



## 1. Introduction

In 2024, the Department of Public Health Engineering (DPHE), in collaboration with UNICEF, successfully launched the Anticipatory Action Program for the Jamuna River Basin Flood. This initiative aimed to mitigate the impact of potential flooding by preparing communities in advance. Building on the success of this program, DPHE and UNICEF organized the "Anticipatory Action Review and Feedback Workshop 2024" at Momo INN Park and Resort, Bogra. The workshop provided a platform for field officials, who played a pivotal role in the program's implementation, to share their experiences and insights. By gathering valuable feedback from these key participants, the workshop sought to shape future policies and guidelines, ensuring that anticipatory actions can be further refined and made more effective in safeguarding communities during future flood events.

Alongside this, a pressing need has emerged at the Chattogram Central Store, located in the Mansurabad area within Chattogram City Corporation. Spanning approximately 17,790 sqm, a part of the facility has been used as the UNICEF Zonal Store in Chattogram, under an agreement with DPHE. Both parties have recognized the necessity for essential maintenance, restoration, and retrofitting of the store-sheds, alongside the requirement for a sustainable and fully managed warehouse for future needs. In response, a plan has been set in motion to engage a professional engineering firm to oversee the development of this critical infrastructure. These initiatives, both in flood management and warehouse development, reflect DPHE's ongoing commitment to ensuring effective preparedness and efficient logistics for future challenges.

## 2. Anticipatory Action Review and Feedback Workshop 2024

### 2.1 Workshop Details

The main workshop took place on December 23, 2024, while participants arrived at the venue on December 22, 2024. Upon arrival, an introductory session was held, followed by a dinner. During the introductory session, participants introduced themselves, and the workshop chairs briefly addressed the group.

**Date:** December 22-23: Bogra

**Location:** Momo Inn Park and Resort, Bogra

**Chair:** Engr. Md. Badshah Miah, Superintending Engineer, Rajshahi Circle  
Md. Abul Kalam Azad , Superintending Engineer, Rangpur Circle  
A.H.M Khalequr Rahman, Superintending Engineer, Store Circle

**Resource Person:** Amjad Hossain, CEO, Perspective.

**Coordinator:** Nasif-E-Anwar, Assitant Engineer,Store Circle, Dhaka

**Participants:** 52 (DPHE staffs, Resource person, facilitators, chair and Others)

## Facilitators/Resource Persons:

- Saleha Khatun, UNICEF
- Mr. Sumon Ahsanul Islam, Consultant, UNICEF
- Mr. Ruhul Amin, Program Officer, Rangpur
- Mahmudul Hasan, Emergency Officer, UNICEF
- Farzana Ferdousi, Program assistant, UNICEF
- AH Towfique Ahmed, Chief of Field Officer, UNICEF

(See Annex-1 for detailed Participant List)

## 2.2 Program Schedule

Date	Time	Session
<b>22.12.24</b>	8-8.30 PM	Arrival at the venue and Registration
	8.30-9.00 PM	Welcome and Introduction Session
	9.00-10.00 PM	Dinner
<b>23.12.24</b>	8.30-9.30 AM	Presentation on Anticipatory Action
	9.30-11.00 AM	Feedback Session from Participant
	11:00 - 11:30 AM	Snacks Break
	11:30 - 1.00 PM	Review Session
	1.00-2.00 PM	Prayer and Lunch
	2.00-3.00	Discussion on Way Forward
	03:00 - 03:30 PM	Closing Ceremony

## 2.3 Session 1: Introduction and Presentation on Anticipatory Action

In the first session, the session chairs officially inaugurated the workshop and briefly outlined its goals. They expressed gratitude to all participants for their crucial role in the success of the 2024 Anticipatory Action program. The chairs also extended their thanks to UNICEF for providing financial support and other essential resources. They emphasized the importance of anticipatory action in disaster management, highlighting its potential to positively impact the lives of marginalized communities.

Later in the session, Mst. Saleha Khatun from UNICEF shared her experience throughout the anticipatory action program and expressed her gratitude to DPHE officials on behalf of UNICEF.

Following her speech, a video presentation was shown, highlighting the key activities and successes of the Anticipatory Action program.



## **2.4 Session 2: Feedback Session from Participant**

In the next session, participants were assigned a group task where they were asked to share their experiences working on Anticipatory Action. The group task was coordinated by Mr. Sumon Ahmed, Consultant at DPHE.

## **2.5 Session 3: Review Session**

In the next session, participants presented their discussions, and the following points emerged:  
**Relevance:**

- The distribution of Jerry Cans and WPT (Water Purification Tablets) was relevant for ensuring safe drinking water.
- Selection of vulnerable people and distribution methods were appropriate.
- Coordination with local representatives, based on forecasting, was relevant.
- Awareness on personal hygiene through various channels (miking, leaflets, radio, mosques, temples, and community clinics) was effective.
- Limited supply of Jerry Cans and WPT compared to demand was a challenge.
- Distribution of only Jerry Cans and WPT led to frustration among vulnerable people.
- Identifying only poor people in flood situations was ineffective, as everyone was affected by the flood.

## Effectiveness:

- Health awareness on waterborne diseases and sanitation was possible through miking and leaflets.
- Distribution of Jerry Cans and WPT helped reduce waterborne diseases.
- Mobile water treatment plants met safe drinking water needs in most areas, except the char regions.
- The target was met without distress to vulnerable people, thanks to volunteer engagement.
- Water boating enabled safe drinking water distribution to vulnerable communities.



## 2.6 Session 4: Discussion on Way Forward

In the fourth session, following dinner, the chairs discussed all the findings with the group. Below are some of their recommendations:

- Install permanent tubewells (TW) and construct community toilets for WASH facilities.
- Raise awareness among flood-affected populations to promote self-help attitudes.
- Allocate emergency funds for smooth implementation of anticipatory actions and post-flood activities.
- Provide training for all personnel involved in flood response.
- Build capacity for anticipatory action, especially among volunteers, mechanics, and engineers.
- Train and select volunteers early.
- Directly allocate funds at Upazila DPHE offices.
- Increase hygiene kit supply and standardize the contents.
- Ensure accurate identification of affected people.
- Improve logistics and ensure adequate supplies and storage facilities

## 2.7 Session 5: Closing Ceremony

After a successful day-long discussion on improving anticipatory action in the future, the closing session began. During this session, all the chairs, including Mst. Saleha Khatun from UNICEF, delivered closing speeches. They expressed their gratitude to DPHE and its field-level officials for their timely response and effective coordination of anticipatory action. Additionally, they highlighted the discussions on how to move forward with this initiative in the future.

As a token of appreciation, a crest was presented to each district (Zila) that participated in the anticipatory action, as well as to the Superintending Officers of the respective circles.



## 2.8 Participant Feedback and Insights

Participants expressed sincere gratitude to the authorities for organizing such a valuable workshop, which strongly advocates for a better future together. They felt that workshops like this serve as a great source of motivation, helping to boost their morale and prepare them for future disaster response efforts.

### 3. Survey and Detailed Engineering Analysis for Chattogram Central Warehouse Store

A pressing need has emerged at the Chattogram Central Store, located in the Mansurabad area within Chattogram City Corporation. Spanning approximately 17,790 sqm, a part of the facility has been used as the UNICEF Zonal Store in Chattogram, under an agreement with DPHE. Both parties have recognized the necessity for essential maintenance, restoration, and retrofitting of the store-sheds, alongside the requirement for a sustainable and fully managed warehouse for future needs. In response, a plan has been set in motion to engage a professional engineering firm to oversee the development of this critical infrastructure. These initiatives, both in flood management and warehouse development, reflect DPHE's ongoing commitment to ensuring effective preparedness and efficient logistics for future challenges.

#### 3.1 Scope of the work

Within the scope of work, it has been divided into three parts:

1. Detailed Engineering Assessment (DEA) of the 2 largest store-sheds for retrofitting purpose.
2. Detail design & drawing for Interconnecting Road and drainage system.
3. Overall Master plan of the area.



Fig: Store Location in Google Earth

### 3.2 Detailed Engineering Assessment

The detailed engineering assessment of an existing building generally comprises two distinct works: site investigation and structural capacity evaluation. Based on the site investigation and analysis, the structural performance of the building can be evaluated in terms of the capacity of structural and non-structural members. The overall safety of the building can then be judged based on the structural capacity and demand of the building. In this regard, the Bangladesh National Building Code (BNBC 2020) and ACI code have been used in the detailed engineering assessment of the said building. In addition, visual screening of the building has been carried out based on the physical inspection. The detailed evaluation of the building has been carried out based on the information obtained from the detailed site investigation and three-dimensional finite element analysis for the concerned building. By comparing the capacity and demand of the building, it can be seen that the structural adequacy of column is lower than its demand.

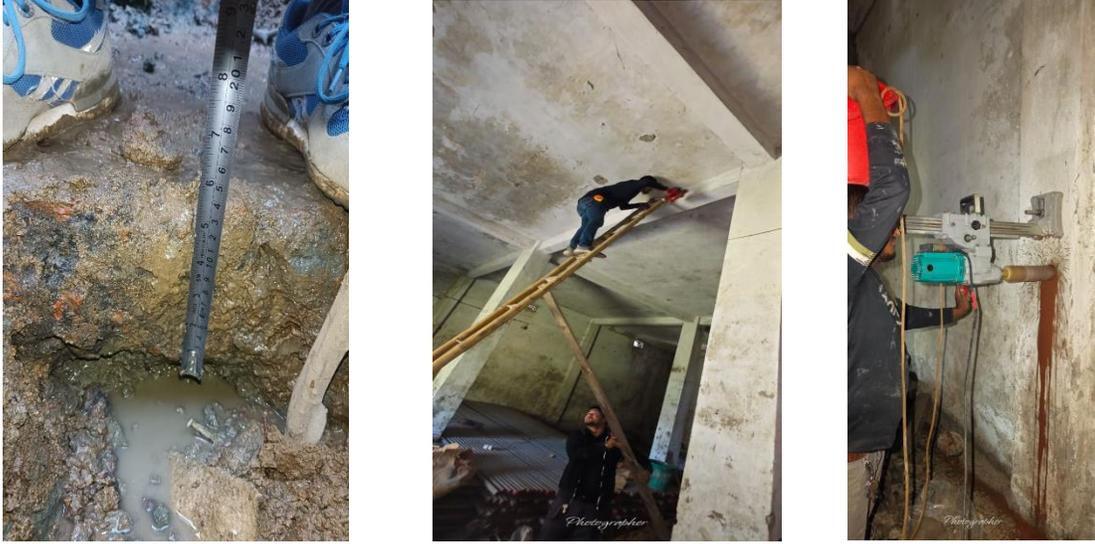


**Fig: The identified store-shed for retrofitting**

Its floor area is nearly 1242 sqm and has two compartments. Foundation type found spread footing and no grade beam is found. Some destructive and non-destructive tests are done.

Revised Estimate for the identified two store sheds is submitted by the consultant. It needs around BDT 27,604,441 for retrofitting.





**Fig: structural exploration**

### **3.3 Detail Design and drawing of interconnecting road**

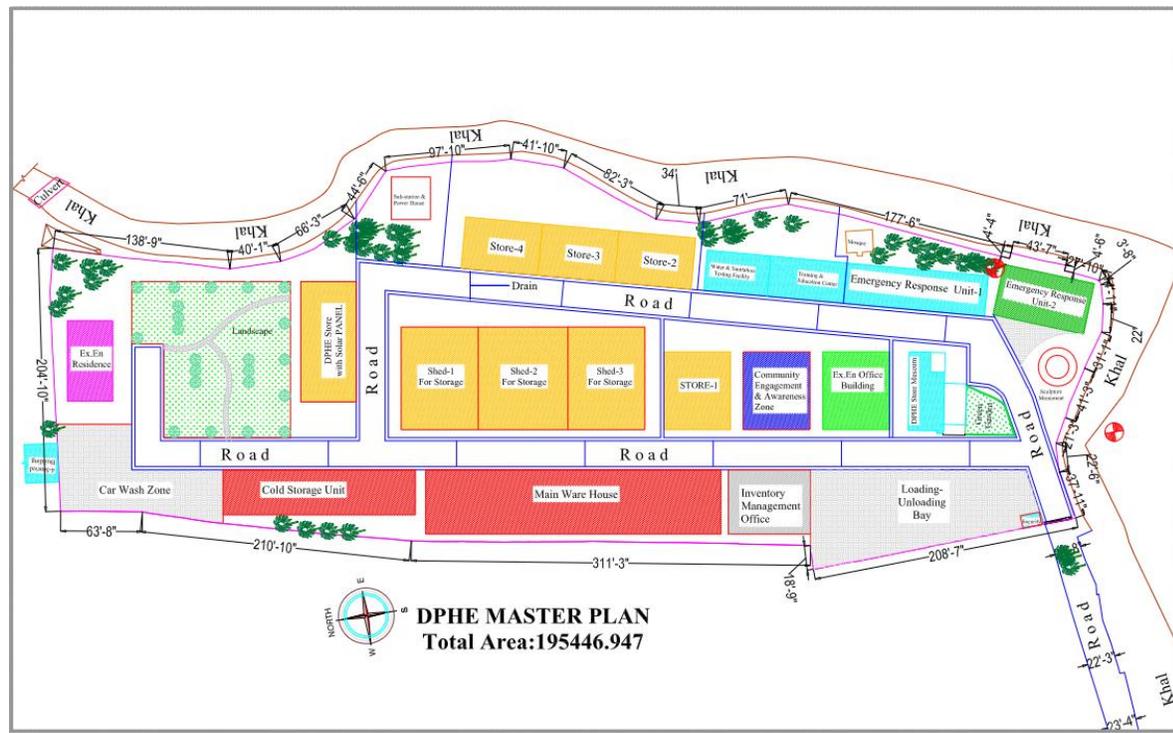
For the road and drainage system design, a quick survey is done. Present drainage scenario, RL of different points and highest flood level etc. are taken into consideration. Then a detail design and drawing are submitted.

It needs around BDT 17,264,000 for 185m road length and 7 m width rigid pavement work with adjacent drainage facilities.

### **3.4 Overall Master Plan of the Area**

The overall Master plan is guided by the DPHE need and establishment for the area.

(See Annex 2 for a summary of Cost Estimate to carry out the renovation work)



**Fig: Overall Master Plan of the proposed Renovation work of Chattogram Store, DPHE**

#### 4. Conclusion

In conclusion, the activities carried out under the Anticipatory Action Program for the Jamuna Basin, as well as the ongoing work at the Chattogram Central Store, represent crucial steps in enhancing both flood management and infrastructure development. The review and feedback workshop provided valuable insights, which will contribute to refining future policies and approaches, ensuring more effective anticipatory actions in the face of potential disasters. The collaboration between DPHE and UNICEF has proven to be essential in building stronger resilience within communities, and it is anticipated that such partnerships will continue in the future to strengthen disaster preparedness.

At the same time, the necessary maintenance, retrofitting, and development work at the Chattogram Central Store is critical for supporting the logistical needs of DPHE and UNICEF. The detailed engineering assessment has identified key areas for improvement, with the need for retrofitting of store-sheds and the design of an interconnecting road and drainage system to ensure efficient operations. The revised estimate for the required works has been submitted, with a focus on enhancing the structural safety and overall functionality of the site. The development of an overall master plan further aligns with DPHE's long-term objectives for sustainable and well-managed infrastructure. These initiatives collectively reflect a strong commitment to preparedness, safety, and efficient logistics, reinforcing DPHE's readiness for future challenges.

**Annex-1**  
**Participant List**

Anticipatory Action Review  
&  
Feedback Workshop 2024  
Date: 23 December 2024  
Venue: Hotel Momo Inn, Bogura

**Registration Sheet**

Sl.No.	Name & Designation	Working place	Email/Mobile	Signature
01	Engr. Md. Badshah Miah SE	Rajshahi	01711969187	
02	Md. Akmal Kalam Asad SE	Rangpur	01719-547510	
03	AHM Khalequr Rahman SE	store circle Dhaka	01921-083093	
04.	NASIF - I. ANWAR AE	RASHID SE store circle	01786126085	
05	Anowarul Islam, LLT	DPHE store circle	01723-705438	



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08	MD. GOLAM K. BTUA	Bogura	01718786126	
09	Suman AH SANUL ISLAM	AA CONSULTANT	01819290657	
10	Shafiqul Islam	office Assis- tent	01780-080535	



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21	Md. Younus Ali SAE	Fulchasi Craibandha	Younusdphe18@gmail.com 01732219777	
22	Md. Shohel Rana Estimator	DPHE Jamalpur	01310273107 shohetkran010199@gmail.com	



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28	Anifur Rahman	Kusigama sadar	01714-679270	



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32	md. mahedul islam	Sonatala Bogura	01746-497925	
33	Muhammed Kamruzzaman	Iskandria Tangaila	01748-896815	
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37	Md. Shofiqul Islam SAE	Madarganj, Jamalpur	shofiqul322@gmail.com	
38	MD. SUMON MIAH Draftsman	Jamalpur	mdsumonmiahdphe@gmail.com	
39	Md. Siapon Ali SAE	Sariakandi	Siapon.ali@gmail.com 0744-640151	
40	Amjed Hossain CEO Perspective	Dhaka	amjeddesign@gmail.com 01711005724	



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41	মু. আমরুল	মু. আমরুল সি.সি.সি.	01758181069	
42	মু. সফিউল হক	সি.সি.সি.	01725637772	
43	মু. আমরুল	সি.সি.সি.	01926957540	
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45	Md. Hafizan Rahman	DPHE Bogura	01747-528881	
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51	MAHMUDUL HASAN Emergency officer	UNICEF Dhaka	mahmhasan@unicef.org	
52	Md. Iqbal Hossen	SAE, Melordah Jamalpur.	ikbal.dphe.sae@gmail.com	



**Annex 2**

**Summary of Cost**

Chattogram Store Repair Work			
Summary of Cost			
S.L	Description of Works	Total Taka (BDT)	Remarks
1	Retrofitting and Renovation of Storage Bulding	27,604,441.04	
2	Construction of U-shape Drain at DPHE Store, Chittagong. Drain Length-1200ft , Clear Width- 2.5 ft, Clear Depth-2.5 ft, Concrete Thickness- 0.5ft, Drain bottom should be 3.5 ft lower than pavement top. HDPE pipe cross drain will be placed after every 200 ft pavement.	5,650,765.00	
3	Construction of Rigid Pavement at DPHE Store, Chittagong. Road Length-600ft, Road Width- 20 ft, Concrete Thickness- 1ft, Sub base layer- 1.5 ft, Improved Subgrade layer- 1.5 ft, Sand fill on existing level- 3 ft. Dowel bar will be placed after every 20 ft.	17,264,099.20	
Total Cost		<b>50,519,305.24</b>	
<b>In words (Five Crore Five Lakhs Nineteen Thousand Three Hundred Five Taka Only)</b>			

