

Upazila Disaster Risk Reduction Action Plan

Cox's Bazar Sadar, Cox's Bazar

November 2023

**Upazila Disaster Management Committee
(UzDMC) of Cox's Bazar Sadar**

Upazila Disaster Risk Reduction Action Plan

Cox's Bazar Sadar, Cox's Bazar

November 2023

**Upazila Disaster Management Committee
(UzDMC) of Cox's Bazar Sadar**

*Implemented by the Department of Disaster Management (DDM)
Technical Assistance from the JICA Expert Team (JET) of “The Project for Capacity Enhancement on
Formulation and Implementation of Local Disaster Risk Reduction Plan” and Bangla-German
Sampreeti (BGS)*

Preface

Bangladesh is one of the most disaster-prone countries in the world due to its geographical location. The frequency and intensity of disasters have been increased in recent years due to climate change as floods and storm surges are likely to become more severe with increases in intense tropical cyclones. Natural disasters cause not only direct physical damages to the lives and assets, but also indirect and consequent losses to various sectors such as agricultural sectors, food security, water, health and sanitation, significantly impacting economy and livelihood of the local communities. To tackle the situation, the government has achieved breakthroughs in disaster risk management by mentioning this as one of the top priorities, as described in the 8th Five Year Plan (July 2020- June 2025) "a sustainable development pathway resilient to disaster and climate change" as a core theme.

In order to accelerate the disaster resilience of the country, it is vital to develop and implement local disaster risk reduction strategies and plans as also indicated in the Sendai Framework for Disaster Risk Reduction 2025-2030. Expectedly, by adopting a local disaster risk reduction plan in every Upazila, it is possible to effectively reduce the damage and loss caused by disaster, and enhance continuous and sustainable development of the country's economy and therefore achieving Vision 2041 of the government.

In light of this, " The Project for Capacity Enhancement on Formulation and Implementation of Local Disaster Risk Reduction Plan" has been implemented since December 2020 led by MoDMR and DDM, supported by the Japan International Cooperation Agency (JICA). In this Project, Upazila Disaster Risk Reduction Action Plans have been formulated in six pilot Upazilas of three districts, which are Cox's Bazar (Cox's Bazar Sadar and Chakria), Sunamganj (Chhatak and Jagannathpur) and Kurigram (Chilmari and Ulipur). These plans have been developed by unique approaches that are 1) Scientific analysis for local hazards; 2) Setting DRR targets based on risk quantification; 3) Involvement of project implementing agencies including BWDB, LGED, SoB, GSB, BMD, PWD, FSCD, and so on. These approaches have successfully established this effective plan and promote to execute projects to reduce disaster risk.

This plan is expected to save lives, livelihoods, and resources of the Upazila, as well as pave the way for the enhancing future development through disaster risk reduction in the country.



Director General
Department Of
Disaster Management

Message

While Bangladesh is advancing rapidly on the path of development, natural disasters are hindering the ongoing dynamic development of Bangladesh. Although Bangladesh is disaster-prone due to geographical reasons, climate change adds insult to injury as one or the other disaster strikes the nation almost every year. As a result, the country's resources and lives are being lost on a large scale, which impedes the pace of development consequently. Natural disasters hampering sustainable development, therefore, make it impossible to achieve the desired progress.

In this context, the Bangladesh government has placed more importance on disaster risk reduction and pre-disaster investment, as well as in light of the Sendai Framework for Disaster Risk Reduction (SFDRR), the Ministry of Disaster Management and Relief (MoDMR) and the Department of Disaster Management (DDM) has taken a project named "The Project for Capacity Enhancement on Formulation and Implementation of Local Disaster Risk Reduction Plan" with the support of JICA. This project is piloting the formulation of the local disaster risk reduction plans in six Upazilas of three districts which had been selected in consideration of the different types of hazards, namely Cox's Bazar, Sunamganj, and Kurigram. This pilot activity is finally aimed at the establishment of the mechanism to spread this initiative nationwide in the country, by the leadership of the MoDMR and the DDM.

The local Upazila Disaster Risk Reduction Action Plan (UzDRRAP) formulation is significantly vital for Upazilas with a view to eliminating the actual damage and loss in their areas. The planning in cooperation among related agencies can promote sufficient proactive disaster risk management that the Bangladesh government has also emphasized, instead of post-disaster response.

It is my great pleasure to implement this pilot project activity with the strong leadership of the Upazila DMC and other stakeholders. This plan will contribute a lot to achieving the vision of 2021 of the Bangladesh government. We are hopeful that the success of this pilot project will add a positive dimension to the development process and this process will later be expanded across the country.

Md. Mijanur Rahman
(Additional Secretary)



Project Director

LDRRP Project

and

Director

Planning & Development

Department Of Disaster Management

Message



Natural disaster is the main obstacle to the development of this beautiful land of natural beauty. Almost every year this country is affected by cyclones, storm surges, landslides, flash floods, seasonal floods, thunderstorms, lightning, and so on, due to its geographical location. The amount of damage to property, crops, houses and infrastructure caused by the disasters is retarding the development of the country, which results in a decrease in GDP as well as is a great barrier to sustainable development.

In aspect to this and in light of the Sendai Framework for Disaster Risk Reduction (SFDRR), the Ministry of Disaster Management and Relief (MoDMR) and the Department of Disaster Management (DDM) initiated a project named "The Project for Capacity Enhancement on Formulation and Implementation of Local Disaster Risk Reduction Plan" with the support of JICA. Under this project, six Upazilas of three districts, which are 1) Cox's Bazar Sadar and Chakaria Upazilas in Cox's Bazar District, 2) Chhatak and Jagannathpur Upazilas in Sunamganj District, and 3) Chilmari and Ulipur Upazilas in Kurigram District were selected as pilot sites in consideration of their different types of hazards due to their diverse geographical features, to formulate and implement the Upazila Disaster Risk Reduction Action Plans (UzDRRAPs). Since the project started in 2021, we have completed formulating the UzDRRAPs of Cox's Bazar and Sunamganj districts through the active participation of all stakeholders as this plan shows, and will start the project activities in Kurigram district soon in 2024. I firmly believe that the development and implementation of the UzDRRAP is significant for all Upazilas to reduce the rate of damage and loss of human and resources by disasters, which will support achieving the vision of 2021 of the Bangladesh government.

As a Project Director, it is my immense pleasure to accomplish this intended project activity through the strong leadership and guidance of the Upazila DMC and Union DMC, as well as the active participation and contributions of other DRR-related agencies. This plan will take us on the path of prosperity by reducing the disaster risks and will play a significant role in the development of the country.

Md. Firoz Uddin
(Additional Secretary)



Deputy Commissioner
Cox's Bazar District

Message

Cox's Bazar District is characterized by natural beauty, diverse special features surrounded by mountains, rivers and the sea. It is a district that has the longest beach in the world and is a source of the unique beauty of nature. Many institutions in the tourism industry have been established here. This area is bustling with domestic and foreign tourists throughout the year to enjoy the natural beauty as Cox's Bazar is famous as the healthiest place in Bangladesh. The present Government has taken a good number of development initiatives here such as Matarbari Deep Sea Port, Matarbari Ultra Super Critical Coal Fired Power Plant, Economic Zones, Unique Railway Station and Runway Extension Projects of Cox's Bazar International Airport etc.

This District consists of nine Upazilas (71 Unions) and four municipalities. Cox's Bazar is home to various tribes or ethnic groups which make the city more diverse and it is a beautiful place where people are living together with communal harmony. Due to the geographical situation, this District is a disaster-prone area because it is situated along the Bay of Bengal. Almost every year this District is affected by cyclones, storm surges, landslides and flash floods. Every year infrastructure, crops and homesteads are damaged and a significant number of resources are lost which is a great barrier to sustainable development. Therefore, I believe that the local Upazila Disaster Risk Reduction Action Plan formulation is very important for this area in order to reduce the rate of damage and loss. The Bangladesh Government has also emphasized proactive Disaster Risk Management (DRM) instead of Post Disaster Response.

It has come to my attention that the Ministry of Disaster Management and Relief (MoDMR) has taken a pilot project named "The Project for Capacity Enhancement on Formulation and Implementation of Local Disaster Risk Reduction Plan" with the support of JICA and this project is piloting two Upazilas (Cox's Bazar Sadar and Chakaria Upazila) of Cox's Bazar district. The project activity was started in June 2022, and by this time already formulated the Upazila DRR Plan (UzDRRAP) of both Upazilas through the active participation of all stakeholders.

As a District Administrator, it is my pleasure to accomplish this intended project activity through the strong leadership and guidance of the Upazila administration and thanks to Upazila DMC, Union DMC and other stakeholders for their active participation and great effort in this innovative initiative which will reduce the rate of damage and loss of human and national resources by the disaster. I would like to express thanks to all the stakeholders for their relentless effort to formulate this UzDRRAP.

Muhammad Shaheen Imran



Upazila Chairman
Cox's Bazar Sadar Upazila
Cox's Bazar, Bangladesh



Message

Bangladesh is one of the most disaster-prone countries in the world due to its weather, climate and geographical characteristics. While almost all of the districts are affected by natural disasters in the country, Cox's Bazar is one of the most vulnerable districts to the calamities. As being a hilly and coastal area, most of the upazilas in the District are affected by natural disasters like floods, cyclones, storm surges, and landslides every year. Cox's Bazar Sadar Upazila, which is the center of the District, is surrounded by mountains, rivers and the sea; therefore, it remains in the said disaster risks around the year.

In light of Sendai Framework for Disaster Risk Reduction (SFDRR) 2015-2030, "The Project for Capacity Enhancement on Formulation and Implementation of Local Disaster Risk Reduction Plan" has been undertaken by the initiative of the Ministry of Disaster Management and Relief (MoDMR) along with the Department of Disaster Management (DDM) with the support of JICA (Japan International Cooperation Agency).

I appreciate that this Upazila Disaster Risk Reduction Action Plan (UzDRRAP) was formulated with active involvements of all stakeholders. Based on the scientific hazards and risk assessment, the plan was developed through a series of workshops and consultation with community people and line departments here. I hope that this plan will pave the way for the future in disaster risk reduction and encourage project implementing agencies and local communities to save life, livelihood and national resources in this Upazila.

I extended my sincere thanks and gratitude to all members of UzDMC, officials of line departments, UP Chairman and other stakeholders for their valuable contribution in developing this Plan for this Upazila.

Kwasarul Haque Jewel



Upazila Nirbahi Officer
Cox's Bazar Sadar
Cox's Bazar

Message

Cox's Bazar Sadar Upazila is situated on the coast of the Bay of Bengal in Cox's Bazar district under Chittagong division of the south-eastern part of Bangladesh. It is located 150 km south of the divisional headquarter city of Chittagong. It is bounded by Chakaria Upazila on the north, Ramu Upazila on the south and east, and Maheshkhali Upazila on the west. Topography of Cox's Bazar Sadar Upazila consists primarily of flat, low-lying plains with an elevation of lower than 20m except for the hilly area behind the beach. Therefore, the Upazila is vulnerable to flooding and landslides due to cyclones and storm surges, while these flat areas are suitable for agriculture, salt and shrimp farming, and settlement.

Despite being such an extreme disaster-prone area, no long-term planning or programs for disaster risk reduction had been undertaken for reducing the impact and damages of the disasters. In response to the situation, in December 2020, the Government of Bangladesh with the assistance of JICA together started "The Project for Capacity Enhancement on Formulation and Implementation of Local Disaster Risk Reduction Plan" aiming at reducing the risk of natural disasters by adopting local disaster risk reduction plan. For formulation of Upazila Disaster Risk Reduction Action Plan (UzDRRAP), project conducted risk and hazard assessment in the scientific manner, discussed the findings among the Upazila Disaster Management Committee (UzDMC) and the Upazila Sub-committee (UzSC) through a series of workshops, and combined the necessary DRR projects by having consultation with union and upazila officials and the line departments.

I believe that the implementation of this program, initiated by the Ministry of Disaster Management and Relief (MoDMR) and the Department of Disaster Management (DDM), will contribute significantly to the risk reduction of natural disasters in the Upazila. Based on the outcomes of this pilot project, this Upazila is now ready to under new projects on priority basis.

My sincere thanks and gratitude to all stakeholders, members of UzDMC, and officials of line departments for extending wholehearted cooperation and support with a view to preparing and formulation of UzDRRAP.

Mohammad Zakaria

Table of Contents

Chapter-1. Introduction	13
1.1 Purpose and aim of the Plan	13
1.2 Rationale for the formulation of the Plan	13
1.3 Relevance to other Upazila plans	14
1.4 Features of the Plan	14
1.5 Methodology for the development of the Plan	15
1.5.1 Institutional Arrangement	15
1.5.2 Planning Process and Methodology	16
Chapter-2. Geographic, Socio-economic, and Meteorological Conditions	18
2.1 Location and Geographic Conditions	18
2.1.1 Location of the Upazila	18
2.1.2 Topography of the Upazila	19
2.1.3 River System of the Upazila	19
2.2 Socio-economic Conditions	21
2.2.1 Demography	21
2.2.2 Economy and Industry	21
2.2.3 Urbanization	22
2.3 Meteorological Conditions	23
Chapter-3. Target Hazards and Disaster-prone Areas	24
3.1 Disaster Record of the Upazila	24
3.2 Target Hazards of this Plan	27
3.3 Hazard Map and Disaster-Prone Areas by Each Hazard	27
3.3.1 Flood	27
3.3.2 Storm Surge	29
3.3.3 Sediment Disasters	31
3.3.4 Earthquake Shaking	34
Chapter-4. Disaster Risk and DRR Targets of the Upazila	35
4.1 Disaster risk	35
4.1.1 Flood	35
4.1.2 Storm Surge	40
4.1.3 Sediment Disaster	46
4.1.4 Earthquake Shaking	49
4.2 Priority Unions for Disaster Risk Reduction	51
4.3 Disaster Risk Reduction Target	52
Chapter-5. Action Plan of DRR Countermeasures	54
5.1 Current Status and Issues of the Structural and Non-Structural Countermeasures	54
5.2 Prioritized projects for DRR Target	57
5.2.1 Prioritized Structural Countermeasures	58
5.2.2 Needed Non-Structural Countermeasures	65
5.3 Monitoring and Updating of the Plan	66
Attachment 1: Proposed countermeasure list	
Attachment 2: Member lists of UzDMC and UzSC	
Attachment 3: Activity photos	

Acronyms

ADP	Annual Development Programme
AGM	Annual General Meeting
BCC	Building Construction Committee
BCM	Billion Cubic Meters
BDRCS	Bangladesh Red Crescent Society
BGS	Bangla-German Sampreeti
BIWTA	Bangladesh Inland Water Transport Authority
BMD	Bangladesh Meteorological Department
BNBC	Bangladesh National Building Code
BRDB	Bangladesh Rural Development Board
BWDB	Bangladesh Water Development Board
BoS-MoP	(Bureau of Statistics) under the Ministry of Planning
CPP	Cyclone Preparedness Programme
CRA	Community Risk Assessment
DAE	Department of Agricultural Extension
DDM	Department of Disaster Management
DDMC	District Disaster Management Committee
DEM	Digital Elevation Model
DMC	Disaster Management Committee
DPHE	Department of Public Health Engineering
DPP	Development Project Proposal
DRM	Disaster Risk Management
DRMP	Disaster Risk Management Plan
DRR	Disaster Risk Reduction
ECHO	Directorate-General for European Civil Protection and Humanitarian Aid Operations
ERCC	Emergency Response Coordination Centre
FSCD	Fire Service and Civil Defence
GIS	Geographic Information System
GSB	Geology and Minerals of Bangladesh
GSD	Ground Sampling Distance
HYV	High-yielding variety
ID	Identity Document
INGO	International non-governmental organization
JET	JICA Expert Team
JICA	Japan International Cooperation Agency

Upazila Disaster Risk Reduction Action Plan of Cox's Bazar Sadar

LGED	Local Government Engineering Department
MoD	Ministry of Defence
MoDMR	Ministry of Disaster Management and Relief
MoE	Ministry of Education
MoF	Ministry of Finance
MoH&FW	Ministry of Health and Family Welfare
MoL	Ministry of Land
MoL&F	Ministry of Livestock and Fisheries
MoLGRD&C	Ministry of Local Government Rural Development and Cooperatives
MoPA	Ministry of Public Administration
MoSW	Ministry of Social Welfare
MoWA	Ministry of Women Affairs
MoY&S	Ministry of Youth and Sports
NGO	Non-governmental Organization
NPDM	National Plan for Disaster Management
PDB	Power Development Board
PGA	Peak Ground Acceleration
PIO	Project Implementation Officer
PWD	Public Works Department
REB	Rural Electrification Board
RRAP	Risk Reduction Action Plan
SDGs	Sustainable Development Goals
SFDRR	Sendai Framework for Disaster Risk Reduction
SOB	Survey of Bangladesh
SOD	Standing Orders on Disaster 2019
TSC	Technical Sub-Committee
UDD	Urban Development Directorate
UN OCHA	United Nations Office for the Coordination of Humanitarian Affairs
UNO	Upazila Nirbahi Officer
UPs	Union Parishads
UzCC	Upazila Construction Committee
UzDMC	Upazila Disaster Management Committee
UzDMP	Upazila Disaster Management Plan
UzDRRAPs	Upazila Disaster Risk Reduction Action Plans
UzSC	Upazila Disaster Risk Reduction Action Plans Sub-Committee
VDP	Village Defence Party

Chapter-1. Introduction

1.1 Purpose and aim of the Plan

The purpose of the Cox's Bazar Sadar Upazila Disaster Risk Reduction Action Plan (UzDRRAP) is to identify necessary countermeasures against natural disasters and implement them in cooperation with relevant stakeholders to reduce disaster risks in the Upazila. This plan contributes to increasing investment in disaster risk reduction by ensuring a mechanism for project implementation of the line ministries' countermeasures and by promoting further funding from donor agencies.

1.2 Rationale for the formulation of the Plan

This Plan corresponds to the Risk Reduction Action Plan (RRAP) that is required to be developed as a part of the Disaster Risk Management Plan (DRMP) by Disaster Management Committees (DMC) at District, Upazila and Union DMCs, according to the Standing Orders on Disaster 2019 (SOD). In the SOD, it is recommended to prepare a RRAP by local DMCs, as well as a Contingency Plan. While the disaster response which is covered by the Contingency Plan has been relatively conducted as required in emergencies, risk reduction measures based on the objective hazard and risk assessment had not been sufficiently implemented at the Upazila level. In consideration of this situation and the importance of the DRR investment for the further development of the country, this plan, therefore, emphasises disaster risk reduction and proposes the necessary actions as a master plan corresponding to the RRAP of the Upazila Disaster Management Plan (UzDMP), which directly leads to the preparation of Development Project Proposals (DPPs) and Annual Development Programmes (ADPs).



Figure 1-1. Risk Reduction Action Plan in the SOD

The formulation of the UzDRRAP and the implementation of the countermeasures against disasters are in line with government strategies, policies, and plans of the country, as listed below.

- The Bangladesh Delta Plan 2100 mentions the importance of strengthening the disaster risk management and combating the effects of climate change.
- 8th Five Year Plan (July 2020-June 2025) emphasizes appropriate policy and institutional capacity building to address their concerns on climate-resilient development and disaster management at all levels of the government, especially at the local government level where most of the programmes are to be implemented.

- The National Plan for Disaster Management (NPDM 2021-2025) focuses on "Making disaster risk reduction a development practice to achieve resilient public investment and the SDGs" and "Building capacity and leadership to implement NPDM 2021-2025 at the national and local level".

In addition, from an international perspective, this plan directly contributes to the Sendai Framework for Disaster Risk Reduction 2015-2030 (SFDRR), specifically the Target (e) "To substantially increase the number of countries with national and local disaster risk reduction strategy".

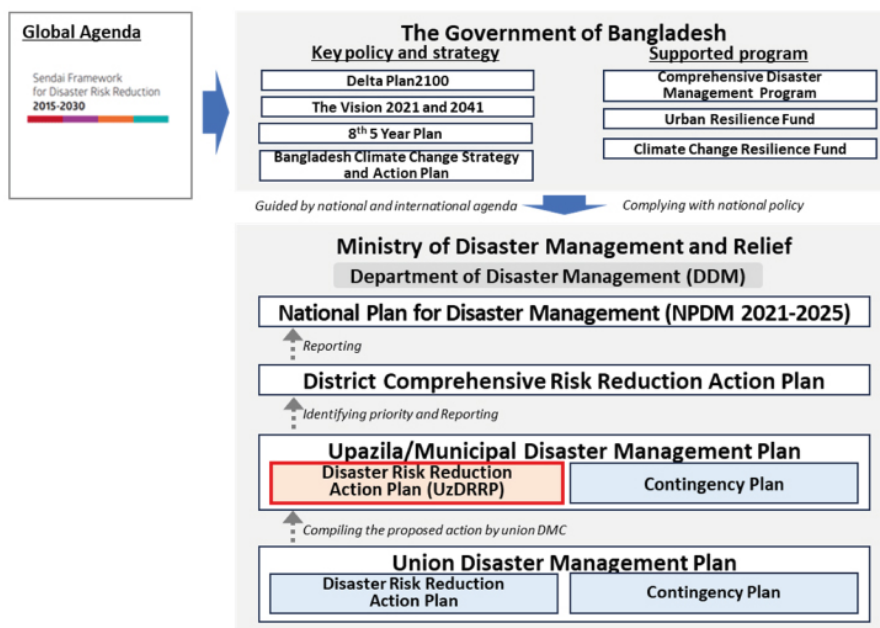


Figure 1-2. Relationship between national key policies and this plan

1.3 Relevance to other Upazila plans

Based on the Local Government (Upazila Parishad and Upazila Administration Reorganization) Act 1998 and the Local Government (Upazila Parishad) Act 2009, each Upazila shall prepare a development plan and land use plan. This plan and the proposed countermeasures against the disasters has been considered to ensure consistency with these plans in this Upazila.

1.4 Features of the Plan

The features of this plan are 1) Scientific Analysis for Local Hazards, 2) Setting DRR Targets based on Risk Quantification, and 3) Involvement of Project Implementing Agencies, which are expected to contribute to the actual execution of the effective countermeasures.

Feature 1: Scientific Analysis for Local Hazards:

The hazard maps were developed by simplified technical analysis, which processes are not adopted in the Community Risk Assessment (CRA), using observed disaster records of rainfall and tidal level, the Digital Elevation Model (DEM), and current hazard maps. The developed hazard maps represent the vulnerable areas of the Upazila, and help promote to objectively understand the hazard potential.

Feature 2: Setting DRR Targets based on Risk Quantification:

Risks in this Upazila were quantified based on risk quantification using the hazard maps and various factors such as natural conditions and socio-economic factors and visualized to share with relevant agencies. A DRR target was set in consideration of the result of identifying which areas are highly affected by potential hazards, by these risk quantifications.

Feature 3: Involvement of Project Implementing Agencies:

The Upazila Sub-Committee (UzSC), which is composed of the Upazila chairman, UNO, PIO, engineers from LGED, BWDB, and DPHE in the Upazila, Upazila officials, Union Parishad chairman, was established to identify disaster risks and consider priorities of countermeasures against the disasters at the Upazila level. Since the committee at the Upazila level does not have the authority to determine the countermeasures listed in the plan to be implemented, the members from the line ministries at the central level are involved in the planning processes to promote the schemes/projects listed in the UzDRRAP and secure budgets.

1.5 Methodology for the development of the Plan

1.5.1 Institutional Arrangement

For the development of this Plan, an UzSC stipulated in the SOD was established in this Upazila. The roles and responsibilities of this committee are to:

- 1) Prepare this UzDRRAP by identifying existing DPPs and pipeline projects related to DRR, Union Parishads (UPs) priority, some development projects that might affect people or increase disaster risk;
- 2) Summarize DRR projects by examining needs of UPs and Risk Reduction Action Plans developed by UPs;
- 3) Identify possible DPP to be able to collaborate among line ministries on structural and non-structural measures to maximize the efficiency and effectiveness of DRR.

In addition to this UzSC at the Upazila level, Technical Sub Committee (TSC) was established to coordinate projects proposed by other Upazilas in addition to Cox's Bazar Sadar Upazila at the central level, implementation of the projects proposed in the UzDRRAP are determined by the line ministries at the central level. The roles and responsibilities of this TSC are to:

- 1) Summarize and monitor the progress DRR related projects based on the plans that UzSCs submitted;
- 2) Request line ministries on the possibility to do further investigation on DRR project needs based on the UzDRRAP;
- 3) Make efforts to integrate DRR ideas into DPP, ADP and 5YP in Upazila and line ministries, considering disaster risk reduction target in the UzDRRAP;
- 4) Discuss among line ministries on development projects which might affect people or cause disaster;
- 5) Establish the guidelines and manuals to prepare Upazila Disaster Risk Reduction Action Plans;
- 6) Take an initiative to start up Upazila Sub Committees for preparation of the UzDRRAPs.

1.5.2 Planning Process and Methodology

This plan was established based on a combination of methods, namely JICA 8 steps and the CRA method which has been broadly utilized as a vulnerability assessment in the country, as shown in the figure below.

For developing each chapter of this plan, the following methodology was introduced.

Chapter 2: Geographic, Socio-economic, and Meteorological Conditions

This chapter illustrates the characteristics of the Upazila, that is the conditions to develop the Action plan for DRR. The statistics data including the Census 2011 and meteorological data was collected and analyzed.

Chapter 3: Target Hazards and Disaster-prone Areas

This chapter explains the disaster records, target hazards, as well as disaster-prone areas by showing hazard maps. While disaster records of the Upazila were collected by the DRRO of the district or online media sources, disaster-prone areas were identified through scientific analysis by utilizing data such as elevation data (DEM), probability rainfall data and sea water level data and so on. For flood, the RRI (Rainfall Runoff Inundation) model was introduced. These hazard maps were then confirmed in workshops where the UzDMC members participated.

Chapter 4: Disaster Risk and DRR Targets of the Upazila

This chapter describes the estimations of damages caused by each hazard. The damage estimations of flood and storm surge target paddy fields, settlement areas, as well as the important public facilities and infrastructures, while those for sediment disasters and earthquake shaking target settlement or households. These damages were estimated by overlaying hazard data with statistical data¹, and consequently confirmed by the UzDMC members and the UzSC members in workshops and meetings, along with the priority unions that were set by such disaster risk.

Chapter 5: Action Plan of DRR Countermeasures

This chapter shows the current status and issues of the countermeasures as well as the necessary projects for DRR. The current status of the countermeasures was identified and analyzed by consultation with UzDMC and UzSC members, while the necessary projects were proposed by the UzDMC members. The proposed projects were then validated with line agencies, and prioritized with UzDMC and UzSC members.

¹ The risk assessment was conducted in accordance with the developed guideline – Guideline on Hazard and Risk Assessment.

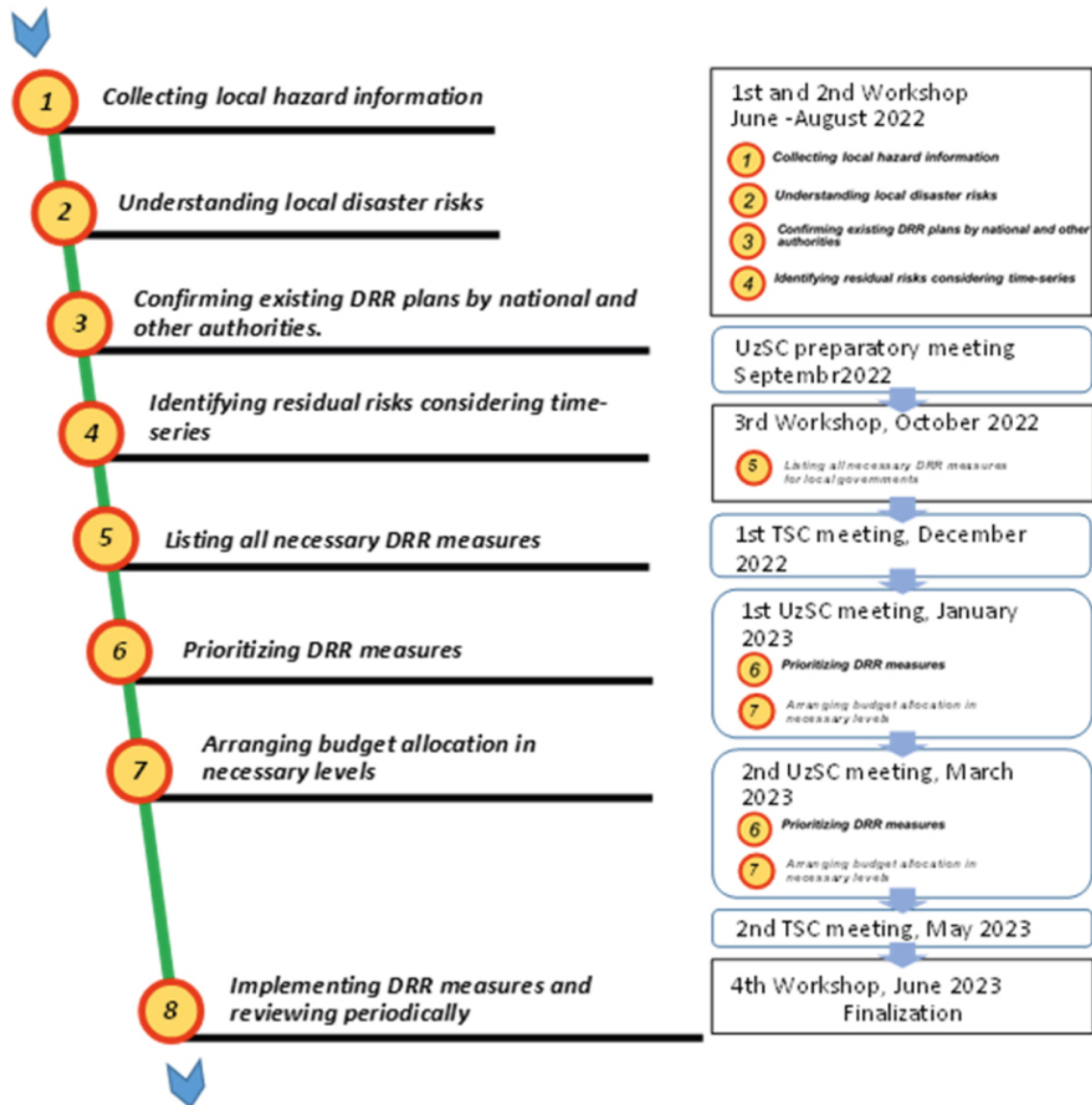


Figure 1-3. "8 Steps" for Upazila DRR Planning in case of this plan

Chapter-2. Geographic, Socio-economic, and Meteorological Conditions

2.1 Location and Geographic Conditions

2.1.1 Location of the Upazila

Cox's Bazar Sadar Upazila is situated on the coast of the Bay of Bengal in Cox's Bazar District under the Chattogram Division of the south-eastern part of Bangladesh. It is located 150 km south of the divisional headquarters city of Chittagong. It is bounded by Chakaria Upazila on the north, Ramu Upazila on the south and east, and Maheshkhali Upazila on the west (Figure 2-1.). The area of the Upazila is 201.55 km².



(Source: Maps of Bangladesh)

Figure 2-1. Location Map of Cox's Bazar Sadar Upazila

2.1.2 Topography of the Upazila

The topography of Cox's Bazar Sadar Upazila consists primarily of flat, low-lying plains with an elevation of less than 20 m except for the hilly area behind the beach (Figure 2-2.). Therefore, the Upazila is vulnerable to flooding due to cyclones and storm surges. The flat area is used for agriculture, salt and shrimp farming, and settlement. The coastal area is dominated by a long sandy beach, which stretches for about 120 km along the Bay of Bengal. The elevation of the hill area is approximately 50 m.



Figure 2-2. Topographic Map

2.1.3 River System of the Upazila

Cox's Bazar District has 5 major rivers: Matamuhuri River, Bakkhali River, Naf River, Reju Khal, and Moheshkhali and Kutubdia Channel (Figure 2-3.). The Bakkhali River is especially important among them upon considering the countermeasures against the disasters in the Upazila.

The river rises from the ranges that divide Chittagong from Arakan and flow north, then turns to the west, flows past Ramu Upazila and Cox's Bazar Sadar Upazila and falls into the Moheshkhali Channel. With a length of 69 km, it comprises a basin area of about 760 km² out of which approximately 510 km² is hilly.

It is an important source of water for irrigation and fishing for the local communities living in its vicinity. The river flows through the agricultural lands of Cox's Bazar Sadar Upazila, providing irrigation water to the paddy fields and other crops. It is also a habitat for various fish species, including hilsa, shrimp, and crabs, which are important for the local fishing industry.

It is a seasonal tidal river which remains almost dry in the winter season (January-April) and mostly active in the monsoon season (June-July-August). The annual average water availability in the Bakkhali River Basin is around 1.9 billion cubic meters (BCM). During pre-monsoon and monsoon, the river swells with heavy rainfall and can cause flooding in the surrounding areas. Flood water turns into waterlogging due to an inadequate drainage system for 3-4 days. Bank erosion occurs during flash floods on both banks of the river. The eroded sediment from the bank deposits in the river, which cause a morphological change in the river rapidly. This morphological change in the river is increasing flood damage in the area.

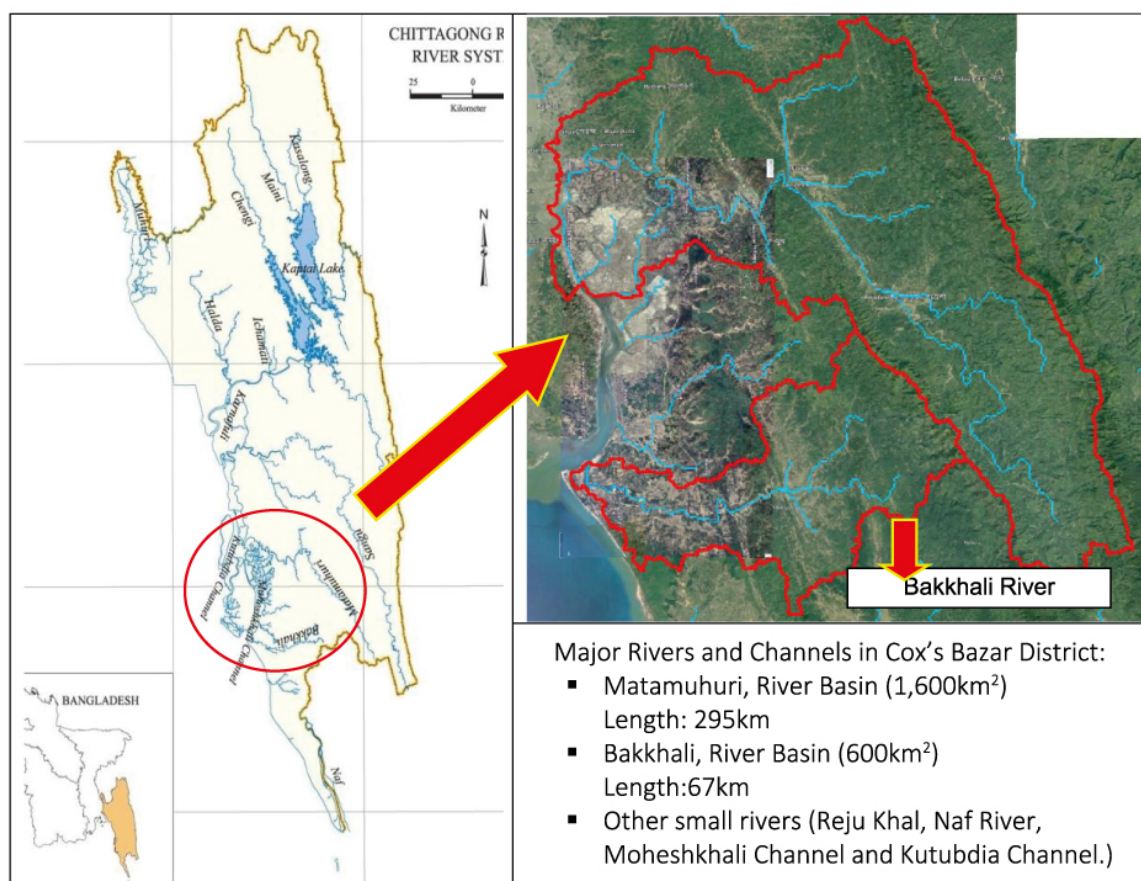


Figure 2-3. Major River and Channels of the Upazila

2.2 Socio-economic Conditions

2.2.1 Demography

Cox's Bazar Sadar Upazila is divided into ten unions: Bharuakhali, Chaufaldandi, Idgaon, Islamabad, Islampur, Jalalabad, Jhilwanja, Khurushkul, Patali Machhuakhali and Pokkhali. Cox's Bazar Paurashava is divided into 12 Wards and 97 Mahallas. The demography in Cox's Bazar Sadar Upazila is shown below. According to the census 2022, the total population of the Upazila is 566,905 people.

Table 2-1. Demography of the Upazila

Union Name ²	Total Area (km ²)	Total Population	Number of Households
Bharuakhali	13.67	26,662	6,060
Chaufaldandi	14.71	33,506	7,615
Cox's Bazar Paurashava	6.85	196,378	44,631
Idgaon	24.00	42,561	9,673
Islamabad	16.80	33,608	7,638
Islampur	14.70	26,762	6,082
Jalalabad	11.20	22,330	5,075
Jhilwanja	14.70	59,580	13,541
Khurushkul	23.67	54,958	12,490
Patali Machhuakhali	27.25	46,256	10,513
Pokkhali	34.00	24,304	5,524
Total	201.55	566,905	128,842

Source: Population & Housing Census 2022 and interview with Unions

2.2.2 Economy and Industry

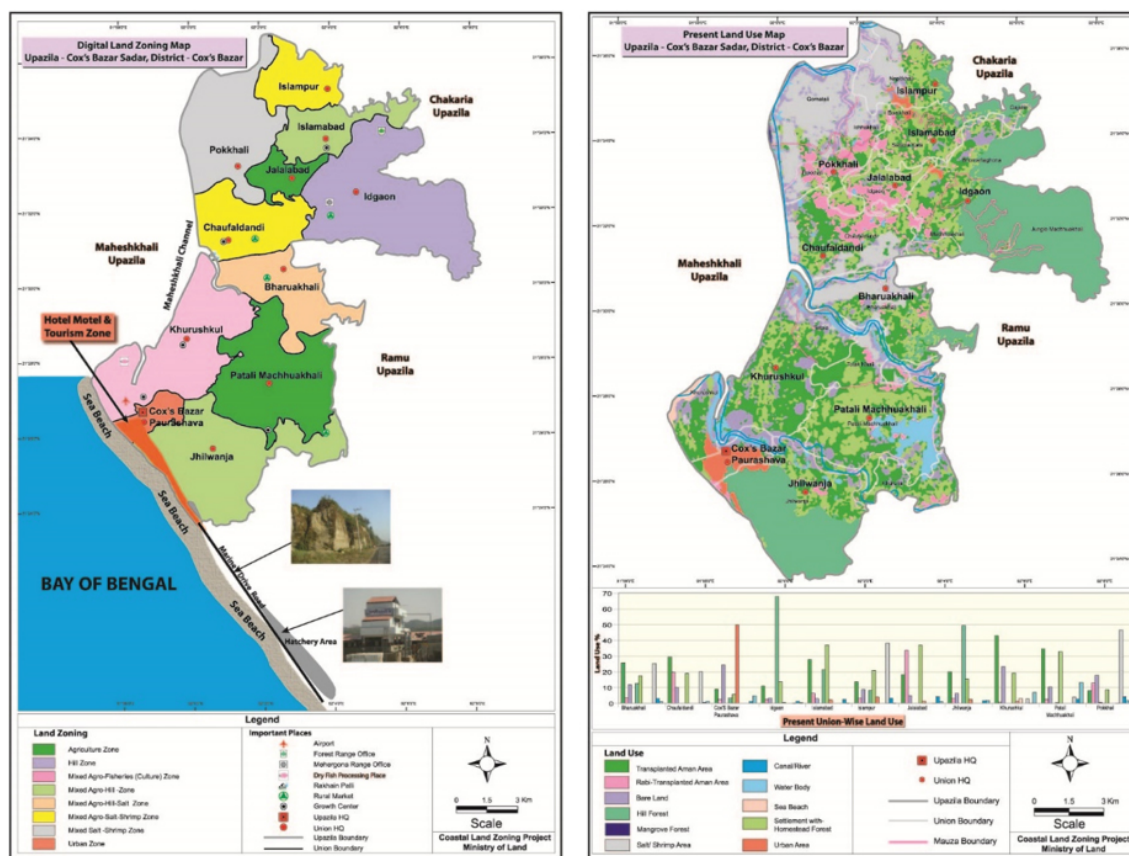
According to the Bangladesh Population Census, 2011, Cox's Bazar Sadar Upazila has the lowest poverty and extreme poverty headcount ratios in the District, at 26.2% and 12.2% respectively. These are also lower than the national averages of 31.5% and 17.6% respectively.

The tourism industry is one of the biggest income-driving industries in this Upazila because of its location as a popular coastal destination. According to Cox's Bazar Upazila Profiles (acaps, 2019), the tourism industry supports a diverse labor market, offering a wide range of opportunities for both unskilled and skilled workers. Consequently, migration from nearby areas to Cox's Bazar Sadar has resulted in increased labor competition and has increased pressure on existing resources, particularly housing.

In addition, agriculture contributes to the economy in Cox's Bazar Sadar Upazila. 15.67% of all labor households are agriculture labor households (Agriculture Census 2019). A variety of crops are produced here, namely local and HYV rice, wheat, vegetables, different fruits and others, which are sold both locally and to other parts of the country. Moreover, fishery in rivers, tributary channels and creeks and even from paddy fields during rainy seasons, prawn farming and salt production in the coastal area are important economic activities of the area.

The Upazila plans to strategically promote economic activities as shown in the land use zoning map below.

² Union Names within this plan are in accordance with and consistent with the names of the unions in the GIS data set of UN OCHA. However, the "Paurashava" was changed to the official name –"Paurashava" in this plan.



Source: Ministry of Land

Figure 2-4. Land Use Zoning Map by Ministry of Land, 2023

2.2.3 Urbanization

In recent years the urbanization rate in Cox's Bazar District has increased significantly. Especially, the rate of Cox's Bazar Sadar Upazila is 96.89%, which is extremely high compared to the average rate of Bangladesh of 28.37% (District Development Plan for Cox's Bazar-Phase I, 2019). Cox's Bazar Paurashava in the Upazila continues to attract the local population (floating) besides the tourist traffic. With the expanding network, the urban developments are in ribbon form, increasing pressure on the limited capacity of the road network. In addition, improvement of the drainage systems is required in urban settlements to address periodic flooding.

The central government will implement some mega projects such as the extension of the Airport and refueling station for international air traffic, improvement of the marine drive (coastal road) from Teknaf to Cox's Bazar, setting up of an economic zone in Teknaf and upgrade the beach in the area to international standard, construction of rail lines from Chattogram to Cox's Bazar, development of Eco-Tourism, construction of resilience house for the vulnerable families, which could accelerate further development and urbanization of the Upazila, and consequently expansion of the exposed areas by disasters

2.3 Meteorological Conditions

The climate of Cox's Bazar Sadar Upazila (District) is dominated by the tropical monsoon and is distinguished in 2 seasons: a rainy season and a dry season. The southwest monsoon brings the rainy season from May to October as shown in Figure 2-5. Then, the northeast monsoon flows and dries the area from November to April.

As shown in Figure 2-5, the Upazila has an annual rainfall of more than 3,000 mm. Most rainfall is concentrated during the rainy season, especially the 3 months between June and August, when half of the annual rainfall occurs. The heavy rainfall often devastates coastal Cox's Bazar Sadar Upazila and cause flooding in the area. In addition, tropical cyclones generally strike in two seasons, March through July and September through December. They also cause tremendous damage from the thunderstorms, violent winds, heavy rainfall bringing flooding and landslides, and storm surges.

Cox's Bazar Sadar Upazila (District) has a high temperature and high humidity climate. The average temperature reaches a maximum of 39.5°C in June, and a minimum of 11.80°C in January (Figure 2-6).

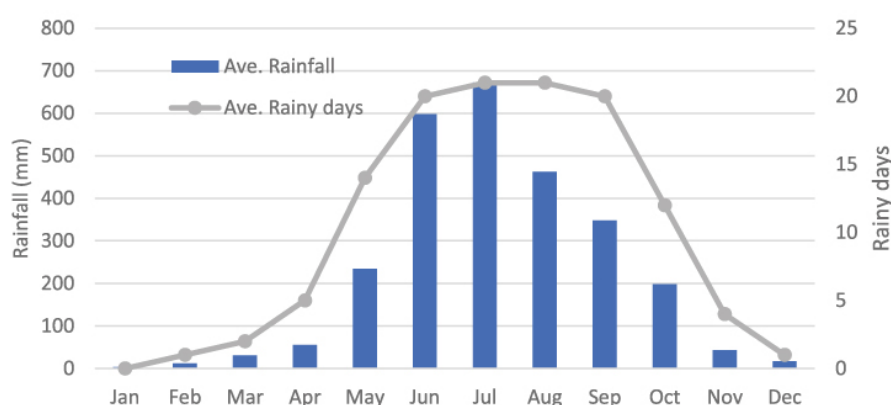


Figure 2-5. Average Annual Rainfall and Temperature

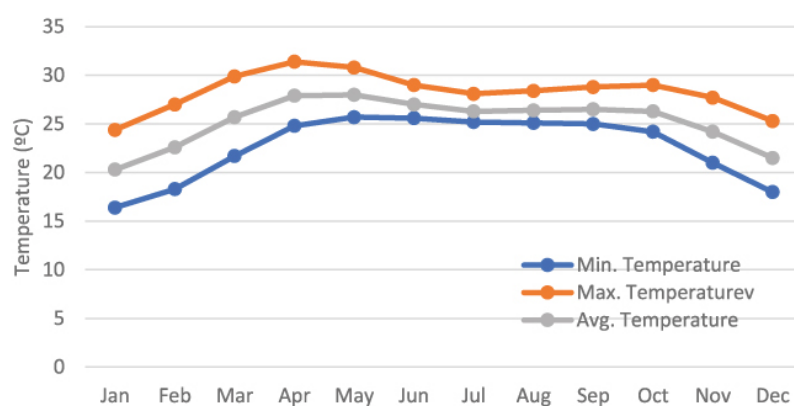


Figure 2-6. Average Temperature

Chapter-3. Target Hazards and Disaster-prone Areas

3.1 Disaster Record of the Upazila

Cox's Bazar District where Cox's Bazar Sadar Upazila is located, has experienced several disasters affecting the lives and livelihoods of the local communities, due to its topography and meteorology. The table below shows the disaster records in this Upazila. The most historic and destructive cyclone of 1991 caused a storm surge and fierce winds and severely affected Cox's Bazar District. In addition to the following, damage caused by lightning also occurs in the area.

Table 3-1. Disaster Record in Cox's Bazar Sadar, Cox's Bazar since 1970

No.	Year	Upazila	Damage
1. Flood			
(1)	Jun. 2007	Chakaria, Ramu, Sadar and Teknaf Upazilas	Cause: Flash flood by heavy rain Affected families: 25,695 people ³ Casualty: 15 dead people and 2 injured people
(2) ⁴	Jun. 2010	Kutubdia, Moheshkhali, Sadar, Pekua, Chakaria and Teknaf Upazilas	Cause: Collapse of embankment along the Bay Affected population: 11,545 people Casualty: 51 dead people Damaged House: More than 800 Damaged Infrastructures: More than 10 km stretch of coastal embankment, school, tube well, and pond Other Damage: livestock, crop, and shrimp/fish culture
(3)	Jul. 2019	7 Upazilas (No detailed information)	Cause: Heavy rain Affected population: 41,280 people ⁵ Casualty: 1 dead people Damaged Infrastructures: river dam and road Other Damage: seed bed
(4)	Jul. 2021	Ukhia and Teknaf Upazilas	Inundation area: 36km ²
(5)	August 2023	Cox's Bazar Sadar Upazila ⁶	Cause: Heavy rainfall Affected Area: 34.234 sq. km Affected HHs: 0 nos. Affected Crops Land: 670 hectares Nos. of Tube-well and Latrine Damaged: Deep Tube well-0, Shallow Tube well-0, Hand Tube well-0 and Latrine-0.
2. Cyclone			
(1)	Nov. 1970	-	Cyclone Bhola No detail information in Cox's Bazar District
(2) ⁷	Nov. 1983	Kutubdia, Teknaf, Ukhia Upazila	Cyclone near Cox's bazar Casualty: 300 missing fishermen (incl. other Districts) Damaged House: 2,000

³ Floods Landslides and Tornados Appeal no. MDRBD002, <https://reliefweb.int/report/bangladesh/bangladesh-floods-landslides-and-tornados-appeal-no-mdrbd002>

⁴ District Disaster Management Plan for Cox's Bazar, 2014, and Bangladesh: Situation Report No.175 – Flood <https://reliefweb.int/report/bangladesh/bangladesh-situation-report-no175-flood>

⁵ nirapad, Monsoon Flood Situation, July 16, 2019

⁶ According to the D-form of Cox's Bazar Sadar Upazila, EOC, DDM.

⁷ <https://colorgeo.com/bhola-cyclone-the-devasted-natural-disaster-in-bangladesh-in-1970/>

Upazila Disaster Risk Reduction Action Plan of Cox's Bazar Sadar

No.	Year	Upazila	Damage
(3)	Apr. 1991	8 Upazilas (No detailed information)	Cyclone Gorky Affected population: 1,121,689 people Casualty: 135,000 to 145,000 dead people ⁸ Damaged Infrastructures: road, bridge, culvert, dam, and school Other Damage: electricity, telecommunication system, industry, livestock, crops/land, salt field, shrimp/fish culture, and natural resources
(4)	Apr. 1994	8 Upazilas (No detailed information)	Cox's Bazar Cyclone Affected population: 390,615 people Casualty: 127 dead people Damaged Infrastructures: road, dam, and school Other Damage: livestock, crops, and shrimp/fish culture
(5)	Nov. 1995	-	Cyclone near Cox's Bazar Casualty: 650 dead people Other Damage: livestock
(6)	May 1997	8 Upazilas (No detailed information)	Cyclone "One Bravo" Affected population: 1,132,174 people Casualty: 34 dead people and 3,516 injured people Damaged Infrastructures: bridge, culvert, dam, and school Other Damage: livestock and shrimp/fish culture
(7)	Nov. 2007	8 Upazilas (No detailed information)	Cyclone "Sidr" Affected population: 855 people. Casualty: 7 dead people Damaged Infrastructures: road, dam, and school Other Damage: livestock Other Damage: livestock and shrimp/fish culture
(8) ⁹	Apr. 2009	Sadar, Ramu, Chakaria, Pekua, Moheshkhali and Kutubdia Upazilas	Cyclone Bijli Affected population: 29,165 people Casualty: 2 dead people Damaged Infrastructures: road and dam Other Damage: crops and salt field
(9)	May 2009	5 Upazilas (No detailed information)	Cyclone Aila Affected population: 77,500 people Casualty: 3 dead people Damaged Infrastructures: embankment Other Damage: crops and salt field
(10)	Jul. 2015	-	Cyclone Komen Affected population: 270,000 people Casualty: 4 dead people

⁸ <https://www.history.com/topics/natural-disasters-and-environment/bangladesh-cyclone-of-1991>

⁹ Bangladesh: Disaster Management Information Centre situation report 20 Apr 2009, 11:30
<https://reliefweb.int/report/bangladesh/bangladesh-disaster-management-information-centre-situation-report-20-apr-2009>

¹⁰ Tropical Cyclone Komen (ECHO Daily Flash of 31 July 2015)

<https://reliefweb.int/report/bangladesh/bangladesh-india-myanmarburma-tropical-cyclone-komen-echo-daily-flash-31-july-2015>

Upazila Disaster Risk Reduction Action Plan of Cox's Bazar Sadar

No.	Year	Upazila	Damage
(11)	May 2016	-	Cyclone Roanu Affected population: 8,250 people ¹¹ Casualty: 3 dead people
(12)	May 2017	Kutubdia, Moheshkhali, Pekua, Ramu, Ukhiya, Teknaf Upazilas	Cyclone Mora Affected population: 500,000 people (evacuees from storm surge) Casualty: 5 dead people, 10 injured people and at least 21 missing fishermen Damaged House: 17,000 ¹²
(13)	May 2019	-	Cyclone Fani No detail information for Cox's Bazar District
(14)	May 2020	-	Cyclone Amphan with flooding and landslide No detail information for Cox's Bazar District
(15)	May 2021	Chakaria, Pekua, Cox's Bazar Sadar, Teknaf and St. Martin Upazilas	Cyclone Yaas Damaged Infrastructures: coastal structures, dunes and jetties
(16)	May 2023	-	Cyclone Mocha No detail information for Cox's Bazar District
3. Landslide			
(1)	Jul. 2003	-	Cause: Heavy rain Casualty: at least 6 people ¹³
(2)	Jul. 2008	Teknaf Upazila	Cause: Heavy rain Casualty: at least 10 dead and injured people ¹⁴
(3)	Jun. 2010	Ukhia Upazila	Cause: Heavy rain Casualty: at least 20 dead people ¹⁵
(4)	Jun. 2017	-	Cause: Cyclone Mora Casualty: 2 dead people ¹⁶
4. Earthquake			
(1)	Jul. 1999	Moheshkhali Upazila	Magnitude: 5.2 ¹⁷ Casualty: 6 dead people and over 200 injured people Damaged House: More than 700
(2)	Jul. 2003	City of Cox's Bazar and Moheshkhali Union	Magnitude: 5.7 ¹⁸ Buildings developed cracks.

¹¹ Bangladesh meteorological Department (2017), Report on Cyclone 'Roanu' (Bangladesh meteorological Department)

¹² Bangladesh | 2017 Severe Cyclonic Storm Mora
<https://reliefweb.int/report/bangladesh/bangladesh-2017-severe-cyclonic-storm-mora-office-un-resident-coordinator-flash-0>

¹³ <https://reliefweb.int/report/bangladesh/landslide-kills-six-southeast-bangladesh>

¹⁴ <https://reliefweb.int/report/bangladesh/landslide-kills-10-bangladesh-several-injured>

¹⁵ Bangladesh: Landslides - Situation Report No.176, <https://reliefweb.int/report/bangladesh/bangladesh-landslides-situation-report-no176>

¹⁶ Emergency Response Coordination Centre (ERCC) – DG ECHO Daily Map | 14/06/2017
<https://reliefweb.int/map/bangladesh/bangladesh-landslides-dg-echo-daily-map-14062017>

¹⁷ <https://earthquake.usgs.gov/earthquakes/eventpage/usp0009bys/executive>

¹⁸ <https://earthquake.usgs.gov/earthquakes/eventpage/usp000c3ex/executive>

3.2 Target Hazards of this Plan

Apart from the above, there are several types of other disasters that can also cause damage to this Upazila. This Plan targets all the possible hazards in the Upazila including lightning and drought, whereas it was decided that the following hazards were objectively and scientifically analyzed and shown by maps to identify the spatial distribution of hazard potential in the Upazila in terms of relatively frequency and potential for occurrence.

- Flood
- Storm surge
- Sediment disaster
- Earthquake Shaking

3.3 Hazard Map and Disaster-Prone Areas by Each Hazard

3.3.1 Flood

Figure 3-1 shows a flood hazard map for Cox's Bazar Sadar Upazila estimated by using a 2-days rainfall of a 20-year return period. According to the map, the area along the Bakkhali River is most prone to flooding in Cox's Bazar Sadar Upazila. Especially, in Patali Machhuakhali Union, the depth of flooding is generally more than 1.8 m. The Union is situated in the downstream section and low-lying areas of the Bakkhali River basin, where the flat terrain prevents smooth drainage. Some areas of Jhilwanja Union, Khurushkul Union and Cox's Bazar Paurashava are also affected by river flooding, although the extent of flooding is not as large. Since these areas are situated near the mouth of the Bakkhali River, the flow of floodwater is significantly affected by the tidal level, which sometimes prevents smooth drainage of floodwater. The flood with a depth of more than 0.3 m spreads at the Bharuakhali Khal side of Chaufaldandi and Bharuakhali Unions. Islamabad and Idgaon unions are less prone to flooding. They are largely located at higher elevation areas, thus less likely to be affected by river flooding. In terms of river flooding, Islampur and Pokkhali Unions are less prone to flooding because there are no major rivers situated in these Unions. However, it does not mean these areas are completely safe against flood disasters.

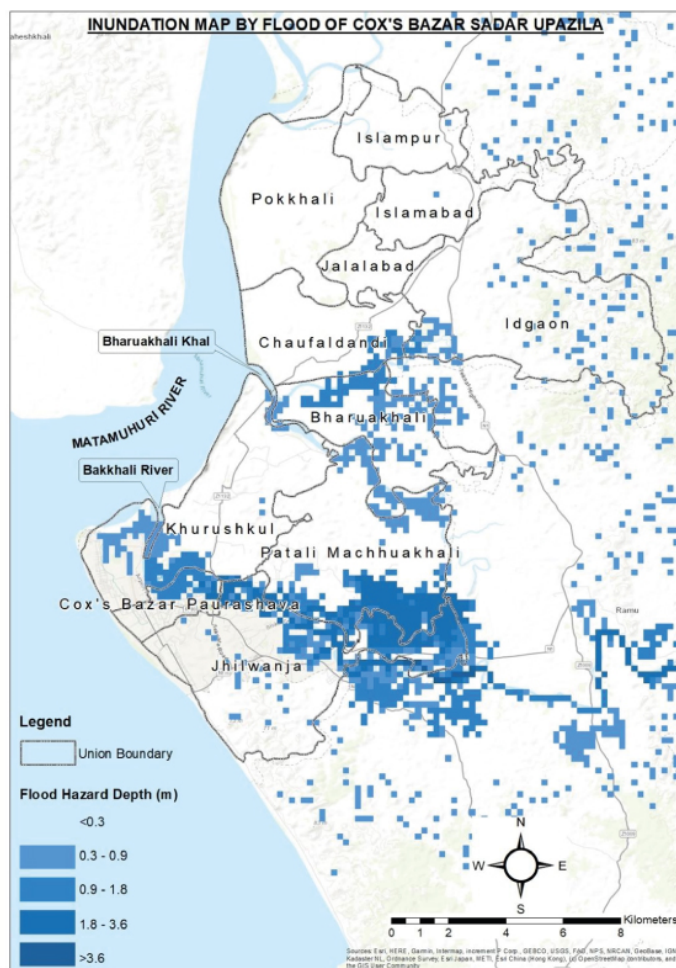


Figure 3-1. River Floods Hazard map in Cox's Bazar Sadar

Analysis:

Probability year: 2-days Rainfall for 20-year Return Period

(427mm: Ref. JICA Study for Matarbari Sea Port in 2018)

Landform: Satellite-based DEM (AW3D)

Land Cover (Soil Condition): Bangladesh Soil Map available on-line

Notes:

1. The hazard was estimated under no existing embankments of polders.
2. The hazard analysis and risk assessment (Chapter 4.1.1) introduced in this plan does not consider the possible effects of the climate change.
3. When viewing the flood hazard map, users are recommended to consider the elevation of their houses or unions and compare them with the flood depths indicated in the map.
4. Overlaying evacuation routes and shelter locations with the map, is helpful to identify where and how to evacuate before and during flood events.

Figure 3-2 shows a 50-year probability and 100-year probability flood hazard map for this Upazila. As these maps show, the flood affected areas along the Bakkhali River are likely to expand with deeper depth of inundation, especially at Patali Machhuakhali Union. For other Unions, especially in Bharuakhali, the extent of flooding is not much different compared to the situation with a 20-year probability flood, but the risk to human life is considered to be higher due to the increase in the area with flood depth of 0.9 m or greater.

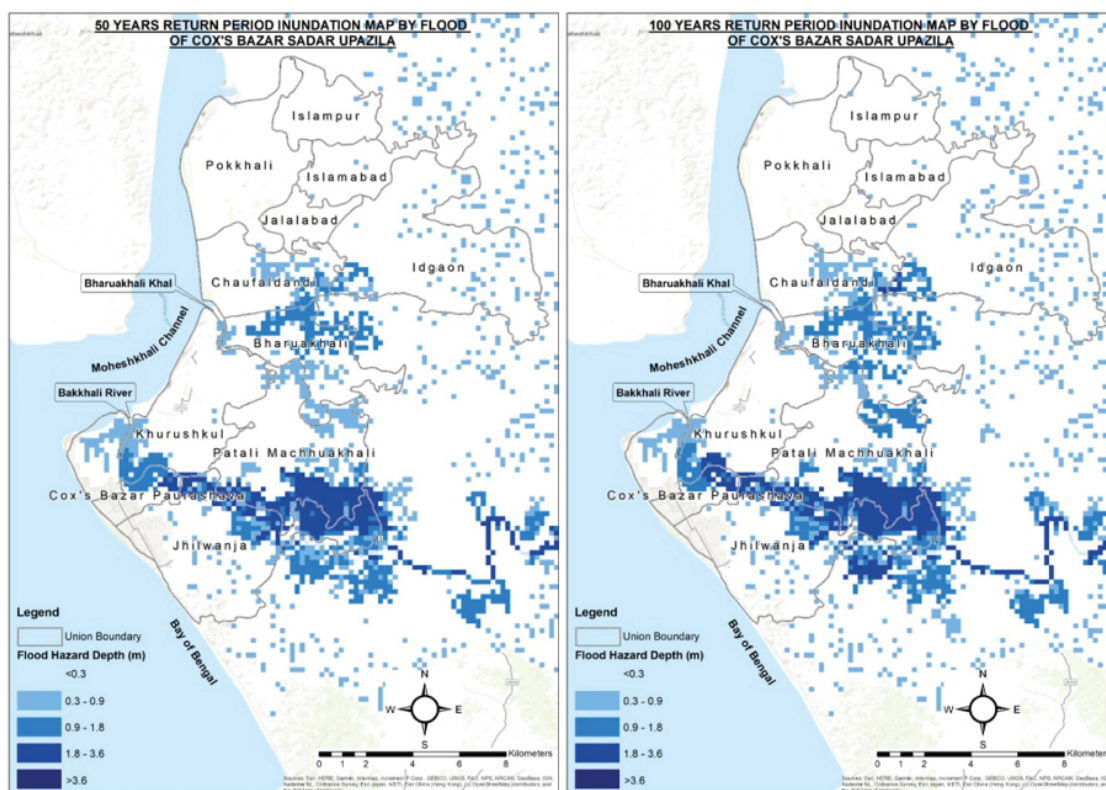


Figure 3-2. River floods hazard maps of large-scale disasters

(Left: 50-year return period, Right:100-year return period)

Analysis:

Probability year: 2-days Rainfall for 50-year Return Period and 100-year Return Period

(50-year - 469mm, 100-year - 511mm: Ref. JICA Study for Matarbari Sea Port in 2018)

Landform: Satellite-based DEM (AW3D)

Land Cover (Soil Condition): Bangladesh Soil Map available on-line

Notes: See the Notes of Figure 3-1

3.3.2 Storm Surge

Figure 3-3 shows a 20-year probability storm surge hazard map for Cox's Bazar Sadar Upazila. According to the map, the following areas are vulnerable to inundation by the storm surge: 1) the area surrounding the airport, 2) the area along Bakkhali River, 3) the area along Bharuakhali Khal, and 4) the area along Moheshkhali Channel. The area surrounding the airport in Khurushkul Union is inundated with a depth of

more than 1.0 m since it is a low-lying area located at the river mouth of the Bakkhali River. The areas along the Bakkhali River are inundated by more than 1.0 m due to the storm surge running up the river. Especially, in Patali Machhuakhali Union, the inundated area spreads in low-lying areas of the polder through the canals connected to the Bakkhali River. In addition to these areas, the area along Bharuakhali Khal is affected by the storm surge running up the river and canals. The cause of inundation in Islampur Union is the same. The inundation in the area along the Moheshkhali Channel of Pokkhali Union is caused by the storm surge running up the Channel. The inundated area is not extended along the Bay of Bengal in Jhilwanja Union because the hill is located behind the coastline.

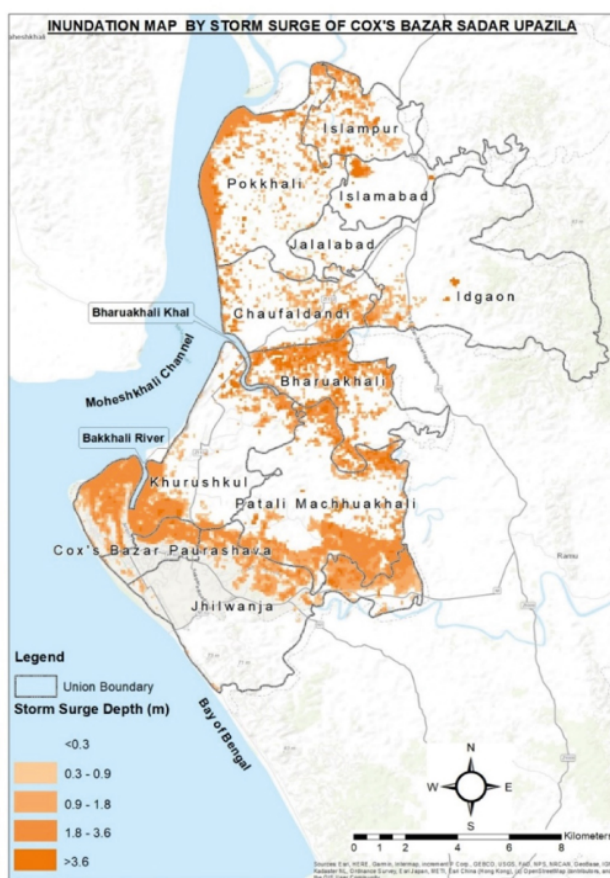


Figure 3-3. Storm Surge Hazard map in Cox's Bazar Sadar

Analysis:

Probability year: 20-year probability storm surge estimated based on probabilistic analysis by using the historical tide observation data.

Landform: Satellite-based DEM (AW3D)

Notes:

1. The results of the probabilistic analysis might be changed if a severe disaster occurs. The inundation area might be larger if much larger disasters are considered.
2. Hazard was estimated under no existing embankments of polders.
3. The water level is assumed completely flat from coastline to inland.
4. The hazard analysis and risk assessment (Chapter 4.1.2) introduced in this plan does not consider the possible effects of the climate change.

Figure 3-4 shows a 50-year probability and 100-year probability of storm surge hazard map for this Upazila. As these maps shows, the storm surge affected areas are almost the same as those of 20-year probability storm surge, although the inundation depth and area are gradually increased. The reason is because the slope of the probability function of storm surge is relatively gentle based on the results of tide observation.

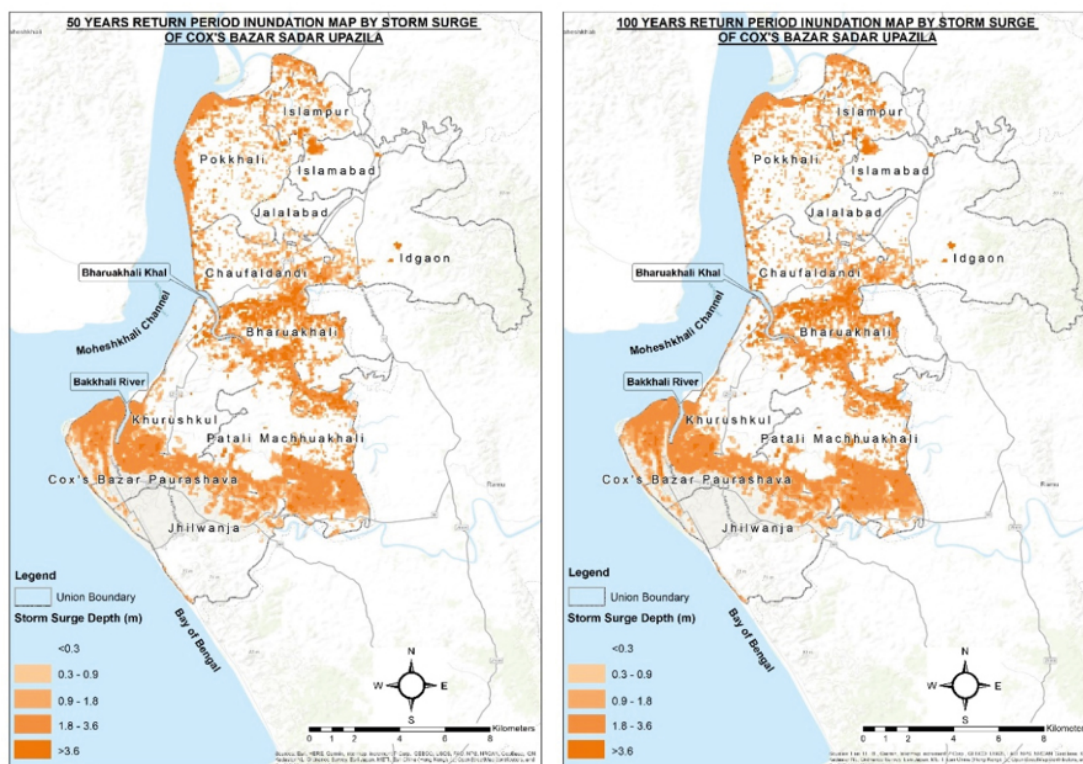


Figure 3-4. Storm surge hazard maps of large-scale disasters

(Left: 50 year return period, Right:100 year return period)

Analysis:

Probability year: 50-year and 100-year probability storm surge estimated based on probabilistic analysis by using the historical tide observation data.

Landform: Satellite-based DEM (AW3D)

Note: See the Notes of Figure 3-3

3.3.3 Sediment Disasters

3.3.3.1 Slope Failure

According to the slope failure hazard map shown in Figure 3-5, in Cox's Bazar Sadar Upazila, slope failure can occur mainly in Jhilwanja Union and the eastern area of Idgaon Union with steep slopes. In these areas, it is observed that many steep slopes have been formed by slope cutting for road and house and building construction without any countermeasure. The mechanisms of disasters are mainly slope failures behind roads and settlements and falling rocks and fallen trees from the upper slopes, triggered by above-normal rainfall and earthquakes.

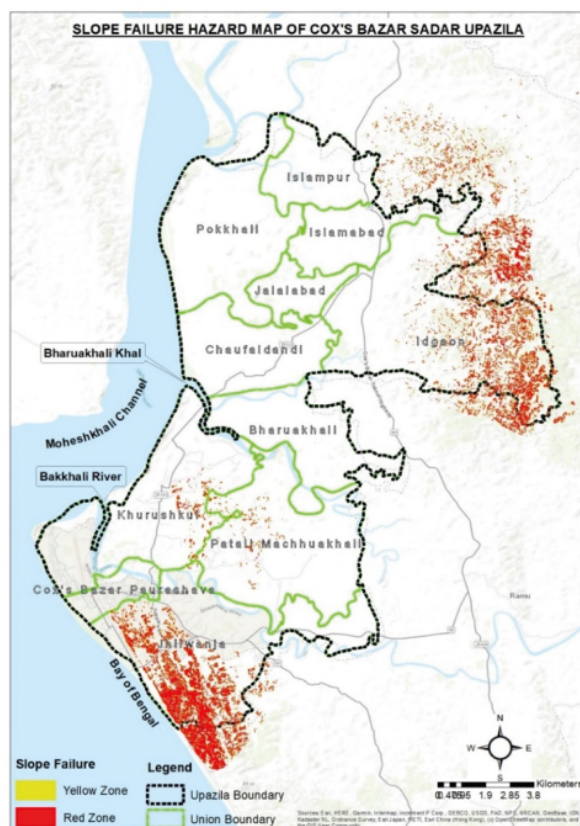
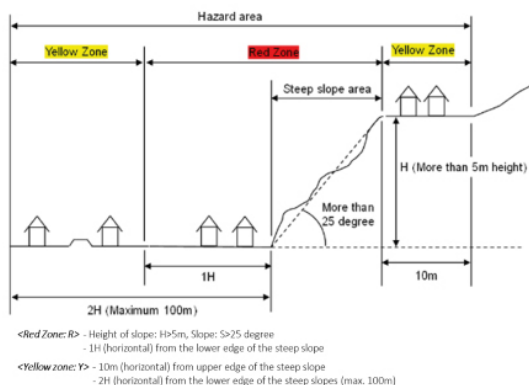


Figure 3-5. Slope Failure Hazard Map in Cox's Bazar Sadar



<Red Zone:>

Area where there is a high risk of damage to buildings and threat to people. The force acting on buildings due to moving debris and earth of landslides in the Red Zone is expected to be larger than the resistance capacity of normal buildings. Therefore, normal buildings in Red Zone would be completely destroyed by the moving debris and earth of landslide.

<Yellow zone:>

Area that is susceptible to landslide. The resistance capacity of normal buildings in Yellow Zone is expected to be larger than the force acting on buildings due to the moving debris and earth of landslide.

Analysis:

Hazard zone: Calculated by using GIS software and an application elaborated by the Project Team

Landform: Elevation data that was elaborated using spot height, and contour data obtained from digital 1/25,000 topographic map of SOB. (Resolution: 5m)

Notes:

1. It is a simplified method to calculate Hazard Zones (Red and Yellow zones) based only on topographic information.
2. The map shows areas where disaster can occur triggered by heavy rain fall and earthquake.
3. It is recommended to monitor precursor phenomenon such as small rocks falling from the slope, occurrence of cracks in the cliff, water gushing out from the cliff, spring water drying up, river water turbidity (muddy water flow), etc.

3.3.3.2 Debris Flow

The debris flow can occur in the southeastern area of Jhilwanja Union, near the border between Cox's Bazar Sadar and Ramu Upazilas, the area surrounded by the roads N1 and Z1132 in Chaufaldandi and Idgaon Unions, and the southeastern and northern areas in Idgaon Union.



Figure 3-6. Debris Flow Hazard Map in Cox's Bazar Sadar

Analysis:

The algorithm to calculate debris flow hazard levels is based on Flow-R algorithm.

3.3.4 Earthquake Shaking

Figure 3-7 shows an earthquake shaking hazard map for Cox's Bazar Sadar Upazila. The earthquakes in Cox's Bazar District can be mainly caused by the collision of the Indian and Eurasian tectonic plates, which creates a complex fault system in the region. The southwestern unions including Cox's Bazar Paurashava, Khurushkul and Jhilwanja Unions, and the northeastern unions including Islamabad and Idgaon Unions, are estimated with relatively weak shaking rather than other unions including Islampur, Pokkhali, Jalalabad, Chaufaldandi, Bharuakhali and Patali Machhuakhali Unions.

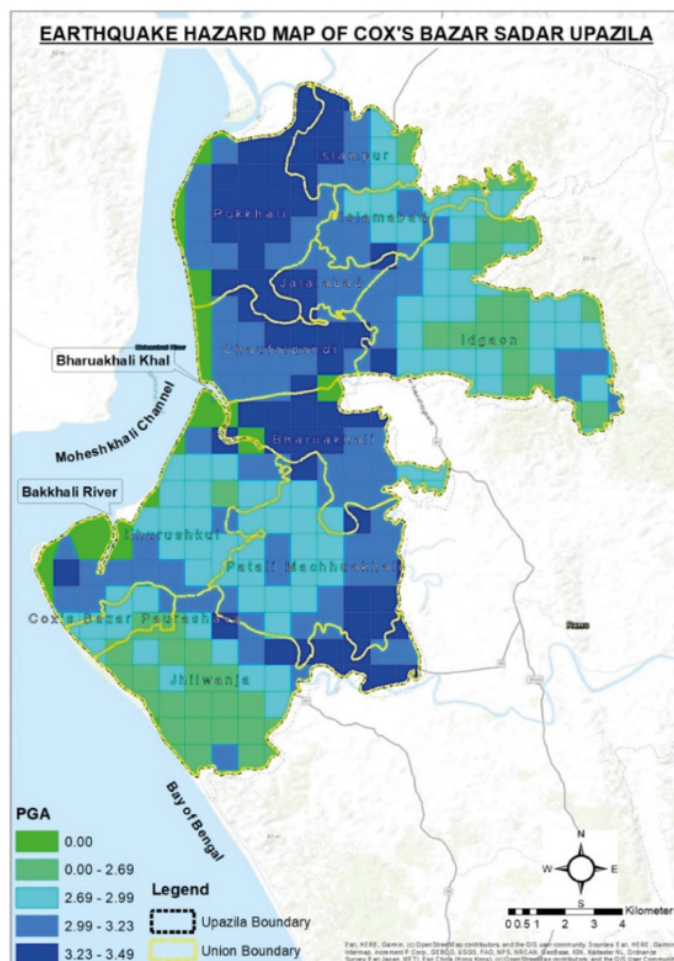


Figure 3-7. Earthquake Hazard map in Cox's Bazar Sadar

Analysis: The PGA was estimated considering the ground conditions in Cox's Bazar Sadar Upazila based on the seismic zoning described in the Bangladesh National Building Code (BNBC) 2020.

Vs30 model: the time-averaged shear-wave velocity to 30 m depth <<https://earthquake.usgs.gov/data/vs30/>>

Formula for estimation of the surface soil amplification factor: Midorikawa et al. (1994) <https://iisee.kenken.go.jp/eqflow/reference/4_1.htm>

Notes:

1. Hazard maps are not perfect. Actual situations may not follow the hazard maps exactly.
2. Each union shows also various PGA values based on its characteristic local topography and on-site sediment conditions.
3. The estimated results should be re-calculated if the reference data or assumptions are updated.

Chapter-4. Disaster Risk and DRR Targets of the Upazila

4.1 Disaster risk

4.1.1 Flood

The flood risk in the Upazila was estimated focusing on three major assets to be protected: paddy fields, settlement areas, as well as important infrastructures and public facilities. By overlaying the flood hazard map on these areas, the affected areas can be identified.

In general, the countermeasures against floods include 1) river and canal improvement such as construction of embankments, dredging and widening to increase flow capacity, 2) construction of retarding basins/reservoirs to temporarily store a portion of flood water, and 3) drainage improvement such as installation of sluice gates and pumping stations to drain the flood water to nearby rivers.

(1) Damage estimation of paddy field affected by flood

As shown in Figure 4-1 and Figure 4-2, the most vulnerable unions to flooding are Jhilwanja and Patali Machhuakhali Upazilas along Bakkhali River, due to the flooding of the river and canals in the polder connected to Bakkhali River. The inundation areas are approximately 390 m² and 490 m², respectively. Especially, 57 % of the inundated area in Patali Machhuakhali Upazila has a flooding depth of more than 1.8m.

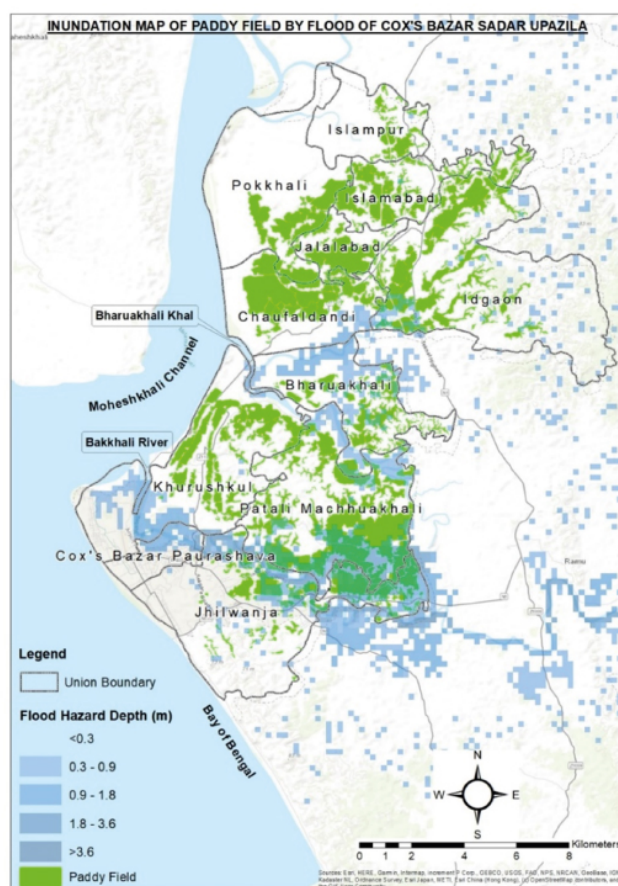


Figure 4-1. Inundated Paddy Field by 20-year Return Period Flood

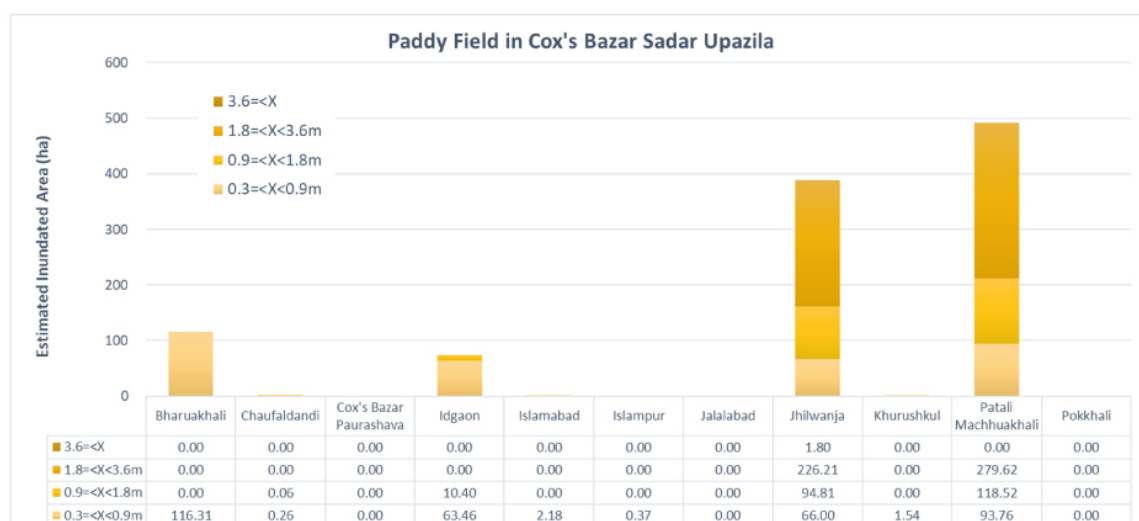


Figure 4-2. Inundated Area of Paddy Field by 20-year return period flood

Total Economic loss estimated based on the areas of the inundated paddy fields, reaches about 209 million Taka. Patali Machhuakhali Union is most affected with about 96 million, followed by Jhilwanja Union with 76 million Taka.

Table 4-1. Estimated Economic Loss by Flood

Union	Area of Inundated Paddy Field (≥ 0.3m) [ha]	Ratio (Inundated Area / All Paddy Field)	Estimated Economic Loss [Thousand Taka]
Bharuakhali	116.31	30.8%	22,674
Chaufaldandi	0.32	0.1%	63
Cox's Bazar Paurashava	0.00	-	0
Idgaon	73.86	9.3%	14,399
Islamabad	2.18	0.5%	426
Islampur	0.37	0.3%	73
Jalalabad	0.00	0.0%	0
Jhilwanja	388.83	69.8%	75,802
Khurushkul	1.54	0.3%	301
Patali Machhuakhali	491.90	42.2%	95,896
Pokkhali	0.00	0.0%	0
Total	1,075.32	30.8%	209,633

Notes: 1. 5.57 ton/ha of rice yield was used to estimate amount of affected rice production, which is based on data in "Yearly Production and Damage Report on Agriculture of Cox's Bazar Sadar Upazila, DAE" (2019, 2020 and 2021). <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0261128>

2. The Unit price of rice was calculated with the data above (Note 1), to be 35 Taka/kg.

(2) Damage estimation of settlement area by flood

Figure 4-3 shows that the area around the airport on the left side of the Bakkhali River mouth and the area on the right side of the Bakkhali River are most severely affected by the flooding of the river and canals in the polder connected to the river. Comparing the affected settlement areas by the union, Jhilwanja and Patali Machhuakhali Unions are the most affected with approximately 250 m² and 130 m², respectively. The flooding depth in the Upazila ranges from 0.3 m to 3.6 m in most areas.

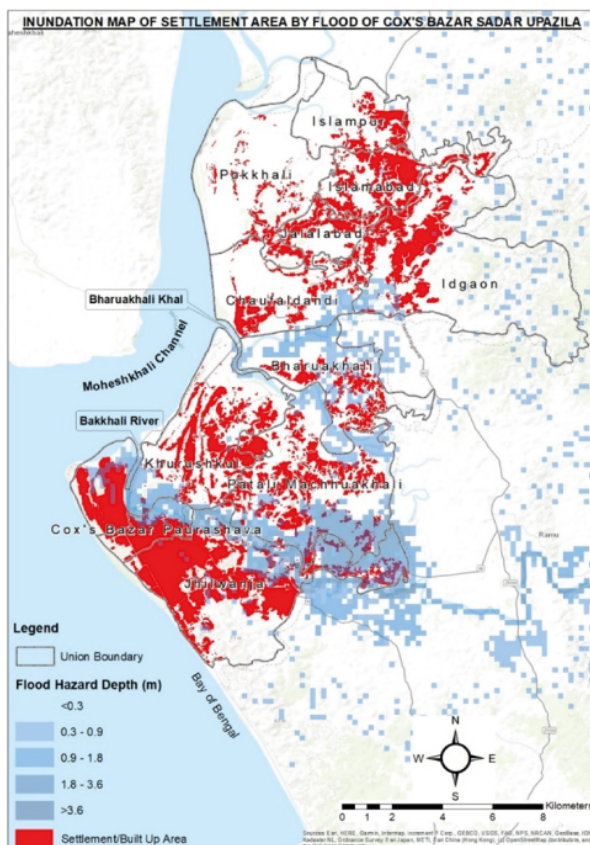


Figure 4-3. Inundated Settlement by 20-Year Return Period Flood

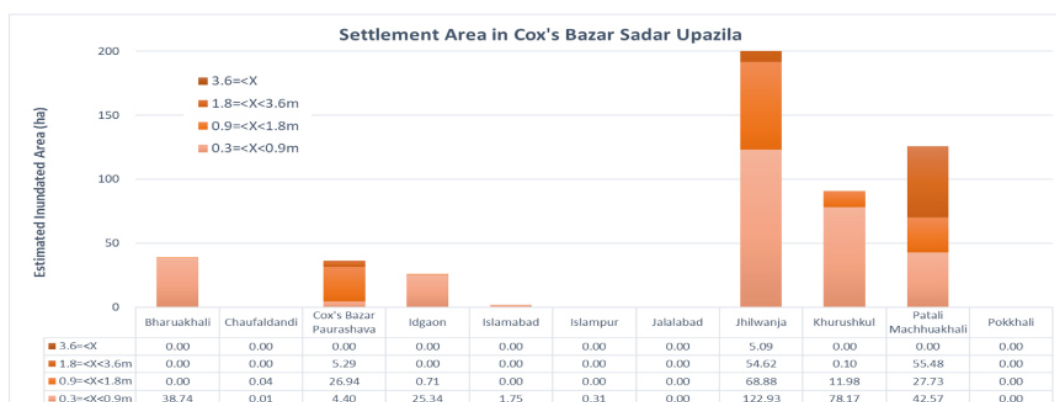


Figure 4-4. Inundated Area of Settlement by 20-Year Return Period Flood

In terms of the population numbers, Cox's Bazar Paurashava is the most vulnerable to flooding, while the Union with the highest percentage of affected population is Jhilwanja Union (Figure 4-5 and Table 4-2).

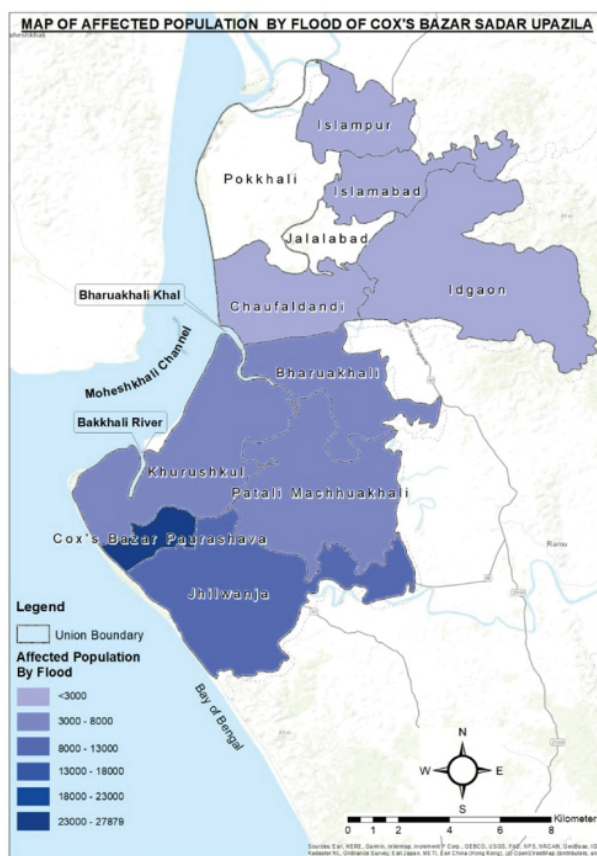


Figure 4-5. Affected Population by 20-Year Return Period Flood

Figure 4-5. Affected Population by 20-Year Return Period Flood

Union	Population (Census, 2022)	Affected Population	Percentage
Bharuakhali	26,662	3,409	12.8%
Chaufaldandi	33,506	6	0.0%
Cox's Bazar Paurashava	196,378	27,879	14.2%
Idgaon	42,561	1,746	4.1%
Islamabad	33,608	126	0.4%
Islampur	26,762	45	0.2%
Jalalabad	22,330	0	0.0%
Jhilwanja	59,580	10,815	18.2%
Khurushkul	54,958	5,054	9.2%
Patali Machhuakhali	46,256	7,547	16.3%
Pokkhali	24,304	0	0.0%
Total	566,905	56,627	10.0%

(3) Damage estimation of important facilities and infrastructures by flood

Figure 4-6 and Table 4-3 illustrates the damage estimation of the DRR-related important facilities and infrastructures in this Upazila, namely roads and bridges, government offices, schools and shelters, and hospitals, in consideration of the disaster management and emergency operation. As the Figure and the Table show, roads and public facilities in Jhilwanja Union, Patali Machhuakhali Union, and Bharuakhali Union are relatively severely affected by the flood.

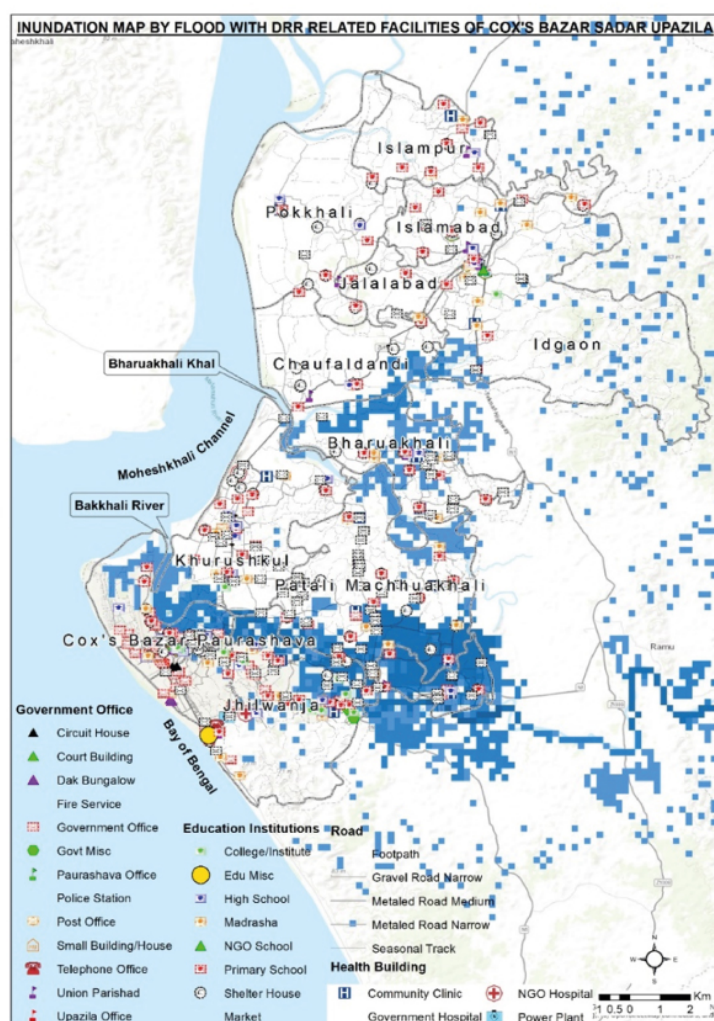


Figure 4-6. Inundation map by flood with DRR-related facilities and infrastructures¹⁹

¹⁹ In this analysis, the facilities means government facilities (government office, government miscellaneous buildings, Paurashava office, Upazila office, Union Parishad office, fire service, police station, telephone office), education institutions (college/institute, educational miscellaneous buildings, high school, Madrasa, NGO school, Primary school), Shelter House, and health building (Community clinic, Government hospitals, NGO hospital), and Power plant that are in the dataset of SOB. The data may not show all the current facilities and infrastructures and does not always show the exact locations due to its research/published year and its data scale.

Data source: SOB: "This map sheet has been compiled by digital photogrammetric method using colored aerial photographs of 50cm GSD taken during 2010-12 and also SPOT imagery of 2.5 m resolution acquired in 2011 and verified on the ground during 2014-2015.
Flood hazard map of 20-year return period (see Chapter 3.3.1)

Table 4-3. Flood affected facilities and infrastructure by Union

Union Name	Road length (m)			DRR-related important facilities (no.)			(Reference) Bridges		
	Total	Inundated (≥ 0.3m)	Total	Total	Inundated (≥ 0.3m)	%	Total	Inundated (≥ 0.3m)	%
Bharuakhali	69,997.7	27,421.1	39.2%	23	3	13.0%	10	1	10.0%
Chaufaldandi	42,182.3	0.0	0.0%	15	0	0.0%	1	0	0.0%
Cox's Bazar Paurashava	44,150.5	7,475.2	16.9%	51	6	11.8%	4	1	25.0%
Idgaon	60,085.6	2,904.6	4.8%	16	1	6.3%	6	1	16.7%
Islamabad	35,619.8	0.0	0.0%	20	0	0.0%	2	0	0.0%
Islampur	18,163.4	0.0	0.0%	15	0	0.0%	1	0	0.0%
Jalalabad	3,334.9	0.0	0.0%	4	0	0.0%	0	0	0.0%
Jhilwanja	104,207.7	35,853.8	34.4%	78	11	14.1%	23	9	39.1%
Khurushkul	63,941.0	7,079.3	11.1%	47	0	0.0%	15	1	6.7%
Patali Machhuakhali	51,539.0	12,562.3	24.4%	36	7	19.4%	32	6	18.8%
Pokkhali	18,564.6	0.0	0.0%	16	0	0.0%	1	0	0.0%

4.1.2 Storm Surge

The storm surge risk in the Upazila was estimated focusing on three major assets to be protected: paddy fields, settlement areas, as well as important infrastructures and public facilities. By overlaying the storm surge map on these areas, the affected areas can be identified.

Generally, the countermeasures against storm surges include 1) the construction of dyke, seawall/guide wall and revetments along the coastline to protect inland areas, and 2) the construction of river embankments to prevent rivers from overtopping when seawater runs up through rivers.

(1) Damage estimation of paddy field affected by storm surge

As shown in Figure 4-7 and Figure 4-8, the most vulnerable unions to storm surge are Patali Machhuakhali and Jhilwanja Unions along Bakkhali River, due to the flooding of the river and canals in the polder connected to Bakkhali River. The inundation areas are approximately 670 m² and 400 m², respectively. Especially, half of the area in Patali Machhuakhali Union has a flooding depth of more than 1.8m.

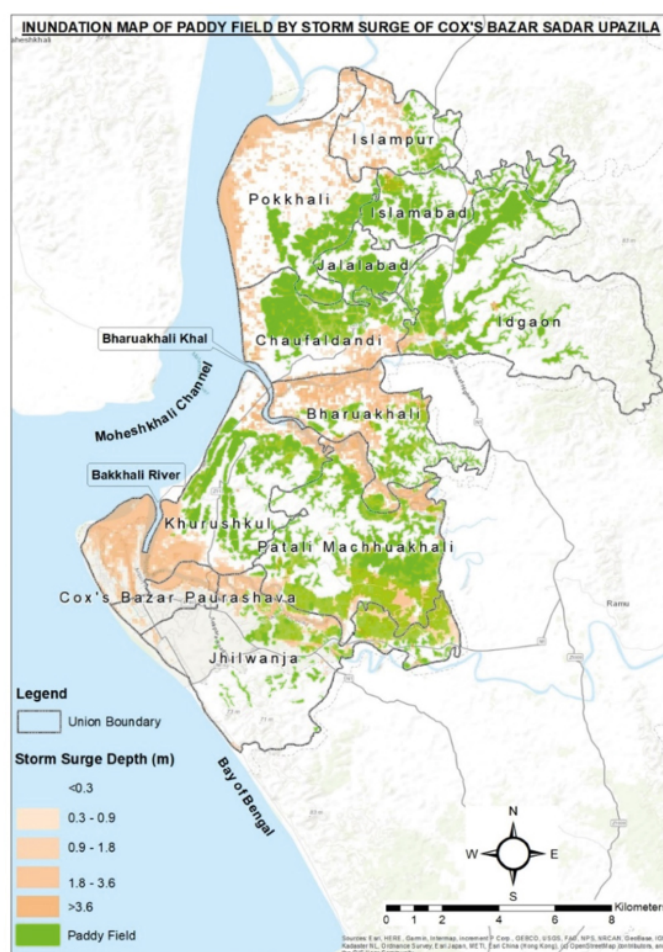


Figure 4-7. Inundated Paddy Field by 20-Year Return Period Storm Surge

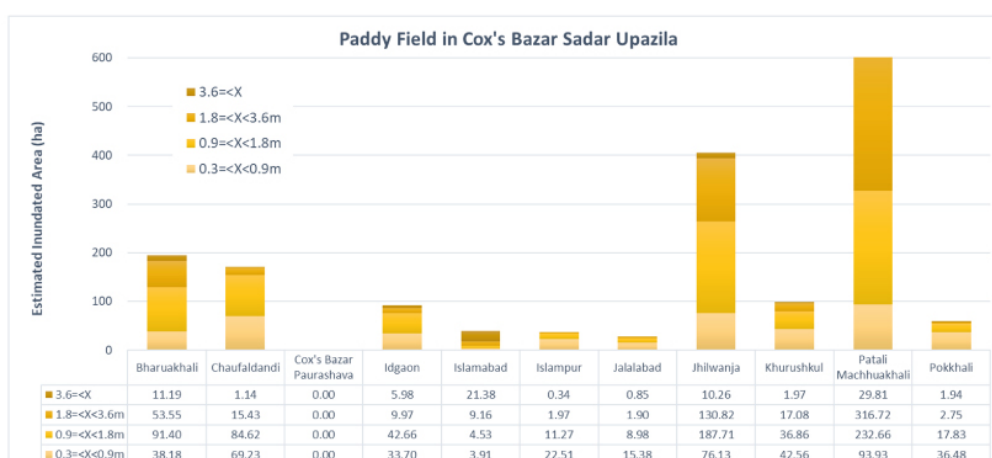


Figure 4-8. Inundated Area of Paddy Field by 20-year Return Period Storm Surge

Total Economic loss estimated based on the areas of the inundated paddy fields, reaches about 350 million Taka. Patali Machhuakhali Union is most affected with about 131 million, followed by Jhilwanja Union with 79 million Taka.

Table 4-4. Estimated Economic Loss by Storm Surge

Union	Area of Inundated Paddy Field (≥ 0.3m) [ha]	Ratio All Paddy Field)	Estimated Economic Loss [Thousand Taka]
Bharuakhali	194.32	51.4%	37,882
Chaufaldandi	170.43	29.2%	33,225
Cox's Bazar Paurashava	0.00	-	0
Idgaon	92.32	11.6%	17,997
Islamabad	38.98	9.5%	7,600
Islampur	36.09	28.7%	7,036
Jalalabad	27.11	9.8%	5,286
Jhilwanja	404.92	72.7%	78,939
Khurushkul	98.48	18.0%	19,198
Patali Machhuakhali	673.11	57.8%	131,223
Pokkhali	59.00	15.6%	11,502
Total	1,794.76	34.4%	349,888

- Notes: 1. 5.57 ton/ha of rice yield was used to estimate amount of affected rice production, which is based on data in "Yearly Production and Damage Report on Agriculture of Cox's Bazar Sadar Upazila, DAE" (2019, 2020 and 2021). <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0261128>
2. The Unit price of rice was calculated with the data above (Note 1), to be 35 Taka/kg.

(2) Damage estimation of settlement area by storm surge

Figure 4-9 shows that the area around the airport on the left side of the Bakkhali River mouth and the area on the right side of Bakkhali River, are most severely affected by the flooding of the river and canals in the polder connected to the river. Comparing the affected settlement areas by the Union, Khurushkul and Patali Machhuakhali Unions are the most affected with approximately 270 m² and 110 m², respectively. The flooding depth in the Upazila ranges from 0.3 m to 3.6 m in most areas.

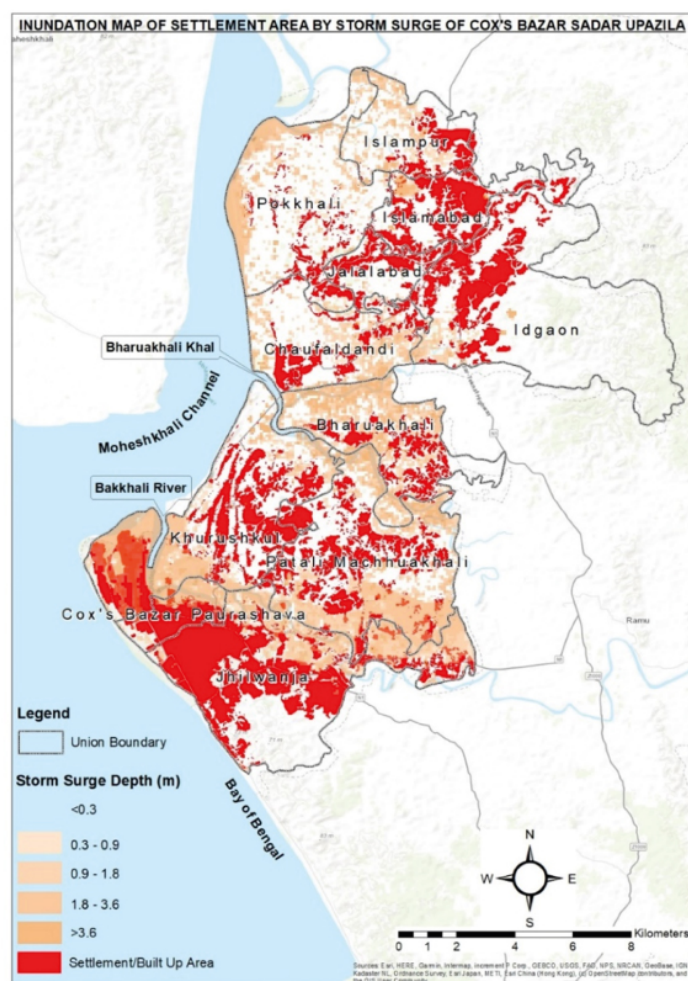


Figure 4-9. Inundated Settlement by 20-Year Return Period Storm Surge

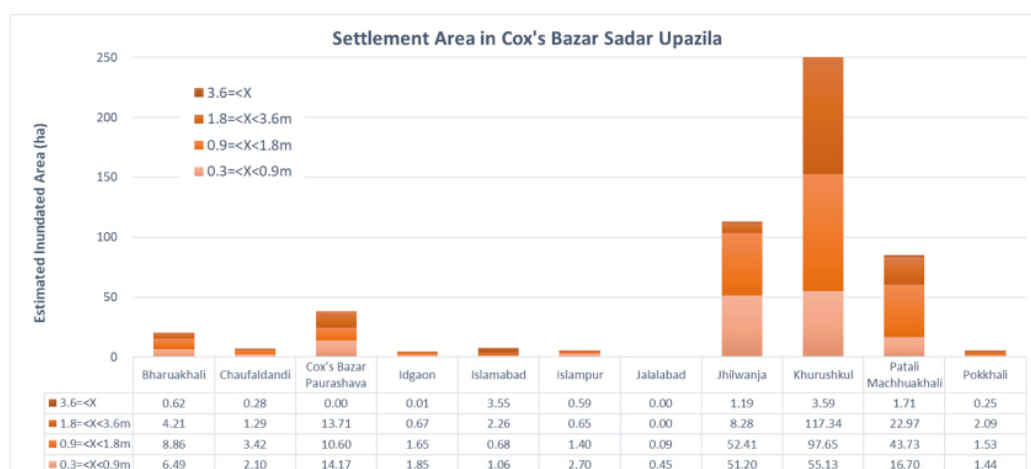


Figure 4-10. Inundated Area of Settlement by 20-year Return Period Storm Surge

In terms of the population numbers, Cox's Bazar Paurashava is the most vulnerable to flooding, while the Union with the highest percentage of affected population is Khurushkul Union (Figure 4-11 and Table 4-5).

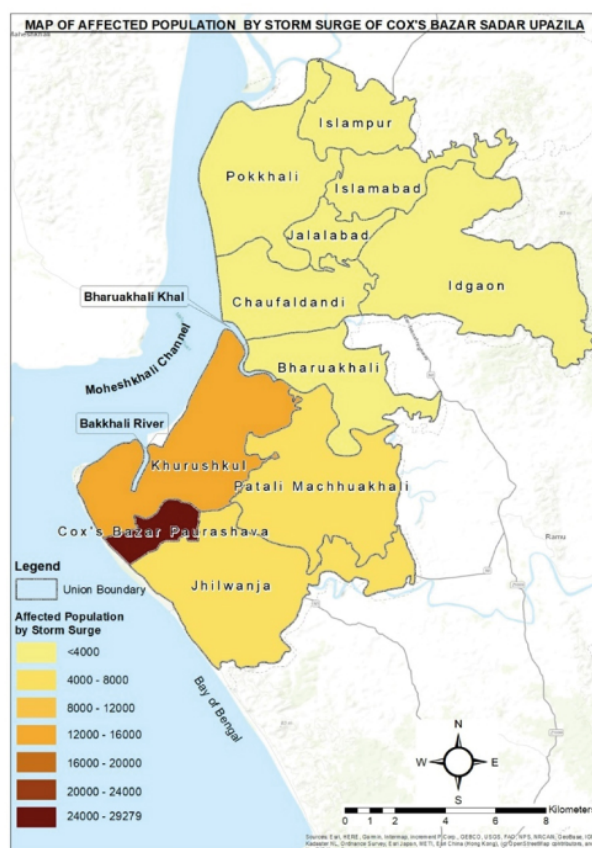


Figure 4-11. Affected Population by 20-Year Return Period Storm Surge

Table 4-5. Storm Surge Affected Population by Union

Union	Population (Census,2022)	Affected Population	Percentage
Bharuakhali	26,662	1,775	6.7%
Chaufaldandi	33,506	774	2.3%
Cox's Bazar Paurashava	196,378	29,279	14.9%
Idgaon	42,561	280	0.7%
Islamabad	33,608	544	1.6%
Islampur	26,762	776	2.9%
Jalalabad	22,330	56	0.2%
Jhilwanja	59,580	4,862	8.2%
Khurushkul	54,958	15,328	27.9%
Patali Machhuakhali	46,256	5,107	11.0%
Pokkhali	24,304	643	2.6%
Total	56642,905	59,424	10.5%

(3) Damage estimation of important facilities and infrastructures by Storm Surge

Figure 4-12 and Table 4-6 illustrate the damage estimation of the DRR-related important facilities and infrastructures in this Upazila, namely roads and bridges, government offices, schools and shelters, and hospitals, which is in consideration of the disaster management and emergency operation. As the Figure and the Table show, while roads in Chaufaldandi and Pokkhali are expected to relatively be severely affected by storm surge, public facilities are more at risk in Patali Machhuakhali Union and Khurushkul Union.

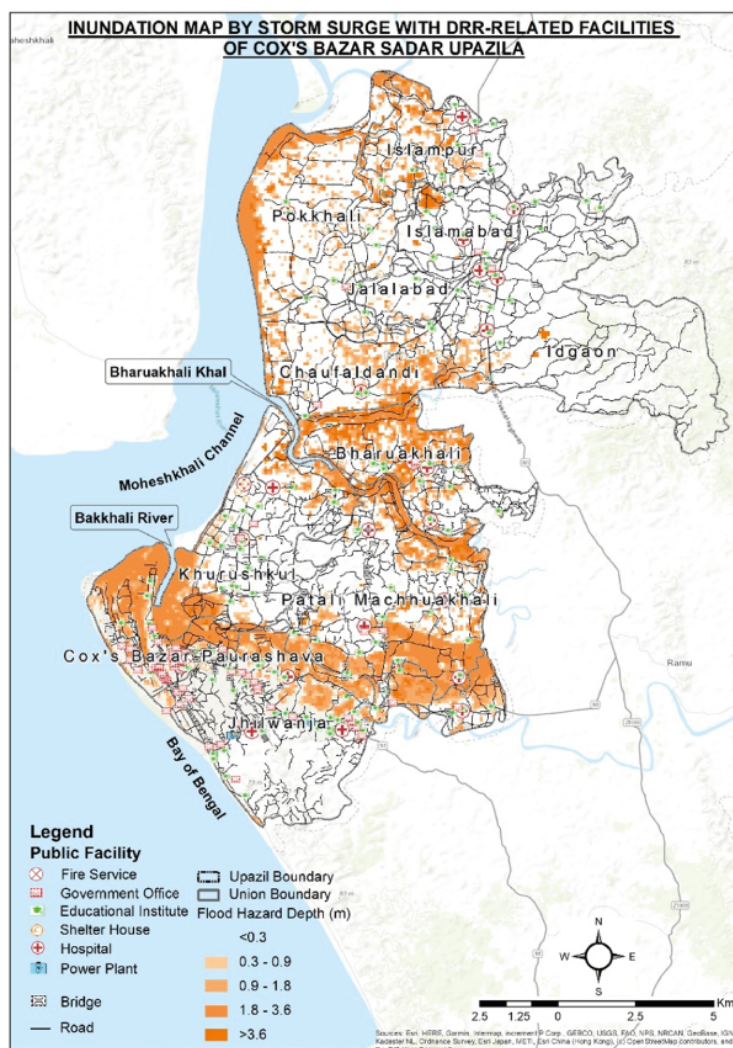


Figure 4-12. Inundation map by storm surge with DRR-related facilities and infrastructures²⁰

²⁰ In this analysis, the facilities means government facilities (government office, government miscellaneous buildings, Paurashava office, Upazila office, Union Parishad office, fire service, police station, telephone office), education institutions (college/institute, educational miscellaneous buildings, high school, Madrasa, NGO school, Primary school), Shelter House, and health building (Community clinic, Government hospitals, NGO hospital), and Power plant that are in the dataset of SOB. The data may not show all the current facilities and infrastructures and does not always show the exact locations due to its research/published year and its data scale.

Data source: SOB: "This map sheet has been compiled by digital photogrammetric method using colored aerial photographs of 50cm GSD taken during 2010-12 and also SPOT imagery of 2.5 m resolution acquired in 2011 and verified on the ground during 2014-2015.
Storm Surge hazard map of 20-year return period (see Chapter 3.3.2)

Table 4-6. Storm Surge affected facilities and infrastructure by Union

Union Name	Road length (m)			DRR-related important facilities (no.)			(Reference) Bridges		
	Total	Inundated (≥ 0.3m)	Total	Total	Inundated (≥ 0.3m)	%	Total	Inundated (≥ 0.3m)	%
Bharuakhali	69,997.7	54,972.3	78.5%	23	0	0.0%	10	2	20.0%
Chaufaldandi	42,182.3	36,443.9	86.4%	15	1	6.7%	1	0	0.0%
Cox's Bazar Paurashava	44,150.5	31,506.7	71.4%	51	1	2.0%	4	0	0.0%
Idgaon	60,085.6	23,233.0	38.7%	16	0	0.0%	6	0	0.0%
Islamabad	35,619.8	13,192.8	37.0%	20	1	5.0%	2	0	0.0%
Islampur	18,163.4	12,293.0	67.7%	15	1	6.7%	1	0	0.0%
Jalalabad	3,334.9	821.3	24.6%	4	0	0.0%	0	0	0.0%
Jhilwanja	104,207.7	63,141.7	60.6%	78	7	9.0%	23	5	21.7%
Khurushkul	63,941.0	29,546.4	46.2%	47	6	12.8%	15	1	6.7%
Patali Machhuakhali	51,539.0	35,133.4	68.2%	36	4	11.1%	32	9	28.1%
Pokkhali	18,564.6	16,039.7	86.4%	16	0	0.0%	1	0	0.0%

4.1.3 Sediment Disaster

Figure 4-13 shows that, in Cox's Bazar Sadar Upazila, sediment disaster risk is concentrated around the south area of the upazila, namely Jhilwanja Union. In this Union, about 15.9% of settlement area, which is 220.49ha, was evaluated as the red and yellow zones (high risk areas) and it was estimated that approximately 9,500 people live in the area (Figure 4-15 and Table 4-7). Especially, 70 % of affected people are included in the red zone.

Generally, the countermeasures against sediment disasters include 1) slope stabilization /Retaining walls and rock-fall prevention to protect settlement areas from slope failures and rock-falling, and 2) restrictions on development activities.

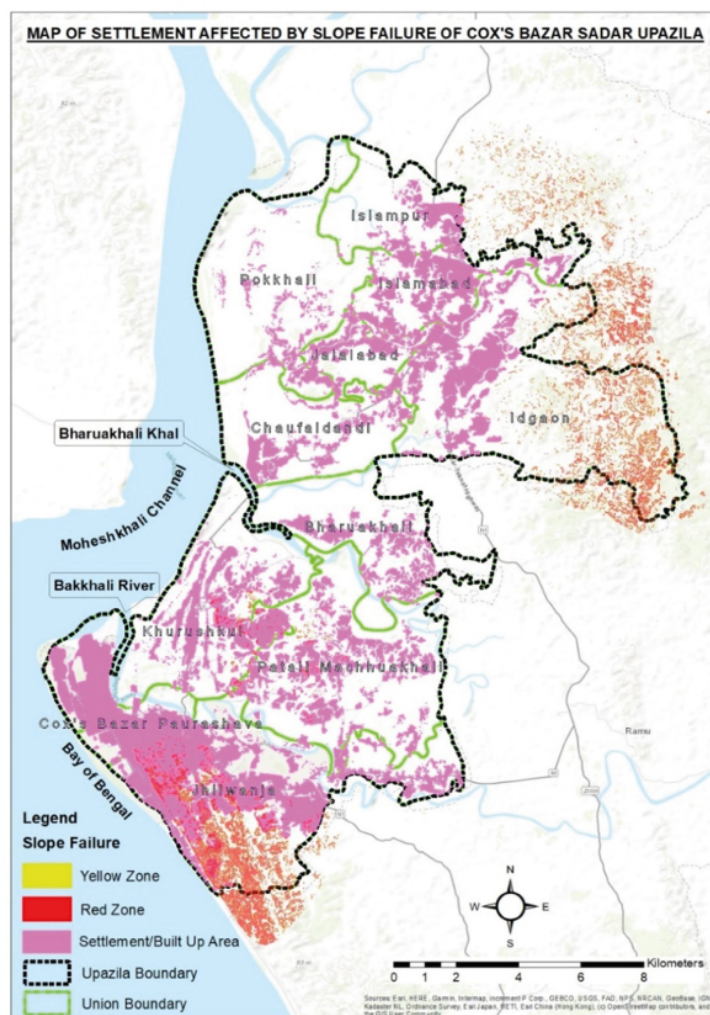


Figure 4-13. Affected Settlement by Slope Failure

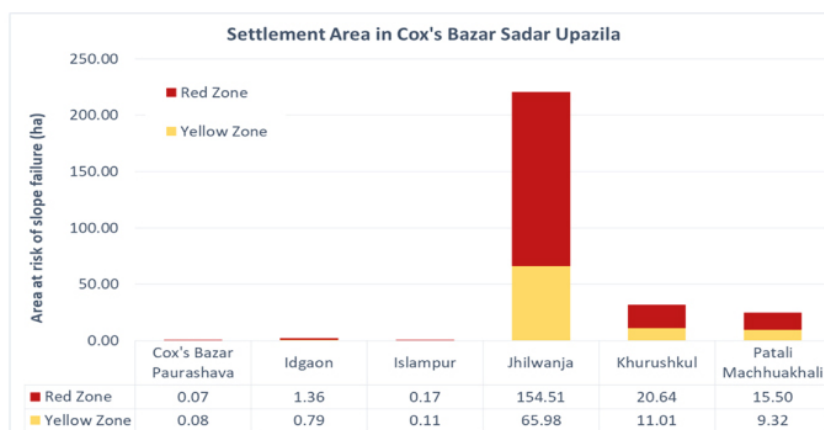


Figure 4-14. Settlement Area Affected by Slope Failure

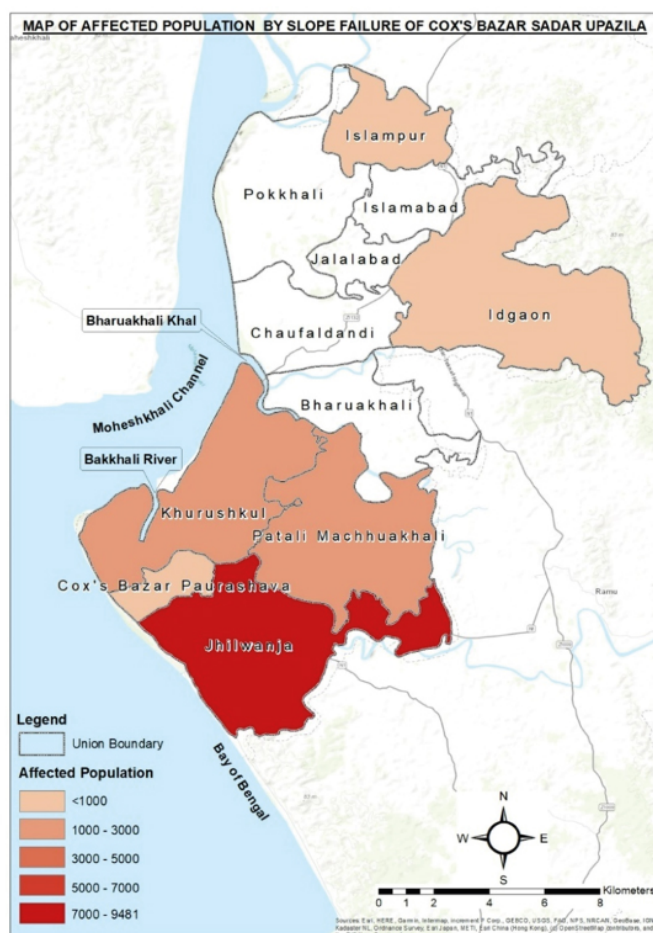


Figure 4-15. Affected Population by Slope Failure

Table 4-7. Damage by Slope Failure

Union	Potential Area (Red+Yellow) [ha]	Ratio (Potential Area / Settlement Area)	Estimated Affected Population
Bharuakhali	0.00	0.0%	0
Chaufaldandi	0.00	0.0%	0
Cox's Bazar Paurashava	0.14	0.1%	109
Idgaon	2.15	0.3%	144
Islamabad	0.00	0.0%	0
Islampur	0.28	0.2%	41
Jalalabad	0.00	0.0%	0
Jhilwanja	220.49	15.9%	9,481
Khurushkul	31.64	3.2%	1,772
Patali Machhuakhali	24.81	3.2%	1,489
Pokkhali	0.00	0.0%	0

4.1.4 Earthquake Shaking

The risk of earthquake shaking is high due to inadequate seismic resistant buildings in Cox's Bazar Sadar. Figure 4-16 and Table 4-9 shows that Cox's Bazar Paurashava having the largest population in Cox's Bazar District, is most affected by the earthquake shaking, followed by Patali Machhuakhali, Khurushkul, and Jhilwanja Unions. The ratio of the affected households is highest in Patali Machhuakhali Union.

In general, the earthquake resistance measure is to strengthen the buildings, which depends on the economic conditions of each government and household.

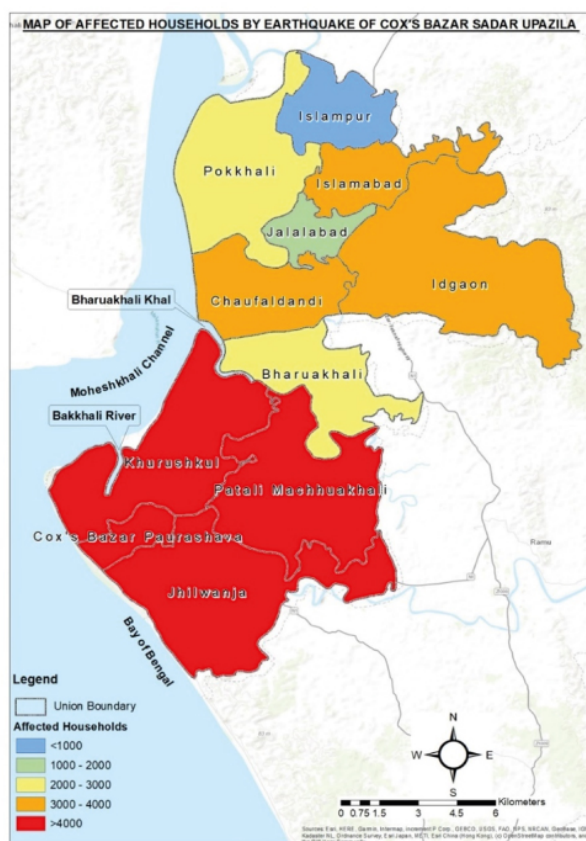


Figure 4-16. Number of Affected Households

Notes: Notes:

1. The concrete values of the average PGA on unions are estimated with variation between 2.84 m/s² and 3.29 m/s².
2. Grade 4 and 5 of the building damage degree in Figure 4-15., was used for estimation of the earthquake risk.
3. The number of affected households was estimated by assuming that one household uses one building based on the number of households and ratio of house types in the Population & Housing Census 2011 below.



Figure 4-17. Building Damage Degree

Table 4-8. Percentage of Type of Structure and Number of Households

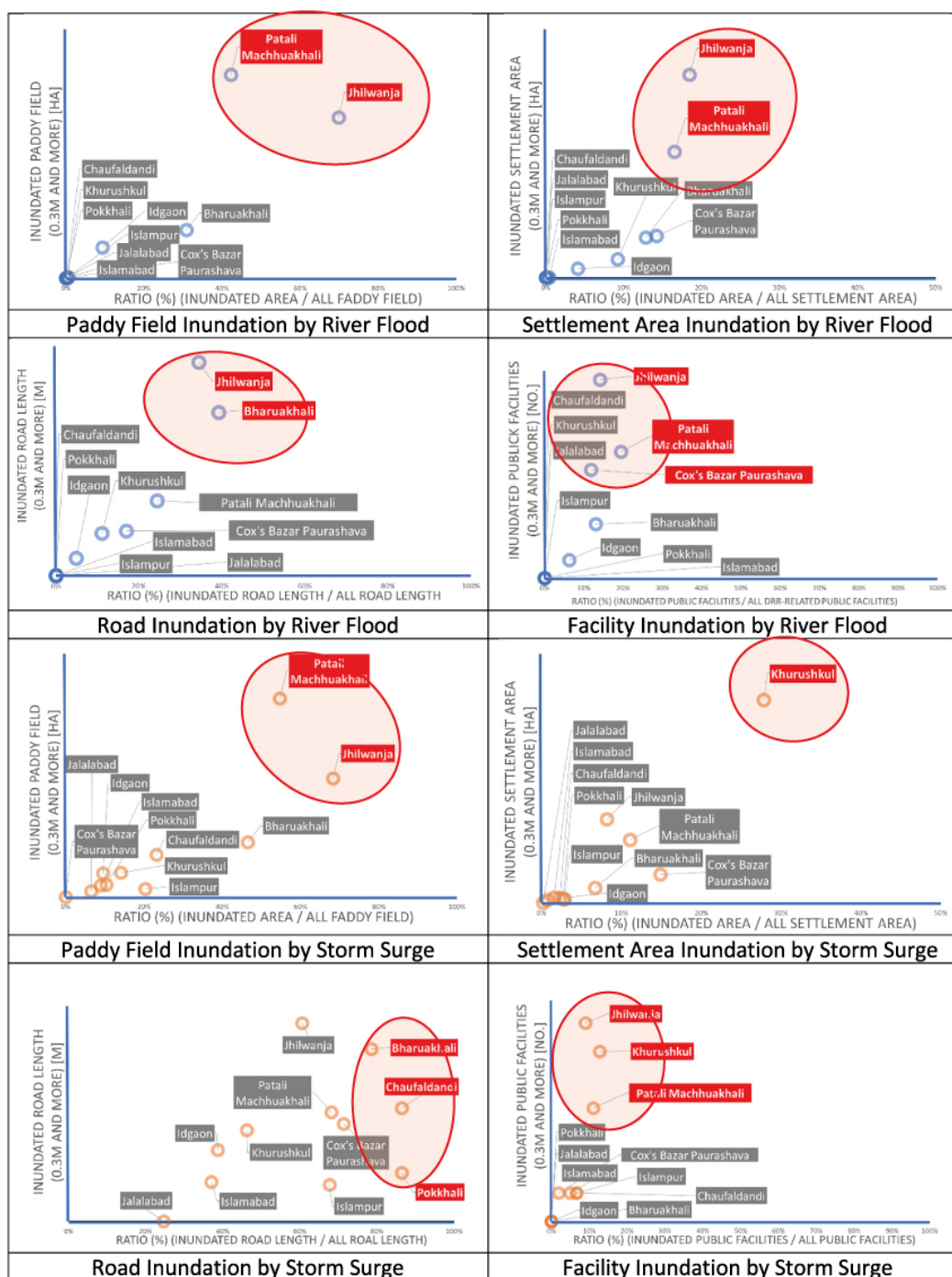
Adminisrtrative Unit Residence Community	Number of Households	Percentage of Type of Structure			
		Pucca	Semi_pucca	Kutcha	Jhupri
Cox's Bazar Sadar Upazila Total	81523	11.8	20.4	98.2	9.6
Cox's Bazar Paurashava	30374	23.8	30.1	34.]	11.3
Bharuakhali Union Total	3939	6.9	10.6	76.2	6.4
Chaufaldandi Union Total	9195	0.2	13.7	18.8	2.3
Idgaon Union Total	9984	8.5	24.6	08.1	8.8
Islampur Union Total	3626	0.3	8.6	73.6	12.5
Islamabad Union Total	92/5	0.8	16.0	76.2	2.0
Jalalabad Union Total	3048	11.4	21.0	60.6	7.0
Jhilwanja Union Total	1352	9.1	20.5	96.3	14.1
Khurushkul Union Total	6807	3.6	10.2	78.3	71.9
Patali Machhuakhali Union Total	6103	0.9	21.9	68.1	4.1
Pokkhali Union Total	3820	7.6	16.0	69.6	6.8

Table 4-9. Affected Household by Earthquake Shaking

Union	Households (Census,2011)	Affected Households	Percentage
Bharuakhali	3,939	2,529	64.2%
Chaufaldandi	5,195	3,348	64.5%
Cox's Bazar Paurashava	30,374	13,119	43.2%
Idgaon	5,984	3,109	52.0%
Islamabad	3,626	2,418	66.7%
Islampur	5,275	3,001	56.9%
Jalalabad	3,048	1,791	58.8%
Jhilwanja	7,352	4,011	54.6 %
Khurushkul	6,807	4,325	63.5%
Patali Machhuakhali	6,103	4,372	71.6%
Pokkhali	3,820	2,437	63.8%

4.2 Priority Unions for Disaster Risk Reduction

Based on Chapter 4.1, this plan identified high disaster risk unions as the priority unions by disaster. According to the relation between the affected area or population and its ratio in Figure 4-18, the identified priority unions by disaster are shown in Table 4-10. Cox's Bazar Paurashava is included in priority unions of flood and storm surge since it has a much larger affected population compared with other Upazilas.



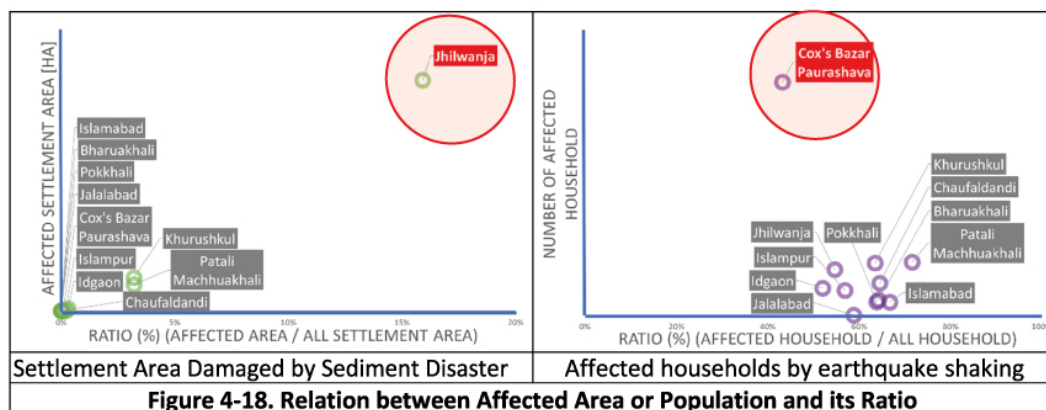


Table 4-10. Priority Unions for Disaster Risk Reduction

Disaster	Priority Union
Flood	Jhilwanja, Patali Machhuakhali, Cox's Bazar Paurashava, Bharuakhali
Storm Surge	Bharuakhali, Cox's Bazar Paurashava, Jhilwanja, Khurushkul, Patali Machhuakhali, Pokhali, Chaufaldandi
Sediment Disaster	Jhilwanja
Earthquake Shaking	Cox's Bazar Paurashava

4.3 Disaster Risk Reduction Target

In the risk analysis in Chapter 4.1, the damages by disaster have been calculated. In consideration of this objective estimated results, the target to reduce damages is set as follows.

[Disaster Risk Reduction Target - Mission]

The estimated human and economic damages by each disaster are reduced by 50% within 10 years (from 2023 to 2033).

In order to accomplish the above mission effectively with the limited budget and human resources, the following concrete countermeasures and areas were identified as prioritized areas, based on the risk assessment result identified in Chapter 4.1 and 4.2, as well as consultation results with the UzSC members.

[Disaster Risk Reduction Target- Concrete measures]

- (1) Intensive implementation of countermeasures against disasters in high-risk areas
 - 1) Promotion of countermeasures to **reduce inundated area by floods**
 - Cox's Bazar Paurashava
 - Jhilwanja
 - Patali Machhuakhali
 - Bharuakhali
 - Pokhali

- 2) Promotion of countermeasures to **reduce inundated area by storm surge**
 - Cox's Bazar Paurashava
 - Bharuakhali
 - Jhilwanja
 - Khurushkul
 - Patali Machhuakhali
 - Pokhali
 - Chaufaldandi
 - 3) Promotion of countermeasures to **reduce affected area by slope failure**
 - Jhilwanja
 - 4) Promotion of countermeasures to **prevent building collapse by earthquake shaking**
 - Cox's Bazar Paurashava
 - 5) Promotion of improvement of the infrastructure **for emergency operation**
 - Cox's Bazar Paurashava
 - Bharuakhali
 - Jhilwanja
 - Khurushkul
 - Patali Machhuakhali
 - Pokhali
 - Chaufaldandi
- (2) Comprehensive improvement of the capacity for disaster risk reduction to respond to residual risks and large-scale disasters
- 1) Review of land use plan and restriction of development activities
 - Cox's Bazar Paurashava
 - Bharuakhali
 - Jhilwanja
 - Khurushkul
 - Patali Machhuakhali
 - Pokhali
 - Chaufaldandi
 - 2) Improvement of early warning information and communication system
 - All unions
 - 3) Implementation of disaster management training and materials
 - All unions
 - 4) Implementation of education and awareness raising for DRR
 - All unions

Chapter-5. Action Plan of DRR Countermeasures

5.1 Current Status and Issues of the Structural and Non-Structural Countermeasures

The implementation status of each type of DRR countermeasures in this Upazila was summarized in the table below. As the table shows, most part of the flood prevention has been addressed by BWDB and LGED while some countermeasures for sediment disaster and earthquake shaking have not been covered enough by governmental agencies. These infrastructure projects for protection and control against floods have contributed to reducing inundation in the long term in this Upazila. Meanwhile, infrastructure projects such as road construction, water supply and sanitation, and shelter have contributed to reducing the secondary effects of flood disaster, helping to enhance the capacity of disaster response. It is further required to accelerate the structural and non-structural countermeasures that have been currently implemented in the Upazila, as well as to initiate promoting the coordination and discussion among related agencies to introduce countermeasures that have not been undertaken or unknown in the Table below.

Table 5-1. Structural Measures Which are Undertaken / not Undertaken

Category	Current status of the countermeasures by type		
Infrastructures for Protection and Control against Flood	As efforts of flood prevention, BWDB is making inspections to identify vulnerable embankments, and has implemented the embankment development plan (66/1, 66/2 and 66/3) in this region. This embankment development process includes sluice gates construction and rehabilitation. Meanwhile, retarding basins and reservoirs are not commonly applied, and there is no reservoir in Cox's Bazar Sadar Upazila. Pumping stations are not installed in Cox's Bazar Sadar Upazila while some are installed along the Reju Khal Canal. It depends on basin-wise strategy by BWDB whether those countermeasures are better applied or not.		
	Type	Undertaken	Agency
	Embankments/Dike	✓	BWDB
	Canal Excavation and other river improvements (Widening and Deepening)	✓	BWDB
	Sluice gates	✓	BWDB
	Retarding Basin/Reservoir	Not undertaken	BWDB
	Drainage Facilities (Pumping Station etc)	Not undertaken	BWDB
	Dam	✓	BWDB/LGED
Infrastructures for Protection and Control against Coastal Disasters	BWDB plays a key role to construct and maintain the polders while guide walls have been constructed by the efforts of LGED, DDM, and Cox's Bazar Paurashava. Some of the coastal forests with pine trees have been developed by the BWDB efforts, however, due to the lack of awareness and poor coordination, those forests are not properly maintained, and some are deforested.		
	Type	Undertaken	Agency
	Dike (Polder)/Coastal Revetment	✓	BWDB
	Seawall/Guide walls	✓	BWDB

Category	Current status of the countermeasures by type		
Infrastructures for Protection and Control against Sediment Disasters	LGED and Cox's Bazar Paurashava are the responsible agencies to cope with sediment disasters such as rock failure. At this moment, LGED/DDM implemented some retaining wall construction along the beachside area to protect road infrastructure from rock falls. However, most of the rest of the area is left to be undertaken.		
	Type	Undertaken	Agency
	Slope stabilization/Retaining walls	✓	LGED/DDM
	Rock-Fall Prevention	Not undertaken	LGED/DDM/Cox's Bazar Paurashava
Structural Measures against Earthquake Shaking	Retrofitting to cope with earthquake shaking is the process of modifying existing structures to make them more resistant to seismic activity, ground motion, or soil failure due to earthquakes.		
	Type	Undertaken	agency
	Compliance with the building code (BNBC-2020)	✓	Cox's Bazar Development Authority/BCC/UzCC/Cox's Bazar Paurashava
	Building Assessment (Seismic Diagnosis)	Unknown	PWD
Infrastructure for Emergency Operation	Retrofitting of important facilities and Infrastructures	Partly by International Donor	LGED/PWD/Cox's Bazar Paurashava/DDM
	Shelter: 90 shelters are listed for cyclones and flood response in Cox's Bazar Sadar Upazila by UzDMC. 21 of the total shelter was constructed by the governmental authorities, while the rest of the facilities were constructed by various domestic and international foundations including government auxiliary, NGOs, and donors such as BDRCS, CARITAS, EU, World Vision, Red Crescent, World Bank, and Islamic Development Bank. Transportation: LGED is the main responsible agency to develop and maintain the road and transportation infrastructure. Drainage system: Improvement of drainage system is important to prevent prolonged inland flooding. Cox's Bazar Paurashava and Cox Bazar Development Authority cope with the challenges of installing and rehabilitating drainage systems in urban areas. For rural areas, LGED is responsible for the development of the required drainage systems. Water and sanitation: Water and sanitation infrastructures are critical to provide safe water and keep the living environment hygiene. DPHE is the main agency to cope with water-related issues to prevent the secondary effects of the disaster.		
	Type	Undertaken	Agency
	Shelters/Mujib Killah	✓	DDM/LGED/ Cox's Bazar Paurashava
	Roads	✓	LGED/DDM/Cox's Bazar Paurashava
	Bridges	✓	
	Culverts	✓	
	Drains	✓	Cox's Bazar Paurashava

Category	Current status of the countermeasures by type		
	Facilities for Water [Tube well, Pipeline, and sanitation (Latrine)]	✓	DPHE/NGOs
Infrastructures for Prevention of Other Disasters (Lightning, etc)	There have been some cases of lightning disasters. However, no measures are taken in most of the area.		
	Type	Undertaken	Agency
	Lightning arrester	Unknown	DDM /Cox's Bazar Paurashava

Table 5-2. Non-Structural Measures Which are Undertaken / not Undertaken

Table 3-2: Non-Structural Measures Which are Undertaken / not Undertaken			
Category	Current status of countermeasures by type		
Land Use Planning	Promoting land use planning in local administrations in Bangladesh is now under process by the effort of the central ministry (UDD) and Cox's Bazar Development Authority. However, at this moment, no Upazila Governments in Bangladesh have specific regulations or tools for DRR purposes. Land use strategy such as resettlement of inhabitants and industries around vulnerable areas is an important tool to mitigate the socio-economic impact. To apply this, more vertical coordination and connection between governmental policy, District plan and strategy, and stakeholders in Union Parishads and Upazila administration is needed. Therefore, it must be a consideration in the long term though it is worth discussing in the UzSC continuously.		
	Type	Undertaken	Agency
	Urbanization Control	Unknown	Cox's Bazar Development Authority/ UDD
	Resettlement	Unknown	
	Designating Special Warning Area	Unknown	
Early Warning Information and Communication	Early warning system in coastal areas in Bangladesh has been developed with CPP and other NGOs coordination since 1990's.		
	Type	Undertaken	Agency
	Installation of Monitoring System of Rainfall &Water Level	✓	BWDB/ BMD/BIWTA
	Flood Forecasting and Warning System, including community radio	✓	FFWC/BWDB/
	Cyclone Warning System	✓	SWC-MBD
	Strategy making and basic study for cropping, harvesting and choice of the variety adopted to global warning	✓	DAE
	Telecommunication system for search and rescue	✓	BTRC/DDM
Disaster Management Training and Materials	Emergency Operations SOPs are in place for disasters at the district level. Disaster preparedness and response drills are conducted prior to the flood season. Regional evacuation drills are conducted once a year at the Union level. Disaster management training for members of DMC is conducted once at least a year.		
	Type	Undertaken	Agency
	Preparation of SOP for emergency operation	✓	DDM/FSCD
	Simulation and Exercise	✓	DDM/FSCD
	Evacuation drill / Shelter and evacuation route	✓	DDM/INGOs/NGOs
	Training on DRR	✓	DDM

Category	Current status of countermeasures by type		
			Field Level: UDMC/UzDMC/ DDMC
	Preparation for emergency operation	✓	DDM/FSCD/ DGHS
Raising Public Awareness & Disaster Education	Disaster education is provided irregularly in both primary and secondary school classes. Awareness raising for disaster risk reduction is mainly conducted through TV and RADIO, however, in some areas NGOs conduct courtyard meetings, simulations, drills etc. when support by donors is available. The first Hazard Map was prepared in 1998 to identify disaster risk at upazila level. Several unions have emergency disaster preparedness equipment and emergency warehouses for stockpiled materials in the event of a disaster, and they are not functioning well due to a lack of coordination. Critical infrastructure facilities in the district are listed. Few classifications of hazards and priorities by disaster type has been made.		
	Type	Undertaken	Agency
	Publication of DRR Maps	Unknown	DDM
	Material and emergency goods in the Warehouse	✓	DDM
	Inventory preparation on vulnerable infrastructure such as hospitals, water wells, and schools based on the risk map	Unknown	UDD/PWD/FSCD/ DMC
	Disaster preparedness education in school	Unknown	DoPE/DoEE
	DRR Awareness Related Billboard	Unknown	DDM/BDRCS

5.2 Prioritized projects for DRR Target

In consideration of the hazard and risk assessment results in Chapter 3 and 4 as well as the current status and issues of the DRR countermeasures in Chapter 5.1, this Chapter describes the policies of DRR countermeasures by category. Furthermore, along with the strategy, concrete proposals of the DRR countermeasures are collected from the communities and implementing agencies, analyzed and prioritized by category, which are shown in the Attachment 1 including the prioritization (priority unions) with red highlights. The processes to propose these projects were as follows.

- The needs of Union Parishad were organized at the LDRRP development workshop held from June to October 2022.
- Existing projects, pipeline projects, and new projects of the implementing agencies were identified at the workshop and by collecting information from the implementing agencies.
- Information on Union Parishad's needs from the line ministries was reviewed and the correspondence between their projects and Union Parishad's needs was validated.

With the aim to achieve the DRR target (Mission), the UzSC will encourage the project implementing agencies to include the proposed projects in their own plans and to implement them.

The legend of the proposed project list (See Attachment 1) is shown below.

Table 5-3. Legend of the proposed project list

	Description																									
Plan Status	Status of the Project																									
	<table><tr><th>Status</th><th>F/S</th><th>DPP approved</th><th>ADP</th><th>Annual Budget</th></tr><tr><td><Continuing> Project</td><td>+</td><td>+</td><td>+</td><td>+/-</td></tr><tr><td><Pipeline>Project</td><td>+/-</td><td>-</td><td>-</td><td>-</td></tr><tr><td><New> Project</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Unknown</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>	Status	F/S	DPP approved	ADP	Annual Budget	<Continuing> Project	+	+	+	+/-	<Pipeline>Project	+/-	-	-	-	<New> Project	-	-	-	-	Unknown	-	-	-	-
	Status	F/S	DPP approved	ADP	Annual Budget																					
	<Continuing> Project	+	+	+	+/-																					
	<Pipeline>Project	+/-	-	-	-																					
	<New> Project	-	-	-	-																					
	Unknown	-	-	-	-																					
"Unknown" indicates "Union's needs" which has not yet been identified by line ministries																										
ID	Identification number in this Plan																									
Type of Need	Required work such as repair, rehabilitation or new construction proposed																									
Length	The length of the individual infrastructures such as embankments and roads in case that the scale of the infrastructure is important information.																									
Official ID Number	ID by line agency in case of projects that are already identified by line agency																									
Official Name of Countermeasures	Official project name used by the implementing agency, such as DDM,BWDB or LGED																									
Proponents	The length of the countermeasure that was proposed by local people, line ministries or other stakeholders etc.,																									
Direct Beneficiaries/ Interests to be protected	The beneficiary Union Parishads and wards along the installed countermeasures.																									
Estimated cost for Countermeasures	The rate and unit price provided by every line department such as LGD,DDMBWDB. It is shown in Lakh Tk.																									
Implementation Time Frame	Short-Term Project; Mid-Term Project; or Long-Term Project Those categories are based on the information by line agencies.																									
Vulnerability level	High Priority: Project in <u>highly vulnerable</u> Union Parishads. Medium Priority: Project in <u>vulnerable</u> Union Parishads. Low Priority: Project in <u>less vulnerable</u> Union Parishads.																									
Remarks	"What to do or what has been done" such as DPP approval or next step of this proposal such as feasibility study																									

5.2.1 Prioritized Structural Countermeasures

(1) Infrastructures for Protection and Control against floods

As shown in the flood hazard map in Chapter 3.1.1. and the flood risk assessment results in Chapter 4.1.1, the areas along the Bakkhali River are most flood prone, especially Patali Machhuakhali Union due to its location and low-lying condition. In order to reduce flood disaster risk in this Upazila, strengthening the flow carrying capacity of Bakkhali River with embankment and other improvement works should be prioritized. Apart from them, drainage management works including sluice gate and canal excavation in flood prone areas such as Patali Machhuakhali, Cox's Bazar Paurashava and Jhilwanja are also highly required. The category of the project for flood prevention and mitigation are shown below. Although there are some types of countermeasures that have not been proposed by communities and line agencies currently, it is necessary to clarify the responsible agencies and implementing policies and to subsequently take actions to implement them.

- Embankment/dyke
- Other river improvement (e.g., Widening and Deepening)
- Sluice gate
- Retarding basin/reservoir
- Drainage Facilities (e.g., Pumping Station)

The map below shows infrastructures for flood prevention and mitigation, where the higher priority are put as DRR targets in the plan are the high-risk area highlighted in red (shown in Chapter 4). The proposed project list of each countermeasure by category are shown in Attachment 1.

In addition, as shown in the hazard maps for the 50-year and 100-year probability floods in 3.1.1, there is a possibility that there will be a flood of a magnitude greater than the target level in this plan. In such an event, it will be important to protect human life by expanding non-structural measures (see Chapter 5.2.2 for more detail).

Also, in the future, flood management infrastructure projects should be developed at a higher safety level than that is adopted in the Plan from a long-term perspective. It might be necessary to establish a safety level such as a 50-year or 100-year probability flood scale, which should be determined according to the development status of the region. Possible measures to achieve such a higher safety level include further widening of main channels, diversion of flood waters through construction of diversion channel and reduction of flood flows through construction of retarding basin in the upper reaches of the river, in addition to the development of said non-structural measures. The possibility of these measures should be examined taking into account the hydrological, topographic and geological characteristics of target areas as well as social and environmental conditions.

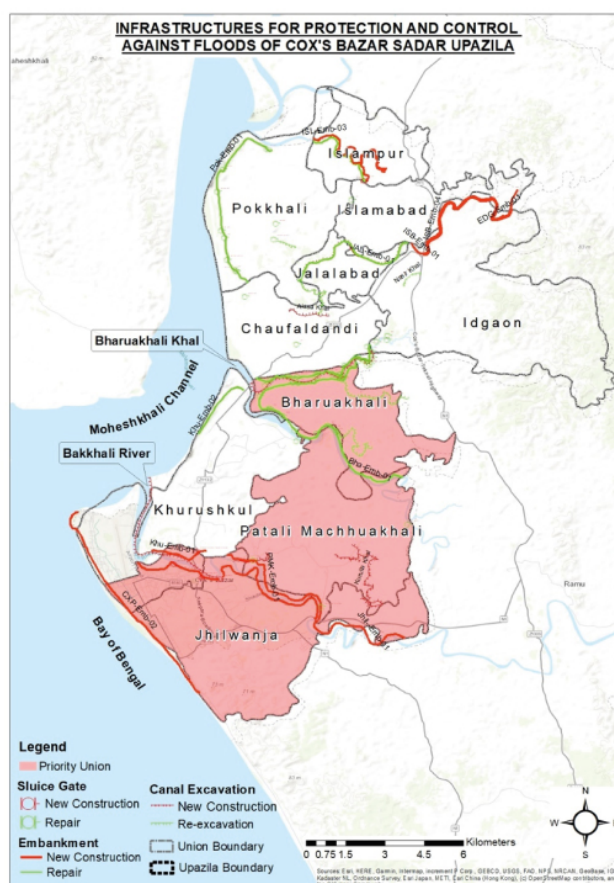


Figure 5-1. Priority Union for Countermeasure to Reduce Risk by Flood

(2) Infrastructures for Protection and Control against Coastal Disasters

The vulnerable areas to inundation by the storm surge are along the Bakkali River, Bharuakhali Khal, Moheshkhali Channel, and the area surrounding the airport due to its low-lying characteristic and the location near the river mouth of the Bakkhali River. To reduce the disaster risks in this Upazila, the mitigation of inundation in these areas should be prioritized, through the construction of seawalls/guide walls near the river mouth of the Bakkhali River, and the construction of river embankments along the Bakkhali River and Bharuakhali Khal to prevent river from overtopping when seawater runs up through the rivers. Storm surge countermeasure in low-lying area needs to ensure enough elevation of coastal structure such as dyke, revetment, and seawall. At the moment, 20-year probability storm surge level should be applied for development of coastal structure in Bangladesh. The category of the project for protection and control against coastal disasters are shown below.

- a) Dyke(polder)/coastal revetment
- b) Seawall/guide wall

The map below shows infrastructures for protection and control against coastal disaster. Highlighted in red are the high-risk areas where this plan puts priority as DRR targets (shown in Chapter 4). The proposed project list of each countermeasure by category are shown in Attachment 1.

In addition to this, as shown in the hazard maps for the 50-year and 100-year probability storm surge (see Chapter 3.3.2.), a storm surge greater than the target level in the plan can be considered for the future. In such an event, both structural and non-structural measures should be examined. If structural measures are considered, the elevation of coastal revetments should be heightened and their lengths should be extended, compared with that of the 20-year probability level. It is also important to protect human life by expanding non-structural measures introduced in Chapter 5.2.2.

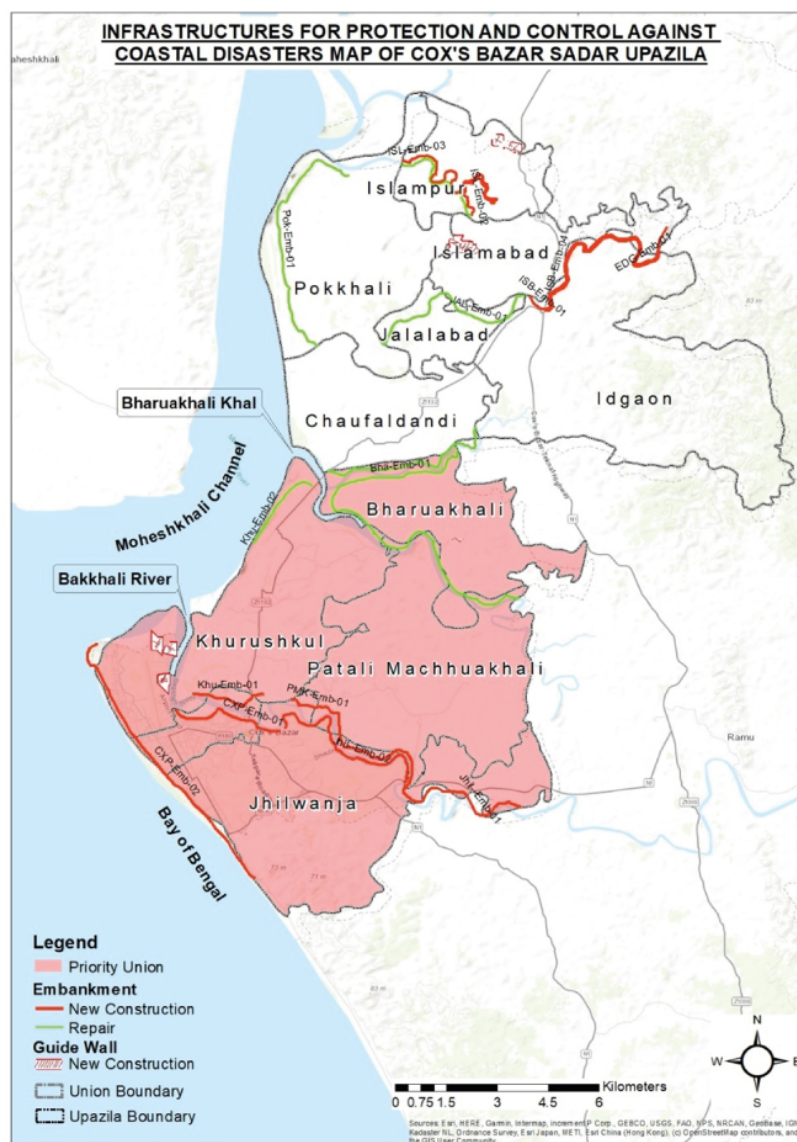


Figure 5-2. Priority Union for Countermeasure to Reduce Risk by Storm Surge

(3) Infrastructures for Protection and Control against Sediment Disasters

The result of risk assessment shows that sediment disaster risk (slope failure) is mainly concentrated around Jhilwanja Union, especially Jhilwanja Union Parishads. The main reason causing the risk are the steep slopes left unprotected due to construction of roads and houses and buildings. The plan, therefore, proposes the new construction of retaining walls along vital roads of the area to ensure the safety of Union people passing through these roads. A retaining wall is a relatively rigid wall that retains (holds back) any material (usually earth) and prevents it from sliding or eroding away. It is designed so that to resist the lateral pressure of the material that is holding back. The category of the project for protection and control against sediment disasters are shown below.

- a) Slope stabilization/Retaining walls
- b) Rock-fall prevention

The map below shows infrastructures for protection and control against sediment disaster, highlighted by red color the high-risk area where this plan put priority as DRR target (shown in Chapter 4). The proposed project list of each countermeasure by category are shown in Attachment 1.



Figure 5-3. Priority Union for Countermeasure to Reduce Risk by Sediment Disaster

(4) Structural Measures against Earthquake Shaking

- a) Compliance with the building code (BNBC-2020)
- b) Building Assessment (Seismic Diagnosis)
- c) Retrofitting of important facilities and infrastructure

There is currently no proposed project for structural measures against earthquake shaking by line ministries and communities so far. However, seismic diagnosis as well as retrofitting of existing important facilities (e.g., schools, hospitals, shelters) and infrastructure (e.g., bridges, roads, embankments/dykes) are required in advance, for saving lives and evacuation during and after the earthquakes. At the same time, it is significant to promote complying with BNBC2020 with official instructions and monitoring when constructing new buildings.

(5) Infrastructures for Emergency Operations

According to the risk assessment results, Cox's Bazar Paurashava, Jhilwanja, Patali Machhuakhali, Pokhali, Chaufaldandi, Bharuakhali, and Khurushkul Unions are relatively high-disaster-prone areas in this Upazila. Although emergency operations are significant in all Upazilas and should be functional in the whole of the administrative area, this plan prioritizes to propose the improvement of the infrastructures for emergency operations in such highly disaster-prone areas first. Specifically, shelters need to be sited in safer sites and have the capacities of all expected evacuees in each above union. It is also significant to consider introducing multi-purpose shelters that can be utilized as schools and community centers in normal times, when newly constructing or maintaining shelters. Regarding public infrastructures, main roads and bridges connecting important facilities between unions, such as Khurushkul UP office Khurushkul GC road (Khurushkul DC Road) (LGED ID-422243014), and the bridge of Eid Goan G.C at MaijPara-PokKhali (Faraze Para Road) (LGED ID-422243002), should be constructed or appropriately maintained with the sufficient widths for emergency operation during the disasters. The improvement of culverts, drains, and other facilities for water is also necessary in inundation-prone-areas to drain the water to mitigate the stagnant water, which lead to smooth recovery and consequently mitigate infectious diseases.

The category of the project for infrastructures for emergency operations are shown below;

- a) Shelters
- b) Roads
- c) Bridges
- d) Culverts
- e) Drains
- f) Facilities for water [e.g., Tube well, Pipeline and sanitation (Latrine)]
- g) Other infrastructures and facilities for emergency operations

The map below shows Infrastructures for emergency operation, highlighted in red are the high-risk areas where this plan puts priority as DRR targets (shown in Chapter 4). The proposed project list of each countermeasure by category are shown in Attachment 1.

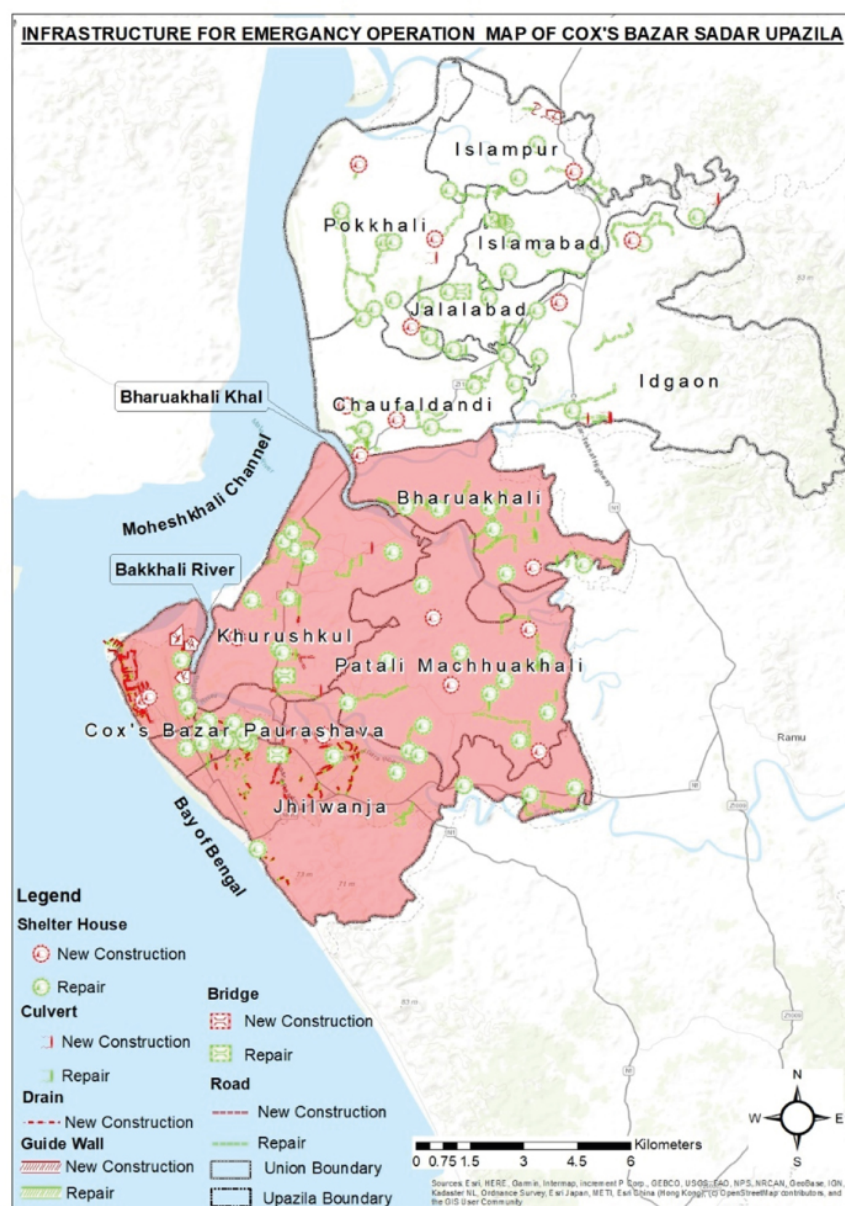


Figure 5-4. Location of Infrastructures for emergency operation

(6) Infrastructures for Prevention of Other disasters

a) Lightning Conductor

Currently, there is no projects for installing lightning conductors that have been planned or were proposed by line ministries and local communities. it is necessary to also consider introducing the countermeasure, clarify the responsible agencies of the countermeasures, and to subsequently take actions to execute them.

5.2.2 Needed Non-Structural Countermeasures

Non-structural countermeasures have been relatively promoted in the Upazila, specifically early warning information and communication, disaster management training and materials, and raising public awareness and disaster education as shown in the Chapter 5.1. However, in consideration of the possibility of large-scale disasters such as 50-year or 100-year return period floods and storm surge (see Chapter 3.1) as well as the residual (remaining) risks of proposed structural countermeasures, it is required to promote improving non-structural countermeasures, specifically evacuation plans (e.g., consideration of the location of the shelter and its capacity, evacuation roads) and early warning systems, at the same time with structural countermeasures. In addition, although land use regulations and controls have not been often seen in this Upazila, such drastic approach should be considered especially in severe high-disaster risk areas. The category of needed non-structural countermeasures are shown below, followed by the proposed project list of each countermeasure by category in Attachment 1.

(1) Land use planning (Cox's Bazar Development Authority/UDD)

- a) Urbanization Control
- b) Resettlement
- c) Designating Special Warning Areas

(2) Early Warning Information and Communication

- a) Installation of Monitoring System of Rainfall and Water level (Upazila/BWDB/BMD/BIWTA)
- b) Flood Forecasting and Warning System, including community radio (BWDB/FFWC/DDM/NGOs)
- c) Cyclone Warning System (CPP / NGOs)
- d) Strategy making and basic study for cropping, harvesting and choice of the variety adopted to global warming (DAE/DDM)
- e) Telecommunication system for search and rescue (BTRC/DDM)

(3) Disaster Management Training and materials

- a) Preparation of SOP for emergency operations (DDM)
- b) Simulation and exercise (DDM)
- c) Evacuation drill/shelter and evacuation route (DDM)
- d) Training on DRR (DDM/BDRC)
- e) Preparation for the emergency operation (DDM/FSCD/DGHS/MOHFW/Donors)

(4) Raising Public Awareness and Disaster Education

- a) Publication of DRR Maps (DDM)
- b) Materials and emergency goods in the warehouses (DDM/DPHE)
- c) Inventory preparation on vulnerable infrastructures (DMC)
- d) Disaster preparedness education in schools
- e) DRR awareness related billboards (DDM)

(5) Other non-structural countermeasures

There are few projects related to the above countermeasures that were proposed by line ministries and local communities, which are shown in Attachment 1. In order to further promote disaster risk reduction in the collaboration of structural and non-structural countermeasures, it is necessary to clarify the responsible agencies and implementing policies of the non-structural measures that had not been implemented or even proposed, and to subsequently take actions to execute them.

5.3 Monitoring and Updating of the Plan

For the appropriate implementation of the projects by project implementing agencies, this plan is to be monitored and updated by UzSC supported by TSC in the following steps.

Step 1: The UzSC in coordination with TSC will check the status (rate of progress) of the prioritized projects annually, one year and two or three years after their development.

Table 5-4. Project Status

Status	F/S	DPP approved	ADP	Annual Budget
Continuing Project	+	+	+/-	+/-
Pipeline Project	+/-	-	-	-
New Project	-	-	-	-
Unknown	-	-	-	-

Step 2: The TSC will confirm the effectiveness of existing projects and the need for new proposed projects including the proposal mentioned in 5.2.

Step 3: For those areas where the need for feasibility studies has been identified, the implementing agencies will hold preparatory discussions for the preparation of a DPP, including obtaining the budget for feasibility studies, and report back to the TSC.

Step 4: Based on the findings after the TSC meeting, the UzSC will re-examine the need for new proposals once a year.

Step 5: If any changes are identified, the UzSC will update the plan.

The conceptual model of the monitoring and updating the plan is proposed as shown below.

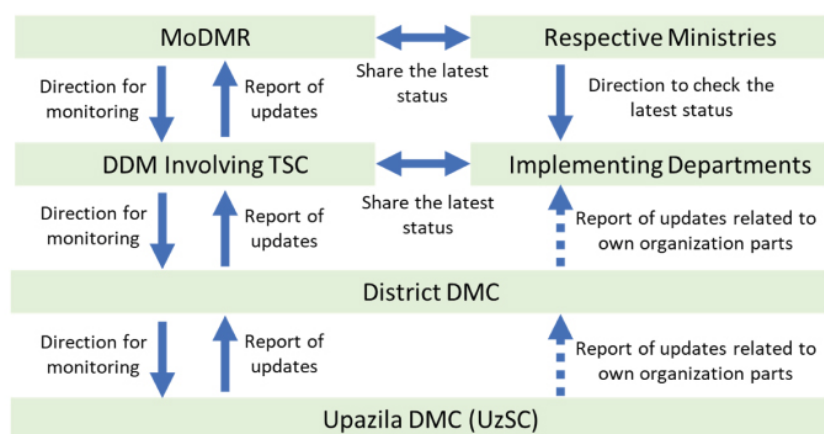


Figure 5-5. Conceptual diagram for monitoring and updating the plan

Attachment 1: Proposed countermeasure list

Attachment 2: Member lists of UzDMC and UzSC

Attachment 3: Activity photos

Attachment 1: Proposed Countermeasures List {Priority Unions (identified in Chapter 4.3) are highlighted in red color}

(1) Infrastructures for Protection and Control against flood

a) Embankment/dyke

Projects by BWDB

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g., new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Khu-Emb-01	New Construction	Khurushkul	2210	-	Ashrayan Dyke extension embankment (4.77 km + 6.765km)	Completed	2.210 km Embankment Reconstruction (Proposed from Local People)	Khurushkul Union	299	Short Term	High	BWDB verified and validated that the embankment Work almost completed
ISL-Emb-01	Repair & Renovation	Islampur	3485	-	Polder 66/3 (Khanghona)	Continuing	3.485 km Embankment Repair & Renovation (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	216	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (18.80 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
ISB-Emb-01	Repair	Islamabad	631	-	Polder 66/3 (Khanghona)	Continuing	0.631 km Repair (Proposed from Local People)	Islamabad Union	39	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (18.80 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
Pok-Emb-01	Repair & New Construction	Pokkhali	7425	-	Polder 66/3 (Gomatoli)	Continuing	7.425 km Embankment Repair or New Construction (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	460	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (34.57 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
JAL-Emb-01	Repair	Jalalabad	5644	-	Polder 66/3 (Gomatoli)	Continuing	5.644 km Embankment Repair (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	350	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (34.57 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
CHO-Emb-1	Repair	Chawfaldandi	5367	-	Polder 66/3 (Gomatoli)	Continuing	5.367 km Embankment Repair (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	333	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (34.57 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
Bha-Emb-01	Repair	Bharuakhali	11870	-	Polder 66/2	New	11.87 km Embankment Repair (Proposed from Local People & BWDB)	Bharuakhali Union	736	Short Term	High	BWDB verified and validated that the polder 66/2 needs to be repaired at full length (19.4 Km). Need to take initiative from the Technical Committee.
Khu-Emb-02	New Construction	Khurushkul	2575	-	66/1 Sea Dyke	New	2.575 km Embankment Reconstruction (Proposed from Local People & BWDB)	Khurushkul, Patali Machhuakhali Union.	160	Short Term	High	BWDB verified and validated that the polder 66/1 needs to be repaired at full length (5.045 km). Need to take initiative from the Technical Committee.
Jhil-Emb-02	Repair	Jhilwanja	5942	-	L/B 16.5 KM	New	5.942 km Embankment New construction (Proposed from Local People & BWDB)	Jhilwanja Union	3,565	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (16.5 km) with protection work. Need to take initiative from the Technical Committee.
CXP-Emb-01	Repair	CB Paurashava	3402	-	L/B 16.5 KM	New	3.402 km Embankment New construction (Proposed from Local People & BWDB)	Cox's Bazar Paurashava	2,041	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (16.5 km) with protection work. Need to take initiative from the Technical Committee.
Jhil-Emb-01	Repair	Jhilwanja	4473	-	R/B 14.3 KM	New	4.473 km Embankment New construction (Proposed from Local People & BWDB)	Jhilwanja Union	2,684	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (14.3 km) with protection work. Need to take initiative from the Technical Committee.

Attachment 1-1

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
PMK-Emb-01	Repair	Patali Machhuakhali	5468	-	R/B 14.3 KM	New	5.468 km Embankment New construction (Proposed from Local People & BWDB)	Patali Machhuakhali Union.	3,281	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (14.3 km) with protection work. Need to take initiative from the Technical Committee.
ISB-Emb-04	Repair	Islamabad	6874	-	End of the Polder 66/3 To Forazi Para (Bashghata Canal Adjacent Embankment)	Unknown	6.874 km New Embankment Proposal (Proposed from Local People)	Islamabad Union	4,124	Mid Term	Low	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
ISL-Emb-03	Repair & Renovation	Islampur	5639	-	From Islampur Public Model School to Kailashghona Embankment [Polder 66/3 (Extension)]	Unknown	5.639 km New Embankment Proposal (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	3,383	Mid Term	Low	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
EDG-Emb-01	Repair	Idgaon	6185	-	Eidgaon Station Bridge to Vomoriya Ghona Range Office [Polder 66/3 (Extension) (Gomatoli)]	Unknown	6.185 km New Embankment Proposal (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	3,711	Mid Term	Low	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
ISL-Emb-02	Repair & Renovation	Islampur	3071	-	From Islampur Public Model School to Islampur Factory Tetul Tola Embankment [Polder 66/3 (Extension)]	Unknown	3.071 km New Embankment Proposal (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	1,843	Mid Term	Low	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.

b) Other river improvement (e.g., Widening and Deepening)

Projects by BWDB

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Canal Excavation	PMK-Can-1	Proposed	Patali Machhuakhali	1696	-	Canal Excavation 01, Para Khal	New	1.696 km Canal Re-Excavation (Proposed from Local People)	Ward-01 of Patali Machhuakhali Union.	51	Mid Term	High	BWDB verified and validated that Proposal need to take initiative from the Technical Committee.
Canal Excavation	PMK-Can-3	Proposed	Patali Machhuakhali	4762	-	Canal Excavation 03, From Dik Para to Kurulia Khal	New	4.762 km Canal Re-Excavation (Proposed from Local People)	Ward-06 of Patali Machhuakhali Union.	952	Mid Term	High	BWDB verified and validated that Proposal need to take initiative from the Technical Committee.
Canal Excavation	Khu-Exca-01	New Construction	Khurushkul	5626	-	Canal Excavation 01, Bakkhali River, Khurushkul Govt. Shelter Project to Patali Machhuakhali Union Administrative Boundary Canal Excavation	New	5.626 km Canal Re-Excavation (Proposed from Local People)	Ward-9 & 5 of Khurushkul union	1,125	Mid Term	High	BWDB verified and validated that Proposal need to take initiative from the Technical Committee.

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Canal Excavation	JAL-CE-01	Proposed	Jalalabad	5606	-	Canal Excavation 01, Baharchora Forazi Para to Bashghata Bridge	Unknown	5.606 km Canal Re-Excavation (Proposed from Local People)	Ward 1, 2, 3, 4, 5 of Jalalabad union	144	Mid Term	Midum	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
Canal Excavation	CHO-Can-1	Proposed	Chaufaldandi	6279	-	Canal Excavation 01, Kalirchotra River, From Kalirchota to Chowfaldandi Bridge	Continuing	8.00 km Canal Re-Excavation (Proposed from Local People)	Ward 1, 2, 7, 8 and 9 of Chawfaldandi union	144	Mid Term	Midum	BWDB verified and validated that the excavation Work is ongoing
Canal Excavation	PMK-Can-2	Proposed	Patali Machhuakhali	1974	-	Canal Excavation 02, Patoli Khal	New	1.974 km Canal Re-Excavation (Proposed from Local People)	Ward-06,07 of Patali Machhuakhali Union.	161	Mid Term	Midum	BWDB verified and validated that Proposal need to take initiative from the Technical Committee.
Canal Excavation	CXP-CE-01	Proposed	CB Paurashava	6248	-	Canal Excavation, Bakkhali Mohona to SM Para Canal Excavation	New	6.248 km Canal Re-Excavation (Proposed from Paurashava Engineering Department)	Ward-2,3,4,5,6 of CB Paurashava	1,250	Mid Term	Midum	BWDB verified and validated that Proposal need to take initiative from the Technical Committee.

Projects by LGED

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Canal Excavation	EDG-CE-01	Repair	Idgaon	835	-	Canal Excavation 01, Nasir Khal	New	0.835 km Canal Re-excavation or Repair (Proposed from Local People)	Ward-02 of Eidgaon union	25	Mid Term	Midum	Detailed Design Required
Canal Excavation	Pok-CE-01	Repair	Pokkhali	798	-	Canal Excavation Lajjar Para Khal	New	0.798 km Canal Re-excavation or Repair (Proposed from Upazila Office)	Pokkhali Union	200	Mid Term	High	Detailed Design Required
Canal Excavation	Pok-CE-02	Repair	Pokkhali	2436	-	Canal Excavation Nakkaindia Nutun Godar Khal	New	2.436 km Canal Re-excavation or Repair (Proposed from Upazila Office)	Pokkhali Union	500	Mid Term	High	Detailed Design Required
Canal Excavation	Bha-CE-01	Repair	Bharuakhali	3363	-	Canal Excavation Kadirchara Khal	New	3.363 km Canal Re-excavation or Repair (Proposed from Upazila Office)	Bharuakhali Union	550	Mid Term	Midum	Detailed Design Required
Canal Excavation	Bha-CE-02	Repair	Bharuakhali	3224	-	Canal Excavation Bharuakhali Koichar Khal	New	3.224 km Canal Re-excavation or Repair (Proposed from Upazila Office)	Bharuakhali Union	500	Mid Term	Midum	Detailed Design Required
Canal Excavation	CHO-Can-2	Proposed	Chaufaldandi	1613	-	Canal Excavation, Aissa Khal	New	1.613 km Canal New Construction (Proposed from Paurashava Engineering Department)	Ward 1- 9 of Chawfaldandi Union	375	Mid Term	High	Detailed Design Required

c) Sluice gates

Projects by BWDB

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Pok-Slu-04	Repair	Pokkhali	2621006	EIP-S-1 (1-V) (14.650KM)	Continuing	Rehabilitation (Proposed from Local People)	Ward-06 of Pokkhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Pok-Slu-09	Repair	Pokkhali	2621006	S-5 (2-V) (11.423km)	Continuing	Rehabilitation (Proposed from Local People)	Ward-09 of Pokkhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
CHO-Slui-5	Repair	Chaufaldandi	2621006	Inlet-3 (4.930km)	Continuing	Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
CHO-Slui-11	Repair	Chaufaldandi	2621006	WCS (km 1.680)	Continuing	Rehabilitation (Proposed from Local People)	Ward-09 of Chawfaldandi Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
CHO-Slui-14	Repair	Chaufaldandi	2621005	Package-10 (2-V) (10.337km)	Continuing	Rehabilitation (Proposed from Local People)	Ward-04 of Chawfaldandi Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-01	Repair	Bharuakhali	2621005	S20B	New	Rehabilitation (Proposed from Local People)	Ward-1 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-04	Repair	Bharuakhali	2621005	S20	New	Rehabilitation (Proposed from Local People)	Ward-6 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-11	Repair	Bharuakhali	2621005	S23A	New	Rehabilitation (Proposed from Local People)	Ward-5 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-12	Repair	Bharuakhali	2621005	S23	New	Rehabilitation (Proposed from Local People)	Ward-4 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-14	Repair	Bharuakhali	2621005	S24	New	Rehabilitation (Proposed from Local People)	Ward-4 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-15	Repair	Bharuakhali	2621005	S24A	New	Rehabilitation (Proposed from Local People)	Ward-4 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-21	Repair	Bharuakhali	2621005	S16	New	Rehabilitation (Proposed from Local People)	Ward-2 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Pok-Slu-01	Repair	Pokkhali	-	Regulator (23.960km)	Continuing	Rehabilitation (Proposed from Local People)	Ward-04 of Pokkhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Pok-Slu-02	Repair	Pokkhali	-	R-7 (2-V) (18.300km)	Continuing	Rehabilitation (Proposed from Local People)	Ward-04 of Pokkhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Pok-Slu-03	Repair	Pokkhali	-	R-6 (3-V Damaged) (15.950km)	Continuing	Rehabilitation (Proposed from Local People)	Ward-04 of Pokkhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Pok-Slu-05	Repair	Pokkhali	-	R-5 ((3-V) (13.450km)	Unknown	Rehabilitation (Proposed from Local People)	Ward-06 of Pokkhali Union	50	Mid Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Pok-Slu-07	Repair	Pokkhali	-	R-24 (2-V) (12.270km)	Continuing	Rehabilitation (Proposed from Local People)	Ward-08 of Pokkhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Pok-Slu-08	Repair	Pokkhali	-	Inlet (11.590km)	Continuing	Rehabilitation (Proposed from Local People)	Ward-08 of Pokkhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
EDG-Slu-01	Repair	Idgaon	-	S25	New	Rehabilitation (Proposed from Local People)	Ward-06 of Eidgaon Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
EDG-Slu-02	Repair	Idgaon	-	S26 (1.00KM)	Continuing	Rehabilitation (Proposed from Local People)	Ward-05 of Eidgaon Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
CHO-Slui-3	Repair	Chaufaldandi	-	Inlet-4 (km5.936)	Continuing	Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
CHO-Slui-4	Repair	Chaufaldandi	-	S-29(2-V) (5.600KM)	Continuing	Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-02	Repair	Bharuakhali	-	R11	New	Rehabilitation (Proposed from Local People)	Ward-1 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-03	Repair	Bharuakhali	-	S20A	New	Rehabilitation (Proposed from Local People)	Ward-1 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-05	Repair	Bharuakhali	-	S18	New	Rehabilitation (Proposed from Local People)	Ward-6 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.

Attachment 1-5

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Bha-Slui-06	Repair	Bharuakhali	-	S18A	New	Rehabilitation (Proposed from Local People)	Ward-6 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-07	Repair	Bharuakhali	-	S21A	Continuing	Rehabilitation (Proposed from Local People)	Ward-5 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-17	Repair	Bharuakhali	-	S25	New	Rehabilitation (Proposed from Local People)	Ward-3 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-20	Repair	Bharuakhali	-	S17	New	Rehabilitation (Proposed from Local People)	Ward-2 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
PMK-Slui-1	Repair	Patali Machhuakhali	-	Banglabazar Sluice Gate	Unknown	Rehabilitation (Proposed from Local People)	Ward-05 of Patali Machhuakhali Union.	50	Short Term	Midum	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
PMK-Slui-2	Repair	Patali Machhuakhali	-	R15 (6-Vent)	New	Rehabilitation (Proposed from Local People)	Ward-07 of Patali Machhuakhali Union.	50	Short Term	High	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Pok-Slui-06	Repair	Pokkhali	-	EIP-S-1 (1-V) km14.650	Continuing	Rehabilitation (Proposed from Local People)	Ward-08 of Pokkhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
CHO-Slui-2	Repair	Chaufaldandi	-	Inlet-4 (km 5.936)	Unknown	Rehabilitation (Proposed from Local People)	Ward-01 of Chawfaldandi Union	200	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
CHO-Slui-6	Repair	Chaufaldandi	-	S-29(2-V) (5.600KM)	Unknown	Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	200	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
CHO-Slui-7	Repair	Chaufaldandi	-	Inlet-3 (km 4.930)	Unknown	Rehabilitation (Proposed from Local People)	Ward-08 of Chawfaldandi Union	200	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
CHO-Slui-8	Repair	Chaufaldandi	-	Inlet - 2 (km-3.235)	Unknown	Rehabilitation (Proposed from Local People)	Ward-08 of Chawfaldandi Union	200	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
CHO-Slui-9	Repair	Chaufaldandi	-	S-27(1-V) (km 3.023)	Continuing	Rehabilitation (Proposed from Local People)	Ward-08 of Chawfaldandi Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
CHO-Slui-10	Repair	Chaufaldandi	-	Inlet-1(km 2.057)	Unknown	Rehabilitation (Proposed from Local People)	Ward-08 of Chawfaldandi Union	150	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
CHO-Slui-12	Repair	Chaufaldandi	-	S-26 (km1.100)	Unknown	Rehabilitation (Proposed from Local People)	Ward-09 of Chawfaldandi Union	150	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB

Attachment 1-6

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
											proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-08	Repair	Bharuakhali	-	S21B	Continuing	Rehabilitation (Proposed from Local People)	Ward-5 of Bharuakhali Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Bha-Slui-09	Repair	Bharuakhali	-	S21	Unknown	Rehabilitation (Proposed from Local People)	Ward-5 of Bharuakhali Union	150	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-10	Repair	Bharuakhali	-	S22	Unknown	Rehabilitation (Proposed from Local People)	Ward-5 of Bharuakhali Union	150	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-13	Repair	Bharuakhali	-	S23B	Unknown	Rehabilitation (Proposed from Local People)	Ward-4 of Bharuakhali Union	150	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-16	Repair	Bharuakhali	-	S24B	Unknown	Rehabilitation (Proposed from Local People)	Ward-3 of Bharuakhali Union	150	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-18	Repair	Bharuakhali	-	S18B	Unknown	Rehabilitation (Proposed from Local People)	Ward-3 of Bharuakhali Union	150	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Bha-Slui-19	Repair	Bharuakhali	-	S17B	Unknown	Rehabilitation (Proposed from Local People)	Ward-3 of Bharuakhali Union	150	Short Term	Low	BWDB verified and validated that the Maintenance work needed. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee
Isl-Slu-01	New Construction	Islampur	2621006	Improved (2-V) km 18.800	Continuing	Reconstruction (Proposed from Local People)	Ward-09 of Islampur Union	100	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
Isl-Slu-02	New Construction	Islampur	2621006	S-03(1-V) km 18.670	Continuing	Reconstruction (Proposed from Local People)	Ward-09 of Islampur Union	50	Short Term	High	BWDB verified and validated that the Maintenance work is already ongoing. But BWDB proposal is needed to replace. Need to take initiative from the Technical Committee.
CXP-Slu-02	Proposed	CB Paurashava	-	Sluice Gate, Godar para-Vulnerable Sluice Gate, Ward-06, Cox'sbazar	Unknown	New construction (Proposed from Paurashava Engineering Department)	Ward-06 of CB Paurashava	100	Mid Term	Midum	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
CXP-Slu-03	Proposed	CB Paurashava	-	Proposed Suice gate, Rumaliarchora Suice Gate, Ward-05 ,06	Unknown	New construction (Proposed from Paurashava Engineering Department)	Ward-05,06 of CB Paurashava	100	Mid Term	Midum	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
CXP-Slu-01	Proposed	CB Paurashava	-	Sluice Gate, Peskar Para Sluice Gate, Ward-04	Unknown	New construction (Proposed from Paurashava Engineering Department)	Ward-04 of CB Paurashava	100	Mid Term	Midum	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
Khu-Slu-01	New Construction	Khurushkul	-	Proposed Commerce College Sluice gate	Unknown	Reconstruction (Proposed from Local People)	Ward-9 Khurushkul union	100	Mid Term	Midum	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.

Attachment 1-7

Project by LGED

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
ISB-Slu-01	Repair	Islamabad	-	West Boyalkhali Sluice Gate	Pipeline	Rehabilitation (Proposed from Local People)	Ward-04 of Islamabad Union	50	Mid Term	High	Need to take initiative from TSC
Pok-Slu-10	Repair	Pokkhali	-	Repair Loiijar Jhora Adjacent Sluice Gate,	New	Repair on Office, Gaide & Protection wall (Proposed from Upazila Office)	1000	25	Short Term	High	Detailed Design Required
CHO-Slu-15	Repair	Chaufaldandi	SP No. 25245	Chaufaldandi SP No 25245	New	Repair on Office, Gaide & Protection wall (Proposed from Upazila Office)	1000	42	Short Term	High	Detailed Design Required
PMK-Slu-3	Repair	Patali Machhuakhali	SP No. 23085	Chankula SP No 23085	New	Repair on Office, Gaide & Protection wall (Proposed from Upazila Office)	1000	25	Short Term	High	Detailed Design Required

Project by DDM

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CHO-Slu-1	Repair	Chaufaldandi	-	Chaufaldandi Embankment Adjacent Sluice Gate	New	Rehabilitation (Proposed from Local People)	Ward-01 of Chawfaldandi Union	25	Short Term	High	Need to include in DPP
CHO-Slu-13	Repair	Chaufaldandi	-	Chaufaldandi Embankment Adjacent Sluice Gate	New	Rehabilitation (Proposed from Local People)	Ward-09 of Chawfaldandi Union	25	Mid Term	High	Detailed Design Required

(2) Infrastructures for Protection and Control against Coastal Disaster**a) Dyke(polder) / Coastal revetment****Projects by BWDB**

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Khu-Emb-01	New Construction	Khurushkul	2210	-	Ashrayan Dyke extension embankment (4.77 km + 6.765km)	Completed	2.210 km Embankment Reconstruction (Proposed from Local People)	Khurushkul Union	299	Short Term	High	BWDB verified and validated that the embankment Work almost completed
ISL-Emb-01	Repair & Renovation	Islampur	3485	-	Polder 66/3 (Khanghona)	Continuing	3.485 km Embankment Repair & Renovation (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	216	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (18.80 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
ISB-Emb-01	Repair	Islamabad	631	-	Polder 66/3 (Khanghona)	Continuing	0.631 km Repair (Proposed from Local People)	Islamabad Union	39	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (18.80 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Pok-Emb-01	Repair & New Construction	Pokkhali	7425	-	Polder 66/3 (Gomatoli)	Continuing	7.425 km Embankment Repair or New Construction (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	460	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (34.57 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
JAL-Emb-01	Repair	Jalalabad	5644	-	Polder 66/3 (Gomatoli)	Continuing	5.644 km Embankment Repair (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	350	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (34.57 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
CHO-Emb-1	Repair	Chaufaldandi	5367	-	Polder 66/3 (Gomatoli)	Continuing	5.367 km Embankment Repair (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	333	Short Term	High	BWDB verified and validated that the polder 66/3 needs to be repaired at full length (34.57 km). Maintenance work is already ongoing. Need to take initiative from the Technical Committee.
Bha-Emb-01	Repair	Bharuakhali	11870	-	Polder 66/2	New	11.87 km Embankment Repair (Proposed from Local People & BWDB)	Bharuakhali Union	736	Short Term	High	BWDB verified and validated that the polder 66/2 needs to be repaired at full length (19.4 Km). Need to take initiative from the Technical Committee.
Khu-Emb-02	New Construction	Khurushkul	2575	-	66/1 Sea Dyke	New	2.575 km Embankment Reconstruction (Proposed from Local People & BWDB)	Khurushkul, Patali Machhuakhali Union.	160	Short Term	High	BWDB verified and validated that the polder 66/1 needs to be repaired at full length (5.045 km). Need to take initiative from the Technical Committee.
Jhil--Emb-02	Repair	Jhilwanja	5942	-	L/B 16.5 KM	New	5.942 km Embankment New construction (Proposed from Local People & BWDB)	Jhilwanja Union	3,565	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (16.5 km) with protection work. Need to take initiative from the Technical Committee.
CXP-Emb-01	Repair	CB Paurashava	3402	-	L/B 16.5 KM	New	3.402 km Embankment New construction (Proposed from Local People & BWDB)	Cox's Bazar Paurashava	2,041	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (16.5 km) with protection work. Need to take initiative from the Technical Committee.
Jhil--Emb-01	Repair	Jhilwanja	4473	-	R/B 14.3 KM	New	4.473 km Embankment New construction (Proposed from Local People & BWDB)	Jhilwanja Union	2,684	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (14.3 km) with protection work. Need to take initiative from the Technical Committee.
PMK-Emb-01	Repair	Patali Machhuakhali	5468	-	R/B 14.3 KM	New	5.468 km Embankment New construction (Proposed from Local People & BWDB)	Patali Machhuakhali Union.	3,281	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (14.3 km) with

Attachment 1-9

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
												protection work. Need to take initiative from the Technical Committee.
ISB-Emb-04	Repair	Islamabad	6874	-	End of the Polder 66/3 To Forazi Para (Bashgha Canal Adjacent Embankment)	Unknown	6.874 km New Embankment Proposal (Proposed from Local People)	Islamabad Union	4,124	Mid Term	Low	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
ISL-Emb-03	Repair & Renovation	Islampur	5639	-	From Islampur Public Model School to Kailashergona Embankment [Polder 66/3 (Extension)]	Unknown	5.639 km New Embankment Proposal (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	3,383	Mid Term	Low	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
EDG-Emb-01	Repair	Idgaon	6185	-	Eidgaon Station Bridge to Vomoriya Ghona Range Office [Polder 66/3 (Extension) (Gomatoli)]	Unknown	6.185 km New Embankment Proposal (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	3,711	Mid Term	Low	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
ISL-Emb-02	Repair & Renovation	Islampur	3071	-	From Islampur Public Model School to Islampur Factory Tetul Tola Embankment [Polder 66/3 (Extension)]	Unknown	3.071 km New Embankment Proposal (Proposed from Local People)	Pokkhali, Islamabad, Jalalabad, Chawfaldandi union	1,843	Mid Term	Low	UzSC must request to the BWDB district office, to include the BWDB development plan considering all technical issues.
CXP-Emb-02	Proposed	CB Paurashava	8674	-	Seal Beach Protection	Pipeline	8.674 km New Embankment Construction (Proposed from Local People & BWDB)	Cox's Bazar Paurashava and Jhilwanja Union	42,503	Mid Term	High	BWDB verified and validated that the embankment needs to be new construction at full length (8.674 km) with protection work and it's very important for town protection. Need to take initiative from the Technical Committee.

b) Guide wall

Project by LGED

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Guide Wall	Isl-Gui-01	New Construction	Islampur	48	422245435	Food ball field to Shirajuddla - Jumagar road	New	48m Guide Wall Reconstruction (Proposed from Local People)	Ward -02 of Islampur union	5	Mid Term	Low	Detailed Design Required
Guide wall	Isl-Gui-02	New Construction	Islampur	99	422244059 (New)	Natun office Bazar Dulafakir Mazar via Napith khali pry. School Road	New	99m Guide Wall Reconstruction (Proposed from Local People)	Ward -01 of Islampur union	10	Mid Term	Low	Detailed Design Required
Guide wall	Isl-Gui-03	New Construction	Islampur	204	422245109	Boalkhali East Dide Road	New	204m Guide Wall Reconstruction (Proposed from Local People)	Ward -01 of Islampur union	20	Mid Term	Low	Detailed Design Required
Guide Wall	ISB-Gui-01	Repair	Islamabad	815	422243019	Bharuakhali UP Office/Khamarpara bazar Road	New	815m Guide Wall Rehabilitation (Proposed from Local People)	Ward-04,05 of Islamabad	82	Mid Term	Low	Detailed Design Required

Project by DDM

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Guide wall	Bha-Guid-01	Proposed	Bharuakhali	31	-	Guide Wall 01, Middle Bharuakhali Government Primary School's Guide Wall	New	31m Guide Wall New construction (Proposed from Local People)	Ward-06 of Bharuakhali.	3	Mid Term	High	Detailed Design Required

Project by Cox's Bazar Paurashava

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Guide Wall	CXP-Gui-01	Proposed	CB Paurashava	92	Gui-01	Guide Wall, Koborstan Shilpo Elake Boundary Wall	New	92m Guide Wall New construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	9	Mid Term	Low	Detailed Design Required
Guide Wall	CXP-Gui-02	Proposed	CB Paurashava	155	Gui-02	Guide Wall, Panir Kuwa para Koborstan Boundary Guide wall.	New	155m Guide Wall New construction (Proposed from Local People)	Ward-02 of Cox's Bazar Paurashava	16	Mid Term	Low	Detailed Design Required
Guide Wall	CXP-Gui-03	Proposed	CB Paurashava	368	Gui-03	Guide Wall, Uttor Nuniar Chora Baro Koborstan Boundary Guide Wall	New	368m Guide Wall New construction (Proposed from Local People)	Ward-02 of Cox's Bazar Paurashava	37	Mid Term	Low	Detailed Design Required

(3) Infrastructures for Protection and Control against Sediment Disaster**a) Slope stabilization / Retaining Walls****Projects by LGED**

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Retaining Wall	PMK-Ret-01	Proposed	Patali Machhua khali	34	422245012	Banglabazar Ghat kalia para Rd	New	34m New retaining wall Construction (Proposed from Local People)	Ward-04 of Patali Machhuakhali Union.	34	Mid Term	High	Detailed Design Required
Retaining Wall	PMK-Ret-02	Proposed	Patali Machhua khali	54	422245013	P.M Khali Napit para Road	New	54m New retaining wall Construction (Proposed from Local People)	Ward-04 of Patali Machhuakhali Union.	54	Mid Term	High	Detailed Design Required
Retaining Wall	PMK-Ret-04	Proposed	Patali Machhua khali	74	422245072	Chankhola Nayapara Rd	New	74m New retaining wall Construction (Proposed from Local People)	Ward-01 of Patali Machhuakhali Union.	74	Mid Term	High	Detailed Design Required
Retaining Wall	PMK-Ret-05	Proposed	Patali Machhua khali	72	422245051	Golarpara Rd.	New	72m New retaining wall Construction (Proposed from Local People)	Ward-02 of Patali Machhuakhali Union.	72	Mid Term	High	Detailed Design Required
Retaining Wall	PMK-Ret-06	Proposed	Patali Machhua khali	81	422245014	P.M khali Tehirghona Road	New	81m New retaining wall Construction (Proposed from Local People)	Ward-04 of Patali Machhuakhali Union.	81	Mid Term	High	Detailed Design Required
Retaining Wall	Khu-Ret-01	Proposed	Khurushkul	185	422245262	Kalibari to Ruhullar dal Road	New	185m New retaining wall Construction (Proposed from Local People)	Ward 06 of Khurushkul Union	185	Mid Term	High	Detailed Design Required
Retaining Wall	Khu-Ret-02	Proposed	Khurushkul	332	422245240	Rulla khal to miacher 6 no project road	New	332m New retaining wall Construction (Proposed from Local People)	Ward 09 of Khurushkul Union	332	Mid Term	High	Detailed Design Required
Retaining Wall	Khu-Ret-03	Proposed	Khurushkul	59	422245015	Tetaia village Road	New	59m New retaining wall Construction (Proposed from Local People)	Ward 01 of Khurushkul Union	59	Mid Term	High	Detailed Design Required

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Retaining Wall	Khu-Ret-04	Proposed	Khurushkul	122	422245015	Tetaia village Road	New	122m New retaining wall Construction (Proposed from Local People)	Ward 01 of Khurushkul Union	122	Mid Term	High	Detailed Design Required
Retaining Wall	Jhil-Ret-01	Proposed	Jhilwanja	263	422245003	Khurulia Ghatpara Road	New	263m New retaining wall Construction (Proposed from Local People)	Ward-01 of Jhilwanja Union	263	Mid Term	High	Detailed Design Required
Retaining Wall	Jhil-Ret-02	Proposed	Jhilwanja	283	422245061	Janarghona ghonapara Rd	New	283m New retaining wall Construction (Proposed from Local People)	Ward-01 of Jhilwanja Union	283	Mid Term	High	Detailed Design Required
Retaining Wall	Jhil-Ret-03	Proposed	Jhilwanja	226	422245062	Muhuripara pry.school rd.	New	226m New retaining wall Construction (Proposed from Local People)	Ward-01 of Jhilwanja Union	226	Mid Term	High	Detailed Design Required
Retaining Wall	Jhil-Ret-04	Proposed	Jhilwanja	55	422245161	South Hajeepara Food Godawn Road	New	55m New retaining wall Construction (Proposed from Local People)	Ward-01 of Jhilwanja Union	55	Mid Term	High	Detailed Design Required
Retaining Wall	Jhil-Ret-05	Proposed	Jhilwanja	243	422245183 New	Jail Gate, Badsha Ghona Landslide	New	243m new retaining wall Construction (Proposed from Local People)	Ward-01 of Jhilwanja Union	243	Mid Term	High	Detailed Design Required

Project by DDM

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Retaining Wall	PMK-Ret-03	Proposed	Patali Machhua khali	105	1	Kataliya Mora Landslide Retaining Wall	New	105m New retaining wall Construction (Proposed from Local People)	Ward-09 of Patali Machhuakhali Union.	11	Mid Term	High	Detailed Design Required

Project by Cox's Bazar Paurashava

CATEGORY	ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Retaining Wall	CXP-Ret-01	Proposed	CB Paurashava	539	G-1	Retaining Wall for Landslide, Bacha Miyar Ghona	New	539m New retaining wall Construction (Proposed from Paurashava Engineering Department)	Ward-07 of Cox's Bazar Paurashava	113	Mid Term	High	Detailed Design Required
Retaining Wall	CXP-Ret-02	Proposed	CB Paurashava	81	G-2	Retaining Wall for Landslide, Light House Para	New	81m New retaining wall Construction (Proposed from Paurashava Engineering Department)	Ward-11 of Cox's Bazar Paurashava	17	Mid Term	High	Detailed Design Required
Retaining wall	CXP-Ret-03	Proposed	CB Paurashava	3453	G-3	Retaining wall, RRRC Office to Somiti Para Canal Both Side Retaining Wall	New	3453m New retaining wall Construction (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	1,381	Mid Term	High	Detailed Design Required

(5) Infrastructures for Emergency Operations

a) Shelters

Project by LGED

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Isl-Shel-01	General & Good	Islampur	91412070504	Dhormochora Government Primary school cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-08 of Islampur Union	30	Short Term	Midum	Detailed Design Required
Isl-Shel-02	New Construction	Islampur	91412070502	Constuction of Bottoli Napitkali Government Primary School cum Cyclone Shelter	New	Reconstruction (Proposed from Local People)	Ward-07 of Islampur Union	750	Mid Term	High	Detailed Design Required
Isl-Shel-03	General & Good	Islampur	91412070501	Napit khali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-01 of Islampur Union	30	Short Term	High	Detailed Design Required
Isl-Shel-04	General & Good	Islampur	91412070503	West Khan Ghona Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Islampur Union	30	Short Term	High	Detailed Design Required
Pok-Shel-01	Existing	Pokkhali	91412070403	Naikkon Diya Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-05 of Pokkali Union	30	Short Term	High	Detailed Design Required
Pok-Shel-03	Existing	Pokkhali	91412070406	West Pokkhali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-04 of Pokkali Union	30	Short Term	High	Detailed Design Required
Pok-Shel-05	Existing	Pokkhali	91412070402	Middle Pokkhali Government Primary School cum Cyclone Shelter	New	Repair or Rehabilitation (Proposed from Local People)	Ward-03 of Pokkali Union	30	Short Term	High	Detailed Design Required
Pok-Shel-06	Existing	Pokkhali	91412070401	East Pokkhali Gov. Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-02 of Pokkali Union	30	Short Term	High	Detailed Design Required
Pok-Shel-09	Existing	Pokkhali	91412070405	West Gomatoli Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-07 of Pokkali Union	30	Short Term	High	Detailed Design Required
Pok-Shel-11	Existing	Pokkhali	91412070404	East Ghomatoli Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Pokkali Union	30	Short Term	High	Detailed Design Required
ISB-Shel-01	Existing	Islamabad	91412070306	Constuction of Waheder para-Government Primary School cum Cyclone Shelter	New	Repair or Rehabilitation (Proposed from Local People)	Ward-05 of Islamabad Union	30	Short Term	High	Detailed Design Required
ISB-Shel-02	Existing	Islamabad	91412070301	Gojalya Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Islamabad Union	30	Short Term	High	Detailed Design Required
ISB-Shel-03	Existing	Islamabad	91412070302	Pahashiya khali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-02 of Islamabad Union	30	Short Term	High	Detailed Design Required
ISB-Shel-04	Existing	Islamabad	91412070304	Icha khali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-04 of Islamabad Union	30	Short Term	High	Detailed Design Required
ISB-Shel-05	Existing	Islamabad	91412070303	Constuction of Yousofer Khil Government Primary School cum Cyclone Shelter	New	Repair or Rehabilitation (Proposed from Local People)	Ward-06 of Islamabad Union	30	Short Term	High	Detailed Design Required
EDG-Shel-01	Existing	Idgaon	91412070205	Dokkin Maiz para-Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-03 of Eidgaon Union	30	Short Term	Midum	Detailed Design Required
EDG-Shel-02	Existing	Idgaon	91412070202	Kalirchora Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-06 of Eidgaon Union	30	Short Term	Midum	Detailed Design Required
EDG-Shel-03	Existing	Idgaon	91412070203	Vomoriya Ghona Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Eidgaon Union	30	Short Term	Midum	Detailed Design Required

Attachment 1-13

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority In Terms of Hazard Analysis	Remarks
JAL-Shel-01	General & Good	Jalalabad	91412070104	Maizpada Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-02 of Jalalabad Union	15	Short Term	Midum	Detailed Design Required
JAL-Shel-02	General & Good	Jalalabad	91412070106	Mohon Vila Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-07 of Jalalabad Union	15	Short Term	Midum	Detailed Design Required
JAL-Shel-03	General & Good	Jalalabad	91412070103	Eidgaon Bahar chora Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-05 of Jalalabad Union	15	Short Term	Midum	Detailed Design Required
JAL-Shel-04	General & Good	Jalalabad	91412070105	Dokkin Lora bag Jomirya Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-03 of Jalalabad Union	15	Short Term	Midum	Detailed Design Required
CHO-Shel-01	Existing	Chaufaldandi	91412071105	West Chowfaldandi Hakimia Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-04 of Chawfaldandi Union	15	Short Term	High	Detailed Design Required
CHO-Shel-02	New Construction	Chaufaldandi	91412020601	Construction of South Rakhaine Para Government Primary School cum Cyclone Shelter	New	Reconstruction (Proposed from Local People)	Ward-01 of Chawfaldandi Union	750	Short Term	High	Detailed Design Required
CHO-Shel-03	Existing	Chaufaldandi	91412071102	West Chowfaldandi Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-03 of Chawfaldandi Union	15	Short Term	High	Detailed Design Required
CHO-Shel-05	New Construction	Chaufaldandi	91412030105	Construction of Aliya para-Government Primary School cum Cyclone Shelter	New	Reconstruction (Proposed from Local People)	Ward-05 of Chawfaldandi Union	750	Short Term	High	Detailed Design Required
CHO-Shel-06	Existing	Chaufaldandi	91412071101	Khonkarkhil Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Chawfaldandi Union	15	Short Term	High	Detailed Design Required
CHO-Shel-07	Existing	Chaufaldandi	91412020803	Pukuriya Ghona Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Chawfaldandi Union	15	Short Term	High	Detailed Design Required
CHO-Shel-08	Existing	Chaufaldandi	91412071104	Noton Mohol Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-08 of Chawfaldandi Union	15	Short Term	High	Detailed Design Required
CHO-Shel-09	Existing	Chaufaldandi	91412071103	Chowfaldandi Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-06 of Chawfaldandi Union	15	Short Term	High	Detailed Design Required
CHO-Shel-10	New Construction	Chaufaldandi	91412071102	Construction of North Rakhaine Para Government Primary School cum Cyclone Shelter	New	Reconstruction (Proposed from Local People)	Ward-01 of Chawfaldandi Union	750	Mid Term	High	Detailed Design Required
Bha-Shel-01	New Construction	Bharuakhali	91412020502	Construction of Chowdhury Para Ghona Para Government Primary School cum Cyclone Shelter	New	Reconstruction (Proposed from Local People)	Ward-9 of Bharuakhali Union	750	Mid Term	High	Detailed Design Required
Bha-Shel-02	Existing	Bharuakhali	91412020205	Abu Shama Sawdagar Para Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-9 of Bharuakhali Union	15	Short Term	High	Detailed Design Required
Bha-Shel-03	Existing	Bharuakhali	91412030601	Ulta Khali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-9 of Bharuakhali Union	15	Short Term	High	Detailed Design Required
Bha-Shel-04	Existing	Bharuakhali	91412070602	Middle Vharuakhali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-6 of Bharuakhali Union	15	Short Term	High	Detailed Design Required
Bha-Shel-05	Existing	Bharuakhali	91412030401	Ali Hossain Shikder Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-6 of Bharuakhali Union	15	Short Term	High	Detailed Design Required
Bha-Shel-06	Existing	Bharuakhali	91412070601	Bharuakhali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-1 of Bharuakhali Union	15	Short Term	High	Detailed Design Required
Bha-Shel-07	Existing	Bharuakhali	91412030502	Bharuakhali Poshim Para Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-3 of Bharuakhali Union	15	Short Term	High	Detailed Design Required
PMK-Shel-01	Existing	Patali Machhuakhali	91412030104	Tutuk khali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 03 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority In Terms of Hazard Analysis	Remarks
PMK-Shel-10	Existing	Patali Machhuakhali	99412030201	Dik Para Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 06 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
PMK-Shel-12	Existing	Patali Machhuakhali	99412020701	Ghona Para Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 04 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
PMK-Shel-13	Existing	Patali Machhuakhali	99412020203	Jhum Chori Ghat Kulia para-Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 05 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
PMK-Shel-15	Existing	Patali Machhuakhali	99412030402	Chon Khola Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 01 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
Khu-Shel-01	Existing	Khurushkul	99412070702	Dokkin Khurushkul Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-9 of Khurushkul Union	15	Short Term	High	Detailed Design Required
Khu-Shel-04	Existing	Khurushkul	99412070704	Moddom Khurushkul Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-5 of Khurushkul Union	15	Short Term	High	Detailed Design Required
Khu-Shel-05	Existing	Khurushkul	99412070703	Khurushkul Dhiren Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-6 of Khurushkul Union	15	Short Term	High	Detailed Design Required
Khu-Shel-09	Existing	Khurushkul	99412070705	Tetuan Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-1 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Khu-Shel-10	Existing	Khurushkul	99412070701	Khurushkul Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Jhil-Shel-02	Existing	Jhilwanja	99412070904	Dokkin Kurulia Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-8 of Jhilwanja Union	30	Short Term	Midum	Detailed Design Required
Jhil-Shel-04	Existing	Jhilwanja	99412070910	Chander Para Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward -05 of Jhilwanja Union	30	Short Term	Midum	Detailed Design Required
PMK-Shel-02	New Construction	Patali Machhuakhali	-	Constuction of Tutuk khali Middle Ghona Para Government Primary School cum Cyclone Shelter	New	Reconostruction (Proposed from Local People)	Ward- 03 of Patali Machhuakhali Union.	750	Mid Term	High	Detailed Design Required
PMK-Shel-03	New Construction	Patali Machhuakhali	-	Constuction of Poraniya Para Government Primary School cum Cyclone Shelter	New	Reconostruction (Proposed from Local People)	Ward- 04 of Patali Machhuakhali Union.	750	Mid Term	High	Detailed Design Required
PMK-Shel-04	Existing	Patali Machhuakhali	-	Kataliya Mora Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 09 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
PMK-Shel-05	Existing	Patali Machhuakhali	-	PM khali Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 09 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
PMK-Shel-06	Existing	Patali Machhuakhali	-	Mohsinia Para Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 07 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
PMK-Shel-07	New Construction	Patali Machhuakhali	-	Government Primary School cum Cyclone Shelter Maintenance	New	Reconostruction (Proposed from Local People)	Ward- 08 of of Patali Machhuakhali Union.	750	Mid Term	High	Detailed Design Required
PMK-Shel-09	New Construction	Patali Machhuakhali	-	Constuction of Patoli Chowdhury Para Government Primary School cum Cyclone Shelter	New	Reconostruction (Proposed from Local People)	Ward- 06 of Patali Machhuakhali Union.	750	Mid Term	High	Detailed Design Required
PMK-Shel-16	Existing	Patali Machhuakhali	-	Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward- 02 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
Khu-Shel-03	New Construction	Khurushkul	-	Monopara Government Primary School cum Cyclone Shelter Maintenance	New	Reconostruction (Proposed from Local People)	Ward-9 of Khurushkul Union	15	Mid Term	High	Detailed Design Required
Jhil-Shel-01	Existing	Jhilwanja	-	Purbo Kurulia Government Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Jhilwanja Union	30	Short Term	Midum	Detailed Design Required

Attachment 1-15

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Pok-Shel-07	Proposed	Pokkhali	-	North Ghomatuli Government Primary School cum Cyclone Shelter Maintenance	New	New Construction (Proposed from Local People)	Ward-08 of Pokkhali Union	750	Mid Term	Midum	Detailed Design Required
CXP-Shel-18	Proposed	CB Paurashava	-	Construction of SM Para Amir Hossain Government Primary School cum Cyclone Shelter	New	New Construction (Proposed from Local People)	Ward-05 of Cox's Bazar Paurashava	750	Mid Term	High	Detailed Design Required

Project by DDM

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Pok-Shel-04	Repair	Pokkhali	-	West Pokkhali CCDB Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-04 of Pokkhali Union	30	Short Term	High	Detailed Design Required
Pok-Shel-08	Existing	Pokkhali	-	Ghomatoli High School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-07 of Pokkhali Union	30	Short Term	High	Detailed Design Required
Pok-Shel-10	Existing	Pokkhali	-	East Ghomatoli Cyclone Shelter cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Pokkhali Union	30	Short Term	High	Detailed Design Required
CHO-Shel-04	Existing	Chaufaldandi	-	Sagromoni High School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-03 of Chawfaldandi Union	15	Short Term	High	Detailed Design Required
PMK-Shel-08	Existing	Patali Machhuakhali	-	Hazrat Abu Bakkar Siddique Dhakil Madrasa cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-06 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
PMK-Shel-11	Existing	Patali Machhuakhali	-	Maizpara CCDB Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-06 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
PMK-Shel-14	Existing	Patali Machhuakhali	-	Ghat Kulia Para CCDB Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-05 of Patali Machhuakhali Union.	15	Short Term	High	Detailed Design Required
Khu-Shel-02	Existing	Khurushkul	-	South Khurushkul Model High School, School cum Shelter Center Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-8 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Khu-Shel-06	Repair	Khurushkul	-	World Vision Center, Pocharghona cum Shelter Center Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	15	Short Term	High	Detailed Design Required
Khu-Shel-07	Existing	Khurushkul	-	Moddham Rastar Para, Shelter Center Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	15	Short Term	High	Detailed Design Required
Khu-Shel-08	Existing	Khurushkul	-	Rastar Para Gonoshasto Kendra cum Shelter Center Maintenance	New	Repair or Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	15	Short Term	High	Detailed Design Required
Jhil-Shel-03	New Construction	Jhilwanja	-	Construction of Surutia Fadil Madrasa cum Cyclone Shelter	New	Repair or Rehabilitation (Proposed from Local People)	Ward-06 of Jhilwanja Union	750	Short Term	Midum	Detailed Design Required
Pok-Shel-02	Proposed	Pokkhali	-	Construction of North Naikkon Diya Umme Hani Madrasa cum Cyclone Shelter	New	New Construction (Proposed from Local People)	Ward-06 of Pokkhali Union	750	Mid Term	Midum	Detailed Design Required
Pok-Shel-12	Proposed	Pokkhali	-	Pokkhali Model High School cum Cyclone Shelter	New	New Construction (Proposed from Local People)	Ward-01 of Pokkhali Union	750	Mid Term	Midum	Detailed Design Required
EDG-Shel-04	Proposed	Idgaon	-	Construction of Ghona Haji Shofik Islamia Dhakil Madrasa cum Cyclone Shelter	New	New Construction (Proposed from Local People)	Ward-09 of Eidgaon Union	750	Mid Term	Midum	Detailed Design Required
EDG-Shel-05	Proposed	Idgaon	-	Construction of Almasiya Fazil Madrasa cum Cyclone Shelter	New	New Construction (Proposed from Local People)	Ward-01 of Eidgaon Union	750	Mid Term	Midum	Detailed Design Required

Project by Cox's Bazar Paurashava

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-Shel-01	Existing	CB Paurashava	Sh-01	Kolatoli Govt Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-12 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-02	Existing	CB Paurashava	Sh-02	Islamia Kamil Madarasha cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-03	Existing	CB Paurashava	Sh-03	Paskar Para Govt Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-04 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-04	Existing	CB Paurashava	Sh-04	D Ward Govt. Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-08 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-05	Existing	CB Paurashava	Sh-05	Baitusharif Jabbaria Academy School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-08 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-06	Existing	CB Paurashava	Sh-06	Cox's Bazar Govt. High School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-10 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-07	Existing	CB Paurashava	Sh-07	Cox's Bazar Govt. High School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-10 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-08	Existing	CB Paurashava	Sh-08	Cox's Bazar Central Govt. Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-10 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-09	Existing	CB Paurashava	Sh-09	Barmish Govt. Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-04 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-10	Existing	CB Paurashava	Sh-10	Tekpara Govt. Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-04 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-11	Existing	CB Paurashava	Sh-11	Kasturaghat Gov. School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-03 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-12	Existing	CB Paurashava	Sh-12	Uttar Noniarchar Govt. Primary School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-13	Existing	CB Paurashava	Sh-13	Adrashta Taybuya Taheria Maddrashta Noniarcha Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-14	Existing	CB Paurashava	Sh-14	Govt. Women Collage Cox,sbazar Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-03 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-15	Existing	CB Paurashava	Sh-15	Saikat Girls High School cum Cyclone Shelter Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-03 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-16	Existing	CB Paurashava	Sh-16	Bimanbandar GPS cum Cyclone Shelter Center Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-17	Existing	CB Paurashava	Sh-17	Maddam Jhilonja GPS cum Shelter Center Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-06 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-19	Existing	CB Paurashava	Sh-18	Baharchara Govt. Primary School cum Cyclone Shelter Center Maintenance	New	Repair or Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required
CXP-Shel-20	Proposed	CB Paurashava	Sh-19	Construction of Cyclone Shelter Upakoliya Adarsho Shikka Niketon	New	New Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	750	Mid Term	High	Detailed Design Required
CXP-Shel-21	Proposed	CB Paurashava	Sh-20	Construction of Darul Kutub Academy Maddamik High School	New	New Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	750	Mid Term	High	Detailed Design Required

b) Roads

Project by LGED

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Isl-R-01	Repair	Islampur	506	422245422	Hajee Mofar Alam houe to Baddapara road	New	0.506 km road Rehabilitation (Proposed from Local People)	Ward- 09 of Islampur union	75	Mid Term	Midum	Detailed Design Required
Isl-R-02	Repair	Islampur	362	422245103	Hajee Dudu meah Rd.	New	0.362 km road Rehabilitation (Proposed from Local People)	Ward- 09 of Islampur union	60	Mid Term	Midum	Detailed Design Required
Isl-R-03	Repair	Islampur	1969	422245419	East Napithkhali Bablar shope to villager par a road	New	1.969 km road Rehabilitation (Proposed from Local People)	Ward- 06 of Islampur union	294	Mid Term	High	Detailed Design Required
Isl-R-04	Repair	Islampur	307	422245455	Utter Napithkhali to middle Fram road	New	0.307 km road Rehabilitation (Proposed from Local People)	Ward -01 of Islampur union	46	Mid Term	High	Detailed Design Required
Isl-R-05	Repair	Islampur	708	422245128	Khan ghona pry. School road	New	0.708 km road Rehabilitation (Proposed from Local People)	Ward- 09 of Islampur union	106	Mid Term	High	Detailed Design Required
Pok-R-02	Repair	Pokkhali	3297	422243016	Pokkhali UP office Gomatali Bazar Road	New	3.297 km road Rehabilitation (Proposed from Local People)	Ward-04,08 of Pokkhali Union	495	Mid Term	High	Detailed Design Required
Pok-R-04	Repair	Pokkhali	947	422244048	Muslim Bazar- Pokkhali High school via Shikderpara Road	New	0.947 km road Rehabilitation (Proposed from Local People)	Ward-02 of Pokkhali Union	150	Mid Term	High	Detailed Design Required
Pok-R-05	Repair	Pokkhali	1187	422244049	Naykondia Utterparasouthpara Road	New	1.187 km road Rehabilitation (Proposed from Local People)	Ward-06 of Pokkhali Union	178	Mid Term	High	Detailed Design Required
Pok-R-06	Repair	Pokkhali	544	422245233	East Gomatali Bridge to Hafaz micher ghona road	New	0.544 km road Rehabilitation (Proposed from Local People)	Ward-09 of Pokkhali Union	82	Mid Term	High	Detailed Design Required
Pok-R-07	Repair	Pokkhali	1038	422245480	West Gomatali Bazar to Charpara 6 No Sluice Gate Road	New	1.038 km road Rehabilitation (Proposed from Local People)	Ward-07 of Pokkhali Union	156	Mid Term	High	Detailed Design Required
ISB-R-01	Repair	Islamabad	1116	422245037	Khodaibari Road	New	1.116 km road Rehabilitation (Proposed from Local People)	Ward-07 of Islamabad Union	200	Mid Term	Low	Detailed Design Required
ISB-R-02	Repair	Islamabad	816	422245109	Boalkhali east side Road	New	0.816 km road Rehabilitation (Proposed from Local People)	Ward-05,06,07 of Islamabad Union	215	Mid Term	Low	Detailed Design Required
EDG-R-01	Repair	Idgaon	840	422245411	Hafaz Ahmed chodhary road	New	0.840 km road Rehabilitation (Proposed from Local People)	Ward-06 of Eidgaon Union	13	Mid Term	Low	Detailed Design Required
EDG-R-02	Repair	Idgaon	367	422245411	Hafaz Ahmed chodhary road	New	0.367 km road Rehabilitation (Proposed from Local People)	Ward-06 of Eidgaon Union	55	Mid Term	Low	Detailed Design Required
EDG-R-03	Repair	Idgaon	1472	422245080	Kalirchara jangle machuakhali Rd.	New	1.472 km road Rehabilitation (Proposed from Local People)	Ward-05,06 of Eidgaon Union	221	Mid Term	Midum	Detailed Design Required
EDG-R-04	Repair	Idgaon	1432	422245236	Kalichara Utterpara Arakan main road to sha sayedabad jama mosque road	New	1.432 km road Rehabilitation (Proposed from Local People)	Ward-05 of Eidgaon Union	215	Mid Term	Midum	Detailed Design Required
EDG-R-05	Repair	Idgaon	1475	422245033	Chanderghona Rd	New	1.475 km road Rehabilitation (Proposed from Local People)	Ward-04,07 of Eidgaon Union	221	Mid Term	Midum	Detailed Design Required
EDG-R-06	Repair	Idgaon	231	422245033	Chanderghona Rd	New	0.231 km road Rehabilitation (Proposed from Local People)	Ward-07 of Eidgaon Union	35	Mid Term	Low	Detailed Design Required
EDG-R-07	Repair	Idgaon	3092	422244017	Bhomoria Ghona Road	New	3.092 km road Rehabilitation (Proposed from Local People)	Ward-08,09 of Eidgaon Union	464	Mid Term	High	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
EDG-R-08	Repair	Idgaon	413	422245029	North mizpara Road	New	0.413 km road Rehabilitation (Proposed from Local People)	Ward-02 of Eidgaon Union	62	Mid Term	Midum	Detailed Design Required
EDG-R-09	Repair	Idgaon	680	422245412	R&H road to south majpara via chowfaldandi road	New	0.608 km road Rehabilitation (Proposed from Local People)	Ward-03 of Eidgaon Union	102	Mid Term	Midum	Detailed Design Required
JAL-R-01	Repair	Jalalabad	1382	422245606 (New)	Mujibur Rahman School Road	New	1.382 km road Rehabilitation (Proposed from Local People)	Ward-08,09 of Jalalbad Union	207	Mid Term	High	Detailed Design Required
CHO-R-01	Repair	Chaufaldandi	1313	422245028	Khonker Khil Road	New	1.313 km road Rehabilitation (Proposed from Local People)	Ward-09 of Chawfaldandi Union	197	Mid Term	High	Detailed Design Required
CHO-R-03	Repair	Chaufaldandi	1033	422245361	Nutun mohal Chara Battala to Rasterchararoad	New	1.033 km road Rehabilitation (Proposed from Local People)	Ward-08 of Chawfaldandi Union	155	Mid Term	Midum	Detailed Design Required
CHO-R-04	Repair	Chaufaldandi	803	422245307	Primary school to Abur house road	New	0.803 km road Rehabilitation (Proposed from Local People)	Ward-06 of Chawfaldandi Union	120	Mid Term	Midum	Detailed Design Required
CHO-R-05	Repair	Chaufaldandi	1802	422245114	Hider Para Road	New	1.802 km road Rehabilitation (Proposed from Local People)	Ward-06,07 of Chawfaldandi Union	270	Mid Term	High	Detailed Design Required
CHO-R-06	Repair	Chaufaldandi	483	422245351	BISCCK to Shikderpar a Bridge	New	0.483 km road Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	72	Mid Term	Midum	Detailed Design Required
CHO-R-11	Repair	Chaufaldandi	252	422245305	Sagorpara mosque to sokkur member shope road	New	0.252 km road Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	38	Mid Term	Low	Detailed Design Required
Bha-R-01	Repair	Bharuakhali	2078	422245268	Sabakpara Road	New	2.078 km road Rehabilitation (Proposed from Local People)	Ward-1,2,3 of Bharuakhali Union	312	Mid Term	High	Detailed Design Required
Bha-R-02	Repair	Bharuakhali	1041	422245017	Chowchala mura Road	New	1.041 km road Rehabilitation (Proposed from Local People)	Ward - 04 of Bharuakhali Union	156	Mid Term	High	Detailed Design Required
Bha-R-03	Repair	Bharuakhali	1138	422243019	Bharuakhali UP OfficeKhamarpara bazar Road	New	1.138 km road Rehabilitation (Proposed from Local People)	Ward- 6 & 8 of Bharuakhali Union	171	Mid Term	High	Detailed Design Required
Bha-R-04	Repair	Bharuakhali	1558	422245088	Karim Sikder Para Ultakhali Road	New	1.558 km road Rehabilitation (Proposed from Local People)	Ward-06 of Bharuakhali Union	234	Mid Term	High	Detailed Design Required
Bha-R-05	Repair	Bharuakhali	554	422245018	Chaingo mura Road	New	0.554 km road Rehabilitation (Proposed from Local People)	Ward-6 of Bharuakhali Union	83	Mid Term	Midum	Detailed Design Required
Bha-R-06	Repair	Bharuakhali	937	422245589(New)	Karim Shikder para to Taher alom Bhuiyan's House Road	New	0.937 km road Rehabilitation (Proposed from Local People)	Ward-6-7 of Bharuakhali Union	141	Mid Term	Midum	Detailed Design Required
Bha-R-07	Repair	Bharuakhali	1198	422245299	Ultakhali Ghona Road	New	1.198 km road Rehabilitation (Proposed from Local People)	Ward-09 of Bharuakhali Union	180	Mid Term	High	Detailed Design Required
Bha-R-08	Repair	Bharuakhali	1099	422245300	DC Road to Guccha Gram Road	New	1.099 km road Rehabilitation (Proposed from Local People)	Ward-09 of Bharuakhali Union	165	Mid Term	High	Detailed Design Required
PMK-R-1	Repair	Patali Machhuakhali	1772	422244001	P.M Khali-Ghona para-Rd	New	1.772 km road Rehabilitation (Proposed from Local People)	Ward 1,2,4, of Patali Machhuakhali Union.	176	Mid Term	High	Detailed Design Required
PMK-R-2	Repair	Patali Machhuakhali	954	422244045	Charag ghor BazarRubber Dam via pachim jumchari pry. School Road	New	0.954 km road Rehabilitation (Proposed from Local People)	Ward - 4-5 of Patali Machhuakhali Union.	150	Mid Term	High	Detailed Design Required
Khu-R-01	Repair	Khurushkul	955	422245121	Khurushkul Jaliapar a Road	New	0.955 km road Rehabilitation (Proposed from Local People)	Ward-1 of Khurushkul Union	143	Mid Term	High	Detailed Design Required
Khu-R-02	Repair	Khurushkul	838	422244005	Dailpara Bazar to Annodhara Abason Road	New	0.838 km road Rehabilitation (Proposed from Local People)	Ward-1,3 of Khurushkul Union	126	Mid Term	High	Detailed Design Required

Attachment 1-19

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Khu-R-03	Repair	Khurushkul	569	422245147	Pacherghona Road	New	0.569 km road Rehabilitation (Proposed from Local People)	Ward-2,3 of Khurushkul Union	85	Mid Term	High	Detailed Design Required
Khu-R-04	Repair	Khurushkul	1281	422243014	Khurushkul UP office Khurushkul GC road (Khurushkul DC) Road	New	1.281 km road Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	192	Mid Term	High	Detailed Design Required
Khu-R-06	Repair	Khurushkul	307	422245146	Rasterpara Road	New	0.307 km road Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	46	Mid Term	High	Detailed Design Required
Khu-R-07	Repair	Khurushkul	293	422245151	Nurul Amin Shope to oupda Road	New	0.293 km road Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	44	Mid Term	High	Detailed Design Required
Khu-R-08	Repair	Khurushkul	242	422245147	Pacherghona Road	New	0.242 km road Rehabilitation (Proposed from Local People)	Ward-2 of Khurushkul Union	36	Mid Term	High	Detailed Design Required
Khu-R-09	Repair	Khurushkul	415	422245237	Adrasha gora to adsha mosque road	New	0.415 km road Rehabilitation (Proposed from Local People)	Ward-6 of Khurushkul Union	62	Mid Term	High	Detailed Design Required
Khu-R-10	Repair	Khurushkul	423	422244004	Mamun para-Road	New	0.423 km road Rehabilitation (Proposed from Local People)	Ward-5 of Khurushkul Union	63	Mid Term	High	Detailed Design Required
Khu-R-11	Repair	Khurushkul	1174	422243012	Zilonja UP office Alirjahan Bazar Road via Ghatkulia para Sonkhola Bazar Road	New	1.174 km road Rehabilitation (Proposed from Local People)	Ward-9 of Khurushkul union	18	Mid Term	High	Detailed Design Required
Khu-R-12	Proposed	Khurushkul	814	422245240	Rulla khal to miacher 6 no project road	New	0.814 km road Rehabilitation (Proposed from Local People)	Ward-9 of Khurushkul Union	208	Mid Term	High	Detailed Design Required
Khu-R-13	Proposed	Khurushkul	572	422245240	Rulla khal to miacher 6 no project road	New	0.572 km road Rehabilitation (Proposed from Local People)	Ward-9 of Khurushkul union	86	Mid Term	High	Detailed Design Required
Jhil-R-01	Repair	Jhilwanja	1009	422245005	South Kharulia Pry. School Rd.	New	1.099 km road Rehabilitation (Proposed from Local People)	Ward-08 of Jhilwanja Union	151	Mid Term	High	Detailed Design Required
Jhil-R-02	Repair	Jhilwanja	507	422245485	Link road Mosr a fi a hafzokahana to graved ner shikder para road	New	0.507 km road Rehabilitation (Proposed from Local People)	Ward-08 of Jhilwanja Union	76	Mid Term	High	Detailed Design Required
Jhil-R-03	Repair	Jhilwanja	889	422245180	Baparipara jafar compani Road	New	0.889 km road Rehabilitation (Proposed from Local People)	Ward-06-08 of Jhilwanja Union	133	Mid Term	High	Detailed Design Required
Jhil-R-04	Repair	Jhilwanja	335	422245175	Chanderpara Abdur Rahaman member Road	New	0.335 km road Rehabilitation (Proposed from Local People)	Ward-05 of Jhilwanja Union	50	Mid Term	High	Detailed Design Required
Jhil-R-05	Repair	Jhilwanja	1107	422245489	Mohiripara-Link Road via cox's Bazar colladge hostel road	New	1.107 km road Rehabilitation (Proposed from Local People)	Ward-04 of Jhilwanja Union	166	Mid Term	High	Detailed Design Required
Isl-R-06	Repair	Islampur	3000	422244059	Nutun Office Bazar to Dulafakir Mazar Via Napithkhali Primary Road	New	3.00 km road Rehabilitation (Proposed from Upazila Office)	Islampur Union	450	Mid Term	High	Detailed Design Required
Isl-R-07	Repair	Islampur	1000	422245434	Battala Primary School to Chara Batgach Road	New	1.00 km road Rehabilitation (Proposed from Upazila Office)	Ward-07 of Islampur Union	150	Mid Term	High	Detailed Design Required
EDG-R-10	Repair	Idgaon	2000	422245036	Bhomoria Ghona Primary School Road	New	2.00 km road Rehabilitation (Proposed from Upazila Office)	Eidgaon Union	300	Mid Term	High	Detailed Design Required
PMK-R-3	Repair	Patali Machhuakhali	2635	422244079 New	Patoli Connecting Road	New	2.635 km road Rehabilitation (Proposed from Upazila Office)	Ward-06 of Patali Machhuakhali Union.	395	Mid Term	High	Detailed Design Required
PMK-R-4	Repair	Patali Machhuakhali	1044	422244082 New	Mohsiniapara Bazar Road	New	1.044 km road Rehabilitation (Proposed from Upazila Office)	Ward-07 of Patali Machhuakhali Union.	157	Mid Term	High	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
PMK-R-5	Repair	Patali Machhuakhali	267	422244083 New	Mohsiniapara Gps Road	New	0.267 km road Rehabilitation (Proposed from Upazila Office)	Ward-07 of Patali Machhuakhali Union.	40	Mid Term	High	Detailed Design Required
PMK-R-6	Repair	Patali Machhuakhali	1195	422244084 New	Mohsiniapara Central Mosque Road	New	1.195 km road Rehabilitation (Proposed from Upazila Office)	Ward-07 of Patali Machhuakhali Union.	179	Mid Term	High	Detailed Design Required
PMK-R-7	Repair	Patali Machhuakhali	1402	422244085 New	Dhawnkhal Madarasha to Khatalia Bazar Road	New	1.402 km road Rehabilitation (Proposed from Upazila Office)	Ward-07 of Patali Machhuakhali Union.	210	Mid Term	High	Detailed Design Required
Jhil-R-06	Repair	Jhilwanja	600	422245062	Mohuriapara Primary School Road	New	0.600 km road Rehabilitation (Proposed from Upazila Office)	Ward-04 of Jhilwanja Union	90	Mid Term	High	Detailed Design Required

Project by DDM

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Pok-R-01	Repair	Pokkhali	477	-	Uttor Ghomatoli Cyclone Shelter Access Road	New	0.477 km road Rehabilitation (Proposed from Local People)	Ward-08 of Pokkhali Union	72	Mid Term	High	Detailed Design Required
Pok-R-03	Repair	Pokkhali	579	-	Moulavi Shah Alam's House to North-East Gomatoli (Khehar Mat) Road	New	0.579 km road Rehabilitation (Proposed from Local People)	Ward-04,07,09 of Pokkhali Union	87	Mid Term	High	Detailed Design Required
JAL-R-02	Repair	Jalalabad	1203	-	Alongir's Shop to Wapda Road	New	1.203 km road Rehabilitation (Proposed from Local People)	Ward-03,04 of Jalalabad Union	180	Mid Term	High	Detailed Design Required
CHO-R-02	Repair	Chaufaldandi	570	-	Noton Mohol Bazar to Napit para-Road	New	0.507km road Rehabilitation (Proposed from Local People)	Ward-08 of Chawfaldandi Union	86	Mid Term	Midum	Detailed Design Required
CHO-R-08	Repair	Chaufaldandi	322	-	Shah Alam house to Bela's House Road	New	0.322 km road Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	48	Mid Term	Low	Detailed Design Required
CHO-R-09	Repair	Chaufaldandi	239	-	Boktiar Ahmed House to Lal Ghoda Road	New	0.239 km road Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	36	Mid Term	Low	Detailed Design Required
CHO-R-10	Repair	Chaufaldandi	385	-	Nurul Azimer Shop's to Moloi Bazar Road	New	0.385 km road Rehabilitation (Proposed from Local People)	Ward-01,02 of Chawfaldandi Union	58	Mid Term	Low	Detailed Design Required
CHO-R-12	Repair	Chaufaldandi	820	-	Mohila Member's House to Abdullah 's House Road	New	0.820 km road Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	123	Mid Term	Low	Detailed Design Required
CHO-R-07	Repair	Chaufaldandi	214	-	Road 07, From Salamoter bari to Bashi bohoddarer House	New	0.214 km road Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	32	Mid Term	Low	Detailed Design Required
Khu-R-14	Proposed	Khurushkul	211	-	Main Road to Kulia Para Road	New	0.211 km road New Construction (Proposed from Local People)	Ward-9 of Khurushkul Union	32	Mid Term	High	Detailed Design Required
Khu-R-15	Proposed	Khurushkul	182	-	Nojir Ahmeder Bari to Abu bakkarer Bari Road	New	0.182 km road New Construction (Proposed from Local People)	Ward-1 of Khurushkul Union	27	Mid Term	High	Detailed Design Required
Khu-R-05	Repair	Khurushkul	187	-	North Posar Ghona Moulavi Abdu Shukkurer Badi to Romzan Alir Bari Road	New	0.187 km road Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	28	Mid Term	High	Detailed Design Required

Project by Cox's Bazar Paurashava

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-R-27	Repair	CB Paurashava	235	R-14	Road, Noor Bosor Sawdagor to Moktar Sawdagor (Najirartek)	New	0.235 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	40	Mid Term	High	Detailed Design Required
CXP-R-32	Repair	CB Paurashava	2098	R-19	Road, Basinna Para to Somiti para 3 No. Goli Rastar Matha	New	2.098 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	357	Mid Term	High	Detailed Design Required
CXP-R-54	Repair	CB Paurashava	789	R-51	Road, Bon Rupa Para Main Road to Moulana Kamaler Bari	New	0.789 km road Rehabilitation (Proposed from Local People)	Ward-05 of Cox's Bazar Paurashava	134	Mid Term	High	Detailed Design Required
CXP-R-57	Repair	CB Paurashava	1335	R-55	Road, Upazila (Harvard College) to Peta Sawdagor Para Connecting Road	New	1.335 km road Rehabilitation (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	227	Mid Term	High	Detailed Design Required
CXP-R-58	Repair	CB Paurashava	1375	R-56	Road, Uttar Peta Sawdagor Para Road	New	1.375 km road Rehabilitation (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	234	Mid Term	High	Detailed Design Required
CXP-R-59	Repair	CB Paurashava	471	R-57	Road, Purbo Barua Para to Sardar Para Road	New	0.471 km road Rehabilitation (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	80	Mid Term	High	Detailed Design Required
CXP-R-60	Repair	CB Paurashava	440	R-58	Road, Uttar Shikder Para Road	New	0.440 km road Rehabilitation (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	75	Mid Term	High	Detailed Design Required
CXP-R-61	Repair	CB Paurashava	553	R-59	Road, Mollik Para Road	New	0.553 km road Rehabilitation (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	94	Mid Term	High	Detailed Design Required
CXP-R-67	Repair	CB Paurashava	590	R-67	Road, Khaja Manjil Road	New	0.590 km road Rehabilitation (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	100	Mid Term	High	Detailed Design Required
CXP-R-28	Repair	CB Paurashava	258	R-15	Road, Giyas Uddiner doka to kamal Sawdagorer basa (Najirartek)	New	0.258 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	44	Mid Term	High	Detailed Design Required
CXP-R-29	Repair	CB Paurashava	202	R-16	Road, Baitul Mamun Jame Masjid to Belal er Doka to Badshar Doka	New	0.202 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	34	Mid Term	High	Detailed Design Required
CXP-R-30	Repair	CB Paurashava	151	R-17	Road, Siraj er Doka to Sayed Alom er Basa	New	0.151 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	26	Mid Term	High	Detailed Design Required
CXP-R-31	Repair	CB Paurashava	217	R-18	Road, Kaderer doka to Najirar tek Mass Ghat	New	0.217 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	37	Mid Term	High	Detailed Design Required
CXP-R-33	Repair	CB Paurashava	97	R-20	Road, Passim Kutubdia Para 06 No. Goli	New	0.097 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	16	Mid Term	High	Detailed Design Required
CXP-R-34	Repair	CB Paurashava	331	R-21	Road, Passim Kutubdia Para 03 No. Goli	New	0.331 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	56	Mid Term	High	Detailed Design Required
CXP-R-35	Repair	CB Paurashava	110	R-22	Road, Passim Kutubdia Para 02 No. Goli Kefayat Ullah House	New	0.110 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	19	Mid Term	High	Detailed Design Required
CXP-R-36	Repair	CB Paurashava	578	R-23	Road, Samiti Para 7 No Goli	New	0.578 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	98	Mid Term	High	Detailed Design Required
CXP-R-37	Repair	CB Paurashava	287	R-24	Road, Samiti Para 6 No Goli	New	0.287 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	49	Mid Term	High	Detailed Design Required
CXP-R-38	Repair	CB Paurashava	254	R-25	Road, Samiti Para 5 No Goli	New	0.254 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	43	Mid Term	High	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-R-39	Repair	CB Paurashava	186	R-26	Road, Samiti Para 1No Goli	New	0.186 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	32	Mid Term	High	Detailed Design Required
CXP-R-40	Repair	CB Paurashava	317	R-27	Road, Passim Kutubdia Para 06 No. Goli	New	0.317 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	54	Mid Term	High	Detailed Design Required
CXP-R-41	Repair	CB Paurashava	230	R-28	Road, Passim Kutubdia Para 09 No. Goli	New	0.230 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	39	Mid Term	High	Detailed Design Required
CXP-R-42	Repair	CB Paurashava	227	R-29	Road, Passim Kutubdia Para 07 No. Goli	New	0.227 km road Rehabilitation (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	39	Mid Term	High	Detailed Design Required
CXP-R-43	Repair	CB Paurashava	51	R-36	Road, Minto Baper Barir Road	New	0.051km road Rehabilitation (Proposed from Local People)	Ward-02 of Cox's Bazar Paurashava	9	Mid Term	High	Detailed Design Required
CXP-R-44	Repair	CB Paurashava	51	R-37	Road, Pacchim Notun Baharchora Kamal Sowdagar Road	New	0.051 km road Rehabilitation (Proposed from Local People)	Ward-02 of Cox's Bazar Paurashava	9	Mid Term	High	Detailed Design Required
CXP-R-45	Repair	CB Paurashava	129	R-38	Road, Purbo Notun Baharchora Josim House Road	New	0.129 km road Rehabilitation (Proposed from Local People)	Ward-02 of Cox's Bazar Paurashava	22	Mid Term	High	Detailed Design Required
CXP-R-46	Repair	CB Paurashava	142	R-39	Road, Boro Bazar Road	New	0.142 km road Rehabilitation (Proposed from Local People)	Ward-03 of Cox's Bazar Paurashava	24	Mid Term	High	Detailed Design Required
CXP-R-47	Repair	CB Paurashava	227	R-40	Road, Noor Para Baro Chele Store	New	0.227 km road Rehabilitation (Proposed from Local People)	Ward-03 of Cox's Bazar Paurashava	39	Mid Term	High	Detailed Design Required
CXP-R-48	Repair	CB Paurashava	203	R-41	Road, Noor Para to Shaw Mill	New	0.203 km road Rehabilitation (Proposed from Local People)	Ward-03 of Cox's Bazar Paurashava	35	Mid Term	High	Detailed Design Required
CXP-R-49	Repair	CB Paurashava	197	R-42	Road, Bangubondhu Road	New	0.197 km road Rehabilitation (Proposed from Local People)	Ward-03 of Cox's Bazar Paurashava	33	Mid Term	High	Detailed Design Required
CXP-R-50	Repair	CB Paurashava	250	R-43	Road, Peskar Para Chowmohoni to Rahim Chowdhury Bari	New	0.250 km road Rehabilitation (Proposed from Local People)	Ward-04 of Cox's Bazar Paurashava	43	Mid Term	High	Detailed Design Required
CXP-R-51	Repair	CB Paurashava	171	R-44	Road, Mas Bazar Culvert to Abujar Al Gifany Academy Road	New	0.171 km road Rehabilitation (Proposed from Local People)	Ward-04 of Cox's Bazar Paurashava	29	Mid Term	High	Detailed Design Required
CXP-R-52	Repair	CB Paurashava	90	R-45	Road, Maiz Bandar Daira Sharif to Sohor Bikolpo Road	New	0.090 km road Rehabilitation (Proposed from Local People)	Ward-04 of Cox's Bazar Paurashava	15	Mid Term	Low	Detailed Design Required
CXP-R-53	Repair	CB Paurashava	146	R-46	Road, Maiz Bandar Daira Sharif to Monsor Comissioner Er Bari	New	0.146 km road Rehabilitation (Proposed from Local People)	Ward-04 of Cox's Bazar Paurashava	25	Mid Term	Low	Detailed Design Required
CXP-R-55	Repair	CB Paurashava	359	R-52	Road, Bon Rupa Para Rumpar Bari to Mondir	New	0.359 km road Rehabilitation (Proposed from Local People)	Ward-05 of Cox's Bazar Paurashava	61	Mid Term	Low	Detailed Design Required
CXP-R-56	Repair	CB Paurashava	138	R-53	Road, SM Para Kona Para to Bot Gas Tola	New	0.138 km road Rehabilitation (Proposed from Local People)	Ward-05 of Cox's Bazar Paurashava	23	Mid Term	Low	Detailed Design Required
CXP-R-62	Repair	CB Paurashava	227	R-60	Road, Nap-Ponja Para Road	New	0.227 km road Rehabilitation (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	39	Mid Term	Low	Detailed Design Required
CXP-R-63	Repair	CB Paurashava	162	R-61	Road, Pollania Kata Road	New	0.162 km road Rehabilitation (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	28	Mid Term	Low	Detailed Design Required
CXP-R-64	Repair	CB Paurashava	190	R-64	Road, Shikder Bazar to Basa Miyar Ghona Road	New	0.190 km road Rehabilitation (Proposed from Local People)	Ward-7 of Cox's Bazar Paurashava	32	Mid Term	Low	Detailed Design Required
CXP-R-65	Repair	CB Paurashava	228	R-65	Road, Dokkin Rumaliarchora (Goror Alda) Road	New	0.228 km road Rehabilitation (Proposed from Local People)	Ward-7 of Cox's Bazar Paurashava	39	Mid Term	Low	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-R-66	Repair	CB Paurashava	64	R-66	Road, Kang Para Buddho Mundir Road	New	0.064km road Rehabilitation (Proposed from Local People)	Ward-8 of Cox's Bazar Paurashava	11	Mid Term	Low	Detailed Design Required
CXP-R-68	Repair	CB Paurashava	53	R-68	Road, Shofir Barir Road	New	0.053 km road Rehabilitation (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	9	Mid Term	Low	Detailed Design Required
CXP-R-69	Repair	CB Paurashava	80	R-69	Road, Nurul Islam er Barir Road	New	0.080 km road Rehabilitation (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	14	Mid Term	Low	Detailed Design Required
CXP-R-70	Repair	CB Paurashava	106	R-70	Road, Jabbarer Bari to Bulbul Akter er Bari	New	0.106 km road Rehabilitation (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	18	Mid Term	Low	Detailed Design Required
CXP-R-71	Repair	CB Paurashava	90	R-71	Road, Baitul Ijjat to Noor Mohammad Mistri Barir Road	New	0.09 km road Rehabilitation (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	15	Mid Term	Low	Detailed Design Required
CXP-R-72	Repair	CB Paurashava	99	R-72	Road, Baitul Ijjat Road	New	0.099 km road Rehabilitation (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	17	Mid Term	Low	Detailed Design Required
CXP-R-73	Repair	CB Paurashava	85	R-73	Road, Nuru Mistri House Road	New	0.085 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	14	Mid Term	Low	Detailed Design Required
CXP-R-74	Repair	CB Paurashava	73	R-74	Road, Abdul Hakim House to Shahana Akter House Road	New	0.073 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	12	Mid Term	Low	Detailed Design Required
CXP-R-75	Repair	CB Paurashava	57	R-75	Road, Shah Alam Master House to Ibrahim House Road	New	0.057 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	10	Mid Term	Low	Detailed Design Required
CXP-R-76	Repair	CB Paurashava	91	R-76	Road, Saimon Amin House Road	New	0.091 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	15	Mid Term	Low	Detailed Design Required
CXP-R-77	Repair	CB Paurashava	95	R-77	Road, Babul Mistri House Road	New	0.095 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	16	Mid Term	Low	Detailed Design Required
CXP-R-78	Repair	CB Paurashava	53	R-78	Road, Rajur Jaiga to Babulur Badir Road	New	0.053 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	9	Mid Term	Low	Detailed Design Required
CXP-R-79	Repair	CB Paurashava	67	R-79	Road, Khaja Manjiler Dokkin Pasher Uporer Pahar Road	New	0.067 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	11	Mid Term	Low	Detailed Design Required
CXP-R-80	Repair	CB Paurashava	54	R-80	Road, Moulavi Para Moktar Mazhir Badir Samner Road	New	0.054 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	9	Mid Term	Low	Detailed Design Required
CXP-R-81	Repair	CB Paurashava	43	R-81	Road, Abu Rashid House to Uporer Putur Badir Road	New	0.043 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	7	Mid Term	Low	Detailed Design Required
CXP-R-82	Repair	CB Paurashava	56	R-82	Road, Adv Didar House Road	New	0.056 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	10	Mid Term	Low	Detailed Design Required
CXP-R-83	Repair	CB Paurashava	80	R-83	Road, Purbo Ghonar Para Abu Taher Mistri Badir Samner Road	New	0.080 km road Rehabilitation (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	14	Mid Term	Low	Detailed Design Required
CXP-R-84	Repair	CB Paurashava	70	R-84	Road, Naharun Nesar Bari to Giyas Uddin er Bari	New	0.070 km road Rehabilitation (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	12	Mid Term	Low	Detailed Design Required
CXP-R-85	Repair	CB Paurashava	43	R-85	Road, Purbo Mohajer Para Jafor Alomer Bari to Nur Ayesha Bari	New	0.043 km road Rehabilitation (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	7	Mid Term	Low	Detailed Design Required
CXP-R-86	Repair	CB Paurashava	40	R-86	Road, Jafor Alomer Bari to Kala Mia Mazhir Bari	New	0.040 km road Rehabilitation (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	7	Mid Term	Low	Detailed Design Required
CXP-R-87	Repair	CB Paurashava	41	R-87	Road, Eidgah Mosjider Possim Paser Road	New	0.041 km road Rehabilitation (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	7	Mid Term	Low	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-R-88	Repair	CB Paurashava	204	R-88	Road, Bahadurer Bari to Idris Moyar Bari	New	0.204 km road Rehabilitation (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	35	Mid Term	Low	Detailed Design Required
CXP-R-89	Repair	CB Paurashava	128	R-89	Road, Zila Daira Judger Banglu to Sudep Babar Bari	New	0.128 km road Rehabilitation (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	22	Mid Term	Low	Detailed Design Required
CXP-R-90	Repair	CB Paurashava	14	R-90	Road, General Hospitaler Uttar Paser Road	New	0.014 km road Rehabilitation (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	2	Mid Term	Low	Detailed Design Required
CXP-R-91	Repair	CB Paurashava	60	R-91	Road, Noor Ahmed Road Police Super Quarter to Hill Down to Ahmed Sardar House	New	0.060 km road Rehabilitation (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	10	Mid Term	Low	Detailed Design Required
CXP-R-92	Repair	CB Paurashava	75	R-92	Road, Hill Down Masjid to DC Quarter Road	New	0.075 km road Rehabilitation (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	13	Mid Term	Low	Detailed Design Required
CXP-R-93	Repair	CB Paurashava	235	R-93	Road, Saikot Girls School Road	New	0.235 km road Rehabilitation (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	40	Mid Term	Low	Detailed Design Required
CXP-R-94	Repair	CB Paurashava	184	R-94	Road, Goyamtoli Masjid to Hafez Abdul Salam House Road	New	0.184 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	31	Mid Term	Low	Detailed Design Required
CXP-R-95	Repair	CB Paurashava	225	R-95	Road, Jam Jam Hatchery to Koborostan Road	New	0.225 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	38	Mid Term	Low	Detailed Design Required
CXP-R-96	Repair	CB Paurashava	54	R-96	Road, Hotel Suite Sadaf to Abdu Rohim's House	New	0.054 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	9	Mid Term	Low	Detailed Design Required
CXP-R-97	Repair	CB Paurashava	210	R-97	Road, Haji Ajmot Ali Member House to Jirjiri Para Boundary Road	New	0.210 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	36	Mid Term	Low	Detailed Design Required
CXP-R-98	Repair	CB Paurashava	190	R-98	Road, Kolatoli Main Road to Nazir Sawdagor House Road	New	0.190 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	32	Mid Term	Low	Detailed Design Required
CXP-R-99	Repair	CB Paurashava	88	R-99	Road, Kolatoli Main Road to Nazir Sawdagor House Road	New	0.088 km road Rehabilitation (Proposed from Local People)	Ward-12. of Cox's Bazar Paurashava	15	Mid Term	Low	Detailed Design Required
CXP-R-100	Repair	CB Paurashava	142	R-100	Road, Nurul Islam Typist House to Army Sayed House Road	New	0.142 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	24	Mid Term	Low	Detailed Design Required
CXP-R-101	Repair	CB Paurashava	52	R-101	Road, Comandar Sorwar House to Rojina' House Road	New	0.052 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	9	Mid Term	Low	Detailed Design Required
CXP-R-102	Repair	CB Paurashava	80	R-102	Road, Kashem Kolifa's Office to Koborostan Road	New	0.080 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	14	Mid Term	Low	Detailed Design Required
CXP-R-103	Repair	CB Paurashava	125	R-103	Road, Light House Shohidullah House to Anowar House Road	New	0.125 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	21	Mid Term	Low	Detailed Design Required
CXP-R-104	Repair	CB Paurashava	72	R-104	Road, Light House Road to Abul Kalam Driver House Road	New	0.072 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	12	Mid Term	Low	Detailed Design Required
CXP-R-105	Repair	CB Paurashava	303	R-105	Road, Amir Hossain Sowdagor house to Bagh Ghona Road	New	0.303 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	52	Mid Term	Low	Detailed Design Required
CXP-R-106	Repair	CB Paurashava	129	R-106	Road, Light House Masjid to Kalor House Road	New	0.129 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	22	Mid Term	Low	Detailed Design Required
CXP-R-107	Repair	CB Paurashava	120	R-107	Road, Uttar light House Para Monor House Road	New	0.120 km road Rehabilitation (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	20	Mid Term	Low	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-R-01	Proposed	CB Paurashava	727	R-1	Basinna Para Baitul Ferdous Mosque to South Mostaque Para Road	New	0.727 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	124	Mid Term	High	Detailed Design Required
CXP-R-02	Proposed	CB Paurashava	749	R-2	Kutub Bazar to Kaiser Shop Road	New	0.749 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	127	Mid Term	High	Detailed Design Required
CXP-R-03	Proposed	CB Paurashava	934	R-3	West Kutubdia Para Bhangar Mukh Babul House to Old Nazirar Tek Bazar Road	New	0.934 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	159	Mid Term	High	Detailed Design Required
CXP-R-04	Proposed	CB Paurashava	768	R-4	West Kutubdia para Bhangar Mukh to Somiti para-Road	New	0.768 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	131	Mid Term	High	Detailed Design Required
CXP-R-05	Proposed	CB Paurashava	348	R-5	Moddom Kutubdia Para Shamsul Alam House to Uttor Kutubdia para Toyob Shop Road	New	0.348 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	59	Mid Term	High	Detailed Design Required
CXP-R-06	Proposed	CB Paurashava	632	R-6	Moddom Kutubdia para Baitosh Shorof Mosque to Uttor Kutubdia Para Shah Mojidia Mosque Road	New	0.632 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	107	Mid Term	High	Detailed Design Required
CXP-R-07	Proposed	CB Paurashava	1245	R-7	Baitul Reduan Jame Masjid to DGFI Bhaban Road	New	1.245 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	212	Mid Term	High	Detailed Design Required
CXP-R-08	Proposed	CB Paurashava	131	R-8	Samiti Para 10 No. Nazur Ahmed House to Journalist Faruq House Road	New	0.131 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	22	Mid Term	High	Detailed Design Required
CXP-R-09	Proposed	CB Paurashava	174	R-9	Samiti para 9 No Goli, Belal House to Rahim House Road	New	0.174 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	30	Mid Term	High	Detailed Design Required
CXP-R-10	Proposed	CB Paurashava	236	R-10	Samiti Para 8 No Goli, Hafez Boshir House to Baitun Noor Jame Masjid Road	New	0.263 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	40	Mid Term	High	Detailed Design Required
CXP-R-11	Proposed	CB Paurashava	247	R-11	Samiti Para 3 No Goli, Cox Multimedia School Road	New	0.247 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	42	Mid Term	High	Detailed Design Required
CXP-R-12	Proposed	CB Paurashava	248	R-12	Samiti Para 2 No Goli, Mamun House to Nurul Islam House Road	New	0.248 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	42	Mid Term	High	Detailed Design Required
CXP-R-13	Proposed	CB Paurashava	222	R-13	Rani Pharmacy to Fodonardail Road	New	0.222 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	38	Mid Term	High	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-R-14	Proposed	CB Paurashava	248	R-30	CCDB to Watch Tower Road	New	0.248 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	42	Mid Term	High	Detailed Design Required
CXP-R-15	Proposed	CB Paurashava	172	R-31	Panirkup Para Mosque Road Road	New	0.172 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	29	Mid Term	High	Detailed Design Required
CXP-R-16	Proposed	CB Paurashava	400	R-32	Panirkup para to CCDB Road	New	0.400 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	68	Mid Term	High	Detailed Design Required
CXP-R-17	Proposed	CB Paurashava	294	R-33	Uttor Nuniar Chara Razia Member West Side to Tuitta Para Road	New	0.294 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	50	Mid Term	High	Detailed Design Required
CXP-R-18	Proposed	CB Paurashava	73	R-34	Road, From Uttor Nuniar Chara Nurul Houque Company Dock Road	New	0.73 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	12	Mid Term	High	Detailed Design Required
CXP-R-19	Proposed	CB Paurashava	48	R-35	Mohammad Hossain Road	New	0.48 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	8	Mid Term	High	Detailed Design Required
CXP-R-20	Proposed	CB Paurashava	386	R-47	BGB Camp Dr.Khalilur Rhaman Road,	New	0.386 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-05 of Cox's Bazar Paurashava	66	Mid Term	High	Detailed Design Required
CXP-R-21	Proposed	CB Paurashava	307	R-48	Rustom Alir Bari to Toha Medical Hall porjonto Road	New	0.307 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-05 of Cox's Bazar Paurashava	52	Mid Term	High	Detailed Design Required
CXP-R-22	Proposed	CB Paurashava	432	R-49	SM Para Road to TMC Girls High School hoye Beri Badh porjonto Road	New	0.432 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-05 of Cox's Bazar Paurashava	73	Mid Term	High	Detailed Design Required
CXP-R-23	Proposed	CB Paurashava	558	R-50	Mostafar Dokan to Mir Kashem er dokan porjonto Road	New	0.558 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-05 of Cox's Bazar Paurashava	95	Mid Term	High	Detailed Design Required
CXP-R-24	Proposed	CB Paurashava	403	R-54	Hashemia Madrasa to Rumailar Chora Police Camp Porjonto Road	New	0.403 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-06 of Cox's Bazar Paurashava	69	Mid Term	High	Detailed Design Required
CXP-R-25	Proposed	CB Paurashava	922	R-62	Shikdar Bazar to Zail Gate Road	New	0.922 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-07 of Cox's Bazar Paurashava	157	Mid Term	High	Detailed Design Required
CXP-R-26	Proposed	CB Paurashava	538	R-63	Bachamia Gona Road	New	0.538 km road Rehabilitation (Proposed from Paurashava Engineering Department)	Ward-07 of Cox's Bazar Paurashava	91	Mid Term	High	Detailed Design Required

c) Bridges

Project by LGED

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
EDG-Bri-01	Proposed	Idgaon	LGED Already Working on it	North Maizapara NasirKhaler Bridge	Continuing	30m New Construction (Proposed from Local People)	Ward-02 of Eidgaon Union	40	Mid Term	Low	Detailed Design Required
JAL-Bri-01	Repair	Jalalabad	422243002	Eid Goan G.C at MajiPara-Pokkhali (Faraze Para Road)	New	60m existing Bridge Repair & Rehabilitation (Proposed from Local People)	Ward-05 of Jalalabad Union	45	Mid Term	Midum	Detailed Design Required
Khu-Bri-01	Repair	Khurushkul	422245245	Mohajan house to Ruhullar dail-Abul kalam house road	New	18m bridge existing Repair & Rehabilitation (Proposed from Local People)	Ward-9 of Khurushkul Union	125	Mid Term	High	Detailed Design Required

Project by Cox's Bazar Paurashava

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-Bri-06	Repair	CB Paurashava	B-06	Bridge, Police Camp Bridge Rumallarchara 7 No word	New	25 m Repair & Rehabilitation (Proposed from Local People)	Ward-7 of Cox's Bazar Paurashava	83	Mid Term	High	Detailed Design Required
CXP-Bri-01	Proposed	CB Paurashava	B-01	Bridge, Modhom Kutubi Para Bridge	New	30m New Bridge Conostruction with (Proposed from Paurashava Engineering Department)	Ward-1 of Cox's Bazar Paurashava	101	Mid Term	High	Detailed Design Required
CXP-Bri-02	Proposed	CB Paurashava	B-02	Bridge, Maddayam Kutubdiapara Commissioner Bridge	New	32m New Bridge Conostruction (Proposed from Paurashava Engineering Department)	Ward-1 of Cox's Bazar Paurashava	107	Mid Term	High	Detailed Design Required
CXP-Bri-03	Proposed	CB Paurashava	B-03	Bridge, Darul Kutub Academy Bridge	New	25m New Bridge Conostruction (Proposed from Paurashava Engineering Department)	Ward-1 of Cox's Bazar Paurashava	83	Mid Term	High	Detailed Design Required
CXP-Bri-04	Proposed	CB Paurashava	B-04	Bridge, Kutubdiapara Boro bridge	New	18m New Bridge Conostruction (Proposed from Paurashava Engineering Department)	Ward-1 of Cox's Bazar Paurashava	63	Mid Term	High	Detailed Design Required
CXP-Bri-05	Proposed	CB Paurashava	B-05	Bridge, Kutubdiapara Choto Bridge	New	12 New Bridge Conostruction (Proposed from Paurashava Engineering Department)	Ward-1 of Cox's Bazar Paurashava	50	Mid Term	High	Detailed Design Required

d) Culverts

Project by LGED

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Pok-Cul-01	Proposed	Pokkhali	422245480	West Gomatali Bazar to Charpara 6 No Sluice Gate Road	New	New Construction (Proposed from Local People)	Ward-07 of Pokkhali Union	30	Mid Term	High	Detailed Design Required
Pok-Cul-02	Proposed	Pokkhali	422244072	Bypass Nurul Alam Co. House - (Ghatta Khali) Raj Ghat Road	New	New Construction (Proposed from Local People)	Ward-01,02 of Pokkhali Union	30	Mid Term	High	Detailed Design Required
ISB-Cul-01	Proposed	Islamabad	422245477	Gojalia Kadari mosque to Satgoriapara Road	New	New Construction (Proposed from Local People)	Ward-09 of Islamabad Union	30	Mid Term	High	Detailed Design Required
ISB-Cul-03	Repair	Islamabad	422245109	Boalkhali east side Rd.	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-04 of Islamabad Union	30	Short Term	High	Detailed Design Required
EDG-Cul-01	Proposed	Idgaon	422245411	Hafaz Ahmed Chowdhary Road	New	New Construction (Proposed from Local People)	Ward-06 of Eidgaon Union	30	Mid Term	High	Detailed Design Required

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/ pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
EDG-Cul-02	Proposed	Idgaon	422245411	Hafaz Ahmed Chowdhary Road	New	New Construction (Proposed from Local People)	Ward-06 of Eidgaon Union	30	Mid Term	High	Detailed Design Required
EDG-Cul-03	Proposed	Idgaon	422245411	Hafaz Ahmed Chowdhary Road	New	New Construction (Proposed from Local People)	Ward-07 of Eidgaon Union	30	Mid Term	High	Detailed Design Required
JAL-Cul-01	Repair	Jalalabad	422245405	Battali para Inside road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-01 of Jalalabad Union	30	Short Term	High	Detailed Design Required
JAL-Cul-02	Repair	Jalalabad	422245405	Battali para Inside road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-01 of Jalalabad Union	30	Short Term	High	Detailed Design Required
JAL-Cul-03	Repair	Jalalabad	422245396	South mohanvila Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-07 of Jalalabad Union	30	Short Term	High	Detailed Design Required
JAL-Cul-04	Repair	Jalalabad	422245606(New)	Mujibur Rahman School Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-08,09 of Jalalabad Union	30	Short Term	High	Detailed Design Required
CHO-Cul-01	Repair	Chaufalda ndi	422245022	Pukuria Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Chawfaldandi Union	30	Short Term	High	Detailed Design Required
Bha-Cul-02	Repair	Bharuakhali	422244031	Bharuakhali J.T Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-07 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
Bha-Cul-03	Repair	Bharuakhali	422244031	Bharuakhali J.T Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-07 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
Bha-Cul-04	Repair	Bharuakhali	422245018	Chaingo mura Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-09 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
Bha-Cul-06	Repair	Bharuakhali	422245268	Sabakpara Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-01 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
Bha-Cul-07	Repair	Bharuakhali	422245018	Chaingo mura Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-05 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
Bha-Cul-08	Repair	Bharuakhali	422245270	Shodagorpara a Mazirpara Road	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-02 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
PMK-Cul-01	Repair	Patali Machhuakali	422245509 (New)	Maizpara Noor Mohammad Road Adjacent Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward- 06 of Patali Machhuakali Union.	30	Short Term	High	Detailed Design Required
PMK-Cul-02	Repair	Patali Machhuakali	Approved in EMCRP	Mohsunia Para Road's Culvert	Continuing	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward- 07 of Patali Machhuakali Union.	30		High	Approved in ongoing DPP
PMK-Cul-03	Repair	Patali Machhuakali	Approved in EMCRP	Mohsinia Para Tower Adjacent Culvert	Continuing		Ward- 07 of Patali Machhuakali Union.	30		High	Approved in ongoing DPP
PMK-Cul-04	Repair	Patali Machhuakali	Approved in EMCRP	Mohsinia Para Football Field Culvert	Continuing	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward- 07 of Patali Machhuakali Union.	30		High	Approved in ongoing DPP
Khu-Cul-09	Repair	Khurushkuli	Constructed From LGSP-3 Pending	West Side of Eliyas Miya Bohoddar's house's Culvert	Continuing	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-2 of Khurushkul Union	30		High	Approved in ongoing DPP
Khu-Cul-10	Proposed	Khurushkuli	422245141	Sharth Candra Road	New	New Construction (Proposed from Local People)	Ward-9 of Khurushkul Union	30	Mid Term	High	Detailed Design Required

Project by RHD

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/ pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Khu-Cul-04	Repair	Khurushkuli	Under RHD		RHD Part	Repair or Rehabilitation (Proposed from Local People)	Ward-6 of Khurushkul Union	30		High	Have to inform with RHD

Project by DDM

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
ISB-Cul-02	Repair	Islamabad	-	North Sath Julia Kata Foyjul Karim Government Primary School's Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-04 of Islamad Union	30	Short Term	High	Detailed Design Required
CHO-Cul-02	Repair	Chaufaldandi	-	Shah Alam's House to Belal House Road Adjacent Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-02 of Chawfaldandi Union	30	Short Term	High	Detailed Design Required
CHO-Cul-03	Repair	Chaufaldandi	-	South Para Sogir villa's Adjacent Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-03 of Chawfaldandi Union	30	Short Term	High	Detailed Design Required
Bha-Cul-01	Repair	Bharuakhali	-	Anu Miya Bazar's Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-04 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
Bha-Cul-05	Repair	Bharuakhali	-	Beside Moulovi Younos House's Adjacent Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-05 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
Khu-Cul-01	Proposed	Khurushkul	-	Golaler Badir Pashe Culvert	New	New Construction (Proposed from Local People)	Ward-3 of Khurushkul Union	30	Mid Term	High	Detailed Design Required
Khu-Cul-02	Repair	Khurushkul	-	Tetua Goilla Baper Para Shekh Kamal Memberar Badir Pasher Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Khu-Cul-03	Repair	Khurushkul	-	Hamzar Dail Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-6 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Khu-Cul-05	Repair	Khurushkul	-	Konar Para Road's Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-7 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Khu-Cul-06	Repair	Khurushkul	-	Rohullar Dail Road's Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-1 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Khu-Cul-07	Repair	Khurushkul	-	Possim Kulia Para Road's Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-9 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Khu-Cul-08	Repair	Khurushkul	-	Tetua Bazar Beside the Sultan's Shop	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-3 of Khurushkul Union	30	Short Term	High	Detailed Design Required
Bha-Cul-09	Repair	Bharuakhali	-	Enamul Hoq Machine House Adjacent Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-07 of Bharuakhali Union	30	Short Term	High	Detailed Design Required
Jhil-Cul-01	Repair	Jhilwanja	-	Chander Para Primary School Roder Culvert	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-05 of Jhilwanja Union	30	Short Term	High	Detailed Design Required

Project by Cox's Bazar Paurashava

ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-Cul-01	Repair	CB Paurashava	C-01	Culvert, Shaibal Beach Cafe (Golf Bar Adjacent Culvert)	New	5.5 m Existing Culvert Repair or Rehabilitation (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	30	Short Term	High	Detailed Design Required

e) Drains**Project by LGED**

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Khu-Dra-01	Proposed	Khurushkuli	266	422245237	Drain, Adarashagram to adesha mosque road	New	266 m New Drain Construction (Proposed from Local People)	Ward-6 of Khurushkul Union	27	Mid Term	Midum	Detailed Design Required

Project by Cox's Bazar Paurashava

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-Dra-27	Proposed	CB Paurashava	235	D-14	Drain, Noor Bosor Sawdagor to Moktar Sawdagor(Najirartek)	New	235 m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	24	Mid Term	Midum	Detailed Design Required
CXP-Dra-28	Proposed	CB Paurashava	258	D-15	Drain, Giyas Uddiner dokan to kamal Sawdagorer basa (Najirartek)	New	258m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	26	Mid Term	Midum	Detailed Design Required
CXP-Dra-29	Proposed	CB Paurashava	202	D-16	Drain, Baitul Mamun Jame Masjid to Belal er Dokan to Badshar Dokan	New	202m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	20	Mid Term	Midum	Detailed Design Required
CXP-Dra-30	Proposed	CB Paurashava	151	D-17	Drain, Siraj er Dokan to Sayed Alom er Basa	New	151m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	15	Mid Term	Midum	Detailed Design Required
CXP-Dra-31	Proposed	CB Paurashava	217	D-18	Drain, Kaderer dokan to Najirar tek Mass Ghat	New	217m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	22	Mid Term	Midum	Detailed Design Required
CXP-Dra-32	Proposed	CB Paurashava	2098	D-19	Drain, Basinna Para to Somiti para 3 No. Goli Rastar Matha	New	2098m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	210	Mid Term	Midum	Detailed Design Required
CXP-Dra-33	Proposed	CB Paurashava	97	D-20	Drain, Passim Kutubdia Para 06 No. Goli	New	97m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	10	Mid Term	Midum	Detailed Design Required
CXP-Dra-34	Proposed	CB Paurashava	331	D-21	Drain, Passim Kutubdia Para 03 No. Goli	New	331m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	33	Mid Term	Midum	Detailed Design Required
CXP-Dra-35	Proposed	CB Paurashava	110	D-22	Drain, Passim Kutubdia Para 02 No. Goli Kefayat Ullah House	New	110m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	11	Mid Term	Midum	Detailed Design Required
CXP-Dra-36	Proposed	CB Paurashava	578	D-23	Drain, Samiti Para 7 No Goli	New	578m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	58	Mid Term	Midum	Detailed Design Required
CXP-Dra-37	Proposed	CB Paurashava	287	D-24	Drain, Samiti Para 6 No Goli	New	287m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	29	Mid Term	Midum	Detailed Design Required
CXP-Dra-38	Proposed	CB Paurashava	254	D-25	Drain, Samiti Para 5 No Goli	New	254m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	25	Mid Term	Midum	Detailed Design Required
CXP-Dra-39	Proposed	CB Paurashava	186	D-26	Drain, Samiti Para 1No Goli	New	186m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	19	Mid Term	Midum	Detailed Design Required
CXP-Dra-40	Proposed	CB Paurashava	317	D-27	Drain, Passim Kutubdia Para 06 No. Goli	New	317m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	32	Mid Term	Midum	Detailed Design Required
CXP-Dra-41	Proposed	CB Paurashava	230	D-28	Drain, Passim Kutubdia Para 09 No. Goli	New	230m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	23	Mid Term	Midum	Detailed Design Required
CXP-Dra-42	Proposed	CB Paurashava	227	D-29	Drain, Passim Kutubdia Para 07 No. Goli	New	227m New Drain Construction (Proposed from Local People)	Ward-01 of Cox's Bazar Paurashava	23	Mid Term	Midum	Detailed Design Required
CXP-Dra-43	Proposed	CB Paurashava	51	D-36	Drain, Minto Baper Barir Road	New	51m New Drain Construction (Proposed from Local People)	Ward-02 of Cox's Bazar Paurashava	5	Mid Term	Midum	Detailed Design Required
CXP-Dra-44	Proposed	CB Paurashava	51	D-37	Drain, Pacchim Notun Baharchora Kamal Sowdagor Road	New	51m New Drain Construction (Proposed from Local People)	Ward-02 of Cox's Bazar Paurashava	5	Mid Term	Midum	Detailed Design Required
CXP-Dra-45	Proposed	CB Paurashava	129	D-38	Drain, Purbo Notun Baharchora Josim House Road	New	129m New Drain Construction (Proposed from Local People)	Ward-02 of Cox's Bazar Paurashava	13	Mid Term	Midum	Detailed Design Required
CXP-Dra-46	Proposed	CB Paurashava	142	D-39	Drain, Boro Bazar Road	New	142m New Drain Construction (Proposed from Local People)	Ward-03 of Cox's Bazar Paurashava	14	Mid Term	Midum	Detailed Design Required
CXP-Dra-47	Proposed	CB Paurashava	227	D-40	Drain, Noor Para Baro Chele Store	New	227m New Drain Construction (Proposed from Local People)	Ward-03 of Cox's Bazar Paurashava	23	Mid Term	Midum	Detailed Design Required
CXP-Dra-48	Proposed	CB Paurashava	203	D-41	Drain, Noor Para to Shaw Mill	New	203m New Drain Construction (Proposed from Local People)	Ward-03 of Cox's Bazar Paurashava	20	Mid Term	Midum	Detailed Design Required
CXP-Dra-49	Proposed	CB Paurashava	197	D-42	Drain, Bangubondhu Road	New	197m New Drain Construction (Proposed from Local People)	Ward-03 of Cox's Bazar Paurashava	20	Mid Term	Midum	Detailed Design Required
CXP-Dra-50	Proposed	CB Paurashava	250	D-43	Drain, Peskar Para Chowmohoni to Rahim Chowdhury Bari	New	250m New Drain Construction (Proposed from Local People)	Ward-04 of Cox's Bazar Paurashava	25	Mid Term	Midum	Detailed Design Required
CXP-Dra-51	Proposed	CB Paurashava	171	D-44	Drain, Mas Bazar Culvert to Abujar Al Gifary Academy Road	New	171m New Drain Construction (Proposed from Local People)	Ward-04 of Cox's Bazar Paurashava	17	Mid Term	Midum	Detailed Design Required
CXP-Dra-52	Proposed	CB Paurashava	90	D-45	Drain, Maiz Bandar Daira Sharif to Sohor Bicolpo Road	New	90m New Drain Construction (Proposed from Local People)	Ward-04 of Cox's Bazar Paurashava	9	Mid Term	Midum	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-Dra-53	Proposed	CB Paurashava	146	D-46	Drain, Maiz Bandar Daira Sharif to Monsor Comissioner Er Bari	New	146m New Drain Construction (Proposed from Local People)	Ward-04 of Cox's Bazar Paurashava	15	Mid Term	Midum	Detailed Design Required
CXP-Dra-54	Proposed	CB Paurashava	789	D-51	Drain, Bon Rupa Para Main Road to Moulana Kamaler Bari	New	789m New Drain Construction (Proposed from Local People)	Ward-05 of Cox's Bazar Paurashava	79	Mid Term	Midum	Detailed Design Required
CXP-Dra-55	Proposed	CB Paurashava	359	D-52	Drain, Bon Rupa Para Rumpar Bari to Mondir	New	359m New Drain Construction (Proposed from Local People)	Ward-05 of Cox's Bazar Paurashava	36	Mid Term	Midum	Detailed Design Required
CXP-Dra-56	Proposed	CB Paurashava	138	D-53	Drain, SM Para Kona Para to Bot Gas Tola	New	138m New Drain Construction (Proposed from Local People)	Ward-05 of Cox's Bazar Paurashava	14	Mid Term	Midum	Detailed Design Required
CXP-Dra-57	Proposed	CB Paurashava	1335	D-55	Drain, Upazila (Harvard College) to Peta Sawdagor Para Connecting Road	New	1335m New Drain Construction (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	134	Mid Term	Midum	Detailed Design Required
CXP-Dra-58	Proposed	CB Paurashava	1375	D-56	Drain, Uttor Peta Sawdagor Para Road	New	1375m New Drain Construction (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	138	Mid Term	Midum	Detailed Design Required
CXP-Dra-59	Proposed	CB Paurashava	471	D-57	Drain, Purbo Barua Para to Sardar Para Road	New	471m New Drain Construction (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	47	Mid Term	Midum	Detailed Design Required
CXP-Dra-60	Proposed	CB Paurashava	440	D-58	Drain, Uttor Shikder Para Road	New	440m New Drain Construction (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	44	Mid Term	Midum	Detailed Design Required
CXP-Dra-61	Proposed	CB Paurashava	553	D-59	Drain, Mollik Para Road	New	553m New Drain Construction (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	55	Mid Term	Midum	Detailed Design Required
CXP-Dra-62	Proposed	CB Paurashava	227	D-60	Drain, Nap-Ponja Para Road	New	227m New Drain Construction (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	23	Mid Term	Midum	Detailed Design Required
CXP-Dra-63	Proposed	CB Paurashava	162	D-61	Drain, Pollania Kata Road	New	162m New Drain Construction (Proposed from Local People)	Ward-06 of Cox's Bazar Paurashava	16	Mid Term	Midum	Detailed Design Required
CXP-Dra-64	Proposed	CB Paurashava	190	D-64	Drain, Shikder Bazar to Basa Miyar Ghona Road	New	190m New Drain Construction (Proposed from Local People)	Ward-7 of Cox's Bazar Paurashava	19	Mid Term	Midum	Detailed Design Required
CXP-Dra-65	Proposed	CB Paurashava	228	D-65	Drain, Dokkin Rumaliarchora (Goror Alda) Road	New	228m New Drain Construction (Proposed from Local People)	Ward-7 of Cox's Bazar Paurashava	23	Mid Term	Midum	Detailed Design Required
CXP-Dra-66	Proposed	CB Paurashava	64	D-66	Drain, Kang Para Buddho Mundir Road	New	64m New Drain Construction (Proposed from Local People)	Ward-8 of Cox's Bazar Paurashava	6	Mid Term	Midum	Detailed Design Required
CXP-Dra-67	Proposed	CB Paurashava	590	D-67	Drain, Khaja Manjil Road	New	590m New Drain Construction (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	59	Mid Term	Midum	Detailed Design Required
CXP-Dra-68	Proposed	CB Paurashava	53	D-68	Drain, Shofir Barir Road	New	53m New Drain Construction (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	5	Mid Term	Midum	Detailed Design Required
CXP-Dra-69	Proposed	CB Paurashava	80	D-69	Drain, Nurul Islam er Barir Road	New	80m New Drain Construction (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	8	Mid Term	Midum	Detailed Design Required
CXP-Dra-70	Proposed	CB Paurashava	106	D-70	Drain, Jabbarer Bari to Bulbul Akter er Bari	New	106m New Drain Construction (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	11	Mid Term	Midum	Detailed Design Required
CXP-Dra-71	Proposed	CB Paurashava	90	D-71	Drain, Baitul Ijjat to Noor Mohammad Mistri Barir Road	New	90m New Drain Construction (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	9	Mid Term	Midum	Detailed Design Required
CXP-Dra-72	Proposed	CB Paurashava	99	D-72	Drain, Baitul Ijjat Road	New	99m New Drain Construction (Proposed from Local People)	Ward-08 of Cox's Bazar Paurashava	10	Mid Term	Midum	Detailed Design Required
CXP-Dra-73	Proposed	CB Paurashava	85	D-73	Drain, Nuru Mistri House Road	New	85m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	9	Mid Term	Midum	Detailed Design Required
CXP-Dra-74	Proposed	CB Paurashava	73	D-74	Drain, Abdul Hakim House to Shahana Akter House Road	New	73m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	7	Mid Term	Midum	Detailed Design Required
CXP-Dra-75	Proposed	CB Paurashava	57	D-75	Drain, Shah Alam Master House to Ibrahim House Road	New	57m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	6	Mid Term	Midum	Detailed Design Required
CXP-Dra-76	Proposed	CB Paurashava	91	D-76	Drain, Salmon Amin House Road	New	91m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	9	Mid Term	Midum	Detailed Design Required
CXP-Dra-77	Proposed	CB Paurashava	95	D-77	Drain, Babul Mistri House Road	New	95m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	10	Mid Term	Midum	Detailed Design Required
CXP-Dra-78	Proposed	CB Paurashava	53	D-78	Drain, Rajur Jaiga to Babuler Badir Road	New	53m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	5	Mid Term	Midum	Detailed Design Required
CXP-Dra-79	Proposed	CB Paurashava	67	D-79	Drain, Khaja Manjiler Dokkin Pasher Uporer Pahar Road	New	67m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	7	Mid Term	Midum	Detailed Design Required
CXP-Dra-80	Proposed	CB Paurashava	54	D-80	Drain, Moulvi Para Moktar Mazhir Badir Samner Road	New	54m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	5	Mid Term	Midum	Detailed Design Required
CXP-Dra-81	Proposed	CB Paurashava	43	D-81	Drain, Abu Rashid House to Uporer Putur Badir Road	New	43m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	4	Mid Term	Midum	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/ pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-Dra-82	Proposed	CB Paurashava	56	D-82	Drain, Adv Didar House Road	New	56m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	6	Mid Term	Midum	Detailed Design Required
CXP-Dra-83	Proposed	CB Paurashava	80	D-83	Drain, Purbo Ghonar Para Abu Taher Mistri Badir Samner Road	New	80m New Drain Construction (Proposed from Local People)	Ward-09 of Cox's Bazar Paurashava	8	Mid Term	Midum	Detailed Design Required
CXP-Dra-84	Proposed	CB Paurashava	70	D-84	Drain, Naharun Nesar Bari to Giyas Uddin er Bari	New	70m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	7	Mid Term	Midum	Detailed Design Required
CXP-Dra-85	Proposed	CB Paurashava	43	D-85	Drain, Purbo Mohajer Para Jafor Alomer Bari to Nur Ayeshar Bari	New	43m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	4	Mid Term	Midum	Detailed Design Required
CXP-Dra-86	Proposed	CB Paurashava	40	D-86	Drain, Jafor Alomer Bari to Kala Mia Mazhir Bari	New	40m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	4	Mid Term	Midum	Detailed Design Required
CXP-Dra-87	Proposed	CB Paurashava	41	D-87	Drain, Absar Driverer Bari to Moin Uddiner Bari	New	41m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	4	Mid Term	Midum	Detailed Design Required
CXP-Dra-88	Proposed	CB Paurashava	204	D-88	Drain, Fuad Al Khateb Hospitaler Paser Drain Bhola Babur Petrul Pump Porjonto	New	204m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	20	Mid Term	Midum	Detailed Design Required
CXP-Dra-89	Proposed	CB Paurashava	128	D-89	Drain, Eidgah Mosjider Possim Paser Road	New	128m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	13	Mid Term	Midum	Detailed Design Required
CXP-Dra-90	Proposed	CB Paurashava	14	D-90	Drain, Bahadurer Bari to Idris Moyar Bari	New	14m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	1	Mid Term	Midum	Detailed Design Required
CXP-Dra-91	Proposed	CB Paurashava	60	D-91	Drain, Zila Daira Judger Banglu to Suddep Babor Bari	New	60m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	6	Mid Term	Midum	Detailed Design Required
CXP-Dra-92	Proposed	CB Paurashava	75	D-92	Drain, General Hospitaler Uttor Paser Road	New	75m New Drain Construction (Proposed from Local People)	Ward-10 of Cox's Bazar Paurashava	8	Mid Term	Midum	Detailed Design Required
CXP-Dra-93	Proposed	CB Paurashava	235	D-93	Drain, Saikot Girls High School Drain	New	235m New Drain Construction (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	24	Mid Term	Midum	Detailed Design Required
CXP-Dra-94	Proposed	CB Paurashava	184	D-94	Drain, Noor Ahmed Road Police Super Quarter to Hill Down to Ahmed Sardar House	New	184m New Drain Construction (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	18	Mid Term	Midum	Detailed Design Required
CXP-Dra-95	Proposed	CB Paurashava	225	D-95	Drain, Hill Down Mosjid to DC Quarter Road	New	225m New Drain Construction (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	23	Mid Term	Midum	Detailed Design Required
CXP-Dra-96	Proposed	CB Paurashava	54	D-96	Drain, Saikot Girls School Road	New	54m New Drain Construction (Proposed from Local People)	Ward-11 of Cox's Bazar Paurashava	5	Mid Term	Midum	Detailed Design Required
CXP-Dra-97	Proposed	CB Paurashava	210	D-97	Drain, Goyamtoli Mosjid to Hafez Abdul Salam House Road	New	210m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	21	Mid Term	Midum	Detailed Design Required
CXP-Dra-98	Proposed	CB Paurashava	190	D-98	Drain, Jam Jam Hatchery to Koborostan Road	New	190m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	19	Mid Term	Midum	Detailed Design Required
CXP-Dra-99	Proposed	CB Paurashava	88	D-99	Drain, Hotel Suite Sadaf to Abdu Rohim's House	New	88m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	9	Mid Term	Midum	Detailed Design Required
CXP-Dra-100	Proposed	CB Paurashava	142	D-100	Drain, Haji Ajmot Ali Member House to Jirjiri Para Boundary Road	New	142m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	14	Mid Term	Midum	Detailed Design Required
CXP-Dra-101	Proposed	CB Paurashava	52	D-101	Drain, Kolatoli Main Road to Nazir Sawdagor House Road	New	52m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	5	Mid Term	Midum	Detailed Design Required
CXP-Dra-102	Proposed	CB Paurashava	80	D-102	Drain, Kolatoli Main Road to Nazir Sawdagor House Road	New	80m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	8	Mid Term	Midum	Detailed Design Required
CXP-Dra-103	Proposed	CB Paurashava	125	D-103	Drain, Nurul Islam Typist House to Army Sayed House Road	New	125m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	13	Mid Term	Midum	Detailed Design Required
CXP-Dra-104	Proposed	CB Paurashava	72	D-104	Drain, Comandar Sorwar House to Rojina' House Road	New	72m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	7	Mid Term	Midum	Detailed Design Required
CXP-Dra-105	Proposed	CB Paurashava	303	D-105	Drain, Kashem Kolifa's Office to Koborostan Road	New	303m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	30	Mid Term	Midum	Detailed Design Required
CXP-Dra-106	Proposed	CB Paurashava	129	D-106	Drain, Light House Shohidullah House to Anowar House Road	New	129m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	13	Mid Term	Midum	Detailed Design Required
CXP-Dra-107	Proposed	CB Paurashava	120	D-107	Drain, Light House Road to Abul Kalam Driver House Road	New	120m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	12	Mid Term	Midum	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-Dra-108	Proposed	CB Paurashava	132	D-108	Drain, Amir Hossain Sowdagor house to Bagh Ghona Road	New	132m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	13	Mid Term	Midum	Detailed Design Required
CXP-Dra-109	Proposed	CB Paurashava	92	D-109	Drain, Light House Mosjid to Kalor House Road	New	92m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	9	Mid Term	Midum	Detailed Design Required
CXP-Dra-110	Proposed	CB Paurashava	155	D-110	Drain, Uttor light House Para Monor House Road	New	155m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	16	Mid Term	Midum	Detailed Design Required
CXP-Dra-111	Proposed	CB Paurashava	368	D-111	Drain, Kolatoli Dolphin Circle to Moulana Anwarul Karim House Main Road Adjacent Drain	New	368m New Drain Construction (Proposed from Local People)	Ward-12 of Cox's Bazar Paurashava	37	Mid Term	Midum	Detailed Design Required
CXP-Dra-01	Proposed	CB Paurashava	727	D-01	Drain, Basinna Para Baitul Ferdous Mosque to South Mostaque Para road	New	727m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	73	Mid Term	High	Detailed Design Required
CXP-Dra-02	Proposed	CB Paurashava	749	D-02	Drain, Kutub Bazar to Kaiser Shop Road	New	749 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	75	Mid Term	High	Detailed Design Required
CXP-Dra-03	Proposed	CB Paurashava	934	D-03	Drain, West Kutubdia Para Bhangar Mukh Baitul House to Old Nazir Tek Bazar road	New	934 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	93	Mid Term	High	Detailed Design Required
CXP-Dra-04	Proposed	CB Paurashava	768	D-04	Drain, From West Kutubdia para Bhangar Mukh to Somiti para	New	768 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	77	Mid Term	High	Detailed Design Required
CXP-Dra-05	Proposed	CB Paurashava	348	D-05	Drain, Moddom Kutubdia Para Shamsul Alam House to Uttor Kutubdia para Toyob Shop Road	New	348 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	35	Mid Term	High	Detailed Design Required
CXP-Dra-06	Proposed	CB Paurashava	632	D-06	Drain, Moddom Kutubdia para Baitosh Shorof Mosque to Uttor Kutubdia Para Shah Mojidia Mosque Road	New	632 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	63	Mid Term	High	Detailed Design Required
CXP-Dra-07	Proposed	CB Paurashava	1245	D-07	Drain, Baitul Reduan Jame Mosjid to DGFI Bhaban road	New	m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	125	Mid Term	High	Detailed Design Required
CXP-Dra-14	Proposed	CB Paurashava	131	D-08	Drain, Samiti Para 10 No. Nazur Ahmed House to Journalist Faruq House Road	New	131 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	13	Mid Term	High	Detailed Design Required
CXP-Dra-15	Proposed	CB Paurashava	174	D-09	Drain, Samiti para 9 No Goli, Belal House to Rahim House Road	New	174 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	17	Mid Term	High	Detailed Design Required
CXP-Dra-16	Proposed	CB Paurashava	236	D-10	Drain, Samiti Para 8 No Goli, Hafez Boshir House to Baitun Noor Jame Mosjid road	New	236 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	24	Mid Term	High	Detailed Design Required
CXP-Dra-17	Proposed	CB Paurashava	247	D-11	Drain, Samiti Para 3 No Goli, Cox Multi Media School Road	New	247 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	25	Mid Term	High	Detailed Design Required
CXP-Dra-18	Proposed	CB Paurashava	248	D-12	Drain, Samiti Para 2 No Goli, Mamun House to Nurul Islam House Road	New	248 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	25	Mid Term	High	Detailed Design Required
CXP-Dra-26	Proposed	CB Paurashava	189	D-13	Drain, Basinna Para Abul Basar Shops to Basinna para Baitul Ferdous Mosque East Side Road	New	189 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	19	Mid Term	High	Detailed Design Required
CXP-Dra-27	Proposed	CB Paurashava	192	D-14	Drain, Basinna Para Abul Basar Shops to Basinna para Baitul Ferdous Mosque West Side Road	New	192 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-01 of Cox's Bazar Paurashava	19	Mid Term	High	Detailed Design Required
CXP-Dra-08	Proposed	CB Paurashava	248	D-30	Drain, CCDB to Watch Tower Road	New	248 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	25	Mid Term	High	Detailed Design Required
CXP-Dra-09	Proposed	CB Paurashava	172	D-31	Drain, Panirkup Para Mosque Road	New	172 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	17	Mid Term	High	Detailed Design Required

ID	TYPE OF NEED	UNION	LENGTH	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
CXP-Dra-10	Proposed	CB Paurashava	400	D-32	Drain, Panikup para to CCDB road	New	400 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	40	Mid Term	High	Detailed Design Required
CXP-Dra-11	Proposed	CB Paurashava	294	D-33	Drain, Uttor Nuniar Chara Razia Member West Side to Tuitta Para road	New	294 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	29	Mid Term	High	Detailed Design Required
CXP-Dra-12	Proposed	CB Paurashava	73	D-34	Drain, Uttor Nuniar Chara Nurul Houque Company Dock Road	New	73 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	7	Mid Term	High	Detailed Design Required
CXP-Dra-13	Proposed	CB Paurashava	48	D-35	Drain, Mohammad Hossain Road	New	48 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-02 of Cox's Bazar Paurashava	5	Mid Term	High	Detailed Design Required
CXP-Dra-19	Proposed	CB Paurashava	386	D-47	Drain, Dr. Khalilur Rhaman Road, BGB Camp road	New	386 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-05 of Cox's Bazar Paurashava	39	Mid Term	High	Detailed Design Required
CXP-Dra-20	Proposed	CB Paurashava	307	D-48	Drain, Rustom Alir Bari to Toha Medical Hall,	New	307 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-05	31	Mid Term	High	Detailed Design Required
CXP-Dra-21	Proposed	CB Paurashava	432	D-49	Drain, From SM Para Road to TMC Girls High School hoye Beri Badh porjonto	New	432 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-05 of Cox's Bazar Paurashava	43	Mid Term	High	Detailed Design Required
CXP-Dra-22	Proposed	CB Paurashava	558	D-50	Drain, From Mostafar Dokan to Mir Kashem er dokan porjonto	New	558m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-05 of Cox's Bazar Paurashava	56	Mid Term	High	Detailed Design Required
CXP-Dra-23	Proposed	CB Paurashava	403	D-54	Drain, Hashemia Madrasa to Rumlal Chora Police Camp Porjonto	New	403 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-06 of Cox's Bazar Paurashava	40	Mid Term	High	Detailed Design Required
CXP-Dra-24	Proposed	CB Paurashava	922	D-62	Drain, From Shikdar Bazar to Zail Gate Road	New	922 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-07 of Cox's Bazar Paurashava	92	Mid Term	High	Detailed Design Required
CXP-Dra-25	Proposed	CB Paurashava	538	D-63	Drain, Bachamia Gona Road Drain	New	538 m New Drain Construction (Proposed from Paurashava Engineering Department)	Ward-07 of Cox's Bazar Paurashava	54	Mid Term	High	Detailed Design Required

f) Facilities for Water (e.g., Tube well, pipeline and Latrine)

Project by DPHE

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Community Latrine	-	New	Idgaon	-	Community Latrine	New	20Nos.New Construction (Proposed from Upzila Office)	68788 Nos. People of Edgaon Union	3	Mid Term	Midum	Detailed Design Required
Community Latrine	-	New	Islamabad	-	Community Latrine	New	10Nos.New Construction (Proposed from Upzila Office)	49195 Nos. People of Islamabad Union	2	Mid Term	Midum	Detailed Design Required
Community Latrine	-	New	Islampur	-	Community Latrine	New	20Nos.New Construction (Proposed from Upzila Office)	34758Nos. People of Islampur Union	3	Mid Term	Midum	Detailed Design Required
Community Latrine	-	New	Jalalabad	-	Community Latrine	New	10Nos.New Construction (Proposed from Upzila Office)	41005 Nos. People of Jalalabad Union	2	Mid Term	Midum	Detailed Design Required
Community Latrine	-	New	Pokkhali	-	Community Latrine	New	20Nos.New Construction (Proposed from Upzila Office)	41048 Nos. People of Pokkhali Union	3	Mid Term	Midum	Detailed Design Required
Community Latrine	-	New	Khurushkul	-	Community Latrine	New	60Nos.New Construction (Proposed from Upzila Office)	140000 Nos. People of Khurushkul Union	9	Mid Term	Midum	Detailed Design Required
Community Latrine	-	New	Jhilwanja	-	Community Latrine	New	50Nos.New Construction (Proposed from Upzila Office)	108000 Nos. People of Jhilwanja Union	8	Mid Term	Midum	Detailed Design Required
Community Latrine	-	New	Patali Machhuakhali	-	Community Latrine	New	20Nos.New Construction (Proposed from Upzila Office)	40000 Nos. People of PM Khali Union	3	Mid Term	Midum	Detailed Design Required
Community Latrine	-	New	Chaufaldandi	-	Community Latrine	New	30Nos.New Construction (Proposed from Upzila Office)	50000 Nos. People of Chawfaldandi Union	5	Mid Term	Midum	Detailed Design Required

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority In Terms of Hazard Analysis	Remarks
Community Latrine	-	New	Bharuakhali	-	Community Latrine	New	35Nos.New Construction (Proposed from Upzila Office)	45000 Nos. People of Bharuakhali Union	5	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Idgaon	-	Household Latrine	New	450Nos.New Construction (Proposed from Upzila Office)	68788 Nos. People of Idgaon Union	360	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Islamabad	-	Household Latrine	New	350Nos.New Construction (Proposed from Upzila Office)	49195 Nos. People of Islamabad Union	280	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Islampur	-	Household Latrine	New	1180Nos.New Construction (Proposed from Upzila Office)	34758 Nos. People of Islampur Union	944	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Jalalabad	-	Household Latrine	New	400Nos.New Construction (Proposed from Upzila Office)	41005 Nos. People of Jalalabad Union	320	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Pokkhali	-	Household Latrine	New	600Nos.New Construction (Proposed from Upzila Office)	41048 Nos. People of Pokkhali Union	480	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Khurushkul	-	Household Latrine	New	2500Nos.New Construction (Proposed from Upzila Office)	140000 Nos. People of Khurushkul Union	2,000	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Jhilwanja	-	Household Latrine	New	1470Nos.New Construction (Proposed from Upzila Office)	108000 Nos. People of Jhilwanja Union	1,176	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Patali Machhuakhali	-	Household Latrine	New	1180Nos.New Construction (Proposed from Upzila Office)	40000 Nos. People of PM Khali Union	944	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Chaufaldandi	-	Household Latrine	New	1440Nos.New Construction (Proposed from Upzila Office)	50000 Nos. People of Chaufaldandi Union	1,152	Mid Term	Midum	Detailed Design Required
Latrine	-	New	Bharuakhali	-	Household Latrine	New	1270Nos.New Construction (Proposed from Upzila Office)	45000 Nos. People of Bharuakhali Union	1,016	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Idgaon	-	Mini Pipe Water	New	2Nos.New Construction (Proposed from Upzila Office)	68788 Nos. People of Idgaon Union	5	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Islamabad	-	Mini pipe water	New	3Nos.New Construction (Proposed from Upzila Office)	49195 Nos. People of Islamabad Union	8	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Islampur	-	Mini pipe water	New	2Nos.New Construction (Proposed from Upzila Office)	34758 Nos. People of Islampur Union	5	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Jalalabad	-	Mini pipe water	New	2Nos.New Construction (Proposed from Upzila Office)	41005 Nos. People of Jalalabad Union	5	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Pokkhali	-	Mini pipe water	New	2Nos.New Construction (Proposed from Upzila Office)	41048 Nos. People of Pokkhali Union	5	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Khurushkul	-	Mini pipe water	New	2Nos.New Construction (Proposed from Upzila Office)	140000 Nos. People of Khurushkul Union	5	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Jhilwanja	-	Mini pipe water	New	1Nos.New Construction (Proposed from Upzila Office)	108000 Nos. People of Jhilwanja Union	3	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Patali Machhuakhali	-	Mini pipe water	New	2Nos.New Construction (Proposed from Upzila Office)	40000 Nos. People of PM Khali Union	5	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Chaufaldandi	-	Mini pipe water	New	2Nos.New Construction (Proposed from Upzila Office)	50000 Nos. People of Chaufaldandi Union	5	Mid Term	Midum	Detailed Design Required
Mini Pipe water	-	New	Bharuakhali	-	Mini pipe water	New	2Nos.New Construction (Proposed from Upzila Office)	45000 Nos. People of Bharuakhali Union	5	Mid Term	Midum	Detailed Design Required
Mobile Water Treatment Plant	-	New	All Union	-	Mobile Water Treatment Plant	New	5Nos.New (Proposed from Upzila Office)	49195 Nos. People of All Upazila	600	Short Term	High	Need to take initiative from TSC
Public Toilet	-	New	All Union	-	Public Toilet	New	129Nos.New Construction (Proposed from Upzila Office)	140000 Nos. People of All Upazila	2,580	Short Term	High	Need to take initiative from TSC
Tubewell	-	New	Idgaon	-	Community Tubewell	New	200Nos.New Construction (Proposed from Upzila Office)	68788 Nos. People of Idgaon Union	700	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Islamabad	-	Community Tubewell	New	100Nos.New Construction (Proposed from Upzila Office)	49195 Nos. People of Islamabad Union	350	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Islampur	-	Community Tubewell	New	100Nos.New Construction (Proposed from Upzila Office)	34758 Nos. People of Islampur Union	350	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Jalalabad	-	Community Tubewell	New	100Nos.New Construction (Proposed from Upzila Office)	41005 Nos. People of Jalalabad Union	350	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Pokkhali	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	41048 Nos. People of Pokkhali Union	1,050	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Khurushkul	-	Community Tubewell	New	25Nos.New Construction (Proposed from Upzila Office)	140000 Nos. People of Khurushkul Union	88	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Jhilwanja	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	108000 Nos. People of Jhilwanja Union	1,050	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Patali Machhuakhali	-	Community Tubewell	New	250Nos.New Construction (Proposed from Upzila Office)	40000 Nos. People of PM Khali Union	875	Mid Term	Midum	Detailed Design Required

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Tubewell	-	New	Chaufaldandi	-	Community Tubewell	New	350Nos.New Construction (Proposed from Upzila Office)	50000 Nos. People of Chawfaldandi Union	1,225	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Bharuakhali	-	Community Tubewell	New	525Nos.New Construction (Proposed from Upzila Office)	45000 Nos. People of Bharuakhali Union	1,838	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Idgaon	-	Shallow Tubewell	New	100Nos.New Construction (Proposed from Upzila Office)	68788 Nos. People of Edgaon Union	40	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Islamabad	-	Shallow Tubewell	New	80Nos.New Construction (Proposed from Upzila Office)	49195 Nos. People of Islamabad Union	32	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Islampur	-	Shallow Tubewell	New	150Nos.New Construction (Proposed from Upzila Office)	34758 Nos. People of Islampur Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Jalalabad	-	Shallow Tubewell	New	0	41005 Nos. People of All Upazila	-	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Pokkhali	-	Shallow Tubewell	New	0	41048 Nos. People of All Upazila	-	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Khurushkul	-	Shallow Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	140000 Nos. People of Khurushkul Union	120	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Jhilwanja	-	Shallow Tubewell	New	150Nos.New Construction (Proposed from Upzila Office)	108000 Nos. People of Jhilwanja Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Patali Machhuakhali	-	Shallow Tubewell	New	50Nos.New Construction (Proposed from Upzila Office)	40000 Nos. People of PM Khali Union	20	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Chaufaldandi	-	Shallow Tubewell	New	0	50000 Nos. People of All Upazila	-	Mid Term	Midum	Detailed Design Required
Tubewell	-	New	Bharuakhali	-	Shallow Tubewell	New	0	45000 Nos. People of All Upazila	-	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Idgaon	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	68788 Nos. People of Edgaon Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Islamabad	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	49195 Nos. People of Islamabad Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Islampur	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	34758 Nos. People of Islampur Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Jalalabad	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	41005 Nos. People of Jalalabad Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Pokkhali	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	41048 Nos. People of Pokkhali Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Khurushkul	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	140000 Nos. People of Khurushkul Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Jhilwanja	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	108000 Nos. People of Jhilwanja Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Patali Machhuakhali	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	40000 Nos. People of PM Khali Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Chaufaldandi	-	Community Tubewell	New	300Nos.New Construction (Proposed from Upzila Office)	50000 Nos. People of Chawfaldandi Union	60	Mid Term	Midum	Detailed Design Required
Tubewell	-	Repair	Bharuakhali	-	Community Tubewell	New	300Nos.New Construction(Proposed from Upzila Office)	45000 Nos. People of Bharuakhali Union	60	Mid Term	Midum	Detailed Design Required

g) Other infrastructures and facilities for emergency operations

Project by DPHE

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Warehouse	-	New	All Union	-	Warehouse	New	1Nos.New Construction (Proposed from Upzila Office)	41005 Nos. People of All Upazila	500	Short Term	High	Need to take initiative from TSC

<Non-structural countermeasures>

3. Disaster Management Training and materials

Projects by BDRCS

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Training On Disaster Risk Reduction	-	New	All Union	-	Training On Disaster Risk Reduction	New	30Nos. Training (Proposed from Upzila Office)	280000 Nos. People of All Upazilas	24	Mid Term	High	Need to take initiative from TSC

4.Raising Public Awareness and Disaster Education

Projects by BDRCS

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
DRR Awareness Related Billboard	-	New	All Union	-	DRR Awareness Related Billboard	New	50Nos.Nos. Training (Proposed from Upzila Office)	280000Nos. People of All Upazilas	25	Mid Term	High	Need to take initiative from TSC

5. Other Non-structural Countermeasures

Projects by BDRCS

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
DRR Awareness Related Billboard	-	New	All Union	-	DRR Awareness Related Billboard	New	50Nos.Nos. Training (Proposed from Upzila Office)	280000Nos. People of All Upazila	25	Mid Term	High	Need to take initiative from TSC

Projects by DPHE

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Water Carrier (3000 Liters)	-	New	All Union	-	Water Carrier (3000 Liters)	New	10Nos.New (Proposed from Upzila Office)	68788 Nos. People of All Upazila	800	Short Term	High	Need to take initiative from TSC
Payload Vehicle	-	New	All Union	-	Payload Vehicle	New	2Nos.New (Proposed from Upzila Office)	34758 Nos. People of All Upazila	400	Short Term	High	Need to take initiative from TSC
Jerry Cane	-	New	All Union	-	Jerry Cane	New	20000Nos.New (Proposed from Upzila Office)	41048 Nos. People of All Upazila	100	Short Term	High	Need to take initiative from TSC
Solid Waste Management	-	New	All Union	-	Solid waste management	New	3Nos.New Construction (Proposed from Upzila Office)	108000 Nos. People of All Upazilas	1,500	Short Term	High	Need to take initiative from TSC

Projects by DGHS

CATEGORY	ID	TYPE OF NEED	UNION	Official ID Number	Official Name of Countermeasures	Plan Status (e.g.) (new/continuing/pipeline/undecided)	Proponents	Direct Beneficiaries/Interests to be protected	Estimated cost (Lac Tk)	Implementation Time Frame	Priority in Terms of Hazard Analysis	Remarks
Ambulance	-	New	All Union	-	Ambulance	New	1Nos.New Construction (Proposed from Upzila Office)	280000Nos. People of All Upazilas	35	Mid Term	High	Detailed Design Required

**Attachment 2: List of the Members of UzDMC for the development of the LDRRA
Plan in Cox's Bazar Sadar**

(1) UzDMC Members


Sl. #	Name	Designation	Department/ Ministry	Position in Committee
01.	Kaisarul Haque Jewel	Upazila Chairman	MoLGRD&C	Chairperson
02.	Mr. Md Zakaria	Upazila Nirbahi Officer	MoPA	Co -Chairperson
03.	Md. Muzibur Rahman	Mayor, Municipality, Cox's Bazar	MoLGRD&C	Member
04.	Mr. Rashid Mian	Upazila Vice Chairman	MoLGRD&C	Member
05.	Ms. Hamida Taher	Upazila Vice Chairman	MoLGRD&C	Member
06.	Mr. Abdul Kader Gani	Executive Engineer	PDB	Member
07.	Mr. Zillur Rahman	Asst. Commissioner (Land)	MoL	Member
08.	Mr. Touhidul Islam	Upazila Engineer	LGED	Member
09.	Mr. Md. Al- Amin	Sub- Asst. Engineer	DPHE	Member
10.	Mr. Md. Zahid Hasan	Upazila Agri. Officer	DAE	Member
11.	Mr. Tarapada Chowhan	Upazila Fishery Officer	MoL&F	Member
12.	Dr. Ashim Boron Sen	Upazila Livestock Officer	MoL&F	Member
13.	Mr. Atiqur Rahman Chow.	Deputy Director, Statistics Dept.	BoS-MoP	Member
14.	Md. Mahbubur Rahman	Upazila Youth Dev. Officer	MoY	Member
15.	Mr. Subrata Biswas	Deputy Director, Women and Children Department	MoSW	Member
16.	Mr. Jewel Bhuiyan	Upazila Ansar & VDP Officer	MoD	Member
17.	Ms. Rokshana Akhter Bristy	Upazila Women Affairs Officer	MoWA	Member
18.	Md. Saiful Islam	Upazila Rural Dev. Officer	MoLGRD&C	Member
19.	Dr. Radia Afrin	Upazila Health & Family Planning Officer	MoHFW	Member
20.	Md. Salehuddin	Upazila Food Controller	MoF	Member
21.	Kazi Md. Motiul Islam	Officer In Charge, Sadar Police Station	MoH	Member
22.	Mr. Selim Uddin	Upazila Secondary Education Officer	MoE	Member
23.	Mr. Saifur Rahman	Upazila Primary Education Officer	MoP&ME	Member
24.	Dr. Md. Rakibullah	Upazila Family Planning Officer	MoHFW	Member
25.	Mr. Hasanul Amin	Deputy Director, CPP	CPP	Member
26.	Mr. Atish Chakma	Dy. Assistant Director, FSCD	MoD	Member
27.	Mr. Khairul Bashar Siraji	Principal, Churutia Sr. Madrasha	Religious Inst.	Member
28.	Mr. Saiful Islam	Unit Officer, BDRC Society	BDRC Society	Member
29.	Mr. Md. Rakibul Alam	AGM, REB	REB	Member
30.	Mr. Mithun Wardder	Representative, BWDB	BWDB	Member
31.	Mr. Al-Haj Fasiul Alam	President, BRDB Samity	BRDB	Member
32.	Mr. Abul Kalam	Union Parishad Chairman, Islampur UP	MoLGRD&C	Member

Sl. #	Name	Designation	Department/ Ministry	Position in Committee
33.	Mr. Rafiq Ahamed	Union Parishad Chairman, Pokhkhali UP	MoLGRD&C	Member
34.	Mr. Md. Nur Siddiq	Union Parishad Chairman, Islamabad UP	MoLGRD&C	Member
35.	Mr. Md. Syed Alam	Union Parishad Chairman, Eidgaon UP	MoLGRD&C	Member
36.	Mr. Imrul Hasan Rashed	Union Parishad Chairman, Jalalabad UP	MoLGRD&C	Member
37.	Mr. Mujibur Rahman	Union Parishad Chairman, Chowfuldandi UP	MoLGRD&C	Member
38.	Mr. Kamal Uddin	Union Parishad Chairman, Varuakhali UP	MoLGRD&C	Member
39.	Mr. Md. Abdullah	Union Parishad Chairman, PM Khali UP	MoLGRD&C	Member
40.	Mr. Md. Shahjan Siddique	Union Parishad Chairman, Khurushkul UP	MoLGRD&C	Member
41.	Mr. Tipu Sultan	Union Parishad Chairman, Jhilanja UP	MoLGRD&C	Member
42.	Ms. Sabina Yesmin	MUP, Chofuldandi	MoLGRD&C	Member
43.	Ms. Archana Prova Dey	MUP, Khurushkul	MoLGRD&C	Member
44.	Ms. Khaleda Mehabuba Akhter	MUP, Jhilanja	MoLGRD&C	Member
45.	Mr. Monirul Alam	Local Elite		Member
46.	Mr. Ajit Nandi	NGO Representative (BRAC)	NGO	Member
47.	Mr. Khorshed Alam	NGO Representative (Mukti)	NGO	Member
48.	NGO Representative	CARE BD	NGO	Member
49.	Mr. Raj Kumar Shil	Project Imp. Officer (PIO)	DDM	Member Secretary

ককসবজার সদর উপজেলা দুর্ঘটনা ব্যবস্থাপনা কমিটি
স্থানীয় দুর্ঘটনা ঝুঁকি নিরূপন বিষয়ক ৪র্থ কর্মশালায় অংশগ্রহণকারীদের নামের তালিকা
স্থান : এড. শাহাবুদ্দীন আহমদ মিলনায়তন, উপজেলা পরিষদ ককসবজার সদর, তারিখ: ২৫ জুলাই, ২০২৩

ক্র. নং	নাম	পদবী	পদবী	মোবাইল নম্বর ও ইমেইল
০১	জনাব কাউজারুল হক জুয়েল	উপজেলা চেয়ারম্যান	চেয়ারপার্সন	০১৮১৯-৪৮৭৮০১
০২	জনাব মো: জাকারিয়া	উপজেলা নির্বাহী কর্মকর্তা	কো-চেয়ারপার্সন	০১৭৩৩-৩৭৩২০১
০৩	জনাব মুজিবুর রহমান	মেয়র, ককসবজার পৌরসভা	সদস্য	০১৭১১-১১৭৮১১
০৪	জনাব রশিদ মিয়া	ভাইস চেয়ারম্যান, উপজেলা পরিষদ	সদস্য	০১৭৪৩৯০৭৪১২
০৫	জনাবা হামিদা তাহের	মহিলা ভাইস চেয়ারম্যান, উপজেলা পরিষদ	সদস্য	০১৭২৪৪৩৭৬২১
০৬	জনাব আবদুল কাদের গণি	নির্বাহী প্রকৌশলী বিদ্যুৎ উন্নয়ন বোর্ড	সদস্য	০১৭৫৫৫৮৩০১৭
০৭	জনাব জিলুর রহমান	সহকারী কমিশনার (ল্যান্ড)	সদস্য	০১৭৩৩-৩৭৩২০২
০৮	জনাব তৌহিদুল ইসলাম	উপজেলা প্রকৌশলী, এলজিইডি	সদস্য	০১৭০৮-১৬১২৭৩
০৯	জনাব মো: আল-আমীন	উপসহকারী প্রকৌশলী, ডিপিএইচই	সদস্য	০১৭৫৪-২৬৬৩৩৯
১০	জনাব মো: জাহিদ হাসান	উপজেলা কৃষি কর্মকর্তা	সদস্য	০১৭০০-৭১৫৬৭৫
১১	জনাব ভরাপদ চৌহান	উপজেলা মৎস্য কর্মকর্তা	সদস্য	০১৭১৭-৭৮৫১৭৬
১২	জনাব ডা: অসীম বরন সেন	উপজেলা প্রাণীজ সম্পদ কর্মকর্তা	সদস্য	০১৮১৮-৮৪৫৬৭২
১৩	জনাব আতিকুর রহমান চৌধুরী	উপপরিচালক, পরিসংখ্যান	সদস্য	০১৮১২-০৪২৯২৮
১৪	জনাব মাহবুবুর রহমান	উপজেলা যুব উন্নয়ন কর্মকর্তা	সদস্য	০১৮১৯-৮৪৭৯০৭
১৫	জনাব সুব্রত বিশ্বাস	উপপরিচালক মহিলা ও শিশু অধিদপ্তর	সদস্য	০১৭১৮-৪২৬৮৯২
১৬	জনাব জুয়েল ভূঁইয়া	উপজেলা আনসার ডিডিপি কর্মকর্তা	সদস্য	০১৮৩৫-৯৪১১৩১
১৭	জনাবা রোকসানা আক্তার কৃষ্টি	উপজেলা সমাজ সেবা কর্মকর্তা	সদস্য	০১৫৩৩৯২৬২৪৪
১৮	জনাব সাইফুল ইসলাম	উপজেলা পল্লী উন্নয়ন কর্মকর্তা	সদস্য	০১৯৯১-১৩৩৫০১
১৯	জনাব ডা: রাদিয়া আরফিন	উপজেলা স্বাস্থ্য ও পরিবার পরিকল্পনা কর্মকর্তা	সদস্য	০১৭১২-৩৭৫৮৩১
২০	জনাব সাঈদ উদ্দিন	উপজেলা খাদ্য কর্মকর্তা	সদস্য	০১৮১৭-৭৫০৬০৪
২১	জনাব মনিরুল হক গিয়াস	অফিসার ইনচার্জ (পুলিশ)	সদস্য	০১৭১৩-৩৭৩৬৬৩
২২	জনাব মো: সেলিম উদ্দিন	উপজেলা মাধ্যমিক শিক্ষা কর্মকর্তা	সদস্য	০১৮১৫-১১১১১৭
২৩	জনাব মো: সাইফুর রহমান	উপজেলা প্রাথমিক শিক্ষা কর্মকর্তা	সদস্য	০১৯৮৫-৪৮৯২০২
২৪	জনাব ডা: মো: রকিব উদ্দাহ	উপজেলা পরিবার পরিকল্পনা কর্মকর্তা	সদস্য	০১৮১৯৩২২৫০৫
২৫	জনাব হাসানুল আমিন	উপ-পরিচালক সিপিপি	সদস্য	০১৭১২০২৬৩০২
২৬	জনাব অতীশ চাকমা	উপ-সহকারী পরিচালক ফায়ার সার্ভিস ও সিভিল ডিফেন্স	সদস্য	০১৫৫৫০৩৮৫১৫
২৭	জনাব মাও: বাইরুল বশর সিরাজী	অধ্যক্ষ, ছুফতিয়া সিনিয়ার মাদ্রাসা	সদস্য	০১৮১৫৬৪৮৭০২
২৮	জনাব মো: সাইফুল ইসলাম	ইউনিট লেভেল অফিসার বাংলাদেশ রেড ক্রিসেন্টে সোসাইটি, ককসবজার	সদস্য	০১৭২৬৪৪৪৩৪২

২৯	জনাব মো: রাকিবুল আলম	এজিএম, পল্লী বিদ্যুৎ উন্নয়ন বোর্ড	সদস্য	০১৭৬৯৪০০৩৯০
৩০	জনাব মিথুন ওয়াছাদার	প্রতিনিধি - পানি উন্নয়ন বোর্ড	সদস্য	০১৮৩২৬৮২৭২৬
৩১	জনাব আলহাজ্ব ফসিউল আলম	সভাপতি বিভিআরভিবি	সদস্য	
৩২	জনাব আবুল কালাম	চেয়ারম্যান, ০১ নং ইসলামপুর ইউপি	সদস্য	০১৮১৯-৮৪৯৮৩৬
৩৩	জনাব রফিক আহমদ	চেয়ারম্যান, ০২ নং পোকখালী ইউপি	সদস্য	০১৮৪৩-২৬৬১৪৮
৩৪	জনাব মো: নূর সিদ্দিক	চেয়ারম্যান, ০৩ নং ইসলামাবাদ ইউপি	সদস্য	০১৭১৮-১১১৬১০
৩৫	জনাব মো: হৈয়দ আলম	চেয়ারম্যান, ০৪ নং দ্বিঙ্গা ইউপি	সদস্য	০১৮১১-৯৭৫৪৮৩
৩৬	জনাব ইমরুল হাসান রাশেদ	চেয়ারম্যান, ০৫ নং জালালাবাদ ইউপি	সদস্য	০১৮১৯-১৬৭৯৯৩
৩৭	জনাব মুজিবুর রহমান	চেয়ারম্যান, ০৬ নং চৌফলদন্ডি ইউপি	সদস্য	০১৮১৪-৭৭০৭৫৪
৩৮	জনাব কামাল উদ্দিন	চেয়ারম্যান, ০৭ নং ভারুয়াখালী ইউপি	সদস্য	০১৬১৪-৫০৪৮৮৮
৩৯	জনাব মো: আবদুল্লাহ	চেয়ারম্যান, ০৮ নং পিএমখালী ইউপি	সদস্য	০১৮১৫-৬৭৪১৮০
৪০	জনাব শাহজাহান সিদ্দিকী	চেয়ারম্যান, ০৯ নং খুরুশকুল ইউপি	সদস্য	০১৮১৮-৮০৯৪৩৮
৪১	জনাব টিপু সুলতান	চেয়ারম্যান, ১০ নং বিলংজা ইউপি	সদস্য	০১৮১৯-৩৩০৬১৮
৪২	জনাবা সাবিনা ইয়াছমিন	এমইউপি ০৬ নং চৌফলদন্ডি ইউপি	সদস্য	০১৮৬৭৯৬৭০৭৫
৪৩	জনাবা অর্চনা প্রভা দে	এমইউপি ০৯ নং খুরুশকুল ইউপি	সদস্য	০১৯৪২৪৯৪৩৯১
৪৪	জনাবা খালেদা মেহেবুবা আক্তার	এমইউপি ১০ নং বিলংজা ইউপি	সদস্য	০১৮৪০৮৭৮২২৭
৪৫	জনাব মনিরুল আলম	স্থানীয় গণ্যমান্য ব্যক্তি	সদস্য	
৪৬	জনাব অজিত নন্দী	এনজিও প্রতিনিধি - ব্র্যাক	সদস্য	০১৭৩০৩৫০৭০০
৪৭	জনাব খোরশেদ আলম	এনজিও প্রতিনিধি - মুক্তি	সদস্য	০১৮১৬৪৩৮৪৩২
৪৮		এনজিও প্রতিনিধি - কেয়ার	সদস্য	০১৬৮১৫০৪৬০৪
৪৮	জনাব ডা: শামসুল হুদা	উপজেলা কমান্ডার, মুক্তিযোদ্ধা কমান্ডার কাউন্সিল সদর	সদস্য	০১৮৪৯৮৩৮২৩৭
৫০	জনাব রাজ কুমার শীল	উপজেলা প্রকল্প বাস্তবায়ন কর্মকর্তা	সদস্য সচিব	০১৮৬৮২৩১৪২১



 রাজ কুমার শীল
 উপজেলা প্রকল্প বাস্তবায়ন কর্মকর্তা
 কক্সবাজার সদর, কক্সবাজার।

ককসবজার সদর উপজেলা দুর্যোগ ব্যবস্থাপনা কমিটি

স্থানীয় দুর্যোগ ঝুঁকি নিরূপন বিষয়ক ৪র্থ কর্মশালায় অংশগ্রহণকারীদের নামের তালিকা

স্থান : এড. শাহাবুদ্দীন আহমদ মিলনায়তন, উপজেলা পরিষদ ককসবজার সদর, তারিখ: ২৫ জুলাই, ২০২৩

ক্র. নং	নাম	পদবী	পদবী	মোবাইল নম্বর ও ইমেইল
০১	জনাব কাউছারুল হক জুয়েল	উপজেলা চেয়ারম্যান	চেয়ারপার্সন	০১৮১৯-৪৮৭৮০১
০২	জনাব মো: জাকারিয়া	উপজেলা নির্বাহী কর্মকর্তা	কো-চেয়ারপার্সন	০১৭৩৩-৩৭৩২০১
০৩	জনাব মুজিবুর রহমান	মেয়র, ককসবজার পৌরসভা	সদস্য	০১৭১১-১১৭৮১১
০৪	জনাব রাশিদ মিয়া	ভাইস চেয়ারম্যান, উপজেলা পরিষদ	সদস্য	০১৭৪৩৯০৭৪১২
০৫	জনাবা হামিদা তাহের	মহিলা ভাইস চেয়ারম্যান, উপজেলা পরিষদ	সদস্য	০১৭২৪৪৩৭৬২১
০৬	জনাব আবদুল কাদের গণি	নির্বাহী প্রকৌশলী বিদ্যুৎ উন্নয়ন বোর্ড	সদস্য	০১৭৫৫৫৮৩০১৭
০৭	জনাব জিল্লুর রহমান	সহকারী কমিশনার (ল্যান্ড)	সদস্য	০১৭৩৩-৩৭৩২০২
০৮	জনাব তৌহিদুল ইসলাম	উপজেলা প্রকৌশলী, এলজিইডি	সদস্য	০১৭০৮-১৬১২৭৩
০৯	জনাব মো: আল-আমীন	উপসহকারী প্রকৌশলী, ডিপিএইচই	সদস্য	০১৭৫৪-২৬৬৩৩৯
১০	জনাব মো: জাহিদ হাসান	উপজেলা কৃষি কর্মকর্তা	সদস্য	০১৭০০-৭১৫৬৭৫
১১	জনাব তরাপদ চৌহান	উপজেলা মৎস্য কর্মকর্তা	সদস্য	০১৭১৭-৭৮৫১৭৬
১২	জনাব ডা: অসীম বরন সেন	উপজেলা প্রাণীজ সম্পদ কর্মকর্তা	সদস্য	০১৮১৮-৮৪৫৬৭২
১৩	জনাব অতিকুর রহমান চৌধুরী	উপপরিচালক, পরিসংখ্যান	সদস্য	০১৮১২-০৪২৯২৮
১৪	জনাব মাহবুবুর রহমান	উপজেলা যুব উন্নয়ন কর্মকর্তা	সদস্য	০১৮১৯-৮৪৭৯০৭
১৫	জনাব সুব্রত বিশ্বাস	উপপরিচালক মহিলা ও শিশু অধিদপ্তর	সদস্য	০১৭১৮-৪২৬৮৯২
১৬	জনাব জুয়েল হুইয়া	উপজেলা আনসার ডিডিপি কর্মকর্তা	সদস্য	০১৮৩৫-৯৪১১৩১
১৭	জনাবা রোকসানা আক্তার বৃষ্টি	উপজেলা সমাজ সেবা কর্মকর্তা	সদস্য	০১৫৩৩৯২৬২৪৪
১৮	জনাব সাইফুল ইসলাম	উপজেলা পল্লী উন্নয়ন কর্মকর্তা	সদস্য	০১৯৯১-১৩৩৫০১
১৯	জনাব ডা: রাতিয়া আরফিন	উপজেলা স্বাস্থ্য ও পরিবার পরিকল্পনা কর্মকর্তা	সদস্য	০১৭১২-৩৭৫৮৩১
২০	জনাব সালেহ উদ্দিন	উপজেলা খাদ্য কর্মকর্তা	সদস্য	০১৮১৭-৭৫০৬০৪
২১	জনাব মনিরুল হক গিয়াস	অফিসার ইনচার্জ (পুলিশ)	সদস্য	০১৭১৩-৩৭৩৬৬৩
২২	জনাব মো: সেলিম উদ্দিন	উপজেলা মাধ্যমিক শিক্ষা কর্মকর্তা	সদস্য	০১৮১৫-১১১১১৭
২৩	জনাব মো: সাইফুর রহমান	উপজেলা প্রাথমিক শিক্ষা কর্মকর্তা	সদস্য	০১৯৮৫-৪৮৯২০২
২৪	জনাব ডা: মো: রাকিব উল্লাহ	উপজেলা পরিবার পরিকল্পনা কর্মকর্তা	সদস্য	০১৮১৯৩২২৫০৫
২৫	জনাব হাসানুল আমিন	উপ-পরিচালক সিপিপি	সদস্য	০১৭১২০২৬৩০২
২৬	জনাব অতীশ চাকমা	উপ-সহকারী পরিচালক ফায়ার সার্ভিস ও সিভিল ডিফেন্স	সদস্য	০১৫৫৫০৩৮৫১৫
২৭	জনাব মাও: বাহিরুল বশর সিরাজী	অধ্যক্ষ, ছুফতিয়া সিনিয়র মাদ্রাসা	সদস্য	০১৮১৫৬৪৮৭০২
২৮	জনাব মো: সাইফুল ইসলাম	ইউনিট লেভেল অফিসার বাংলাদেশ রেড ক্রিসেন্টে সোসাইটি, ককসবজার	সদস্য	০১৭২৬৪৪৪৩৪২


রাজ কুমার মীল
 উপজেলা প্রকল্প বাস্তবায়ন কর্মকর্তা
 ককসবজার



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
উপজেলা নির্বাহী অফিসারের কার্যালয়
সদর, কক্সবাজার
www.sadar.coxsbazar.gov.bd



স্মারক নং : ০৫.২০.২২২৪.০০০.০০.০০.২২- ১০৫

তারিখ : ২৬ আশ্বিন ১৪২৯ বঙ্গাব্দ
১১ অক্টোবর ২০২২ খ্রি.

বিষয়: The Project for Capacity Enhancement on Formulation and Implementation of Local Disaster Risk Reduction Plan (LDRRP) দীর্ঘকাল প্রকল্পের প্রকল্পের আওতায় “স্থানীয় দুর্যোগ ঝুঁকি নিরসন পরিকল্পনা” প্রনয়ণে কক্সবাজার সদর উপজেলার সাব-কমিটি গঠন প্রসংগে।

উপর্যুক্ত বিষয়ের আলোকে জানানো যাচ্ছে যে, দুর্যোগ ব্যবস্থাপনা অমিদপ্তর (ডিডিএম) কর্তৃক বাস্তবায়নায়ী কক্সবাজার সদর উপজেলা, কক্সবাজার “স্থানীয় দুর্যোগ ঝুঁকি নিরসন পরিকল্পনা” প্রনয়ণের লক্ষে উপজেলা দুর্যোগ ব্যবস্থাপনা কমিটির সম্মানিত সদস্যদের যথা থেকে সংশ্লিষ্ট দপ্তর/বিভাগ এর কর্মকর্তা এবং স্থানীয় জনপ্রতিনিধিদের সমন্বয়ে নিম্নোক্তভাবে একটি সাব-কমিটি গঠন করা হয়।

ইতোমধ্যে উপজেলা দুর্যোগ ব্যবস্থাপনা কমিটির সদস্যদেরকে নিয়ে “Risk and Hazard Analysis” বিষয়ক দুটি কর্মশালা সম্পন্ন হয়েছে এবং পৌরসভা ও ইউনিয়ন এবং বিভিন্ন দপ্তর থেকে প্রাপ্ত তথ্য-উপাত্ত সমূহ যাচা-যাচ পর্যায়ে অধিকতর যাচাই-বাছাইয়ের জন্য উপজেলা সাব-কমিটি কাজ করবেন।

ক্রমিক নং	কমিটির সদস্যদের নাম	পদবী	সাব-কমিটিতে পদবী
০১.	জনাব কাউছারুল হক জুয়েল	উপজেলা চেয়ারম্যান	সভাপতি
০২.	জনাব মোঃ জাকারিয়া	উপজেলা নির্বাহী কর্মকর্তা	সহসভাপতি
০৩.	জনাব তৌহিদুল ইসলাম	উপজেলা প্রকৌশলী, এলজিইডি	সদস্য
০৪.	জনাব পরাক্রম চাকমা	নির্বাহী প্রকৌশলী, কক্সবাজার পৌরসভা	সদস্য
০৫.	জনাব মোঃ জাহিদ হাসান	উপজেলা কৃষি কর্মকর্তা	সদস্য
০৬.	জনাব ডাঃ অসীম বকর সেন	উপজেলা প্রাণী সম্পদ কর্মকর্তা	সদস্য
০৭.	জনাব তরুণ চৌধুরী	উপজেলা মৎস্য কর্মকর্তা	সদস্য
০৮.	জনাব ডাঃ মোঃ আলী এহসান	উপজেলা স্বাস্থ্য পরিবার পরিকল্পনা কর্মকর্তা	সদস্য
৯.	জনাব মোঃ আল-আবীন	উপসহকারী প্রকৌশলী, ডিপিএইচই	সদস্য
১০.	প্রতিনিধি	প্রতিনিধি লানি উন্নয়ন বোর্ড, কক্সবাজার	সদস্য
১১.	জনাব রফিক আতশুজ্জাম	চেয়ারম্যান, ০২ নং পোকখালী ইউপি	সদস্য
১২.	জনাব মুজিবুর রহমান	চেয়ারম্যান, ০৬ নং চৌফলদাতি ইউপি	সদস্য
১৩.	জনাব মোঃ আল মামুন	উপজেলা প্রকল্প বাস্তবায়ন কর্মকর্তা	সদস্য সচিব


(মোহাম্মদ জাকারিয়া)
উপজেলা নির্বাহী অফিসার

সদর, কক্সবাজার

ফোন: ০৩৪১-৬৩৭১৫ ফ্যাক্স : ০৩৪১-৬৪৬৪১

E-mail : unocoxsbazar@mopa.gov.bd

2) UzDMC Sub-Committee members for LDRRAP

Sl. #	Name	Designation	Department/ Ministry	Position in Committee
01.	Mr. Kawsarul Haque Jewel	LGRD&C	Upazila Chairman	Chairperson
02.	Mr. Md. Zakaria	MoPA	Upazila Nirbahi Officer	Co-chairperson
03.	Mr. Touhidul Islam	LGED	Upazila Engineer	Member
04.	Mr. Porakrom Chakma	Cox's Bazar Municipality	Executive Engineer	Member
05.	Mr. Zahid Hasan	DAE	Upazila Agriculture Officer	Member
06.	Mr. Dr. Ashim Baran Sen	DoL	Upazila Livestock's Officer	Member
07.	Mr. Tarapada Chowan	DoF	Upazila Fisheries Officer	Member
08.	Dr. Md. Ali Ehasan	MoHFW	Upazila Health & Family Planning Officer	Member
09.	Mr. Md. Al Amin	DPHE	Sub-Assistant Engineer	Member
10.	Representatives	BWDB	Sub-Divisional Engineer	Member
11.	Mr. Rafiq Ahamed	Chairman	Pokkhali UP	Member
12.	Mr. Mujibor Rahman	Chairman	Chowfoldandi UP	Member
13.	Mr. Raj Kumar Shil	DDM	Project Implementation Officer (PIO)	Member

Attachment 3: Workshop and other planning activity photos in Cox's Bazar Sadar



Upazila Sub-committee (UzSC) meeting



1st Workshop with UzDMC



3rd Workshop with UzDMC



4th (Final) Workshop with UzDMC



Progress Sharing Meeting in DDMC with the agenda of discussion of the draft UzDRRAPs



Collection and Validation of local information and proposals with UP Chairman, in Jhilanja UP



Collection and Validation of local information and proposals with UP Chairman, in Pokkhali UP

