



## REPORT

Divisional Training on

# CAPACITY DEVELOPMENT IN WASH SECTOR IN BANGLADESH: CLIMATE CHANGE ADAPTATION, DISASTER RISK REDUCTION, AND WASH IN EMERGENCY PREPAREDNESS AND RESPONSE.



Venue: Grand Sylhet Hotel and Resort, Sylhet

Date: 21-22 April 2024



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## TABLE OF CONTENT

1. Introduction .....	4
2. Objectives of the training.....	5
3. Participants .....	5
4. Training Facilitators.....	6
5. Opening Session.....	6
6. Training Sessions .....	6
6.1. Sessions of Day 1 .....	7
Session 1: Climate Change and Its Impacts on Water, Sanitation and Hygiene (WASH) 7	
Session 2: Disasters and Impacts on WASH Infrastructures in Bangladesh.....	8
Session 3: Stakeholders' Roles in DRR and Emergency Preparedness and Response in WASH.....	9
Session 4: Standards and Guidelines for WASH during Disasters and Emergency Response.....	10
Session 7: Emergency Response Planning and Implementation in WASH .....	11
6.2. Sessions of Day 2.....	12
Session 5: Climate Resilient WASH Technologies .....	12
Session 6: WASH Services in Disasters and Emergency Response .....	13
7. WASH Cluster Meeting .....	13
8. Feedback from the Participants.....	14
9. Closing Session .....	15
ANNEX .....	16
Annex-1: Schedule of the training.....	16
Annex-2: List of participants in the training .....	17
Annex-3: List of Participants in WASH Cluster Meeting .....	19
Annex-4: Task for group work in session 4 .....	20
Annex-5: Pictures of the training.....	22

## LIST OF FIGURES

Figure 1: Opening session of the training .....	6
Figure 2: Participants engaging in a quiz on session 1 .....	7
Figure 3: Group work of session 1 on identifying indicators, outcomes, consequences, and impacts of climate change.....	8
Figure 4: Facilitator addressing the steps and activities of disaster management in WASH during session 2.....	8
Figure 5: Participants understanding of the role of stakeholders and the coordinating mechanisms among them .....	9
Figure 6: Facilitator addressing the standards and guidelines for WASH services in an emergency .....	10
Figure 7: Participants engaging in group work on Sphere Standards .....	10
Figure 8: The session of the training on emergency response planning and implementation in WASH.....	11
Figure 9: Participants preparing their group work for presentation and presenting on their topic .....	11
Figure 10: Facilitator giving a brief review of the previous day .....	12
Figure 11: Participants learning about the best practices for climate-resilient WASH technologies.....	13
Figure 12: WASH Cluster Meeting for the District of Sylhet.....	14
Figure 13: Closing session of the training.....	15

## 1. Introduction

Bangladesh is among the countries that experience frequent natural disasters due to climate change where the country's vast population is extremely vulnerable to cyclones, floods, droughts, and the danger of saline water intrusion into sweet water zones and the agricultural areas due to sea level rise. Over the past three decades, Bangladesh has experienced around 200 natural disasters as the nation gets exposed to several natural hazards every year because of its low-lying topography, proximity to the Bay of Bengal, and monsoon season.

The frequency of hazards and disasters has been increasing due to climate change, which has had a serious impact on the WASH sector in Bangladesh. As a result, climate-resilient WASH infrastructures are required to deal with the effects of climate change. Furthermore, it is critical to raise awareness among government policymakers and WASH program implementers to deal with climatic realities to turn WASH infrastructures into climate-resilient facilities that can also withstand the effects of disasters.

Under the joint initiatives of the Department of Public Health Engineering (DPHE) and UNICEF, the WASH Cluster has been functioning in Bangladesh since 2008, following Cyclone Sidr, to bring together the active partners working in the WASH sector. The WASH Cluster is a component of the international cluster strategy and the broader national Humanitarian Coordination Task Team (HCTT) to facilitate strategic collaboration in disaster planning and response within the WASH sector. The WASH Cluster seeks to guarantee a better coordinated and successful response by enlisting the help of the Ministries of the Government and their line agencies, UN organizations, INGO, and civil society organizations.

The WASH Cluster is specifically focused on: (i) using the Humanitarian Development Nexus to promote comprehensive WASH services and mainstream disaster risk reduction (DRR) in the WASH sector; (ii) bolstering national and local coordination mechanisms that involve all relevant stakeholders to improve the effectiveness of emergency and humanitarian response; (iii) enhancing local capacity in terms of WASH in emergency preparedness and response; and (iv) ensuring cooperation for collective action by its members. To meet these targets, along with other programs, the experts of the WASH sector are committed to continuing education and training initiatives for promoting climate-resilient approaches to deal with the changing climate and its impacts on the environment, especially in Bangladesh's many affected geographical areas.

Therefore, DPHE and UNICEF have planned to jointly organize divisional training events, titled “Capacity Development in WASH Sector in Bangladesh: Climate Change Adaptation, Disaster Risk Reduction, and WASH in Emergency Preparedness and Response”, for capacity building of DPHE officials, NGO representatives, and Government officials who play important roles in

WASH service delivery during disasters and in emergency preparedness and response in the affected areas of Bangladesh. To accomplish the objectives of the capacity building program, DPHE and UNICEF worked jointly where UNICEF Bangladesh provided guidance and DPHE implemented the activities that included the development of a training module, organizing meetings and consultations with stakeholders, organizing WASH Cluster meetings, and facilitation of the training events at the divisional level.

Following the development of the training module for a 2-day training program and a Training of Trainers (ToT) event in Dhaka, the first phase of the training at the divisional level started in November 2023. During the first phase, five trainings were conducted in Barishal, Mymensingh, Khulna, Rangpur, and Dhaka for the respective DPHE circles. The second phase of the training program started in March 2024, with the first batch for Chattogram Circle, after another divisional training was arranged for Sylhet Circle at the Grand Sylhet Hotel and Resort from 21-22 April 2024

## **2. Objectives of the training**

The main objective of this capacity development initiative was to improve and strengthen the technical capacity of the WASH professionals as well as to raise awareness among different stakeholders at the national level and sub-national levels in different climate-affected regions of Bangladesh. The specific objectives of the assignment were:

- Strengthening the capacity of WASH sector professionals on disaster and emergency preparedness and response, and planning and delivering climate-resilient WASH services for efficient and effective implementation of emergency preparedness and response programs in vulnerable districts.
- Promoting awareness of Disaster Risk Reduction (DRR) to address the impacts of disaster and climate change on WASH.
- Developing sector capacity to integrate DRR and climate-resilient approaches into WASH programs nationwide and mainstreaming DRR mechanisms into WASH programming.

## **3. Participants**

A total of 37 participants attended the training program including DPHE engineers, officials from different departments of the government, and NGO representatives who are major stakeholders in WASH sectors, especially during disasters and emergencies. Among the participants, there were 3 Executive Engineers, 7 Assistant Engineers, 15 Sub-assistant engineers, 2 Estimators from DPHE, 1 official from other departments of government, and 9 NGO representatives. The list of participants is attached as [Annex-2](#)

## 4. Training Facilitators

The 2-day training program with several engaging sessions was conducted by Maharam Dakua, Consultant, DPHE and Dilruba Farzana, Executive Engineer, DPHE, Dhaka.



*Figure 1: Opening session of the training*

## 5. Opening Session

The training started with an opening session on 21<sup>st</sup> April 2024 at the Grand Sylhet Hotel and Resort, Sylhet. Md. Shaikh Sadi Rahmatullah, Superintendent Engineer, DPHE, Sylhet Circle, Kamrul Alam, WASH Officer, UNICEF Sylhet Field Office, and Sakhawat Ershad, District Primary Education Officer, Sylhet were present during the inaugural session of the training. At the beginning of the opening session, Dilruba Farzana, Executive Engineer, DPHE, Dhaka presented the objectives of this training and provided an overview of the contents of the sessions. Later, Kamrul Alam, WASH Officer, UNICEF Sylhet Field Office, and Sakhawat Ershad, District Primary Education Officer, Sylhet gave a short speech on the importance of the training, and then the Chief Guest of the session, Md. Shaikh Sadi Rahmatullah, Superintendent Engineer, DPHE, Sylhet Circle announced the opening of the training program.

## 6. Training Sessions

There were seven sessions in the 2-day training program. Five sessions were conducted on day 1 and the remaining two sessions were conducted on day 2. The schedule of the training is provided in [Annex-1](#). The facilitators of the sessions were:

- Session 1: Maharam Dakua, Consultant, DPHE

- Session 2: Maharam Dakua, Consultant, DPHE
- Session 3: Dilruba Farzana, Executive Engineer, DPHE, Dhaka
- Session 4: Maharam Dakua, Consultant, DPHE
- Session 5: Dilruba Farzana, Executive Engineer, DPHE, Dhaka
- Session 6: Dilruba Farzana, Executive Engineer, DPHE, Dhaka
- Session 7: Maharam Dakua, Consultant, DPHE

## 6.1. Sessions of Day 1

### **Session 1: Climate Change and Its Impacts on Water, Sanitation and Hygiene (WASH)**

The outcome of the session:

- Understanding of the basics of climate change
- Understanding of the outcome and consequences of climate change
- Understanding of the impacts of climate change on WASH in Bangladesh

This session provided a brief overview of weather, climate, and climate change. It covers a wide range of topics, including the differences between weather and climate, the causes and effects of climate change, and the impact of climate change on various sectors such as agriculture, water, and health. The session also highlights the impact of climate change in different areas and on vulnerable populations such as low-income communities. A video on the effect of the greenhouse on the earth was shown to the participants. There was a quiz for the trainees which was conducted through Mentimeter. The participants were also given a groupwork for identifying indicators of climate change and finding its outcomes, consequences, and impacts.



*Figure 2: Participants engaging in a quiz on session 1*



*Figure 3: Group work of session 1 on identifying indicators, outcomes, consequences, and impacts of climate change*

### **Session 2: Disasters and Impacts on WASH Infrastructures in Bangladesh**

The session focused on disasters and their impacts on WASH infrastructures in Bangladesh.

The outcome of the session:

- Identification of the main disasters in the WASH sector in Bangladesh
- Identification of the main impacts of disasters on WASH infrastructures in Bangladesh
- Understanding the disaster management steps and activities in WASH



*Figure 4: Facilitator addressing the steps and activities of disaster management in WASH during session 2*

The session discussed the steps involved in disaster management for WASH infrastructures in Bangladesh. Participants learned about the different phases of the disaster management cycle,

including preparedness, response, recovery, and rehabilitation, and the specific activities that are involved in each phase of the cycle. Participants also learned about the terminologies related to disaster risk reduction. During the session, different types of disasters and their impacts on WASH infrastructures were also discussed.

### **Session 3: Stakeholders' Roles in DRR and Emergency Preparedness and Response in WASH**

The session focused on Stakeholders' Roles in DRR and Emergency Preparedness and Response in WASH. The outcome of the session:

- Identification of the stakeholders involved in WASH in DRR and emergency response, and their respective roles
- Understanding of the DPHE's role in disaster risk reduction, and emergency preparedness and response
- Understanding of the coordinating mechanisms among the stakeholders



*Figure 5: Participants understanding of the role of stakeholders and the coordinating mechanisms among them*

The session mostly discussed the organizations involved in disaster management, including the government, non-governmental organizations, and community-based organizations. The session also covered the Standing Orders on Disaster (SOD), which is a set of guidelines for disaster management in Bangladesh. The SOD aims to ensure a coordinated and effective response to disasters by all stakeholders. The session also discusses the formulation of the WASH Cluster, its aims and objectives, and how to operationalize the WASH Cluster through meetings. The session also discussed about WASH cluster and the participants were informed about the WASH cluster meeting that took place after this session.

## Session 4: Standards and Guidelines for WASH during Disasters and Emergency Response

The outcome of the session:

- Learning the recommendations in the operational guidelines in Bangladesh for WASH services in an emergency.
- Learning the recommendations for WASH services in an emergency from the SPHERE standard.



*Figure 6: Facilitator addressing the standards and guidelines for WASH services in an emergency*

This session gave an overview of the regulatory framework and code of conduct for disaster management in Bangladesh in the WASH sector, guidance on preparedness for WASH in emergency response, and early recovery interventions in disaster situations, standards for WASH services during emergency response. The participants were given a small task to answer some questions and to identify some statements whether they were true or false ([Annex-4](#)). A quiz was also taken through Mentimeter.



*Figure 7: Participants engaging in group work on Sphere Standards*

## Session 7: Emergency Response Planning and Implementation in WASH

This session of the training discussed the importance and steps of emergency preparedness and response plans in the context of WASH, and the key principles that should guide emergency response efforts. The outcome of the session:

- Different steps in emergency preparedness and response with activity timeline
- Key considerations in emergency preparedness and response in WASH



*Figure 8: The session of the training on emergency response planning and implementation in WASH*

The SOS and D-Forms were discussed, and later a demo of a digital data collection tool was introduced to the participants which was developed using Kobo Toolbox by which one can quickly share information about the current status of the WASH technologies of an area. After using the tool, the participants were requested to provide feedback about the tool for further improvement of the tool.

The steps for developing an inclusive emergency response plan and a contingency plan were discussed. Later, the groups were provided with a task on the development of a hazard-specific emergency response plan. In the end, the participants were asked to make a presentation of their group work on the development of a hazard-specific emergency response plan.



*Figure 9: Participants preparing their group work for presentation and presenting on their topic*

## 6.2. Sessions of Day 2

At the start of Day 2, there was a review session where a brief review of the previous day was given by Dilruba Farzana, Executive Engineer, DPHE, Dhaka. The participants were asked some questions about what they learned on the previous day. After the review session, the remaining three sessions of the training started.



*Figure 10: Facilitator giving a brief review of the previous day*

### **Session 5: Climate Resilient WASH Technologies**

The outcome of the session:

- Understanding of the importance of adaptation and mitigation in building climate resilience in the WASH system
- Learning the current practices in terms of promoting climate-resilient WASH technologies.

In this session, the participants were provided with real examples to get an understanding of the importance of adaptation and mitigation in building climate resilience in the WASH system. The session covered examples of climate-resilient WASH technologies and the participants learned about the climate-resilient features of the technologies. They also learned about the different strategies that can be used to address these challenges and improve the resilience of WASH systems. The participants were encouraged to share their experiences at the field level as well. There was a quiz that was conducted through Mentimeter.



*Figure 11: Participants learning about the best practices for climate-resilient WASH technologies*

### **Session 6: WASH Services in Disasters and Emergency Response**

In this session, the participants learned about the technologies used for water supply sanitation, and hygiene during disasters and the operation and maintenance of water, sanitation, and hygiene facilities during and after disasters. The outcome of the session:

- Learning effective water supply, sanitation, and hygiene practices for disaster risk reduction
- Understanding the operation and maintenance of WASH systems and services during and after disasters.

Some real-life problems were also discussed during this session and some suggestions came up to take steps to fix those problems.

### **7. WASH Cluster Meeting**

A WASH cluster meeting was arranged at the end of the training sessions. The meeting was organized for the district of Sylhet where the participants from this district, who attended the training, took part in the meeting. The list of participants is attached as [Annex-3](#). At the beginning of the meeting, a brief overview of the objectives of the WASH Cluster and its scope of work as outlined by the Standing Orders on Disaster (SOD) and other guidelines was provided by Dilruba Farzana, Executive Engineer, DPHE, Dhaka.



*Figure 12: WASH Cluster Meeting for the District of Sylhet*

The WASH Cluster meetings were chaired by Md. Abul Kashem, Executive Engineer, DPHE, Sylhet & Sunamganj. The meeting focused on establishing the WASH Cluster at the district level, determining its structure, and frequency of meetings, and defining its scope of work.

## **8. Feedback from the Participants**

Participants addressed many topics related to the training implementation and offered some helpful recommendations for the training activities. They expressed their satisfaction over the 2-day long training program and appreciated the contents of the training module. While they were asked to share the scope for further improvement in the training, some feedback from the participants at the end of the training sessions were:

- The participants requested the development of a guideline for the process of decommissioning WASH technologies used during disasters.
- Participants addressed the need to change the roles and responsibilities of DPHE in the SOD.

## 9. Closing Session

At the end of the training, a brief closing session was arranged on 22<sup>nd</sup> April 2024. Md. Shaikh Sadi Rahmatullah, Superintendent Engineer, DPHE, Sylhet Circle, and Kamrul Alam, WASH Officer, UNICEF Sylhet Field Office were present as guests in the closing session.



*Figure 13: Closing session of the training*

## ANNEX

### Annex-1: Schedule of the training

#### Capacity Development in WASH Sector in Bangladesh: Climate Change Adaptation, Disaster Risk Reduction, and Emergency Preparedness and Response

**Venue: Grand Sylhet Hotel and Resort, Sylhet**

Date: 21-22 April 2024

### Training Schedule

Topics	Time	Session Contents
<b>Day 1</b>		
Opening Session	9.00 – 9.30	Registration, tea and snacks, and network building
	9:30 – 10:15	Opening Session
Section 1	10.15 – 11.00	Session 1 – Climate Change and Its Impact on Water, Sanitation and Hygiene (WASH)
	11.00 – 11.15	Tea break
	11.15 – 12.00	Session 2 – Disasters and Impacts on WASH Infrastructures in Bangladesh
Section 2	12.00 – 13.00	Session 3 – Stakeholders’ Roles in Disaster Risk Reduction and Emergency Preparedness and Response in WASH
	13.00 – 14.00	Lunch and prayer break
Section 3	14.00 – 15.00	Session 4 – Standards and Guidelines for WASH during Disasters and Emergency Response
	15.00 – 15.15	Tea break
	15.15 – 16.30	Session 5 – Climate Resilient WASH Technologies
<b>Day 2</b>		
Review Session	9.30 – 10.00	Review of Day-1 Session’s Contents
Section 4	10.00 – 11.00	Session 6 – WASH Services for Disaster and Emergency Response
	11.00 – 11.15	Tea break
	11.15 – 13.00	Session 7 – Emergency Response Planning (ERP) in WASH and Implementation
	13.00 – 14.00	Lunch and prayer break
Meeting	14.00 – 15.30	WASH Cluster Meeting
	15.30 – 15.45	Tea Break
Closing Session	15.45 – 16.30	Closing Remarks and Certificate Distribution

## Annex-2: List of participants in the training

Sl. No.	Name	Designation & Organization
1.	Md. Alamgir Mia	Project Coordinator, Shushilan, Amberkhana, Sylhet
2.	Ahamed Hossain Chowdhury	Area Manager, Asia Arsenic Network, Balaganj, Sylhet
3.	Pallab Kanti Roy	Field Technical Program Specialist-Health Nutrition & Sylhet ACO, World Vision Bangladesh
4.	Md. Delowar Hossain	Focal, Emergency Response & DRR, FNDB, Khadinagar, Sylhet
5.	Dencil Podueng	Junior Program Officer, Caritas Bangladesh, Sylhet Region
6.	Mohammad Layes Miah Talukder	Assistant Engineer, DPHE, Sylhet Sadar
7.	Mohammad Azad Kazi	Assistant Engineer, DPHE, Zakiganj, Sylhet
8.	Shah Mamunul Ahad	Field Team Leader, iDE, Sylhet
9.	Md, Yunus Ali	SAE, DPHE, Gowainghat
10.	Anick Ahammad Opu	District Coordinator, BRAC, Sylhet
11.	Sakhawat Ershad	District Primary Education Officer, Sylhet
12.	Tahmina Tanvin	EE, DPHE, Habiganj
13.	Md, Ruhul Amin	SAE, DPHE, Jaintapur, Sylhet
14.	Abdullah	SAE, Fenchuganj, Sylhet
15.	Rafiqul Islam	AE, DPHE, Sylhet
16.	Paniruzzaman	AE, DPHE, Kanaighat, Sylhet
17.	Kazi Riyal	AE, DPHE, South Surma, Sylhet
18.	Md. Amdadul Haque	Estimator, DPHE, Sylhet
19.	Mohammad Shaheen	ED, Habiganj Unnayan Sangstha, Habiganj
20.	Md. Jahangir Alam	Estimator, DPHE, Moulvibazar
21.	Md. Saiful Islam	SAE, DPHE, Sremangal, Moulvibazar
22.	Moin Uddin	SAE, DPHE, Barlekha, Moulvibazar

<b>23.</b>	Sujan Ahammed	Sub-Assistant Engineer, DPHE, Kamolganj, Moulvibazar
<b>24.</b>	Faysal Ahmed	Project Coordinator, ERA, Sunamganj
<b>25.</b>	Md. Robiul Alam	SAE, DPHE, Ajmirganj, Habiganj
<b>26.</b>	Ali Ajur	SAE, DPHE, Baniachong, Habiganj
<b>27.</b>	Md. Jakari	SAE, DPHE, Nabiganj, Habiganj
<b>28.</b>	Md. Abdur Ranak	AE, Lakai, Habiganj
<b>29.</b>	Md. Mohiuddin	AE, DPHE, Chunarughat, Habiganj
<b>30.</b>	Md, Muhosin	SAE, DPHE, Kulaura, Moulvibazar
<b>31.</b>	Md. Mizanur	SAE, DPHE, Chhatak, Sunamganj
<b>32.</b>	Bipresh Talukdar	SAE, DPHE, Dowarabazar, Sunamganj
<b>33.</b>	Mridul Kanti Sarker	SAE, DPHE Biswamvorpur, Sunamganj
<b>34.</b>	Al-Amin	SAE, DPHE Tahirpur, Sunamganj
<b>35.</b>	Ram Kumar Shaha	SAE, DPHE, Jamalganj, Sunamganj
<b>36.</b>	Md. Khaleduzzam	EE, DPHE, Moulvibazar
<b>37.</b>	Md. Abul Kashem	EE, DPHE, Sylhet & Sunamganj

### Annex-3: List of Participants in WASH Cluster Meeting

SL. No.	Name	Designation
1.	Md. Alamgir Mia	Project Coordinator, Shushilan, Amberkhana, Sylhet
2.	Ahamed Hossain Chowdhury	Area Manager, Asia Arsenic Network, Balaganj, Sylhet
3.	Pallab Kanti Roy	Field Technical Program Specialist-Health Nutrition & Sylhet ACO, World Vision Bangladesh
4.	Md. Delowar Hossain	Focal, Emergency Response & DRR, FNDB, Khadinagar, Sylhet
5.	Dencil Podueng	Junior Program Officer, Caritas Bangladesh, Sylhet Region
6.	Mohammad Layes Miah Talukder	Assistant Engineer, DPHE, Sylhet Sadar
7.	Kamrul Alam	WASH Officer, UNICEF Sylhet Field Office
8.	Shah Mamunul Ahad	Field Team Leader, iDE, Sylhet
9.	Anick Ahammad Opu	District Coordinator, BRAC, Sylhet
10.	Md. Abul Kashem	EE, DPHE, Sylhet & Sunamganj

## Annex-4: Task for group work in session 4

### Sphere Standards

(Group work based on [Standard 1.1, 1.2, and 1.3](#))

Time: 15 minutes

Suppose there are **5000 disaster-affected households (HHs)** in a community in which 6000 people are women, 3500 are men, and the rest are children. To evaluate the awareness of the key public health risks related to hygiene, the following information is collected through a social survey.

- **1500 HHs** correctly describe the three measures to prevent WASH-related diseases.
- **3000 HHs** store drinking water in clean and covered containers.
- **4500 HHs** have soap and water for handwashing.
- The local environment is free from animal feces but nearly **25% area** is covered with human feces.
- Each HH has **only one** water container varying from **10-20L**.
- **None of the women** is satisfied with menstrual hygiene management.

#### Based on the above survey findings, answer/comment on the following queries

1. Find the percentage of HHs who correctly describe the three measures to prevent WASH-related diseases.

(Answer: \_\_\_\_\_ % of HHs)

2. Find the percentage of HHs who store drinking water in clean and covered containers.

(Answer: \_\_\_\_\_ % of HHs)

3. Find the percentage of HHs who have soap and water for handwashing.

(Answer: \_\_\_\_\_ % of HHs)

4. The affected area meets all the standards based on hygiene promotion.  YES  NO

5. Do you think that this affected community meets Standard 1?  YES  NO.

If NO, suggest any three potential measures to meet Standard 1.

(i) \_\_\_\_\_

\_\_\_\_\_

(ii) \_\_\_\_\_

\_\_\_\_\_

(iii) \_\_\_\_\_

\_\_\_\_\_

## Sphere Standards

(Based on [Standard Indicators](#))

Time: 15 minutes

### Hints:

- Go through the Sphere Standard 2 to 6, and answer the following queries.
- Mention that based on which Standard you have selected your answer.

1. Queuing time at water source  $\leq$  30 minutes     TRUE     FALSE    Standard: \_\_\_\_\_
2. At least 100 people per laundry facility     TRUE     FALSE    Standard: \_\_\_\_\_
3. Mean water usage = 15 L/HH/day     TRUE     FALSE    Standard: \_\_\_\_\_
4. Minimum water quality standard: <10 CFU/100mL at delivery point (chlorinated water)     TRUE     FALSE  
Standard: \_\_\_\_\_
5. Least water quality standard:  $\geq$  0.2-0.5 mg/L Free Residual Chlorine at delivery point     TRUE     FALSE  
Standard: \_\_\_\_\_
6. Maximum water quality standard: <5 NTU Turbidity     TRUE     FALSE    Standard: \_\_\_\_\_
7. All excreta containment facilities are an adequate distance from the groundwater source.     TRUE     FALSE  
Standard: \_\_\_\_\_
8. Maximum 50m distance between shared toilets and dwelling     TRUE     FALSE    Standard: \_\_\_\_\_
9. Ratio of shared toilets: minimum 1 per 20 people     TRUE     FALSE    Standard: \_\_\_\_\_
10. All excreta are disposed of in an unsafe manner to the public health and environment.     TRUE     FALSE  
Standard: \_\_\_\_\_
11. Percentage of HHs who have taken adequate action to protect themselves from relevant vector-borne diseases.     TRUE     FALSE    Standard: \_\_\_\_\_
12. There is solid waste accumulating around designated neighborhoods.     TRUE     FALSE    Standard: \_\_\_\_\_
13. Percentage of schools and public markets with appropriate and adequate waste storage.     TRUE     FALSE  
Standard: \_\_\_\_\_

## Annex-5: Pictures of the training



