

Development of Local Flood Early Warning and Dissemination System

PROVATi3 Project-DDM Component

April - June 2023

Quarterly Report

Regional Integrated Multi-Hazard Early Warning System (RIMES)

Section A

Progress Summary

- Quarterly Progress (January-March) Sharing Meeting of PROVATi3 Project-DDM Component
- Annual progress-sharing workshop
- DMC database inauguration
- IEC material preparation
- DMC training at Gaibandha and Jamalpur
- Topographic survey in project area
- Land gauge installation: Consultation on area selection
- Preparation for training on DMC portal at Jamalpur
- Vulnerability score calculation and map generation
- IFAD support mission
- Technical advisory committee (TAC) meeting
- Meeting on Voice Message Broadcast (VMB)

Section B

Activity I. Quarterly (January-March) and Monthly progress Sharing Meetings of PROVATi3 Project-DDM Component

Progress

4th quarterly Progress sharing meeting of the PROVATi3 project-DDM component was held at DDM on 18 April 2023 with DDM, LGED, and RIMES professionals. The meeting took place to identify and discuss project progress and the issues that emerged as challenges in various activities of "Development of Local Flood Early Warning and Dissemination System".

Md. Mizanur Rahman, Director General, Department of Disaster Management, chaired the meeting while Netai Chandra Dey Sarker, Director (MIM) & Project Coordinator, Provati3 Project-DDM Component, DPC (ICT), DPC (GIS-RM), RIMES Team Leader, Program manager, and other officials of the PROVATi3 project participated in the meeting. The program manager started the discussion highlighting the previous activities done in last quarter



(October- December, 2022). Different issues such as DMC database update, DMC members training, river gauge installation etc were discussed in the last quarterly meeting.

Activity 2. DMC training on Flood risk and Early warning system at Jamalpur and Gaibandha

Progress

As per project activity plan, total 5 DMC members training has been held in Gaibandha and Jamalpur district. DMC training was held at Gaibandha Sadar and Sadullapur upazila, Gaibandha on 18 May 2023, at Dewanganj and Islampur on 25 May, and at Melandaha, Jamalpur on 5 June 2023. Honourable DG MD. Mizanur Rahman inaugurated all the training sessions via online platform. The program was chaired by Netai Chandra Dey Sarkar, Director (MIM) and Project Coordinator of PROVATi³ project-DDM part. The training sessions were continued with upazila-level DMC members as participants including UNO, DRRO, UP chairman of respective upazilas. DDM, BWDB and RIMES representatives serve there as trainers in different sessions. DMC members are trained up on basic disaster terminologies, flood early warning and their roles and responsibilities during disasters.



Activity 3. Annual progress-sharing workshop

Progress

1st annual progress-sharing workshop has been held on 5th April 2023 at Pan Pacific Sonargaon, Dhaka. In this workshop, the overall progress of all the activities that have been done till March 2023 under this project have been presented. State Minister of Disaster Management and Relief Ministry, Dr. Md. Enamur Rahman MP was the chief guest and Director General, Department of Disaster

Management Md. Mijanur Rahman presided the workshop. Special guests were MoDMR Secretary Md. Kamrul Hasan NDC, guest of honour BWDB Additional Director General Amirul Haq Bhuiyan and LGED Chief Engineer, Sk. Md. Mohsin. Besides, representatives of various national and international organizations were present in the workshop. Participants shared their suggestions and opinions over the progress which will be counted in the future activities.



Activity 4. DMC database inauguration

Progress

DMC database was developed under this project with the technical support of RIMES. Initially, it contains all the DMC members information of the project area which is officially handed over to DDM through an inauguration ceremony held on 5th April 2023 in the same program of annual progress sharing workshop. Md. Mominur

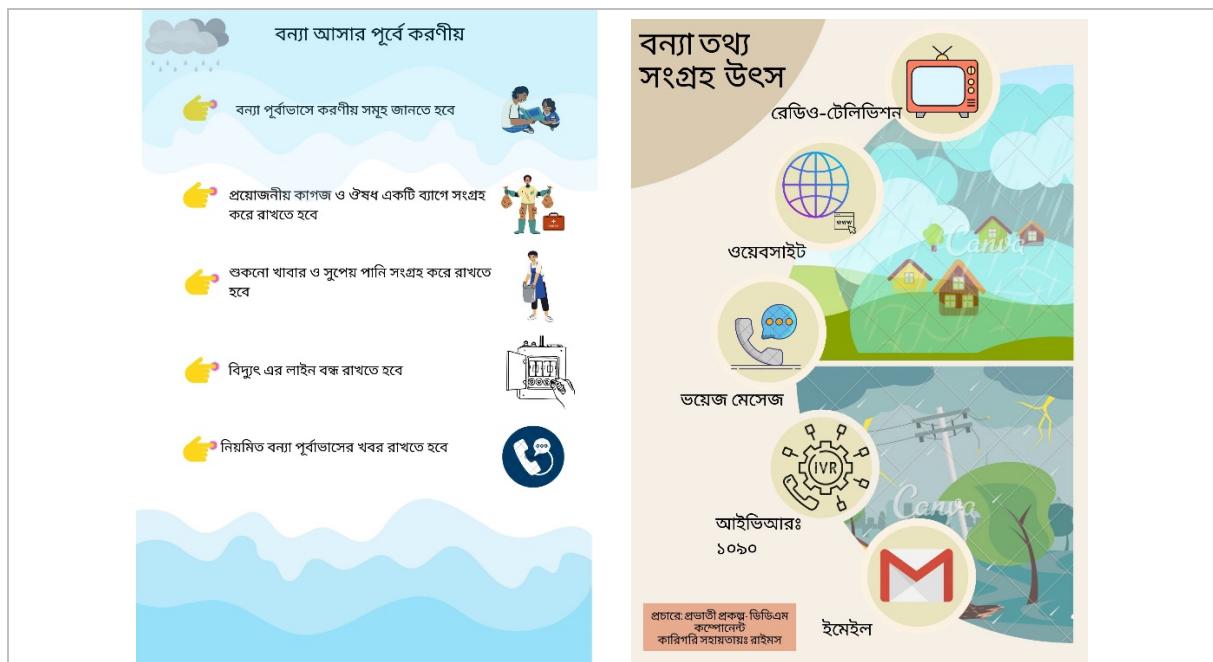


Rahman, ICT Specialist present a short demonstration on DMC database. Chief guest of the workshop Dr. Enamur Rahman MP, State minister, MoDMR inaugurated the database and mentioned it as a great initiative.

Activity 5. Development of IEC material

Progress

As Information, Education and Communication (IEC) materials 2 draft poster have been prepared to raise awareness of the project's target population. One poster contains information about source where people can easily get flood early warning and 2nd poster display the early action that should be maintained before flood occurrence.



Activity 6. Land gauge installation: Consultation on area selection

Progress

This component has provisions to install land gauges across its project area to validate the accuracy of inundation mapping. To initiate this process, consultation for installing land gauges has been going on. Field facilitators are visiting each union parishad office and discussing about potential suitable spots for installing land gauges. For every union, at least three locations are being selected upon UDMC suggestion. Overall consultation progress is as follows

District	Consultation covered (No of Unions)	Consultation remaining (No of Unions)	Existing gauge identified (No of Gauges)
Gaibandha	9	2	7
Kurigram	16	9	11
Jamalpur	12	0	15

Activity 7. Training Plan

Progress

As per DPP, number of trainings should be carried out to create awareness on flood risk and its early warning and early action. A training plan is already developed for 2023-24 fiscal year. DMC members training preparation has been ongoing.

Activity 8. Training on DMC portal at Jamalpur

Progress

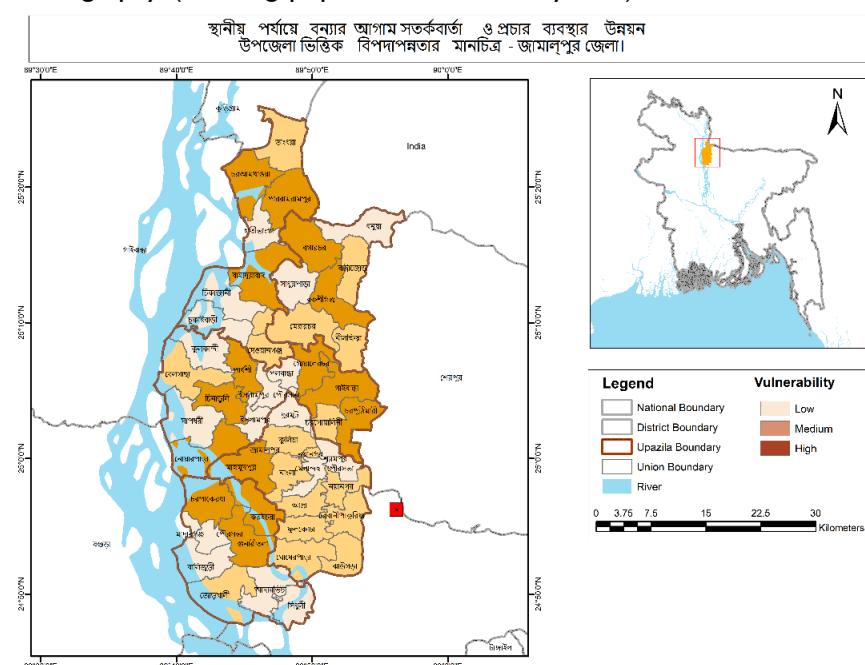
DMC database was developed under this project with the technical support of RIMES. Initially, it contains all the DMC members information of the project area. These information will further be updated by respective DMC committee by themselves which can be used in time of emergency. For this reason, a training is provided to Project Implementation officers and Paura Nirbahi Officers of Jamalpur on 6th June 2023. A video tutorial is also prepared as a supporting material. Mobinur Rahman, ICT specialist demonstrated the portal. Participants exercise the portal instantly and made few edit by themselves.



Activity 9. Vulnerability score calculation and map generation

Progress

Vulnerability scores have been calculated for all the unions of the project area. Multiple social indicators have been used to calculate the overall vulnerability. To calculate the vulnerability score, the sensitivity and adaptive capacity of the area are considered. Infrastructure (house, road) and demography (poverty, livelihood, and dependency) data have been used for sensitivity calculation. And for adaptive capacity, demography (working population and literacy rate), and infrastructure (hospital, evacuation facility, availability of embankment) indicators are used. Combining the values of these indicators, a single score for each union has been calculated. Based on the vulnerability score, a map has been generated showing the comparison between unions of Jamalpur district.



Activity 10. Topography survey in the project area

Progress

To develop forecast based inundation map, topographic survey has been being continued till the last week of June. A large area of Gaibandha and Jamalpur district have already been surveys using Lidar sensor. Till the end of June, total 703 sqkm of land has been surveyed. The survey is currently postponed due to monsoon and will resume right after the season ends.



Activity 11. IFAD project support mission

Progress

As a donor agency, IFAD continuously monitor the activities of the project. To monitor field level activities, IFAD representatives visited Jamalpur on 6th June 2023. Mission monitored the topographic survey and DMC portal demonstration. They also discussed different issues raised during accomplishment of different activities under project.



Activity 12. Meeting on Voice message Broadcast

Progress

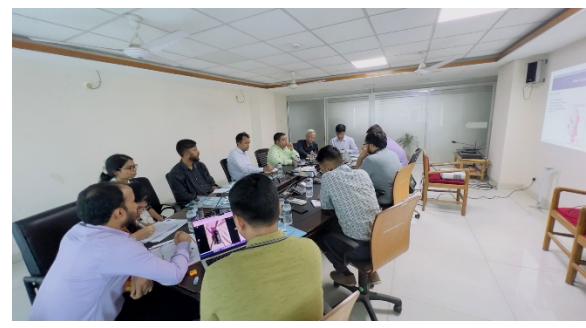
A meeting was held with Teletalk and BTCL representatives on 18th June 2023. The meeting was chaired by Netai Chandra Dey Sarkar. The main discussion at the meeting was receiving API service from the telecommunication company to broadcast voice messages on flood forecast to the vulnerable community of the project area. Representatives from the mentioned telecommunication company shared their observations and suggestion on this topic and said to help in this respect.



Activity 13. Technical Advisory Committee meeting

Progress

The technical advisory committee meeting was held on 25th June 2023. The meeting was chaired by Netai Chandra Dey Sarker. Arifuzzaman Bhuyan, Superintendent Engineer, FFWC; Arif Hossain, Meteorologist, Bangladesh Meteorological Department; Abrar Hossain, Assistant Professor, Department of Disaster Science and Climate Resilience, University of Dhaka; PROVATi3 project-DDM part team were physically presented in the meeting. A.K.M. Saiful Islam participated in the meeting via online platform. They shared their expert opinion on location selection of river gauge and land gauge, inundation mapping methods. Another meeting will be held very soon on inundation mapping techniques.



Section C

Challenges & Overcome Strategy

- Though it is planned to run drone survey parallel in two districts, two sensors is not available right now. It is proposed to procure/ rent another LiDAR sensor to conduct the survey as soon as possible.
- As land gauges and river gauges are not installed yet, localized inundation map could not be generated As a result no forecast can be given to the project area in this monsoon.

Section D

Work plan for June Month

- Conducting training on flood early warning and risk management for DMCs at Kurigram
- Consultation in the rest of the unions for land gauge instalment
- Planning for National and Upazila level training on DMC database
- Coordination with BTCL for VMB portal
- New river gauge consultation planning and installation
- Workshop on draft IEC material
- Resume topography survey at the end of monsoon season