

## Development of Local Flood Early Warning and Dissemination System

### PROVATI3 Project-DDM Component

May 2024

#### Monthly Report

Regional Integrated Multi-Hazard Early Warning System (RIMES)

#### Section A

##### Progress Summary

- Meeting on Voice Message Broadcast System (VMB) Development
- Land Gauge Installation
- Flood Shelter Data Review
- Preparation for Abroad Training on Understanding Risk 2024
- TV/Display Board Installation for KIOSK Dashboard
- Volunteer Pool Development and Capacity Building Training
- Ongoing Topography Survey
- Training Plan

#### Section B

##### Activity I. Meeting on Voice message Broadcast System (VMB) Development

##### Progress

A meeting was held with BTCL, Teletalk and Grameenphone representatives on 30<sup>th</sup> May, 2024. The meeting was chaired by Netai Chandra Dey Sarker. The main discussion at the meeting was receiving IPTSP service from the telecommunication company to broadcast voice messages on flood forecast to the vulnerable community of the project area. During the meeting, representatives from Grameenphone demonstrated their existing IPTSP service.



Furthermore, delegates from Teletalk and BTCL contributed their insightful recommendations on this matter, indicating their readiness to provide services in this area. Teletalk Bangladesh was

requested to present their existing IPTSP services in the next meeting. In order to arrive at a final decision to receive this IPTSP service, another meeting will be organized at the earliest convenience.

#### Activity 2. Land Gauge Installation

##### (a) Construction

###### **Progress**

There is a provision of installation of 60 inundation gauges in the project area to validate Flood inundation map. Based on the latest recommendation from Technical Advisory Committee, locations to install land gauges have been selected. After the selection of the locations, the design and specification for the land gauge have already been developed and sent to the field facilitators to install land gauges. In three districts, three different Local vendors inspected the site and prepared land gauges according to design and specifications. The primary construction work for 60 land gauges has already been completed. The paint job and scale drawing are currently in progress on the finished gauges. Upon completion of the painting process, these gauges will be transported to their designated spots and installed accordingly.



##### (b) Field Visit for Land Gauge Supervision

###### **Progress**

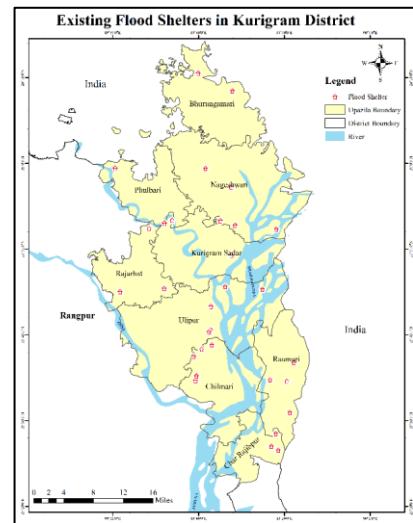
A field visit was conducted in Jamalpur, Gaibandha and Kurigram district to inspect the quality of construction work of the land gauge installation. During this visit, the build quality and work progress of the land gauges has been observed. The vendors were advised with recommendations from DDM and RIMES. It was also observed if all the requirements from PIU are being served. Currently the paint job and scale drawing in progress on the finished land gauge. For scale drawing a mold was taken from Dhaka office to the construction sites of the three districts. The local administration was informed about the ongoing activities and progress of the project.



#### Activity 4. Flood Shelter Data Review

##### Progress

As per directives from the Director General of DDM in the last quarterly meeting, flood shelter location identification has started. Field facilitators have collected a list of existing flood shelters from PIO officers in the project area to create a spatial flood shelter map with GPS coordinate. The field facilitators of three districts have been provided with an online data collection format to gather required information. Coordinate data (Latitude and Longitude) of flood shelters from these three districts has already been collected, and three maps have been created based on this data for each district. Maps are updated and reviewed for Dewanganj and Sarishabari upazila. Currently, shelter data are being reviewed for Mollar Char union, Gaibandha sadar upazila.



#### Activity 5. Preparation for Abroad Training on Understanding Risk 2024

##### Progress

To enhance disaster risk management practices and understanding disaster risk of natural hazards the Understanding Risk Forum 2024 (UR24) will be held in June 2024 in Himeji City, Hyogo prefecture. This forum will bring together Disaster Risk Management (DRM) experts and practitioners worldwide. From Provati3-DDM component project, DDM and RIMES officials will attend the forum to gather and share their knowledge and experience on



disaster risk management. They will participate in different sessions as panelists. A presentation will be given on linkage between artificial intelligence (AI) and anticipatory action (AA). A stall will be set up to showcase various activities of our Provati<sup>3</sup>-DDM component project. Preparations for the forum are currently underway.

#### Activity 6. TV/Display Board Installation for KIOSK Dashboard

##### Progress

KIOSK dashboard has been developing to display flood early warning messages through digital display boards in 19 upazilas. Based on the feedback received on last quarterly meeting, the app has been updated and finalized. Procurement for purchasing TV/Display boards to install KIOSK in 19 upazilas is currently underway. 50"/55" google TV or android display will be provided for kiosk dashboard installation.

## Activity 07. Volunteer Pool Development and Capacity Building Training

## Progress

Volunteer lists have been collected from the various NGO representatives, i.e. Friendship, CARE, SKS Foundation, ESDO, Islamic Relief Bangladesh (IRB), NDP, PARI Development Trust, Unnayan Sangha (US), RDRS Bangladesh. A Total of 6602 volunteer's data have been found. This data base could provide a well dissemination medium for flood EW.

The LCS member list from LGED has already been collected. In accordance with the draft National Volunteer Policy-2024, this list will undergo filtering and will be merged with the existing volunteer list. A new tab will be created in the DMC portal to store this volunteer database. Volunteer capacity-building training will be started as soon as possible.

## Activity 8. Ongoing Topographic Survey

## Progress

Through a topographic survey, digital elevation model data is being collected in the vulnerable areas along the Brahmaputra-Jamuna river system. Earlier data collection has been completed in Gaibandha. Recently, a second drone was added to the project for topographic surveying. Drone survey in Gaibandha and Jamalpur district is completed. Currently Drone team 2 is working simultaneously in Char Rajibpur upazila and Rowmari upazila of Kurigram district. Till May 2024, 1041.46 sqkm area has been surveyed through LiDAR drone. Data processing of these area is going on so that DEM data can be used to generate flood inundation mapping from this monsoon.



## Activity 9. Training Plan

## Progress

As per DPP, a draft training plan is prepared for 2024-25 fiscal year. Trainings should be carried out to create awareness on flood risk and its early warning and early action as per training plan.

## Section C

### **Challenges & Overcome Strategy**

- N/A

## Section D

### **Work plan for June Month**

- Continuation of topography survey
- Conducting of training on flood early warning and risk management for DMC members
- Conducting DMC portal training
- Land Gauge Installation
- Meeting for receiving IPTSP service for VMB
- Abroad Training on understanding risk 2024