



Activity Report

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



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1. Introduction

Bangladesh experiences severe difficulties due to its vulnerability to frequent natural disasters, including cyclones, floods, and droughts, caused by climate change, posing a significant threat to its large population. Over the last three decades, the country has suffered approximately 200 natural disasters, attributing this vulnerability to its low-lying topography, proximity to the Bay of Bengal, and the monsoon season. The adverse impacts of these disasters have severely affected the Water, Sanitation, and Hygiene (WASH) sector, leading to the development of climate-resilient WASH infrastructures. In response to these challenges, the Department of Public Health Engineering (DPHE) and UNICEF established the WASH Cluster in 2008, following Cyclone Sidr, with the aim of promoting collaboration among stakeholders in disaster planning and response within the WASH sector. The goals of the WASH Cluster are to enhance local capacity for emergency planning and response, improve national and local coordination mechanisms, promote comprehensive WASH services through the Humanitarian Development Nexus, and encourage collaboration among members. To achieve these objectives, DPHE and UNICEF jointly initiated a series of divisional training events titled “Capacity Development in WASH Sector in Bangladesh: Climate Change Adaptation, Disaster Risk Reduction, and WASH in Emergency Preparedness and Response”. During this 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 a 2-day training program at the divisional level that started in November 2023.

2. Goals and Objectives

The main objective of the capacity development training program was to improve and strengthen the technical capacity of WASH professionals as well as to raise awareness among the stakeholders at the district level, focusing on Climate Change Adaptation (CCA), Disaster Risk Reduction (DRR), and Emergency Preparedness and Response in WASH, in different climate affected regions of Bangladesh. The specific objectives of the training were:

- Strengthen the capacity of WASH sector professionals in disaster and emergency preparedness and response.
- Raise awareness of Disaster Risk Reduction (DRR) in WASH and integrate DRR and climate-resilient approaches into WASH programs nationwide.
- Address disaster and climate change impacts in the WASH sector.
- Identify gaps in climate resilience and develop recommendations to align ongoing activities with disaster-resilient WASH approaches.

- Improve local-level WASH cluster coordination to enhance emergency response capabilities.

3. Activity Overview:

A training module was created for the divisional-level training program to help capacity development of the WASH professionals after a Consultative Workshop, held in Dhaka, on the development of training module. A Training of Trainers (ToT) session was held in Dhaka for the training facilitators followed by the development of the training module. After the ToT, the divisional training took place for the DPHE circles; five batches of the training program were arranged in Barishal, Mymensingh, Khulna, Rangpur, and Dhaka. As part of the training, a WASH cluster meeting was organized for the districts of Barishal, Jamalpur, Khulna, Gaibandha, and Dhaka.

4. Description of Activities

4.1. Consultative Workshop on the Development of Training Module

A consultative workshop was arranged at ITN seminar room, BUET, Dhaka on October 21, 2023 with the objective of the development of the training module. The specific object of the workshop were (a) to develop of a training module from the demo module presented by the facilitator, (b) to develop a schedule of training. A total of 25 participants attended the workshop. Among the participants there were Superintendent Engineers, Executive Engineer, NGO representatives and other Government officials. The list of Participants is attached in [Annex-2](#). The workshop was facilitated by A.H.M. Khalequr Rahman, Superintending Engineer, Store Circle, DPHE, and Maharam Dakua, Consultant, DPHE.



Figure 1: Consultative workshop on the development of training module held at ITN Seminar room, BUET, Dhaka

4.2. Training of Trainers (ToT):

After the development of the training module, a Training of Trainers (ToT) for two days from November 3-4, 2023 was arranged at DPHE Bhaban in Dhaka before the start of the training at the divisional level. The particular objectives of the ToT program were (a) to capacitate the DPHE professionals to lead training at the divisional level, and (b) to find any gaps in the training module and address them as appropriate. A total of 24 participants attended the ToT program, including DPHE officials and NGO representatives. Among them, there were 2 Superintendent Engineers, 12 Executive Engineers, 3 Assistant Engineers, 2 participants from NGOs, and 5 other Government officials. The list of Participants is attached in [Annex 2](#). The ToT program was facilitated by A.H.M. Khalequr Rahman, Superintending Engineer, Store Circle, DPHE, and Maharam Dakua, Consultant, DPHE. A separate session on the WASH Cluster was facilitated by Saleha Khatun, Cluster Coordinator – WASH in Emergencies Specialist, UNICEF.



Figure 2: Training of Trainers (ToT) program held at DPHE Bhaban, Dhaka

4.3. Divisional Training

Training at the divisional level began in November 2023. The training program was arranged in five districts at Barishal, Mymensingh, Khulna, Rangpur, and Dhaka, representing their respective DPHE circles. There were a total of seven sessions conducted over two days in addition to an opening and a closing session, covering a wide range of topics such as climate change impacts, disaster management, regulatory frameworks, and WASH technologies for emergencies.

The sessions were:

- Session 1: Climate Change and Its Impacts on Water, Sanitation and Hygiene (WASH)
- Session 2: Disasters and Impacts on WASH Infrastructures in Bangladesh

- Session 3: Stakeholders' Roles in DRR and Emergency Preparedness and Response in WASH
- Session 4: Standards and Guidelines for WASH during Disasters and Emergency Response
- Session 5: Climate Resilient WASH Technologies
- Session 6: WASH Services in Disasters and Emergency Response
- Session 7: Emergency Response Planning and Implementation in WASH

Participants were actively involved in various tasks and activities during the sessions, including group work to identify indicators and impacts of climate change, quizzes conducted through Mentimeter, and discussions on real-life problems related to water supply, sanitation, and hygiene during disasters.



(a)



(b)



(c)



(d)

Figure 3: Group work of session 1 on identifying indicators, outcomes, consequences, and impacts of climate change in ToT(a), Barishal(b), Mymensingh(c), and Dhaka(d)

These interactive tasks helped reinforce learning and fostered active participation among the participants. Additionally, a demo of a disaster rapid assessment tool was showcased during the training program. This tool aimed to facilitate quick data collection and sharing of information on the status of WASH technologies in disaster-affected areas, enabling efficient response planning and implementation. The training schedule is attached as [Annex-1](#). The training program was facilitated by experts working in the WASH sector of Bangladesh with a specialty

in climate change adaptation, disaster risk reduction, and WASH in an emergency. The facilitators of the 2-day training program were:

- A.H.M. Khalequr Rahman, Superintending Engineer, Store Circle, DPHE, Dhaka
- Maharam Dakua, Consultant, DPHE
- Dr. Md. Imran Kabir, Professor, Department of Civil Engineering, SUST
- Md. Yasin Arafat, Executive Engineer, Store Division, Dhaka
- Md. Zahid Parvez, Executive Engineer, DPHE, Jashore
- AKM Ibrahim, Ex-Additional Chief Engineer, DPHE
- Rebeka Ahsan, Executive Engineer, DPHE, Chattogram (Store Division)
- Pankaj Kumar Saha, Executive Engineer, DPHE, Rangpur
- Dilruba Farzana, Executive Engineer, DPHE, Dhaka
- Md. Samiul Hoque, Executive Engineer, DPHE, Sherpur



Figure 4: Facilitator discussing the standards and guidelines for WASH services in an emergency in Dhaka



Figure 5: Participants engaging in group work on Sphere Standards in session 4 (Dhaka)



Figure 6: Facilitator discussing the operation and maintenance of water supply, sanitation, and hygiene systems during and after disasters (Dhaka)

4.4. WASH Cluster Meeting:

A WASH cluster meeting was arranged at the end of the sessions of each of the five divisional training. The meeting was organized for Barshial, Jamalpur, Khulna, Gaibandha, and Dhaka districts where the participants from these districts, who attended the training, took part. The members of the meeting were the DPHE Executive Engineer, Assistant Engineers, Sub-Assistant Engineers of DPHE, Estimators and draftsmen, UNICEF representatives, and NGO representatives who are members of the WASH Cluster. The profile of the participants is presented in [Annex-6](#). 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 Maharam Dakua. The WASH Cluster meetings were chaired by the Executive Engineer of DPHE. The agenda of the meetings were:

- Identifying members of the WASH Cluster at the district level
- Discussion on the structure of the WASH Cluster at the district level (what will be the committee structure, member/member secretary, etc.)
- Frequency of WASH Cluster meetings and mechanisms for arranging the meetings
- Identify the scope of work for the WASH Cluster (what activities we should aim for at this stage, how can we start the coordination through the Cluster approach, etc.)



Figure 7: WASH Cluster meeting conducted for the districts Barishal (a), Jamalpur(b), Khulna(b), Gaibandha(d), and Dhaka(e)

After the end of the meeting, the following decisions were taken:

- Submission of the 5W matrix: The members of the meeting decided that they will submit the 5W matrix to specify WHO is working, WHERE are they working, WHEN are they working, WHAT are they doing, and for WHOM are they working.
- Schedule for the next meeting: The members decided that there will be a WASH Cluster meeting every 3 months.

5. Conclusion

The effective execution of a two-day training program in five divisional cities for DPHE engineers, Government officials and NGO professionals across 26 districts in five batches stand as a commendable achievement. The responses observed in the performances and feedback

from participants underscore the success of this initiative. The findings from the workshop, ToT and the training programs highlight the crucial importance of continuing capacity development in the WASH sector in Bangladesh, especially in the areas of emergency planning and response. The list of the districts from which DPHE officials participated in the training is provided in [Table 1](#).

Table 1: List of participating districts in the training

Sl. No.	DPHE Circle	Participating Districts
1	Training of Trainers (ToT)	Chattogram, Rangpur, Netrokona, Barishal, Sirajganj, Sylhet, Jashore
2	Barishal	Barishal, Bhola, Patuakhali, Pirojpur, Barguna, Jhalokathi
3	Mymensingh	Mymensingh, Netrokona, Sherpur, Jamalpur
4	Khulna	Khulna, Kushtia, Bagerhat, Jashore, Satkhira
5	Rangpur	Rangpur, Gaibandha, Kurigram, Lalmonirhat
6	Dhaka	Dhaka, Manikganj, Tangail, Munshiganj, Kishorganj

A total of 235 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.

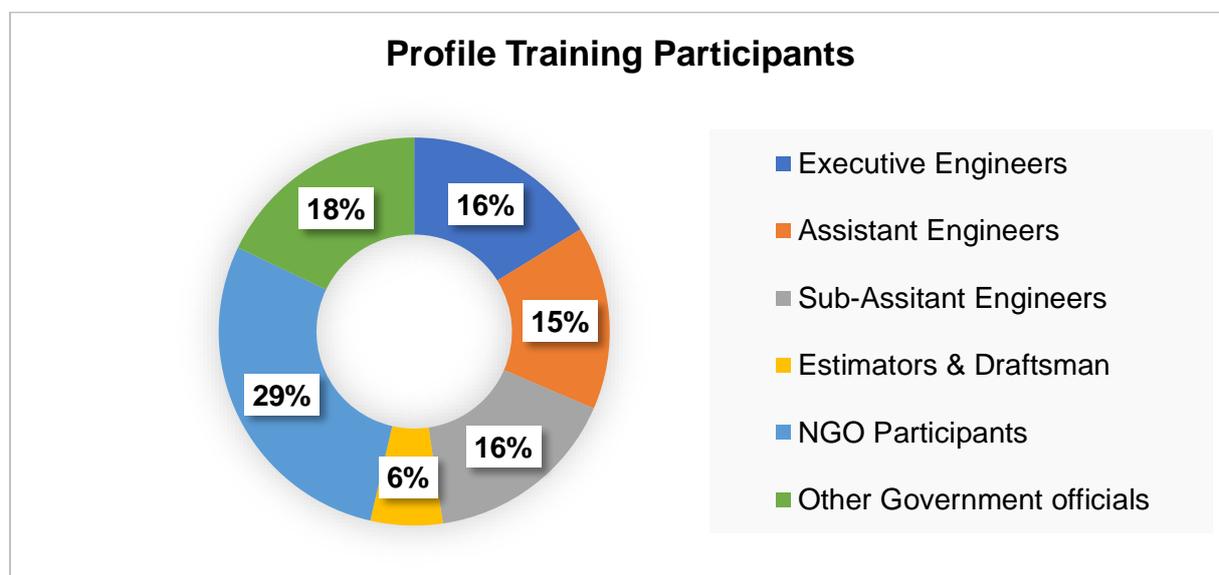


Figure 8: Profile of the Training Participants

Among the participants, there were 38 Executive Engineers, 36 Assistant Engineers, 38 Sub-Assistant Engineers, and 14 Estimators and Draftsmen of DPHE as trainees. In addition, 67

NGO representatives and 42 officials from other departments of government participated in the program. The profile of the participants is presented in [Annex 5](#).

ANNEX

Annex-1: Schedule of the Training

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

Training Schedule

Topics	Time	Session Contents
Day 1		
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
Day 2		
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

Table A 1: Participants list for the Consultative Workshop held at ITN Seminar Room, BUET, Dhaka

Sl. No.	Name	Designation & Organization
1.	Mst. Saleha Khatun	National WASH Cluster Coordinator, WASH In Emergency, UNICEF
2.	Md. Shamim Anwar	Assistant Engineer, DPHE
3.	Md. Khairul Hasan	Executive Engineer, DPHE
4.	Rebeka Ahsan	Executive Engineer, Store, Chattogram
5.	Ibrahim MD. Taimur	Executive Engineer, DPHE , Kushtia
6.	Md. Mahmud Khan	Executive Engineer, DPHE Design Division
7.	M.A. Samad Azad	Manager WASH Save the Children
8.	Md. Farukh Hosen Khan	Programme Manager, WASH, BRAC
9.	Md. Hasibul Hasan	Hydrologist, DPHE
10.	Narayan Chandra Somoddar	Manager Technical, BRAC, WASH Program
11.	Md. Shamim Akhter	AE, DPHE, Store Division, Dhaka
12.	Dilruba Farzana	Executive Engineer, SIR, DPHE
13.	Dalila Afroze	Executive Engineer, Design, DPHE
14.	Md, Yasin Arafat	Executive Engineer, Store Division, Dhaka
15.	Md, Raushan Alam	Superintending Engineer, Dhala Circle, DPHE
16.	Nazia Tasmin	DPO, FREAP, DPHE
17.	Ehete Shamul Russel Khan	Superintending Engineer, FS&D circle, DPHE
18.	Ruksana Parvin	Executive Engineer, Training Division, DPHE
19.	Md. Abdulla-hill-kafi	Assistant Engineer, DPHE
20.	Mahmud Kabir Chowdhury	PD, Bangladesh City Inclusive Sanitation
21.	Sadia Sultana	JSDO, DPHE, Dhaka
22.	Areef Anowar	PD, FREAP, DPHE
23.	Mohammammad Ali	
24.	Subrata Paul	Trainin Specialist, ITN-BUET
25.	Junaid Shahriar	Research Associate, ASGD

Table A 2: Participants list for the Training of Trainers(ToT) held at ITN Seminar Room, BUET, Dhaka

Sl. No.	Name	Designation & Organization
26.	Dr. Md. Imran Kabir	Professor, Dept of CEE, SUST, Sylhet
27.	Md. Shamim Anwar	Assistant Engineer, DPHE
28.	Farhana Hossain	Executive Engineer, DPHE
29.	Rebeka Ahsan	Executive Engineer, Store, Chattogram
30.	Pankaj Kumar Saha	Executive Engineer, Rangpur
31.	Muhammad Mashiur Rahman	Executive Engineer, Netrokona
32.	Md. Emran Tarafder	Executive Engineer, Barishal
33.	Md. Rokonujjaman	Executive Engineer, Sirajganj
34.	Md. Azad Kazi	Assistant Engineering, DPHE Sylhet
35.	Md. Abdulla-hill-kafi	Assistant Engineer, DPHE
36.	Md. Zahid Parvez	Executive Engineer, DPHE, Jashore
37.	Dilruba Farzana	Executive Engineer, SIR, DPHE
38.	Dalila Afroze	Executive Engineer, Design, DPHE
39.	Md, Yasin Arafat	Executive Engineer, Store Division, Dhaka
40.	Md, Raushan Alam	Superintending Engineer, Dhala Circle, DPHE
41.	Nazia Tasmin	DPO, FREAP, DPHE
42.	Ehete Shamul Russel Khan	Superintending Engineer, FS&D circle, DPHE
43.	Ruksana Parvin	Executive Engineer, Training Division, DPHE
44.	Palash Chandra Das	Executive Engineer, Chattogram
45.	Mahmud Kabir Chowdhury	PD, Bangladesh City Inclusive Sanitation
46.	Sudeshna Biswas	Documentation Officer, NGO Forum
47.	Areef Anowar	PD, FREAP, DPHE
48.	Fatema Akter	LDATC-Office of DPHE, Store Circle Dhaka
49.	Junaid Shahriar	Research Associate, ASGD

Table A 3: Participants list for training batch 1 at Hotel Grand Park, Barishal

Sl. No.	Name	Designation & Organization
1	Kazi Waliullah	Assistant Engineer, DPHE, Bhola
2	Khokan Ch. Shil	Project Coordinator, Adolescent Program-COAST Foundation, Bhola
3	Md. Mehedi Hasan	Sub-Assistant Engineer, Tazumuddin Upazila, Bhola
4	Abdur Rahman	Sub-Assistant Engineer, Galachipa Upzilla, Potuakhali
5	Md. Kabir Hossain	Assistant Director-2, UDDIPAN-Barishal
6	Sanjib Chandra Roy	JPO, Caritas Barishal
7	Md. Mosharaf Hossain	Regional Manager, NGO Forum for Public Health, Barishal
8	Polia Akter Poly	Estimator, DPHE, Jhalokathi (Store Officer)
9	Muhammad Jahangir Hossain	District Education Officer, Barishal
10	Sheikh MD. Akteruz Zaman	DDEO, Barishal
11	Md. Sultan Uddin	District Manager, BRAC, Pirojpur
12	Md. Al-Amin	Head of Barishal Field Office Save the Children Int. , Barishal
13	MD. Rustum Ali	Assistant Engineer, DPHE, Bhandaria, Pirojpur
14	MD. Ashrafuzzaman	Executive Engineer, DPHE, Patuakhali
15	Md. Abu Saleh	Assistant Engineer, DPHE, Barishal Sadar
16	Abdus Sattar Khan Liton	AE, DPHE, Mathbaria, Pirojpur
17	Md. Sohel Rana	AE, DPHE, Patuakhali Sadar
18	M Bayzidul Islam	AE, DPHE, BC
19	Md. Kamal Hossain	Assistant Engineer, DPHE, Charfasson, Bhola
20	Engr Md. Suman	Assistant Engineer, DPHE, Babuganj Upazilla, Barishal
21	Md. Ashraf Hossain	EAE, DPHE, Monpura, Bhola
22	Liton Mondal	Senior Manager, World Vision Bangladesh

23	Md. Mamun Hossain	SAE, DPHE, Mehendiganj, Barishal
24	Dola Malik	AE, DPHE, Betagi, Barguna
25	Md. Raisul Islam	XEA, DPHE, Barguna
26	Sathi Begum	SAE, DPHE, Rangabali, Patuakhali
27	Jahanara Begum Shapna	Chandradip Development Society
28	K.M. Enayet Hossain	ED, SDA, Patuakhali
29	Khandaker Ershaduzzaman Mridul	EXER, Jhalokathi, DPHE
30	Md. Jihad Hossen	SAE, DPHE, Kalapara, Patuakhali
31	S.M. Shahidul Islam	SE, DPHE
32	Ranjit Kumar Sanker	DRRO-Barishal DC-Office
33	Dr. Sabya Sachi Das	Deputy Civil Surgeon, CSO, Barishal
34	Rekha Yesmin	Project Coordinator, Sheeshilem- Barguna
35	Mehedi Hasan	Barguna, Patharghata (SAE), DPHE
36	Md. Ali Ahsan	Program officer (WASH), AVAS Barishal Sadar
37	Md. Emran Tarafder	Executive Engineer, Barishal
38	Md. Razaul Kabir	AE, DPHE, Barguna
39	Md. Duke Ivn Amin	Director, Jago Nari, Barguna
40	Kazi Jahangir Kabir	Executive Director Saint-Bangladesh, Barishal
41	Furkan Ahmed	WASH Officer
42	Al Mumin Sarwar	Planning and Monitoring officer, DPHE, Barishal

Table A 4: Participants list for training batch 2 held at Spandan Training Facilitation Center, Mymensingh

Sl. No.	Name	Designation & Organization
1	Md. Shakil Sarwar	Sub-Assistant Engineer, DPHE, Khaliajuri Netrokona
2	Subrata Pal	Field Team Leader, IDE-Bangladesh, Sherpur
3	Ziaur Rahman	Upazilla Coordinator (SUS) Kalmakanda ECM project, Netrokona
4	Haradhan Dey	Assistant Engr. DPHE, Sadar, Mymensingh
5	Liton Chandra Sarker	District Manager Unnayan Sangha (US), Jamalpur
6	Md. Firoj Alom	WASH officer, UNICEF
7	Badhon Chiron	Caritas Mymensingh Region Focal person to DM
8	Chonda Hawce	JPO-DM, Caritas Mymensingh
9	Md. Ashrafuzzaman	AE, DPHE, Durgapur, Netrokona
10	Md, Mahmudul Alam Bhuiya	SAE, DPHE, Mohongonj, Netrokona
11	Md. Alamgir	Training Officer, Sabalamby Unnayan Samity, Netrokona
12	Md. Mahbubur Rahman Sumon	SAE, DPHE, Madan, Netrokona
13	Johirul Islam	SAE, DPPHE, Atpara, Netrokona
14	Md. Shofiqul Islam	SAE, DPHE, Madarganj, Jamalpur
15	Md. Sumon Miah	Draftsman, DPHE, Jamalpur
16	Md. Moniruzzaman	AE, DPHE, Sreeebordi, Sherpur
17	Md. Johirul Islam	Estimator, DPHE Sherpur
18	Md. Elias Shah Sarwar	SAE, Jhenaigati, Sherpur
19	Muhammad Samiul Hoque	EE, DPHE, Sherpur
20	Muhammad Mashiur Rahman	EE, DPHE, Netrokona
21	Md. Kabil Hossain	AE, DPHE, Netrokona

22	Helal Uddin	Project officer, Jamalpur, (US)
23	Md. Zakir Hossan	SAE, DPHE, Melandah, Jamalpur
24	Mohammad Rakibur Rahman	SAE, DPHE, Bakshiganj, Jamalpur
25	Nupur Akter	SAE, DPHE, Nalitabari
26	Md. Nazmul Islam	SAE, DPHE, Kalmakanda, Netrokona
27	Md. Mazedur Rahman	AE, DPHE, Jamalpur Sadar, Jamalpur
28	Md, Rakibul Hasan	AE, DPHE, Dewanganj, Jamalpur
29	Muhammad Kamruzzaman	AE, DPHE, Islampur, Jamalpur
30	Md. Shohel Rana	Estimatpr, DPHE, Jamalpur
31	Mehedi Hasan	SAE, DPHE, Sarishabari, Jamalpur
32	Md. Sarwar Hossan	DRRO
33	Muhammad Jamal Hossain	XEN, DPHE Mymensingh

Table A 5: Participants list for training batch 3 held at The Grand Placid, Khulna

Sl. No.	Name	Designation & Organization
1	Mahbuba Farhana Naznin Lutfe	Assistant Inspector, DIST. EDU. Office, Khulna, On behalf of DEO
2	SK Shaker Ahmed	Sanitation Engineering Coordinator - SNV
3	Md. Amzad Hossain	Project Coordinator, SETU, Kushtia
4	Mohammad Abu Zahid	Asst. Coordinator Engineering EPRC, Dhaka
5	Raza Miah	Divisional Manager, BRAC, WASH program Khulna
6	Md. Akter Hossen	Junior Engineer, HYSAWA- SafePani Project
7	Md. Kamruzzaman	Field Team Leader, SanMarkS II Project, iDE Bangladesh
8	Kamal Ahmed Chowdhury	Regional Coordinator ProdiPan
9	Minhaz Monwar Auni	PHE Specialist Helvetas Bangladesh
10	Faruqe-al- Masud	EMDO. JJS. BWSE Program
11	Abdullah Al Masud	Divisional Coordinator, JAAGO, Foundation Trust
12	Prithish Mondal	Asst. Engineer DPHE Khulna Circle
13	Sumon Kumer Roy	Estimator (SAE) DPHE, Khulna Division
14	A.M. Wahiduzzaman	Shushilan – Project Coordination
15	Jayanta Mallick	Executive Engineer, DPHE, Bagerhat
16	Kazi Mazed Nawaz	Director (Programs) Jagorani Chakra Foundation (JCF)
17	G.K.M. Lutfar Rahim	Regional Manager, NGO Forum for PH, Khulna
18	Abdus Sabur Biswas	Executive Director, Agrogoti Sangstha
19	Istiaque Ahmed	SAE, DPHE, Koyra
20	Md. Mostafizur Rahman	AE, DPHE, Assasuni
21	Md. Ikramul Kabir	Estimator, DPHE, Jashore
22	Md. Aminul Islam	AE, DPHE, Paikgacha

23	Md. Shamiur Rahman	AE, DPHE, Dacope
24	Md. Monirul Islam	SAE, DPHE, Morrelganj
25	S.M. Mehedi Hasan	SAE, DPHE, Shonakhula, Bagerhat
26	Md. Tareq Aziz	Estimator, DPHE, Bagerhat
27	Md. Mufizur Rahman	Estimator, DPHE Satkharia
28	Md. Juwel Hosen	SAE, Kaliganj, Satkhira
29	Md. Mustafijur Rahman	SAE, DPHE, Shyamnagar, Satkhira
30	Md. Nahid Mahmud	WASH officer, UNICEF
31	Sohan Ahmmed	SAE, Mongla, Bagerhat
32	Md. Showkat Hossen	Field Coordinator LEDARS Shyamnagar Satkhira
33	Md. Akmol Hosen	EE, DPHE, Khulna
34	Sheikh Ahidul Alam	DPEO, Khulna
35	Md. Khairul Hasan	XEN, DPHE, Store Circle, Khulna
36	Md. Shahidul Islam	XEN DPHE, Satkhira
37	Dr. Md. Sabetul Islam	Medical Officer Civil Surgeon office, Khulna

Table A 6: Participants list for training batch 4 held at Parjatan Motel, Rangpur

Sl. No.	Name	Designation & Organization
1	Md. Shakil Amammed	Manager CA Friendship, Gaibandha-Sadar
2	Sk. Mamum	Project Coordinator & Focal Person SKS Foundation Gaibandha
3	A.B.M. Masudunnabi Lipo	Assistant Director (AD) Sinnomul Mohila Samity (SMS) Gaibandha
4	Md. Rezaul Karim	Project Coordinator MJSKS, Ulipur Kurigram
5	Aleya Begum	Deputy Director (DD) Solidarity, Kurigram
6	Amir Hossain	Project Coordinator, Esdo, Rangpur
7	Md. Arifur Rahman	DRR officer, Handicap International, Kurigram
8	Subrata Kumer Sarker	Project Manager, CARE-BD, Kurigram
9	Md. Mizanur Rahaman	Audit Officer Nazir-Lalmonirhat
10	Md. Saifur Rahman	Executive Director, RSDA, Rowmani, Kurigram
11	Md. Mamunor Rashid	SAE, DPHE, Saghata, Gaibandha
12	Md. Tarikul Islam	SAE, Roumari, DPHE, Kurigram
13	S.M. Mutakabirul Hoque	WASH advisor, Cordaid, SONGO project
14	Tapan Kumar Saha	Coordinator RDRS Bangladesh, Kurigram
15	Kishor Kumar Sarker	Assistant Coordinator, Gana Uunayan Kendra (GUK), Gaibandha
16	Md. Rasel Mia	SAE, DPHE, Hatibandha, Lalmonirhat
17	Md. Azizul Hakim Aziz	Estimator, DPHE, Lalmonirhat
18	Chandakishar Roy	AE, DPHE, Char Rajibpur Kurigram
19	Uttam Kumar Singh	SAE, Chilhari DPHE, Kurigram
20	Arifur Rahman	SAE, Kurigram Sadar, DPHE, Kurigram
21	Md. Younus Ali	SAE, Fulchari Gaibandha
22	Md. Khukon Rana	SAE, Sundorganj, Gaibandha

23	Most. Saraban Tahura	SAE, Gangachara, Rangpur
24	Md. Afjal Hossain	Estimator, DPHE, Rangpur
25	Rakibul Islam	Estimator, DPHE, Gaibandha
26	Md. Nezamul Haque	AE, DPHE, Rangpur circle, Rangpur
27	Md. Shahidul Islam	District Primary Education Officer, Rangpur
28	Engr, Md. Abdul Alim Gazi	EXEN, DPHE, Lalmonirhat
29	Engr. Md. Shayhan Ali	Executive Engineer, DPHE, Gaibandha
30	Md. Ruhul Amin	WASH officer, UNICEF
31	Tultuli Rani	District Training Coordinator, DEO office, Rangpur
32	Dr. Snigdha Debnath	Medical Officer, Civil Surgeon office, Rangpur
33	Shah Md. Ahsan Habib	Regional manager, NGO Forum for Public Health, Rangpur
34	Harunur Rashid	EXEN, DPHE, Kurigram
35	Md Motahar Hossain	DRRO, Rangpur
36	Md. Moniruzzaman	Estimator, DPHE, Kurigram
37	Zannat	Assistant Commissioner, DC, Office, Rangpur

Table A 7: Participants list for training batch 5 held at ITN Seminar room, BUET, Dhaka

Sl. No.	Name	Designation & Organization
1.	Md. Abu Saleh	Asst. Administrator, Asia Arsenic Network
2.	Md. Moktur Ali	Assistant Engineer, DPHE, Dhaka Circle
3.	Md. Sohib Alam	Sub Assistant Engineer, Store division, DPHE, Dhaka
4.	Robin Hossain	SAE, Store Circle, DPHE, Dhaka
5.	Mahmudul Hasan	Emergency officer, UNICEF
6.	Md. Kabul Khan	Assistant Engineer, DPHE, Manikganj Sadar
7.	Md. Dabirul Islam	Sub Assistant Engineer, DPHE, Bhuapur, Tangail
8.	Abdullah Al Mamun	Assistant Engineer, DPHE, Bhuapur, Tangail
9.	Md. Kalim Uddin	Assistant Engineer, DPHE, Dhaka Division
10.	Mosrat Jahan	SAE, DPHE, Tangail Sadar, Tangail
11.	Md. Shafiqul Islam	Assistant Commissioner, Office of the Deputy Commissioner Dhaka
12.	H.M. Shahid Hasan	National Risk Officer, UNRCO, Gulshan, Dhaka
13.	Md. Hasan Ahmed	UPIO, DDM, Dhaka
14.	Fatema Kawsar June	Deputy Manager, WASH, BRAC, Mohakhali, Dhaka
15.	Md. Abdur Razzak	Sr. WASH officer, Bangladesh Red Crescent Society, Dhaka
16.	Tasnim Binta Mukhlis	Program officer, Dwip Unnayan Sangstha, Noakhali
17.	Gazi Fatima Ferdous	Executive Engineer, DPHE, Manikganj
18.	Md. Shamim Anwar	Assistant Engineer, DPHE, store division, Dhaka
19.	Md. Noyon Ali	Program Officer-Engineer NGO Forum for Public Health, Dhaka
20.	Mohammad Abu Zahid	Assistant Coordinator Eng. EPRC, Dhaka
21.	Md. Humayun Kabir	Executive Engineer, DPHE, Munshiganj
22.	Muhammad Abdul Majid	DEO, District Education officer, Dhaka

23.	S.M. Abdur Rahman	SAE, DPHE, Mushniganj Sadar
24.	Md. Sharif Hossain	Estimator, Munshiganj, DPHE
25.	Md. Fuhad Mollah	Deputy Manager WASH DRR, Save the Children, Cox's Bazar
26.	Md. Shadik Al Hayat	Deputy Director MSE, Light House, Bogura
27.	Mst. Tanjena Akter	Head of External Relations & Communications, Global One, Dhaka, Bangladesh Country officer
28.	Md. Al Amin	Estimator DPHE, Dhaka Circle
29.	Rajoni Akter	Program Officer, GUSS, Dhaka
30.	Md. Azizur Rahman	Research Officer, ITN-BUET
31.	Md. Yasin Arafat	Executive Engineer, Store Division, Dhaka
32.	Md. Ibne Mayaz Pramanik	Executive Engineer, Tangail
33.	Mehedi Hasan	Sub Assistant Engineer, Dohar, Dhaka
34.	Dr. Kazi Md. Omaar Faruk	MO, CS, Civil Surgeon Office Dhaka
35.	Mohammad Mashod Reja	AE, Bhairan, Kishorganj
36.	Subrata Sarker	AE, Karimganj, Kishorganj
37.	Md. Shafiqul Islam	SAE, hosenpur, Kishorganj
38.	Md. Abdul Aziz	District Primary Education office, Mirpur, Dhaka
39.	Dr. Nigar Sultana	Deputy Program Manager, Hospital Services Management, Directorate General of Health Services

