

**Development of Local Flood Early Warning and Dissemination System**  
**PROVATI3 Project-DDM Component**  
**January - March 2024**  
**Quarterly Report**

Regional Integrated Multi-Hazard Early Warning System (RIMES)

**Section A**

**Progress Summary**

- Training on DMC portal management
- Training on Flood Early Warning and Risk Management
- Land gauge Installation
- Flood shelter data collection and Mapping
- Vulnerability map preparation
- Kiosk dashboard development
- Volunteer pool development and Capacity Building Training
- Ongoing topographic survey at Kurigram
- IFAD Mission with LGED

**Section B**

**Activity I. Training DMC portal management**

**(a). Gaibandha**

**Progress**

A Disaster Management Committee database was developed under this project with the technical support of RIMES containing the information (Name, phone no, designation, affiliation and email) of all level DMC members. Now, it contains all the DMC members' information of the project area which can be updated with the 64 district DMC member information if needed in future. As this DMC committee reforms every year, it is important to update them from the root level or by respective DMC member. For this reason, representatives of each DMC members need to be trained on how to search for DMC members list; update, edit or delete information, upload DMC meeting resolution or additional things of the portal. Two (02) training sessions were held at TTC Gaibandha for Fulchhari and



Saghata upazila on 29 January 2024. Both training programs were chaired by Netai Chandra Dey Sarkar, Director (MIM) and Project Coordinator of the PROVATI<sup>3</sup> project-DDM component. Md. Mobinur Rahman, ICT specialist demonstrated the portal use. Participants of the training were UP secretary of respective unions, their office assistants, PIOs of respective upazilas and their secretaries, and UDC entrepreneurs.

#### (b) Kurigram

##### **Progress**

Two (02) training sessions were held at TTC Kurigram for Ulipur and Chilmari upazila on 22 February, 2024. These programs were chaired by Netai Chandra Dey Sarkar, Director (MIM) and Project Coordinator of the PROVATI3 project-DDM component. Mobinur Rahman, ICT specialist demonstrated the portal use. Participants of the training were UP secretary of respective unions, their office assistants, PIOs of respective upazilas and their secretaries, and UDC entrepreneurs. A total of 11 trainings have been completed, and 12 DMC portal trainings remain to be done.



#### Activity 2. Training on Flood Early Warning and Risk Management at Gaibandha and Kurigram

##### **Progress**

Training sessions on flood early warning and risk management were held in January and February. One batch in Sundarganj upazila of Gaibandha district on January 28, 2024, and another one held at Ulipur upazila of Kurigram district on February 22, 2024. Honourable Director General of DDM Md. Mijanur Rahman was the chief guest of the training and inaugurated the training session via online platform. The program was chaired by Netai Chandra Dey Sarker, Director (MIM) and Project Coordinator of PROVATI<sup>3</sup> project-DDM part. The training sessions were continued with upazila-level DMC members as participants including AC(Land), PIO, UP chairman of respective upazilas and other members of union and upazila level DMC. DDM, BWDB and RIMES representatives facilitated the training workshop as trainers in different sessions. DMC members were trained up on basic disaster

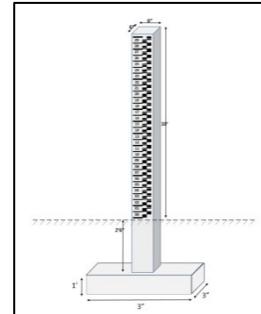
terminologies, flood forecasting system, early warning and their roles and responsibilities during disaster. A total of 14 trainings have been completed, and 5 Early warning and risk management trainings remain to be done.



### Activity 3. Land gauge Installation

#### Progress

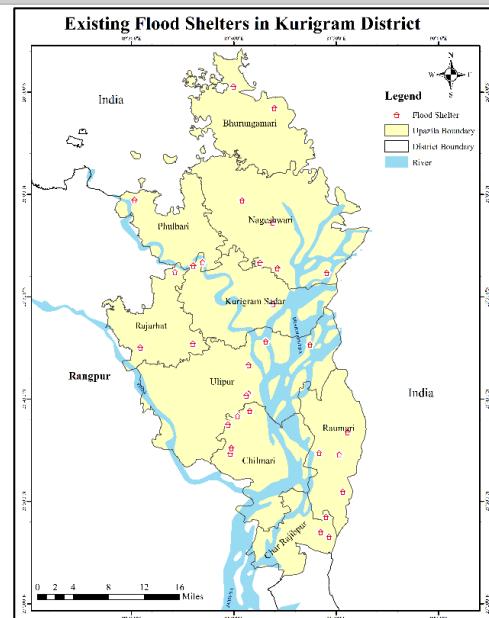
There is a provision of installation of 60 inundation gauges in the project area. Based on the latest recommendation from Technical Advisory Committee, these locations have been finally selected. After the selection of the locations, the design and specification for the land gauge have already been sent to the field facilitators. They are now working on it to install land gauges as soon as possible at the selected locations.



### Activity 4. Flood shelter data collection and Mapping

#### Progress

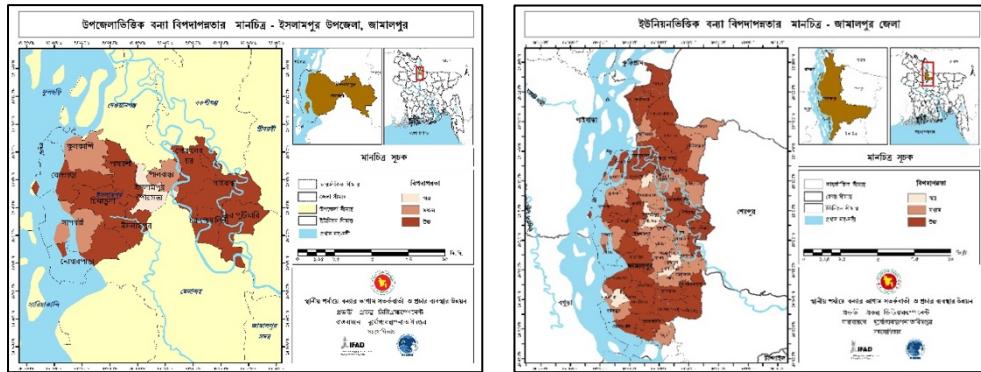
As per directives from the Director General of DDM in the last quarterly meeting, flood shelter location identification has started. Field facilitators has collected a list of existing flood shelters from PIO officers in the project area to create a spatial flood shelter map with GPS coordinate. The 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.



## Activity 5. Vulnerability map preparation

### Progress

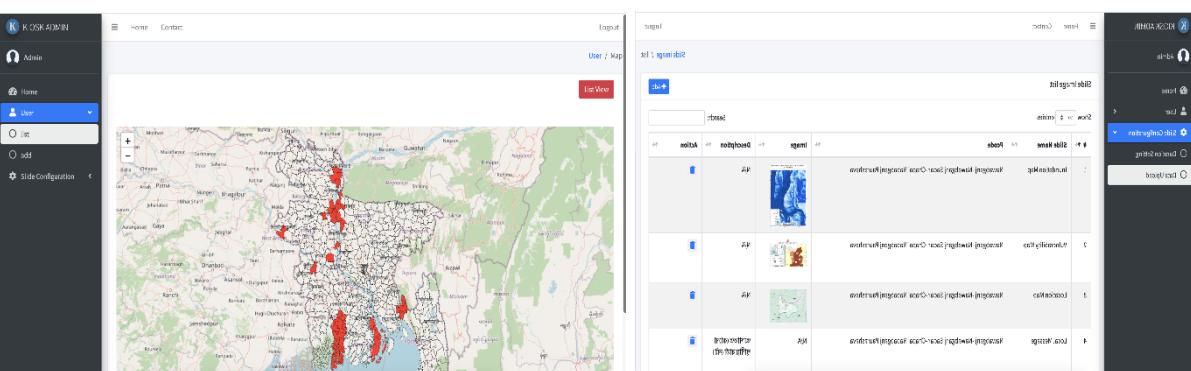
Based on secondary data sources vulnerability calculation has been performed. Vulnerability maps have been prepared for union level and upazila level for Gaibandha, Jamalpur and Kurigram districts. After final approval these maps will be sent to project area upazilas.



## Activity 6. Kiosk dashboard development

### Progress

KIOSK dashboard has been developing to display flood early warning messages through digital display boards. According to the comments received at the last meeting, the admin panel of the kiosk dashboard has been updated, and flood inundation and vulnerability map has been added. The admin panel is customized, where two tier of users has created: admin-level and local-level. Local level user can display customized messages where Admin level user will control overall data and slide display.



## 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 volunteers data have been found. This data base could provide a well dissemination medium for flood EW.

To train up and ensure ownership of volunteers, LCS members of PROVATi-LGED will be trained for flood EW dissemination. They will play vital role for door-to-door dissemination for early warning during monsoon.

#### Activity 8. Topographic survey at Kurigram

##### 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. Both drones are working simultaneously in Bakshiganj upazila of Jamalpur District, and Char Rajibpur upazila of Kurigram district. Till March 2024, 868 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. IFAD Mission with LGED

##### Progress

Along with LGED and local government officials, the country director of IFAD visited multiple project locations. He inaugurated a school cum flood shelter and delivered a speech for the audience. After the inaugural session, IFAD and LGED witnessed the drone survey on the 18th March 2024 at Banga Sonahat of Bhurungamari upazila in Kurigram district. The survey was broadcast on the screen while the GIS Specialist of PROVATi3-DDM Component Asif Mahmud Anik demonstrated the mechanism of data collection and how the collected data shall be used to prepare inundation mapping voice messages afterward. Later he explained the voice message dissemination process to the audience.



## Section C

### **Challenges & Overcome Strategy**

- Topographic survey need to be completed during 2024 to develop forecast based inundation mapping.

## Section D

### **Work plan for next Quarter**

- Conducting of training on flood early warning and risk management for DMCs in project area
- DMC portal training continuation
- Installation of Land gauge
- Continuation of Topographic survey
- Commencement of Volunteer training
- Organization of Annual Progress Sharing Workshop
- KISOK dashboard development completion