

Innovation for Climate Adaptation and Resilience (iCARE)

Digital Innovation in Early Warning Systems: Building Climate Resilience in Bangladesh

Six Monthly Progress Report

Reporting period: Jan– June 2024

Prepared by:
Practical Action in Bangladesh

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1. Project Information

Project Title:	Digital Innovation in Early Warning Systems: Building Climate Resilience in Bangladesh
Project Code:	WBCAR
Partner Organisation:	No implementing partner, Practical Action in Bangladesh is directly implementing the innovation
Reporting Period:	01 January 2024 – 30 June 2024
Date of Submission:	31 July 2024
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Status of project progress in this reporting period	<input type="checkbox"/> Significant delay <input type="checkbox"/> Delay <input checked="" type="checkbox"/> On Track
Report sign Off	<input checked="" type="checkbox"/> I have reviewed all the information provided for each section including number of beneficiaries. The information provided for each section of the report is complete. Name: Tamanna Rahman Designation: Thematic Lead-CnR

2. Summary of the Achievements

Overall Progress:

The project has achieved substantial progress in advancing community resilience and enhancing early warning dissemination channels in Char Bhadrasan, Gazirtek; Koyra, Uttar Bedkashi; Protap Nagar and Sreeula Unions under the Districts of Faridpur, Khulna and Satkhira, Bangladesh. Following the successful completion of staff orientation, field level inception the team has initiated project activities and forged key partnerships with the Union Parishad to align with the activity plan.

The 'Disaster alert for Bangladesh' app-based awareness campaign was conducted during an extreme heatwave in April, successfully reaching local communities through comprehensive engagement of the community. The six-month data revealed **562 households** having installed the Disaster Alert App and 132 committing to install it later. Despite notable gender imbalances in mobile usage efforts are ongoing to increase women engagement in building community resilience. Altogether **38,232** are active users of the apps. The project team with the innovative app responded effectively to the severe heatwave in May'24, temperatures soar to a record 43.7°C, by disseminating alerts and advisories. This intervention improved heatwave safety awareness among **92% of recipients**.

The app's recent upgrade, finalized with the SSL software Ltd., is currently in the field rollout phase with volunteers. In late May'24, the project played a crucial role during catastrophic Cyclone 'Remal,' which struck at the Khepupara area in Patuakhali district, Bangladesh, boasting a peak wind speed of 111 km/h. The cyclone, coupled with intense rainfall, led to flooding ranging from 1.5 to 2.4 meters and a 2.2 meters storm surge in the coastal areas. Timely alerts were sent to **34,670 households**, and early warning voice messages effectively prompted evacuation actions through **3,000 CPP Programme volunteers**.

The project also provided critical support during the June'24 flash floods in the north-east of Bangladesh, utilizing the Alert app to disseminate location-specific warnings and boatmen contact information, aiding rescue efforts for the vulnerable communities. Additionally, seven training sessions have been completed for Union Disaster Management Committee (UDMC) members and Cyclone Preparedness Programme (CPP) volunteers, reaching 150 community people and volunteers with over 50% of participants being women. A [social media platform](#) has been established to engage a broader audience and enhance volunteer involvement.

To measure the impact of our innovation on the community we have conducted a rapid impact assessment at the field level. Following a purposive sampling method, 106 user feedback has been captured through household survey, and key informant interviews. A combination of closed and open-ended questions was used to get a better understanding of effectiveness of early warning provided during cyclone Remal, Heatwave and flash flood using the apps.

83% (N=106) of the community members who participated in this assessment had fully understand the early warning information, while **22%** partially understood the messages, while only 1% didn't understand as they do not use smartphones.

In terms of **gender mainstreaming**, 60% women mentioned that they partially understood the warning whereas 40% women fully understood the messages. In terms of usefulness of the early warning messages 86% mentioned they found it very useful. Percentage of women and men finding the messages to be very useful is 40% and 60%.

In terms actions taken based on the warnings 92% of the respondents mentioned that they have taken early actions. 50% women respondents have taken early actions in comparison to 55% men. Additionally, 85% mentioned that they managed to reduce their losses and damages because of the early warnings and early actions. Overall, 84% of the respondents were satisfied about early warning overall performance and found it to be a valuable tool for being informed and better prepared during a disaster.

Output Description	Activity Description	Target	Achievement	Output wise Achievement %
Output 1.1: 37,214 households received early warnings before an impending disaster.	Activity 1.1.1 Conduct baseline/situation analysis of the project	1	1	125%
	Activity 1.1.2: Prepare database of shelter centres, hospital, relief centre, nearby volunteers etc.	1	1	
	Activity 1.1.3: Disseminate early warnings through app	14	8	
Output 2.1: 37,214 households have access to regular weather forecast, climate induced disaster related information and subsequent risk mitigation measures.	Activity 2.1.1: App updated for latest Android version.	1	1	106%
	Activity 2.1.2: Update features in App (how many users taking early actions based on the warning, how many users	1	1	
	Activity 2.1.3: Field Test of app	1	1	
	Activity 2.1.4: Training and refresher at the field level	12	6	
Output 2.2: 37,214 households received livelihood specific advisories.	Activity 2.2.1: Provided advisories at household level through app	14	8	111%
	Activity 2.2.2: Develop billboard/TVC/BCC materials	4	2	
Output 2.3: 70% households have taken decision based on received information and advisories	Activity 2.3.1: User experience survey	1	1	33%
	Activity 2.3.2: Development of results/info briefs	2	0	
Output 3.1: Training and awareness raising among UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them.	Activity 3.1.1: Project inception workshop with relevant Government departments	1	1	73%
	Activity 3.1.2: Training for UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them	6	6	
	Activity 3.1.3: Mock drill	12	0	
Output 3.2: Follow-up and extension support to UDMC members and CPP volunteer, especially women, to promote service use.	Activity 3.2.1: Meeting with UDMCs	30	12	82%
	Activity 3.2.2: Advocacy events with different stakeholders	5	2	
	Activity 3.2.3: Project closing workshop	1	0	

3. Summary of Project Beneficiaries

- **Direct Project Beneficiaries: 38,232**
- **Indirect Project Beneficiaries: 173,573 (Male-85,884 Female- 87,689)**

In the reporting period, A total of 38,232 direct beneficiaries and 173,573 indirect beneficiaries (Male-85,884 Female- 87,689) were reached by the project activities and by getting early warning messages. Among the total, 38,232 people received messages through the app and 562 reached by direct household visit.

The direct beneficiaries of this project include residents of vulnerable areas who have received early warnings through a range of digital and in-person interventions. These include alerts and notifications via the Disaster Alert for BD app, early warning voice messages, social media campaigns, and support from local community volunteers. Additionally, households/community members whom we have directly reached out to are also counted as direct beneficiaries. Indirect beneficiaries are estimated by multiplying the number of direct beneficiaries by the average household size in Bangladesh, which is 4.53.



“Once, I felt powerless and vulnerable, unsure how to protect myself and my livelihood from the cyclone Remal that came. But now, thanks to the disaster alert app, I have the knowledge and tool I need. With each warning I receive, I feel secured, knowing I can act and protect what matters most.”

- Nasima begam

4. Performance Outcome Mapping

Table 2: Implementation progress as of 30th June 2024

Description	Approved budget (in US\$)	Actual expenditure in US\$	Target	Result/achievement
Outcome 1: Improved Early Warnings and Early Action for climate induced hazards reaches the last mile to minimize losses and damages of livelihoods and assets.				
Output 1.1: 37,214 households received early warnings before an impending disaster.				
<i>Activity 1.1.1 Conduct baseline/situation analysis of the project</i>	2,803	2,803	5 FGDs and 5 KII within the six union to understand community perceptions, experiences, and needs related to disaster preparedness, response, and recovery	5 FGDs and 5KII were conducted with community peoples, relevant stakeholders including government officials and Union Parishad representative.
<i>Activity 1.1.2: Prepare database of shelter centres, hospital, relief centre, nearby volunteers etc.</i>	1,219	1,219	37,214 (169,188 people, Male- 82,309 Female- 86,879) households will be benefited from the App	38,232 (173,573 people, Male- 85,884 Female- 87,689) benefited during cyclone remal, heatwave and flash flood from App

Description	Approved budget (in US\$)	Actual expenditure in US\$	Target	Result/achievement
<i>Activity 1.1.3: Disseminate early warnings through app</i>	1,219	719	14 natural disaster time, early warning disseminate through digital means	8 Natural disaster time, early warning issued through app during cyclone remal, heatwave and flash flood
Outcome 2: Improved access to information and advisory services.				
Output 2.1: 37,214 households have access to regular weather forecast, climate induced disaster related information and subsequent risk mitigation measures.				
<i>Activity 2.1.1: App updated for latest Android version</i>	2,803	2,803	37,214 (169,188 people, Male- 82,309 Female- 86,879) households will be benefited from the App	38, 232 (173,573 people, Male- 85,884 Female- 87,689) benefited to take risk informed decision
<i>Activity 2.1.2: Update features in App (how many users taking early actions based on the warning, how many users</i>	6,000	5,000	37,214 (169,188 people, Male- 82,309 Female- 86,879) households will be benefited from the App	38, 232 (173,573 people, Male- 85,884 Female- 87,689) benefited during cyclone remal, heatwave and flash flood from App
<i>Activity 2.1.3: Field Test of app</i>	1,408	408	75 stakeholders	73% (n=75) of the respondents were satisfied with 'what to do information during a disaster',

Description	Approved budget (in US\$)	Actual expenditure in US\$	Target	Result/achievement
				whereas 92% mentioned that they were very satisfied with the information. 100% mentioned that the hazard information is relevant to their geographic locations
<i>Activity 2.1.4: Training and refresher at the field level</i>	2,000	400	375 (households) participants	562 (households) participants
Output 2.2: 37,214 households received livelihood specific advisories.			37,214 (169,188 people, Male-82,309 Female-86,879) households will receive livelihood specific	38, 232 (173,573 people, Male-85,884 Female- 87,689) receive livelihood specific advisories
<i>Activity 2.2.1: Provided advisories at household level through app</i>	1,000	450	14 times early waring advisory through digital means	8 times early waring advisory issued through app
<i>Activity 2.2.2: Develop billboard/TVC/BCC materials</i>	4,539	100	4 promotional materials design, develop and instal	2 promotional materials design were completed for installation
<i>Output 2.3: 70% households have taken decision based on received information and advisories</i>				
<i>Activity 2.3.1: User experience survey</i>	1,000	1,000	375 (households) participants	Not initiated
<i>Activity 2.3.2: Development of results/info briefs</i>	2,000	-	2	Not initiated
Outcome 3: Strengthened Institutional capacity at the local level for EW dissemination.				

Description	Approved budget (in US\$)	Actual expenditure in US\$	Target	Result/achievement
<i>Output 3.1: Training and awareness raising among UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them.</i>				
<i>Activity 3.1.1: Project inception workshop with relevant Government departments</i>	3,778	894.16	70 participants Govt and NGO official	70 participants Govt and NGO official attend to validate project objective
<i>Activity 3.1.2: Training for UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them</i>	3,195	2,465.25	6 batches of training with a total of 120 participants	We have completed 6 batches of training, total 120 participants these trained members will continue to assist the community alongside local government partners
<i>Activity 3.1.3: Mock drill</i>	2,000	-	12	Not initiated
<i>Output 3.2: Follow-up and extension support to UDMC members and CPP volunteer, especially women, to promote service use.</i>				
<i>Activity 3.2.1: Meeting with UDMCs</i>	3,000	1,124	30 meeting with UDMCs to activate the committee	12 (4 times, 3 union) meetings were conducted with UDMC to activate the UDMC committee
<i>Activity 3.2.2: Advocacy events with different stakeholders</i>	3,539	524	5 events	Two events were completed: one focused on collaboration with Banglalink and the other on working with UDMCs
<i>Activity 3.2.3: Project closing workshop</i>	4,000	-	70 participants (govt. & NGO official)	Not initiated
Total	45,503	19,909.98		

5. Partnership

Collaboration with Banglalink¹-one of the biggest telecom operators in Bangladesh is underway for integrating the disaster alerts and exploring USSD² technology for broader reach in low-connectivity areas. A letter of agreement (LoA) is also under progress with the Department of Agricultural Extension (DAE) under the Ministry of Agriculture on integrating their regular advisories from the [BAMIS](#)³ portal into our application and voice messaging services. Practical Action is now a member of the national Committee for 'Speedy Dissemination of Special Disaster Warning Message and Determining Strategy', (the only NGO in Bangladesh to be a member of this committee) led by the Department of Disaster Management (DDM) under the Ministry of Disaster Management and Relief (MoDMR) as per the 'Standing Orders on Disaster' (SOD)- 2019.

Our key stakeholders like the local Government Entities: Union Parishad (UP), Union Disaster Management Committee (UDMC) members: consisting of 25 different types of stakeholder groups like the local volunteers from Red Crescent Society, local elites, UP members, schoolteacher, religious leaders, local NGO representative, local Gov. institute representatives, vulnerable community, scouts, journalists among others and the CPP Volunteers managed to strengthen their capacities on disseminating timely warnings through our mobile-based apps.

In-depth trainings were provided by Practical Action team on basic DRR, types of early warning information, how to access such information from digital channels, types and signals meanings signals for Cyclone early warnings among others. Detailed trainings were provided on how to use the mobile-based application, and how to disseminate messages to the community after getting an alert. Additionally, four UDMCs have been formed in four Unions, and the members have been trained on similar aspects including their roles and responsibilities in disseminating early warnings and taking early actions as per the SOD.

6. Sustainability

Practical Action is one of the founding members of the global [Zurich flood resilience alliance](#) , a multi-sectoral partnership focusing on finding practical ways to support communities in developed and developing countries strengthen their resilience to flood risk. Over the past decade, funding from the Z Zurich Foundation has supported our innovation, "The Disaster Alert for BD" app since 2020. This effort has further strengthened with the funding support from ADPC. Hence, our innovation the apps, is linked to Practical Action's all relevant climate and resilience focused ongoing projects, such as the Zurich Climate Resilience Programme (Phase III), which is active in the Faridpur, Khulna, and Satkhira districts, where similar early warning systems (EWS) interventions are being implemented.

We have trained local and government supported CPP volunteers with assistance from the Union Parishad and UDMCs. Following the project's completion, these volunteers will continue to assist the community alongside local government partners. The UDMCs in our working Unions have been reformed and are operational, with CPP volunteers in the coastal districts of Satkhira and Khulna actively engaged. They will maintain their efforts in early warning dissemination and response and recovery activities even after the project ends. We will provide the local Union and Upazila Parishad with a complete list of project beneficiaries, trained volunteers, and all relevant

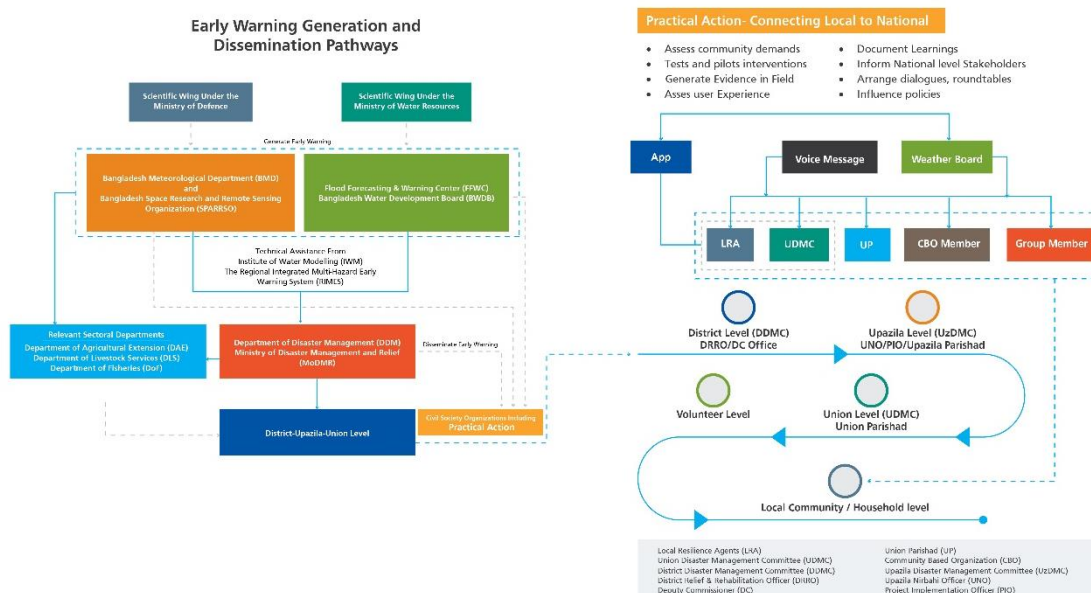
¹ <https://www.banglalink.net/en>

² Unstructured Supplementary Service Data

³ Bangladesh Agro-Meteorological Information Service

knowledge and communication materials to ensure local government ownership of the intervention. Additionally, our efforts to partner with the private telecom companies will pave new opportunities to scale up our efforts in all the hard-to-reach coastal districts of Bangladesh. Our long-term plan is to hand over the application to the MoDMR.

Sustainability Roadmap



7. Communication and Knowledge Management

Table 3: Communication and Knowledge products activity and progress achieved

Related activity number	Communications Activity. Strategy/Tactic	Related communications or Knowledge product	Impact /Change perceived. Big or Small wins. Numbers (If any)
1.1.3, 2.2.1	Run two social media awareness campaign about heatwave and Remal early warning in the app	One LinkedIn post, and two Facebook post and promote the post at our project area for awareness	33,865 Reach, 3998 share for behaviour change
3.1.2	Disaster alert for BD User Manual for Mobile users	'Disaster Alert for BD' apps user manual (in Bangla)	Will be shared with wider community, local UP, UDMCs, volunteer groups
2.1.4	Disaster alert for BD User Manual for government users	Control panel - Admin User manual for the 'Disaster Alert for BD' apps (in Bangla)	Will be shared with Government (MoDMR) eventually

8. Challenges and Risks

National election in Bangladesh

In January'2024 Change in key personnel at the ministry level, the minister MoDMR and later the director general of the Department of Disaster Management (DDM). We are rebuilding rapport with key personnel from the departments.

Local Government election

In May'2024 there was a Upazila Parishad election in three of our working Upazilas, during that time project related field activities were paused for few days.

Multiple natural hazards impacting the project areas

Whole Bangladesh faced month long (April-May'24) moderate to extreme heat wave, which hampered many of our on-ground activities. As the field facilitators faced challenges moving the households and collecting data. Timely heat alerts and advisories shared by relevant Government Departments were disseminated through our apps and through voice messaging services. Cyclone Amphan at the end of May created havoc in the coastal districts of Satkhira and Khulna along with extreme. We have ensured that communities, particularly in the vulnerable areas, have improved access to essential services and early warning systems to enhance preparedness and reduce the impact of natural hazards.

Delay in Approval of Procurement Plan

The initial delay in approval of procurement plan from ADPC delayed the process of procurement of good and recruitment of key project personnel. Eventually we managed to speed up the work upon approval.

9. Lesson Learnt

Keeping multiple strategies, diversifying the early warning dissemination channels considering the local context, emergency situation, engaging with government and private entities for sustainable models and influencing both local and national stakeholders are key in achieving project impacts

Annex 1: Records of Events

ivities/Events Title	Date	Progress in last 6 months (Jan-June)
Conduct baseline/situation analysis of the project	March 2024	Situation analysis in 3 districts (6 union) completed with the final report
Project inception workshop with relevant Government departments	30.05.2024; 29.05.2024; 21.05.2024; 19.05.2024	We have completed 4 batches of inception at 4 union
Training for UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them.	03.06.2024; 04.06.2024; 05.06.2024	We have completed 3 batches training
Provide advisories at households' level through app	25.06.2024; 05.06.2024; 02.06.2024; 25.05.2024; 24.05.2024; 01.05.2024; 30.04.2024; 15.04.2024	8 times advisory services provided
Meeting with UDMCs	12.06.2024; 13.06.2024	Two meetings were held at Union, chaired by the chairman, with UDMC to activate the UDMC committee
Prepare database of shelter centers, hospital, relief center, nearby volunteers etc.	April'24, May'24, June'24	CPP volunteer data collection completed including shelter centres, hospital and relief centre
Advocacy events with different stakeholders	11.06.2024, 20.06.2024	Advocacy event with Banglalink, Privet partner onboard to access offline mobile network tower based early warning dissemination channel and with the UDMCs
App updated for latest Android version	27.05.2024	Completed the app update related work with new feature, functions
Update features in App (how many users taking early actions based on the warning, how many users are utilizing which features etc.)	27.05.2024	Completed the app update related work with new feature, functions
Field Test of app	02.06.2024; 03.06.2024; 04.06.2024; 05.06.2024	Completed the app update related work with new feature, functions and Training related work
Warning dissemination through Apps	25.06.2024; 05.06.2024; 02.06.2024; 30.05.2024; 25.05.2024; 22.05.2024; 01.05.2024; 30.04.2024	8 times early waring dissemination through apps completed
Voice message dissemination through mobile phone	30.05.2024; 26.05.2024; 25.05.2024; 24.05.2024; 23.05.2024; 22.05.2024; 01.05.2024; 30.04.2024	8 times early waring Voice message dissemination completed

Social media based early warning awareness raising campaign for the community	25.06.2024, 02.06.2024, 22.05.2024, 27.04.2024	Five days long 4 awareness raising campaign targeting our community successfully completed
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Annex 2: Event reports/minutes, Learning documents, Knowledge products, Communication products or other documents

Records of Events

Date (yyyy-mm-dd)	Meeting	Discussion Points	Conclusions / Output
2024-05-19	Advocacy events with different stakeholders	1. Details Discussion about project goal and outcome objective. 2. Functioning of UDMC Committee Union level. 3. Formation of Volunteers group ward level. 4. Current Activities under iCare Project	1. Strong coordination is the key factor to implement iCare Project at Gazirtek Union Parishad. 2. It is possible to eliminate disaster problem by making people aware
2024-05-21	Advocacy events with different stakeholders	1. Details Discussion about project goal and outcome objective. 2. Functioning of UDMC Committee Union level. 3. Formation of Volunteers group ward level. 4. Current Activities under iCare Project	As part of the iCARE project, we organize Inception workshop meeting at the up chairman and up member at charbhardasan union parishad to ensure that communities receive disaster early warnings, enabling them to take prompt action.

2024-06-05	Training and refresher at the field level	Representatives from Practical Action provided a detailed presentation on the functionality of the Disaster Alert App, including how to download and use it. They demonstrated the app's features, such as real-time weather updates, emergency contact information, and safety guidelines during different types of disasters	
2024-06-04	Training for UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them.	1. Roles and responsibilities of Volunteer's on disaster risk reduction 2. Project Goal, Outcomes and Output sharing among the Volunteer's. 3. Introduce about the Mobile Apps- Disaster Alert for BD.	The project will help to reduce the loss and damage by providing digital innovation in Early Warning Systems.
2024-07-08	Training for UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them.	1. Welcome speech and Identity sharing among the participants. 02. Discussion about the Project goal, outcomes, outputs, and activities in details. 3. Discussion about the role play of Cyclone Preparedness Program (CPP) volunteer's duties in the disaster's. 04. Open discussion, Feedback session and closing the event.	Training and awareness raising among UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them.
2024-05-29	Advocacy events with different stakeholders	1. Project briefs and objectives sharing. 2. Formation and functioning UDMC and CPP volunteers.	The project should organise this kinds of

			events in Upazila levels.
2024-05-30	Advocacy events with different stakeholders	1. Project briefs and objectives sharing. 2. Formation and functioning UDMC members and CPP volunteers.	The project should organise this kinds of events in Upazila levels.
2024-06-03	Training and refresher at the field level	1. Project briefs and objectives sharing. 2. Training objectives and PPT sharing. 3. Open discussion.	N/A
2024-06-10	Training and refresher at the field level	1. Objectives for the training. 2. PPT presentation sharing. 3. Open discussion.	N/A
2024-07-08	Training for UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them.	Welcome speech and Identity sharing among the participants. 02. Discussion about the Project aim/goal, outcomes, outputs, and activities in details. 03. Discussion about the role play of Cyclone Preparedness Program (CPP) volunteer's duties in the disasters. 04. Open discussion, Feedback session and closing the event.	CPP Volunteers are expressed their appreciation for the project. They highlighted the importance of community engagement and the need for continuous training and awareness programs to ensure the effectiveness of the Disaster Alert App.
2024-07-14	Training for UDMC members and CPP volunteer, especially women, on the types of information and	1. Welcome speech and Identity sharing among the participants. 02. Discussion about the Project goal, outcomes, outputs, and activities in details. 3. Discussion about the role play of Cyclone Preparedness Program (CPP) volunteer's duties in the	N/A

	advisory services provided and how to use them.	disaster's. 04. Open discussion, Feedback session and closing the event.	
2024-07-16	Training for UDMC members and CPP volunteer, especially women, on the types of information and advisory services provided and how to use them.	1. Welcome speech and Identity sharing among the participants. 02. Discussion about the Project goal, outcomes, outputs, and activities in details. 3. Discussion about the role play of Cyclone Preparedness Program (CPP) volunteer's duties in the disaster's. 04. Open discussion, Feedback session and closing the event.	N/A



Disaster alert for BD User Manual for System



Disaster alert for BD User Manual for Mobile



iCARE_project_Event_Tracker.xlsx



iCARE_project_app_impact_mesure.xlsx



Scope of Collaboration_bangladesh



LoA_DAE pA_Draft_Practical Action



Beneficiaries MOV.pdf

Annex 3: Results Framework

PDO Indicator Description: Government agencies and Citizens who have access to climate-resilient solutions tested under the project (Number)		
	Current Value	End Target
Government Agencies	Govt: 3 Citizens: 173573	Govt: 7 Citizens: 169188
Male Citizen	85,884	82,309
Female Citizen	87,689	86,879
Date	30 June'24	30 Sep'24
Comments	A total of 38,232 direct beneficiaries and 173,573 (Male- 85,884 Female- 87,689) indirect beneficiaries were reached by the project activities and by getting early warning messages.	
Outcome-1: Improved Early Warnings and Early Action for climate induced hazards reaches the last mile to minimize losses and damages of livelihoods and assets.		
Value	1	1
Date	30 January'24	31 January'24
Comments	We have updated the App with required information for respective UP areas and finally rolled-out in June 2024.	
Outcome Indicator-1.2 Description: % of households have taken early action who received EW through Apps/volunteers/voice message (by HH types, Early action types year, theme, country)		
Value	38,232 HHs	70% (of 37,214 HHs)
Date	30 June'24	30 Dec'24
Comments	It is proposed to measure in bi-annual basis. We have completed first- bi annual during Jan-Jun'24 and measure in July'24. In terms actions taken based on the	

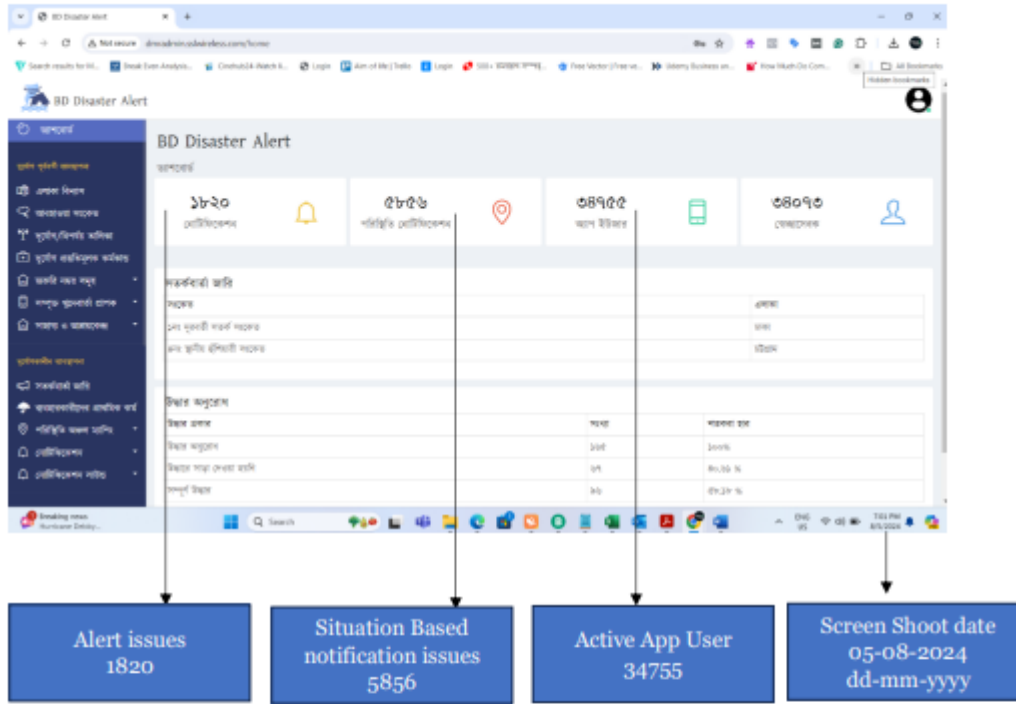
	warnings 92% (n=106) of the respondents mentioned that they have taken early actions	
OUTCOME 2: Improved access to information and advisory services		
Value	38,232	80% of (37,214)
Date	30 June'24	31 Dec'24
Comments	In the by annual impact assessment reporting 92% (n=106) of the respondents mentioned that they have taken early actions	
OUTCOME 3: Strengthened Institutional capacity at the local level for EW dissemination		
Value	175 (F-57, M-118)	70% (of targeted 375 people)
Date	30 June'24	31 Dec'24
Comments	It is proposed to measure in annual basis. We have completed first-by annual during Jan-Jun'24 and will measure in dec'24.	
Output 1.1: 37,214 households have access to regular weather forecast, climate induced disaster related information and subsequent risk mitigation measures.		
Value	38,232 HH	37,214 HH
Date	30 June'24	31 Dec'24
Comments	It is proposed to measure in annual basis. We have completed first- bi annual during Jan-Jun'24 and measure in July'24. In terms actions taken based on the warnings 92% (n=106) of the respondents mentioned that they have taken early actions	
Output Indicator-1.1.2 description: Number of people / organizations provided with knowledge products (by recipient category, type of knowledge product, country, theme)		
Value	38,232	37,214
Date	30 June'24	31 Dec'24

Comments	We disseminated hard copy of knowledge products during the training May-June'24.	
OUTPUT 1.2: 37,214 households received early warnings before an impending disaster.		
Value	38232	37214
Date	30 June'24	31 Dec'24
Comments	38,232 households received early warnings before an impending disaster, during Apr'24 to Jun'24 Heat wave, Cyclone Remal and Flash flood.	
Output Indicator-2.1.1 description: % of households have taken decision/measures on received information and advisories (by HH types, year, theme, country)		
Value	38232	70%
Date	30 June'24	31 Dec'24
Comments	92% (n=106) of the respondents mentioned that they have taken early actions measure in July'24	
Output Indicator-3.1.1 description: Number of people trained (in person) (by sex, country, topic, year, participant category)		
Value	175 (F-57, M-118)	375
Date	30 June'24	31 Dec'24
Comments	We are progressing and till June 175 participated in supporting event	
Output Indicator-3.1.2 description: Number of people trained (online) (by sex, country, topic, year, participant category)		
Value	0	100
Date	30 June'24	31 Dec'24

Comments	Not initiated till June	
Output Indicator-3.2.1 description: Number of events supported (by type, year, theme, country)		
Value	4	10
Date	30 June'24	31 Dec'24
Comments	Till June'24 we supported four events	
Output Indicator-3.2.2 description: Number of people participating in supported events (by participant category, sex, year, theme, country)		
Value	175 (F-57, M-118)	375
Date	30 June'24	31 Dec'24
Comments	We are progressing and till June 175 participated in supporting event	

Annex 4: Beneficiary Count

MOV of as of June Total Beneficiary Count



Calculation as of June'24 :

Active App Users; X = 34670 HH
 CPP and UDMC Members; Y = 3000 People
 Community members through door to door; Z = 562 People
 Average household size; A = 4.54

$$\begin{aligned}
 \text{Total Beneficiary as of June} &= (X+Y+Z) \times A \\
 &= (34670+3000+562) \times 4.54 \\
 &= 38,232 \times 4.54 \\
 &= \mathbf{173,573 \text{ citizens}}
 \end{aligned}$$



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