- Agricultural yield and profit

\*\* The profit was estimated considering the local market and subtracting the total expense from the total income from distinctive agricultural products.

#### 4.2.1 Cultivation of flood-resilient rice varieties BRRI Dhan 51 & 52, and BINA Dhan 11

As there are no flood resilient rice varieties provided during this quarter. Even then, in total, the project has supported 711 farmers by providing seeds and training on BRRI-52. During the project period, the farmer participants cultivated BRRI 52 on 11,217 decimal areas of land which yield 230.77 Metric Ton (MT) of rice. The profit value is calculated at approximately BDT of 5,711,365. It is necessary to refer that, this value is calculated considering the local market of the project area.

#### 4.2.2 Cultivation of early and disease-protective wheat variety

During the project period, the 2,113 project participants have received support in the cultivation of short-duration, disease protective and heat-tolerant wheat crops. Farmers have sown seeds in late November. As the planted wheat plants were short-duration varieties and growing so fast and they harvested it before March. The farmers informed that the yield is more than the previous year. The profit value of the harvested wheat is estimated approximately equivalent to BDT 23,150,561 considering the local market.

#### 4.2.3 Cultivation of vegetables on sand bars

71 female farmer participants are cultivating vegetables/fruits in sand bars. Besides, project participants already started to cultivate vegetables/fruits on their raised plinths.

Besides, by getting the motivation from the project staff during the CCAG meeting, project participants also cultivated Gourd, Pumpkin, Snake gourd, Ladies finger, Papaya, Red spinach, Spinach, Cauliflower, etc. on their raised homestead. It is estimated by the project staff that 1,945 decimal land of homestead vegetables were cultivated. They have got 50.55 MT vegetables whose current market profit value is approximately BDT of 16,08,154.



Photo 5 Project participants have continued IGA on the raised homestead, Kurigram, IE: NDP

CI	Norma of Andreiden	T I *4		Achievement (Jan-2022 to Mar-2022)		Achie	evement (Til 2022)	l Mar-	Total	
SL	Name of Activity	Unit	Total Target	Male	Female	Total	Male	Female	Total	Expense(BDT
1	Beneficiaries Selection	HHs	20000			187			21381	0
2	CCAG Group Formation	Number	1000			0			1000	0
3	Prepare Beneficiaries socio-economic profile	Number	20000			2681			21381	0
4	Arrange monthly group meetings on climate change issues of CCAG	Number	39000			3765			10401	0
5	Carrying out participatory vulnerability assessment	Number	1000			1000			1000	0
6	Preparing local-level adaptation action plan using Participatory Rural Appraisal (PRA) tools	Number	1000			1000			1000	0
7	Number of Training provided	Batch				50			267	0
8	Organize training sessions for beneficiaries (person)	Number	22,955	15	1252	1267	1076	5378	6454	4,852,474.00
9	Raise homestead plinths in clusters	HHs	10000			1975			4471	95,398,941
10	Provide financial support to reconstruct climate resilient houses on raised plinth (Loan)	HHs	10000	4	667	671	30	917	947	10,042,000
11	Install tube wells	Number	500	12	68	80	12	96	108	1,003,029
12	Number of beneficiaries using safe water (gender disaggregated)	Number	11250	1393	1303	2694	1683	1667	3350	0
13	Construct climate resilient sanitary latrines	Number	2810			521			550	8,361,678
14	Number of beneficiaries using sanitary latrines (gender disaggregated)	Number	12645	2433	2536	4969	2538	2559	5097	0
15	Provide support to rear goat/sheep in slatted houses	Number	10000	40	1224	1264	224	2974	3198	29,051,812
17	Extension of high value agricultural technology in flood prone area (Flood tolerant rice cultivation, Wheat cultivation and sandbar cultivation)	HHs	10000	0	0	0	967	1928	2895	7,496,551
18	Farmers cultivating flood tolerant rice crops	Number	6000	0	0	0	240	471	711	0

## Table 4- Activity achievement for the 1<sup>st</sup> quarterly (Jan-March), 2022

SI Nome of Activity		T I \$4		Achie	vement (Ja to Mar-202	an-2022 22)	Achie	evement (Til 2022)	l Mar-	Total
SL	Name of Activity	Unit	Total Target	Male	Female	Total	Male	Female	Total	Expense(BDT
19	Farmers cultivating short duration and disease protective wheat varieties	Number	2000	0	0	0	132	1981	2113	0
20	Farmers cultivating vegetables in the sand bars	Number	2000	0	0	0	0	71	71	0

Description	Indicators	Baseline	value	(mid-term)	(final)
Increased resilience of the poor, marginalized and climate	Increased capacity and awareness of local	0	0	Intuitions: 2 slightly increased capacity, 5 moderately increased capacity and 3 highly increased capacity	Beneficiaries:5%slightlyincreasedresilience,50%moderatelyincreasedresilienceand30%highlyincreasedresilience
vulnerable communities towards the adverse effects of climate change in flood prone areas of Bangladesh	institutions and communities	0	0	Beneficiaries: 10% slightly increased resilience, 60% moderately increased resilience and 15% highly increased resilience	
Dangiauesh	Practiced climate resilient farming	0	6093 farmers	15,000 farmers	20,000 farmers
Outcome 1: Institutions (IEs) and community groups	IncreasedcapacityofNGOstosupporthouseholdsinfloodprotectionanddisseminationofadaptation solutions	0	0	2 slightly increased capacity, 5 moderately increased capacity and 3 highly increased capacity	1 slightly increased capacity, 5 moderately increased capacity and 4 highly increased capacity
strengthened capacity on addressing climate change	Increased capacity of households to apply climate change adaptation solutions	0	0	10%slightlyincreasedcapacity,60%moderatelyincreasedcapacityand15%highlyincreasedcapacity	5% slightly increased capacity, 50% moderately increased capacity and 30% highly increased capacity
	Utilization of the	0	0	Institutions:3slightly,6moderatelyandhighlyutilizeknowledgefromtheknowledgeproducts	1 slightly, 5 moderately and 4 highly utilize knowledge from the knowledge product
	knowledge products	0	0	Beneficiaries: 20% slightly use, 40% moderately use and 5% highly use knowledge from knowledge products	Beneficiaries: 30% slightly use, 30% moderately use and 10% highly use knowledge from knowledge products
Outcome 2: Protection of	Reduced economic losses	1.26 million USD		Reduction of loss	Reduction of loss by

0

(annual

Rangpur

average in

by 50% on targeted

beneficiaries

90%

on

beneficiaries

targeted

#### **Table 5- Indicator wise Achievement**

Current

Targets

Targets

flood

Outcomes

homestead from

adverse effect of

in animal husbandry

	Description	Indicators	Baseline	Current value	Targets (mid-term)	Targets (final)
			division, BBS, 2015)			
		Increased income and nutrition uptake of the communities due to raising homestead plinths	Income: monthly BDT. 3,573 (42.54 US\$) (CCCP baseline)	0	Increased Income: 20%	Increased Income: 30%
			Nutrition: 47.91% sickness due to flood	0	Nutrition: reduced sickness by 5%	Nutrition: reduced sickness by 10%
		Increased women's security during flood	0	0	10,000slightlysecured,20,000moderately securedand15,000fullysecuredfromsexualharassmentduring flood	5,000 slightly secured, 15,000 moderately secured and 25,000 fully secured from sexual harassment during flood
	Outcome 3:	Percentage of population in the targeted areas with access to safe water	72.6% (CCCP baseline)	0	85% of the targeted beneficiaries	90% of the targeted beneficiaries
	to safe water and sanitation	Percentage of population in the targeted areas with access to flood resilient sanitation	9.1% (CCCP baseline)	0	60% of the targeted beneficiaries	80% of the targeted beneficiaries
	Outcome 4: Access to flood resilient livelihood	Increase in household income in targeted households by practicing GCF funded livelihood technologies	Monthly BDT. 3,573 (42.54 US\$) (CCCP baseline)	0	30% (increased income)	40% (increased income)
	Outputs related to	Outcome 1				
	Output 1.1 Climate change	Number of climate change adaptation groups formed and operationalized	0	1,000	1,000	1,000
Outputs	adaptation groups (CCAG) formed and operationalized	Improvedcapacityofclimatechangeadaptiongroupsrelatedtoknowledgemanagementandinformationdissemination	low	0	moderate	high

Description	Indicators	Baseline	Current value	Targets (mid-term)	Targets (final)
	Impact of the meetings on the decision-making process	Low effective	-	Moderately effective	Highly effective
Output 1.2 Preparation of	Number of vulnerability assessment and adaptation plans	0	1,000	1,000	1,000
vulnerability assessment and adaptation action plan	Percentage of vulnerability assessment and adaptation plans used in decision making and planning by households or IEs	0	0	40%	60%
Output1.3TrainingsandworkshopsonClimate CHURforconductedforbeneficiariesandstakeholdersfor	Use of the information from the trainings and workshops in decision- making and planning at household or policy level	0	0	40% of the targeted beneficiaries use the information from the trainings and workshops	60% of the targeted beneficiaries use the information from the trainings and workshops
Output 1.4 Preparation and	Quarterly newsletter published	0	1	7	14
dissemination of knowledge	Number of workshops organized	0	12	10	20
products	Lessons learnt published	0	0	0	1
Outputs related to	Outcome 2				
Output2.1Raisedthehomesteadsabovefloodlevelthe	Number of homesteads constructed	0	4,471	6,000	10,000
Output 2.2 Re- construction of climate resilient houses	Number of resilient houses constructed	0	947	6,000	10,000
Outputs related to	Outcome 3				
	Number of tube- wells installed	0	108	300	500
Output 3.1 Installation of	Percentage of tube-wells providing water by ensuring national standards	0	0	60%	80%
resilient tube	Number of beneficiaries	Male 0	Male 1683	Male 3,000	Male 5625
wells	using safe water (gender disaggregated)	Female 0	Female 1667	Female 3000	Female 5625
	Decrease in water-borne diseases	Annual average 23,374	0	50% of the targeted beneficiaries	80% of the targeted beneficiaries

Description	Indicators	Baseline	Current value	Targets (mid-term)	Targets (final)
		persons in selected 5 districts become sick due to lack of access to safe water (calculated from BBS, 2015)			
Output 3.2	Number of sanitary latrines constructed	0	550	1600	2,810
Construction of sanitary latrines	Number of beneficiaries using sanitary latrines (gender disaggregated)	0 Male 0 Female	2559 Male 2538 Female	3600 female 3600 male	6,325 female 6,320 male
Outputs related to	Outcome 4				
Output4.1Rearingofgoats/sheepinslatted houses	Number of beneficiaries reared goat/sheep in slatted houses	0	3198 (2974 women beneficiaries)	6,000 women beneficiaries	10,000 women beneficiaries
	Increase in crop production	Baseline to be provided in inception report	0	30% increase	40% increase
Output $4.2$	Number of farmers		Female 471	Female 2000	Female 3000
Cultivation of	cultivating flood tolerant rice crops	0	Male 240	Male 2000	Male 3,000
crops	Number of farmers cultivating short duration and disease protective wheat varieties	0	2113 beneficiaries	1,500 beneficiaries	2,000 beneficiaries
	Number of farmers cultivating vegetables in the sand bars	0	71 women beneficiaries	1,500 women beneficiaries	2,000 women beneficiaries

#### **D.** Gender perspective

Climate change has a greater impact on the poor, especially on women, as they are most reliant on natural resources for their livelihoods and who have the least capacity to respond to natural hazards like floods. Women commonly face higher risks and greater burdens from the impacts of climate change. Women's unequal participation in decision-making processes creates more vulnerability and prevents resilient building against climate change in the intervention area. Due to their lack of empowerment and resources, women and girls face life-threatening risks. Gender inequality keeps women and their families trapped in cycles of poverty. Ensure gender equality is a sustainable, highly effective way to reduce poverty.

Considering the above perspectives, the project has given priority to gender balance and equality. The project has formed CCAG and conducted meetings on regular basis, where gender issues are discussed regularly. 94% of CCAG members are female. In selecting project participants households' priority has been given to women and person with disability (PWD).

Women's participation has been ensured in all activities of the project. Now women have easy access to safe water sources for carrying drinking water and also for the use of household chores. Sanitary latrines are installed in a place where women, person with special, and aged individual can easily use them at any time of the day or night. In our country, it is a common scenario that women are responsible to rear goats/sheep. Slatted house of goat/sheep has been provided to the female participants by the project. 93% of female participants already received slatted houses. Financial assistance has been provided to women-headed families to purchase goats/sheep. It creates an opportunity to generate income for women. Training support has given women-headed families on goat/sheep rearing in slatted houses and leadership skills.

			Achievement (Till Mar-2022)		
SL. No	Name of Activity	Unit	Female	Total	% of Female
1.	Organize training sessions for participants (person)	Number	5378	6454	83%
2.	Number of beneficiaries using safe water	Number	1667	3250	51%
3.	Number of beneficiaries using sanitary latrines	Number	2559	5097	50%
4.	Provide support to rear goat/sheep in slatted houses	Number	2974	3198	93%
5.	Extension of high value agricultural technology in flood prone area (Flood tolerant rice cultivation, Wheat cultivation and sandbar cultivation)	HHs	1928	2895	67%
6.	Farmers cultivating flood tolerant rice crops	Number	471	711	66%

Table 6- Women participants in the activity of the ECCCP-Flood Project

			Achievement (Till Mar-2022)		
SL. No	Name of Activity	Unit	Female	Total	% of Female
7.	Farmers cultivating short duration and disease protective wheat varieties	Number	1981	2113	94%
8.	Farmers cultivating vegetables in the sand bars	Number	71	71	100%

## F. Challenges

## Some challenges we have faced during this period are as bellow-

- 1. **Isolated HHs:** Integration of isolated families with adjacent clusters is very challenging. It will further increase the project cost.
- 2. **Different shape of HH:** Difficulties to raise homestead plinth in a cluster. To include all the homesteads of different shapes in one cluster, it needs to change the shape of the homestead. But some of the participants don't show their interest to do that.
- 3. Availability of Soil: Soil is not available from the nearest place to the raised homestead.
- 4. **Distance between TW–Latrine**: In some area, due to small areas of the homestead the participants do not show interest to give adequate space to maintain a 30 ft distance between the latrine and tube well.
- 5. **Communication and transportation challenge:** Due to a lot of small river channels it is difficult to keep regular communication with the beneficiaries and stakeholders. Besides, there is no available transportation in the char area. So, carrying of materials needs through this way has increased the project cost.
- 6. **Soil instability:** In the char area, most of the plinths are raised with sand. Sand erodes/falls easily. So, it is a big challenge to protect the raised plinth.
- 7. **Maintain slope:** If the slope of the plinth is maintained in the prescribed ratio according to the project activity implementation guideline, the size of the top of the plinth becomes smaller. As a result, there doesn't have enough space to reconstruct the houses.
- 8. **Threat of erosion:** The project targeted areas are surrounded by river channels. As an unpredictable shifting behaviour of the rivers and their encroachment, there is always the threat of erosion.
- 9. **Challenge in distributing of loans:** As most of the implementing entities have no branch office within and adjacent to the project area, they faced problems in distributing loans smoothly to the project participants. Besides, after collecting the money from the participants, it needs to deposit in money related or financial institute like a bank. But there is no bank office near the project site. Carrying the money of the project staff by themselves is a risky task.

## G. Learning

#### **Challenge overcoming method:**

- Share the experiences of project participants, staff, and stakeholders and create a master plan to work accordingly.
- Ensure the active participation of local stakeholders and project participants assist to get more ouputs. Integrate the interests of the project participants with the objectives of the project;
- Strong social relationship with the stakeholder makes easier the implementation of project activities.
- Involve the participants in carrying the raw materials for the interventions;
- Selection of the right project participants and group leaders to perform project activities smoothly;
- Cluster-based activities and dissemination of all relevant information among the target group assist to get better results;
- Interaction and effective CCAG meetings with project participants get more output.
- Selected safe place and far distance from the river and opposite side of the current eroding area to keep avoid the project intervention from riverbank erosion.
- The concerned authority of implementing entities decided to establish a branch loan office near the project area to distribute and collect the loan smoothly. Some of the branch offices were already established.

Sl	Challenge encountered	Measures adopted	Lesson Learn and Remarks
1.	Lack of common	Conducted training to increase	The staff of IEs gathered
	understanding of the project	knowledge and skills on the	knowledge about the project
	implementation strategy.	basics of climate change,	objectives. Besides, they have
		project objectives and	developed skills on the project
		implementation strategy. The	implementation strategies.
		project already developed an	
		implementation guideline,	
		CCAG guideline and share it	
		with the relevant stakeholder.	
		Besides, continued team	
		meetings and review of project	
		guidelines brought a good	
		result.	
2.	Integration of isolated	Motivate the isolated family to	The poor family realized the
	families with adjacent	integrate with adjacent	importance of living on the
	clusters.	clusters.	cluster-based homestead. They
			could protect the homestead

## Lesson Learn Matrix

SIChallenge encounteredMeasures adoptedLesson Learn a	and Remarks
from the adver	rse effect of the
flood through t	the cluster-based
raised homestea	ad. Due to raised
the plinth in	the cluster, it
reduces erosion	during the flood
and makes it mo	ore sustainable.
3. Unavailability of soil Organize discussion meetings The reduction of	of loss of topsoil
with community people. has been ensure	ed on the cluster
Collect soil from nearby base homestead	l plinths.
fallow land, rivers, or ponds.	
Sometimes the project	
participants purchase soil at a	
low cost.	
4. Difficult to maintain Staff members are stationed in The project's a	activity has been
regular communication the char area, established a implemented s	successfully by
with the project participants field office in the char area, overcoming the	e challenge in the
and stakeholders due to a lot etc. field. Besides,	Communication
of small river channels and costs decreased.	
the remoteness of the area	
Besides, inadequate access	
to transportation in the char	
area is another big	
challenge.	
5. Riverbank erosion of the The project team Project partic	cipants became
projected char areas. As an communicated with the local united to solve t	the problem.
unpredictable course and government to set up geobags	
shifting behaviour of the for protecting the bank. By	
river, there is always a consulting aged people from	
threat of erosion. the communities the project	
selected appropriate safe	
places before providing any	
service that is far from the	
Vulnerable riverbank.	nortiginanta ant
o. Wost of the agricultural Kalman-sensitive activities the farmer	participants get
productive Heavy rainfall Sandher vegetables are activitized	yields from
and frequent flood promoted in the project area	
hampering implementation Flood tolerant grops were also	
introduced.	
7. Maintaining plinth shape Grass and other plants are The erosion of	f the homestead
and stability is difficult due planted on the slope of the slope has signif	ficantly reduced.
to condu soil Desides plinth	,

Sl	Challenge encountered	Measures adopted	Lesson Learn and Remarks
	during the rainy season, it		It became more stabilized and
	becomes started to erode.		sustainable.

## H. Way forward

Considering the field situation and yearly activity implementation action plan, the project developed an effective quarterly action plan by integrating and active participation of all project personnel.

SL.#	Name of Activity	April,22	May,22	June,22
1	Raise homestead plinths in clusters	350	350	109
	Provide financial support to reconstruct climate	1500	1500	1413
2	resilient houses on raised plinth (Loan)			
3	Install tube wells	69	44	20
4	Construct climate resilient sanitary latrines	270	258	98
	Provide support to rear goat/sheep in slatted	359	320	190
5	houses in slatted houses			
	Financial support/loan to purchase goat and sheep	201	200	100
6	(Loan)			
	Extension of high value agricultural technology in	10	919	960
7	flood prone area			
	Organize training sessions for Beneficiaries	120	1621	1941
8	(person)			
9	Organize workshops and seminars	0	1	1