



Fourth Primary Education Development Program (PEDP-4)

# Semi-Annual Environmental Monitoring Report-XI

Jan '2025 – Jun '2025

Local Government Engineering Department

Department of Public Health Engineering (DPHE)

A Combined Report on the Environmental Safeguard Issues During the Construction of School Buildings and Wash Blocks Under PEDP-4



Directorate of Primary Education (DPE)

June, 2025

## **Contents**

ABBREVIATIONS & ACRONYMS.....	1
PART-A.....	1
Local Government Engineering Department (LGED).....	1
1. INTRODUCTION .....	1
1.1. Background.....	1
1.2. PEDP4 Objectives:.....	1
1.3. PEDP4 Component .....	1
1.4. Type of Sub-projects.....	1
1.5 Purpose of the Environmental Monitoring Report (EMR) .....	2
2. Implication and compliance of the policies .....	3
3. Environmental Management Process of PEDP4.....	4
3.1 Categorization of Sub-projects.....	4
4.0. The Sub-projects: .....	5
4.1. Sub-project description: .....	5
4.2. Scope of Semi-annual Environmental Monitoring Report (SEMR): .....	5
5.0 Environmental Screening of Sub-projects: .....	9
5.1 Methodology for assessing environmental impacts: .....	9
5.2 Sub-projects screened: .....	10
<b>5.2.1 Sub-projects screened for Schools:</b> .....	10
6.0 Environmental Management Plan (EMP): .....	14
6.1 Existing Impacts on Environment:.....	14
6.2. Mitigation/Benefit Enhancement Measures:.....	15
7.0 Positive Impacts/Benefits Enhancement Measures:.....	18
7.1. Positive impact:.....	18
7.2. Benefit Enhancement Measures to be taken: .....	18
7.3. Site/Project Alternatives: .....	19
8.0 Response on COVID- 19: .....	19
9.0 Grievance Redress Mechanism (GRM) during the reporting period: .....	20
10.0 Environmental Monitoring.....	21
10.1 Construction phase Monitoring.....	21
10.2 Health and Safety Status .....	23
11. LGED’s Program Implementation, Supervision and Monitoring .....	25
34. 11.1 Implementation, Supervision & Monitoring .....	25
11.2 Programme Implementation Monitoring Software .....	26
11.3 Measures undertaken to implement the EMF: .....	26
12. Consultation/ Coordination Meeting:.....	27
13. Key learnings, Major challenges and Overcome strategy.....	33

14. Compliance Status to ADB Loan Covenants.....	35
15. Implementation Status of CAP recommended in aide memoire.....	35
16. Conclusions:.....	36
17. Recommendations:.....	36
18. The project website link of the approved safeguards documents.....	38
Appendix 1: Sub-project photographs of ongoing construction work.....	40
Appendix-2:- Environment friendly construction works in Sylhet district:.....	45
Appendix-3:- Some photographs of environment friendly construction work in Gazipur district: .....	49
Appendix 4: Filled up Environmental Screening Format (Cinashukania GPS).....	55
Appendix-5: List of a discussion meeting with SMC, contractors, Upazila Engineer, and teachers with the Environmental Specialist: .....	59
Appendix 6: Checklist for environmental and social activities during construction period GPS.....	62
Appendix 8: Grievance Redress Mechanism for environmental Activities .....	66
Appendix 9: Grievance Redress Mechanism for environmental Activities .....	67
<b>PART-B.....</b>	<b>68</b>
<b>Department of Public Health Engineering (DPHE).....</b>	<b>68</b>
<b>EXECUTIVE SUMMARY .....</b>	<b>1</b>
<b>1. Introduction.....</b>	<b>71</b>
<b>2. Purpose of the current report .....</b>	<b>71</b>
<b>3. Categorization .....</b>	<b>72</b>
<b>4. Indicators of environmental safeguard as per EMF under PEDP-4 .....</b>	<b>72</b>
<b>5. Methodology .....</b>	<b>73</b>
<b>6. Role of DPHE in comprehensive monitoring.....</b>	<b>74</b>
<b>7. Capacity building .....</b>	<b>78</b>
<b>8. Environmental safeguard screening by DPHE (Jan'2025 – Jun'2025).....</b>	<b>79</b>
<b>9. The Health and Safety Status.....</b>	<b>81</b>
<b>10. Outcomes of environmental safeguard screening .....</b>	<b>82</b>
<b>10.1 Influence of type of water point .....</b>	<b>82</b>
<b>10.2 Distribution of water points based on installed depth .....</b>	<b>82</b>
<b>10.3 Countrywide distribution of water sources &amp; wash blocks .....</b>	<b>83</b>
<b>10.4 Loss of agricultural land.....</b>	<b>84</b>
<b>10.5 Surface Water Pollution:.....</b>	<b>84</b>
<b>10.6 Facilities for draining out of water.....</b>	<b>86</b>
<b>10.7 Source of Existing Water Supply.....</b>	<b>86</b>
<b>10.8 Environment of water supply facility .....</b>	<b>87</b>
<b>10.9 Water Quality test in Laboratory.....</b>	<b>87</b>
<b>10.10 Routine Water Quality Monitoring.....</b>	<b>90</b>
<b>10.11 Hand washing facility and Hygiene Promotion.....</b>	<b>91</b>

<b>10.12</b>	<b>COVID-19 Reality, School Re-Opening, and New Normal</b> .....	92
<b>10.13</b>	<b>Miscellaneous observations</b> .....	92
<b>10.14</b>	<b>Summary of observations</b> .....	93
<b>10.15</b>	<b>Positive environmental impact</b> .....	94
<b>11.</b>	<b>Grievance redressal status</b> .....	96
<b>12.</b>	<b>Compliance Status to ADB Loan Covenants</b> .....	97
<b>13.</b>	<b>Implementation Status of CAP recommended in aide memoire</b> .....	97
<b>14.</b>	<b>Monitoring progress report</b> .....	98
<b>15.</b>	<b>Key learnings, Major challenges and Overcome strategy</b> .....	99
<b>16.</b>	<b>Conclusions</b> .....	100
<b>17.</b>	<b>The project website link of the approved safeguards documents</b> .....	100
	<b>Appendix-1: Sample Environmental Screening for Wash Block</b> .....	101
	<b>Appendix-2: Sample Environmental Screening for Water Sources</b> .....	102
	<b>Appendix-3: Sample water quality monitoring by DPHE zonal Lab</b> .....	103
	<b>Appendix-4: Grievance Redressal Committee of DPHE</b> .....	104
	<b>Appendix-5: Photographs addressing of GRM issues at different sites</b> .....	105
	<b>Appendix-6: Water Quality Report of Unacceptable Water Sources</b> .....	106
	<b>Appendix-7: Water Quality Monitoring and Surveillance Protocol by DPHE</b> .....	129
	<b>Appendix-8: Participant attendance sheet and photo of the capacity building program</b> .....	131
	<b>Appendix-9: Field monitoring photos of the environmental safeguard screening</b> .....	134
	<b>Appendix-10: Photo logs of safeguard arrangement at school</b> .....	140
	<b>Appendix-11: Photo logs of OHS education and training</b> .....	141
	<b>Appendix-12: Task specific safety checklist</b> .....	142
	<b>Appendix-13: Accident checklist</b> .....	144
	<b>Appendix-14: Environmental clearance certificate</b> .....	145
	<b>Appendix-15: Pictures of the RO filter</b> .....	146

## **ABBREVIATIONS & ACRONYMS**

ADB	:	Asian Development Bank
DLI	:	Disbursement Linked Indicator
DP	:	Development Partner
DPEO	:	District Primary Education Officer
DPE	:	Directorate of Primary Education
DPHE	:	Department of Public Health Engineering
DTW	:	Deep Tube Well
EFA	:	Education For All
EMF	:	Environmental Management Framework
EU	:	European Union
GOB	:	Government of Bangladesh
GPE	:	Global Partnership for Education
IDA	:	International Development Association
IPG	:	Infrastructure Plan and Planning Guidelines
JARM	:	Joint Annual Review Mission
JCM	:	Joint Consultation Meeting
JICA	:	Japan International Cooperation Agency
LGD	:	Local Government Division
MLGRD&C	:	Ministry of Local Government, Rural Development and Cooperatives
MoPME	:	Ministry of Primary and Mass Education
MOU	:	Memorandum of Understanding
PEDP-4	:	Fourth Primary Education Development Program
QLEAP	:	Quality Learning for Education Access and Participation
RDPP	:	Revised Development Project Proforma
SDTW	:	Semi Deep Tube Well
SEC	:	Small Ethnic Community
STW	:	Shallow Tube Well
TSP	:	Tube Well with Submersible Pump
UNICEF	:	United Nations International Children's Emergency Fund
WB	:	World Bank

# **PART-A**

**Local Government Engineering Department (LGED)**

**Executive Summary:**

The Fourth Primary Education Development Program is supporting quality, inclusive and equitable education in Bangladesh through enhancing of teaching-learning and providing additional physical facilities for schools and others intuitions of Directorate of Primary Education (DPE). The Primary Education Development Program (PEDP4) has initiated its activities to provide quality, inclusive and equitable primary education which emphasizes appropriate infrastructure development and maintenance to ensure child friendly environment and its effective utilization to achieve the desired goal. The key purposes of Semi-annual Environmental Monitoring Report (SEMR) are to present the status of safeguard measures taken to mitigate the negative environmental impacts arisen due to construction of sub-projects under Primary Education Development Program (PEDP4). The Ministry of Primary and Mass Education (MOPME) is responsible for executing the program through different sub-projects. The Directorate of Primary Education (DPE) acts as the implementing agency. The Local Government Engineering Department (LGED) and the Department of Public Health Engineering (DPHE) are the partners and implementing agencies for major maintenance works and need-based construction works of the program of PEDP4 since its inception. In the reporting period it is found that LGED have taken total 1841 sub-projects for expansion and construction of additional rooms including other institutional infrastructures such as PTI, Head teacher's room, boundary wall, and DPEO offices during the reporting period (January-June, 2025). This SEMR has been prepared based on 1841 sub-projects consisting of 1021 (55.45%) schools, 43 (2.34%) boundary wall, 772 (41.93%) teachers' rooms, and (0.28 %) other institutional infrastructures. Additionally, it is indicating that pollution category of all the sub-projects is in the "Not applicable" category as per the policy of 2023, as the pollution level is very low for the construction of a school building. As this minimal pollution level does not support any category made by DoE, so, it is not needed any certificate. In this respect DoE has issued a letter that is clearly indicated about the certificate issue. For the minimum pollution of school building construction EMP had been done to keep the environment clean, and cost of EMP implementation already included in BoQ. It can be seen from the screening result that most of the sub-projects are being extended vertically and located in existing lands. Capacity Buildings and Awareness Programs, Grievance Redress Mechanism (GRM), and Stakeholder Consultation to ensure sustainable and impactful outcomes in the project area. Major challenges and key issues are identified and overcome these strategically. Occupational health and safety measures were ensured in the community.

In the reporting period 13 consultation meetings held in different locations of the country during the construction period of respective school and NAPE building in Mymensingh. For controlling COVID-19, mask and isolation distance are maintained properly for labors during the construction period. During the reporting period LGED received 189 complaints, among them 111 are solved and 78 are under investigation.

The overall physical progress of PEDP4 development activities have not been achieved as planned in many cases during the reporting period (Jan.-June'2025) due to political instability, and price hike of essentialities and construction materials in the country. The compliance monitoring of the environmental safeguard issues during construction were conducted using a monitoring check list and observed substantially complied. It is noted that contractors and workers maintained healthy environment, sanitation, hygiene, and attired with aprons, gumboots, masks, helmets, and goggles during the construction and pre-construction period of all the sub-projects. Other than, concern for environmental degradation like land use, earth work for foundation and top soil loss was minimal. In addition of that none of the sub-projects were located in any ecologically protected area and no possibility of negative impact on wetland was also observed. The local people are getting involvements in construction activities resulting employment generation. It is likely that there will be employment generation during the operation phase of sub-projects. The sub-projects are fulfilling the demand of additional rooms of schools and other institutional demands. Monitoring and the mitigation measures of environmental impacts are very much needed during sub-projects construction and pre-construction phases to keep the environment free from negative impact. Furthermore, no loss of forest and agricultural land were also reported. Therefore, positive impacts and environment enhancement are being generated due to sub-projects implementation in the project area in a largescale.

## **1. INTRODUCTION**

### **1.1. Background**

1.The Primary Education Development Program (PEDP4) is supportive to the quality primary education through sustainable and appropriate infrastructure development, and maintenance to ensure child and environment friendly education institutions, and its effective utilization to achieve the desired goals. The Local Government Engineering Department (LGED) and the Department of Public Health Engineering (DPHE) are the partners and implementing agencies for need-based infrastructure development and major maintenance of the project. The Ministry of Primary and Mass Education (MOPME) is responsible for executing the program and the Directorate of Primary Education (DPE) is the implementing agency of PEDP4. The Fourth Primary Education Development Program (PEDP4) is financed by the Government of Bangladesh and five Development Partners (DPs) such as ADB, WB, JICA, EU & UNICEF. The PEDP4 interventions were designed to cover entire country including geographically challenged areas like coastal areas, waterlogged areas, *haor*, saline intrusion, hilly terrains, seismic zones, flood, and drought prone areas of Bangladesh. The Fourth Primary Education Development Program (PEDP4) is supporting quality, inclusive and equitable education in Bangladesh through enhancing of teaching-learning methods, and providing additional physical facilities for schools in the whole country through DPE.

### **1.2. PEDP4 Objectives:**

2.The overall objectives of the PEDP4 are to provide quality primary education for all children/students of the country from pre-primary up to grade 5 through an efficient, inclusive and equitable education system.

### **1.3. PEDP4 Component**

3.The PEDP4 has 3 components

- i. Quality education
- ii. Equitable Access and Inclusive Participation
- iii. Management, Governance and Financing.

### **1.4. Type of Sub-projects**

4.Types of subprojects considered under PEDP4 are as follows:  
Need-based school infrastructure Primary education field office buildings including DPE HQ, DD Office, DPEO Office, UEO/TEO Office, Cox's Bazar Leadership Training Centre, PTIs & URCs Office buildings of another institute under MOPME and National Academy for Primary Education (NAPE)

**Table 1: Type of sub-projects and intervention under PEDP4**

Category	Interventions
1. Need Based School Infrastructure	a. Additional classrooms; b. Additional teacher rooms; c. Head Teacher rooms; d. Additional WASH Blocks; e. Safe water sources for drinking; f. Boundary wall; g. Playing items/accessories; i. Maintenance
2. Primary Education Field Office buildings including DPE HQ, Cox's Bazar Leadership Training Centre, PTIs & URCs	a. Construction and expansion of DPE HQ including a mosque; b. Vertical extension of DPE central warehouse, c. Expansion/new construction of DD offices; d. Expansion/new construction of DPEO offices; e. Construction and expansion of leadership training center at Cox's Bazar; f. Expansion/new construction UEO offices; g. Expansion/new construction of URCs; h. PTI infrastructure development.
3. National academy for primary education (NAPE)	a. Land development; b. Boundary wall & gate; c. Trainees' dormitory building; d. Renovation of DG's quarter; e. A multi-storied officers' quarter; f. Guest house renovation; g. DTW & Water Supply Lines; h. Internal roads, walkways and circular jogging track; i. Drainage system; j. Walkway k. Generator room l. Roof gardening m. Mini orchard in front of NAPE building

### 1.5 Purpose of the Environmental Monitoring Report (EMR)

5.The purpose of the Environmental Monitoring Report (EMR) is to present the status of safeguard measures to mitigate the environmental impacts arisen due to construction works of Sub-projects. The EMR is all about the implementation and monitoring the progress of EMP

or environmental safeguard due diligence. More specifically, the EMR provides the updates on the progress of various environmental issues and safeguard measures of the Sub-projects.

## **2. Implication and compliance of the policies**

6. Construction of multi-storied buildings is considered as the 'Not Applicable' category in Environment Conservation Rules 2023. The relevant rules and legislations emphasize the importance of environmental consideration in the program, planning and implementation to promote sustainable development. These provide general guidelines to integrate environmental issues with different sectors of projects and programs. The ECR 2023 has defined different sectors (industries and projects) as 'Green', 'Yellow', 'Orange' and 'Red' categories, considering the extent, magnitude, and types of works and interventions. However, considering the low environmental pollution of the school and other buildings during the construction phase, and the scope of works, extent and magnitude of potential pollution and their harmful effects on human health, Department of Environment has certified the buildings constructed by PEDP 4 as 'Not Applicable' category.

7. The Environment Conservation Rules 2023 describe the category of building construction where it is mentioned that residential and commercial buildings area from 5000 to 20000 sq. meter will fall under orange category. All school buildings and other multistoried buildings of PEDP4 less than 5000 sq meters. It indicates only the minimal pollution of construction will fall under category, 'Not applicable'. However, if new construction more than 10-storied building may be considered such as the NAPE dormitory building and Cox's Bazar Leadership building needed only Environmental Management Plan (EMP) would be required to get the environmental clearance from the Department of Environment (DOE), which have been done for each school separately with the supplied environmental screening sheets.

8. In addition, the Environmental Management Framework (EMF) would need to be submitted to the Department of Environment (DOE) for their review and concurrence. The Bangladesh National Building Code (BNBC) and Bangladesh Labor Act (BLA) underscore certain measures to ensure proper safety and work environment as well as the compensation measures to the laborers. By national law, contractors must follow these safety provisions and compensation arrangements. The implementing agency must ensure that the appropriate occupational health and safety provisions by incorporating in the bidding documents and are being implemented by the contractors properly. Many primary schools in disaster prone areas are also used as cyclone/flood shelters for the community. If the school will be considered as shelter, the concerned District Committee should be consulted about its location and other information. The compliance of polices to be ensured in sub-project implementation so that neither the need-based infrastructure at schools/institutions nor the environment is compromised through the program interventions.

### 3. Environmental Management Process of PEDP4

9. To avoid negative environmental impacts and enhance environmental outcomes of the activities implemented under individual “sub-projects”,

The Environmental Management Processes of PEDP4 are as follows:

- (i) Categorization of the sub-projects;
- (ii) Environmental Screening (Checklist) and preparation of EMP of the sub-projects;
- (iii) Initial Environmental Examination (IEE), if needed.

#### 3.1 Categorization of Sub-projects

10. In general, the environmental categorization identifies what level of environmental assessment is needed for the sub-projects under PEDP4. Considering the large numbers of the “sub-projects”, the PEDP4 proposes a flexible approach for the environmental documentation for different types of the sub-projects.

Table-2 provides a guideline for categorization of “sub-projects” that will determine the level of environmental assessment to be required for the PEDP4 sub-projects.

**Table-2: Categorization of Sub-projects:**

NO.	Types/ Interventions of Sub-projects	Govt. Category	Environmental Documentation Required
1	Maintenance of school	Not applicable	No environmental screening required as these sub-projects are likely to have no negative environmental impacts.
2	Vertical and horizontal expansion for new classrooms / reconstruction of school and office buildings/water supply (tube wells), (deep tube wells)/sanitary latrines/WASH Blocks facilities etc.	Not applicable	Require environmental screening. EMP is required as these sub-projects are likely to have minimal environmental impacts.
3	Construction of new school and Office buildings more than 6 storied (if any).	Not applicable	Require environmental screening. EMP is required as these subprojects are likely to have minimal environmental impacts

#### **4.0. The Sub-projects:**

##### **4.1. Sub-project description:**

11. Under PEDP4, 44000 additional rooms for students & teachers and 9500 rooms for head teachers have been targeted for construction. Beside this, 4 Divisional Deputy Director (DD) office, 64 District Primary Education Office (DPEO), 10000 boundary walls, 110 Upazila Education Office (UEO), 285 Upazila Resources Centre (URC), 64 Primary Training Institute (PTI) and Dormitory building of National Academy for Primary Education (NAPE), Cox's Bazar leadership training complex are also planned for expansion and construction under PEDP4 through LGED. Need-based Infrastructure Development has been incorporated in PEDP4 as program component named Access and Participation to improve the quality of physical learning and working environment through the construction of additional classrooms, boundary wall, head teachers' rooms and other infrastructures.

12. Need based additional class rooms are being constructed to reduce overcrowding in the class room of a school. These are basically of two types vertical extension, horizontal extension and remaining are combination of both. The architectural plan of the vertical extension is determined considering the existing plan of a building following PEDP4 Planning Guideline. In such case, capacity assessments of the foundation of the existing buildings are assessed to find out the feasibility of a vertical extension. In case of horizontal extension, the placements of the new infrastructures are very important to maintain a good school environment considering land scarcity in a densely populated country like Bangladesh. It is noted that the schools are not only buildings but these are associated in many items such as a playground including playing devices which offer better learning opportunities. So, it is highly recommended that the possibility of vertical extension should be explored at first so that, land can be made available for playground. Only if that seems to be unfeasible, a horizontal extension can be considered in this case.

##### **4.2. Scope of Semi-annual Environmental Monitoring Report (SEMR):**

13. In PEDP4, forty-four thousand additional rooms and ten thousand five hundred head teachers' rooms including other institutional infrastructures are planned for construction under need-based infrastructure sub- component.

**Table-3: Cumulative status of Sub-projects:**

Sl. No.	Type of Sub-project	No. of Sub-projects (January. - June, 2025)	Cumulative of Sub-projects No (July, 2018-June, 2025)	Type of Sub-project (Pollution category)	EMP cost incorporated/ omitted in BoQ	Work Status / % of completion	Remarks
1	Additional rooms construction of School	1021	10506	Not applicable	EMP cost is incorporated in BoQ	Tendering and different stages of construction	No. of classroom in DPP was 50000 No. of school in RDPP is 44000
2	Construction of boundary wall	43	9354	Not applicable	EMP cost is incorporated in BoQ	Do	
3	Expansion and construction of DPEO Office	00	15	Not applicable	EMP cost is incorporated in BoQ	Do	03 DPEO office building transfer to major maintenance component
4	Expansion of PTI	03	43	Not applicable	EMP cost is incorporated in BoQ	Do	01 PTI office building transfers to major maintenance component
5	Head teachers' rooms	772	5691	Not applicable	EMP cost is incorporated in BoQ	Do	
6	Cox's Bazar Leadership and NAPE building	NAPE (1)+Cox's Bazar Leadership building (1)	NAPE (1)+Cox's Bazar Leadership building (1)	Not applicable	EMP cost is incorporated in BoQ	Do	The progress of NAPE is 95% and Cox's Bazar Leadership building is 100% completed
	<b>Total</b>	<b>1841</b>	<b>25611</b>				

The table presented above shows the cumulative status of sub-projects on environmental management of PEDP4. The table indicates that LGED had taken total 1841 sub-projects for construction and expansion of additional rooms including other institutional infrastructures such as PTI, head teachers' room, boundary wall and DPEO offices during the reporting period (January-June'25).

This SEMR has been prepared based on 1841 sub-projects consisting of 1021 (55.45%) schools, 43 (2.33%) boundary wall, 772 (41.93%) head teachers' rooms, and 0.29%) other institutional infrastructures. Additionally, the above table presents that all the sub-projects are in category "Not applicable" and cost of EMP implementation already included in BoQ and mostly are at tendering, implementing, and different stages of construction. The progress of NAPE is 95% and Cox's Bazar Leadership building is 100% completed during the reporting period.

**Table 4: Summary and Updated information on the EMR of Sub-project**

Monitoring Criteria	Progress Reporting			Status/Remarks
	(Jan.-June, 2025) / (Current Report-XI)	Previous Report (July, 2018-December, 2024)	Cumulative Progress	
No. of Contract Awarded including EMP	1021	9894	10915	Different stage of construction works
No. of Contract that Incorporated Environmental Clauses	602	9451	10053	Environmental Clauses have been incorporated in all contracts.
No. of trees cut down	60	1869	1929	60 trees were cut down in the reporting period
No. of trees planted	3210	17679	20889	All trees are in good conditions
No. of School for which water logging problem solved.	62	228	290	Water drains out through plastic pipes

After completion of the school buildings, suggestions are given to the contractors and SMC for planting saplings in the blank spaces to make the school buildings environment friendly. As evidence some saplings plantations are highlighted in the picture below:



Picture: Gazipur GPS at Sreepur Upazila of Gazipur district



Picture: Gazipur GPS at Sreepur Upazila of Gazipur district



Picture: Gararon GPS at Sreepur Upazila of Gazipur district



Picture: Chakerbazar GPS at Dakhin Surma Upazila of Sylhet district



Picture: Sikanderpur GPS at Dakhin Surma Upazila of Sylhet district

## **5.0 Environmental Screening of Sub-projects:**

### **5.1 Methodology for assessing environmental impacts:**

14. The following methodology has been followed for assessing the environmental impacts of the sub-projects”. The District & Upazila Offices of LGED are responsible for inspection and

reviewing the existing facilities to fill up the screening format along with preparation of environment management plan (EMP) and its implementation. In particular, the Upazila Sub-Assistant Engineer or Upazila Assistant Engineer/ Assistant Engineer conducted the screening process for preparation sub-project specific EMP. The District Executive Engineer/Upazila Engineer reviewed the screening report and EMP through field visit. In addition of that, District Executive Engineer/Upazila Engineer is also responsible for supervision and monitoring of environmental mitigation activities at district/upazila level during construction phase. Additionally, the engineers working at regional and divisional offices of LGED are responsible to monitor the environmental mitigation or enhancement measures during construction phase. Furthermore, the engineers /officers of Primary Education Infrastructure Management Unit (PEIMU) of LGED HQ also monitored and supervised the environmental mitigation measures at field level. Moreover, Environmental Specialist working at PEIMU is providing assistance in the field of capacity enhancement processes and also providing support in implementing the environmental and social safeguard frameworks of PEDP4.

## **5.2 Sub-projects screened:**

15. A total 1841 sub-projects were screened for construction and expansion of additional rooms including other institutional infrastructures during the current reporting period. The cumulative sub-projects include 10506 schools and 15105 institutional infrastructures such as URC, PTI, Boundary Wall and DPEO offices etc.

### **5.2.1 Sub-projects screened for Schools:**

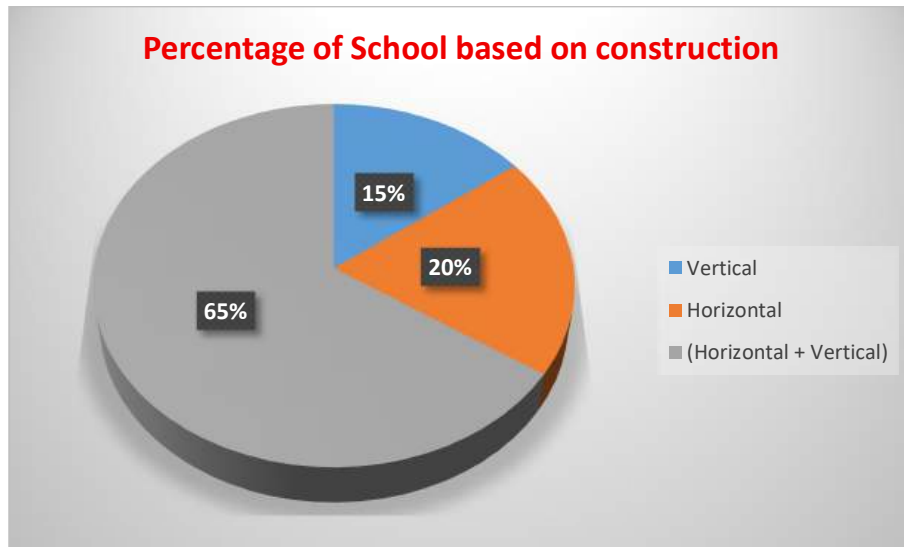
16. It can be seen in the table: 5, presented below a total 10506 schools (Cumulative) were screened for construction of 44128 additional rooms over the project period (July, 2018-June, 2025).

#### **A) Type of School (Cumulative) based on construction:**

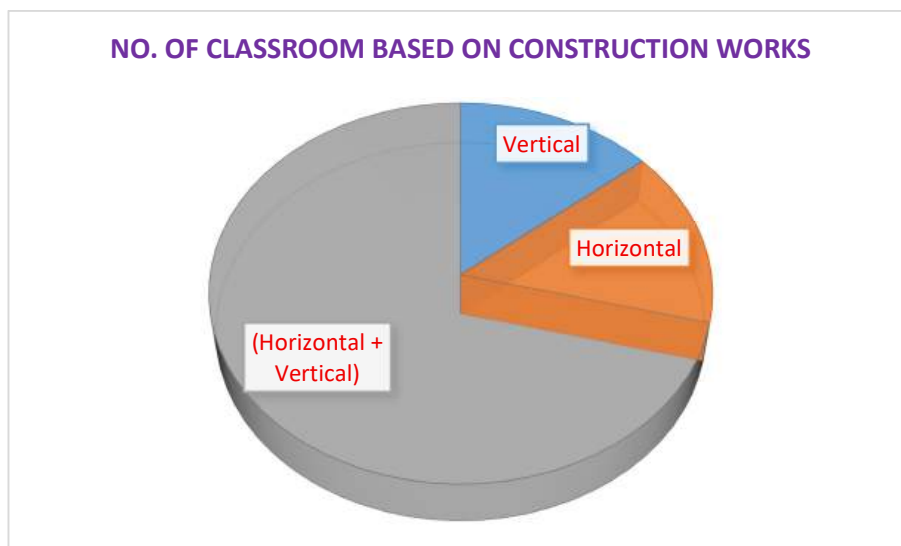
**Table-5: Type of School (Cumulative) based on construction**

<b>Sl. No.</b>	<b>School Type based on construction</b>	<b>No. of School (July, 2018- June, 2025) School / (No of Room)</b>
1.	Vertical	1548 (6173)
2.	Horizontal	2069 (6626)
3.	(Horizontal + Vertical)	6889 (31329)
	Total	10506 (44128)

**Fig: 1 Number of School (Cumulative) based on school construction**



**Fig: 2 Number of Classrooms (Cumulative) based on construction**



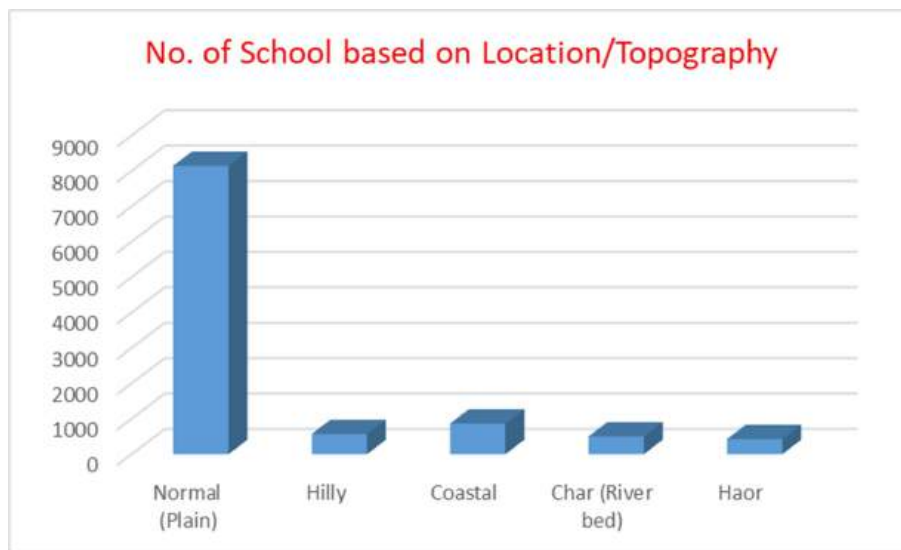
**B) Type of School (Cumulative) based on location:**

17. The table presented below shows that 10506 schools having 8144 in plain, 570 in Hilly area, 865 in Coastal belt, 426 in Haor and remaining 501 in Char area were screened at the end of the reporting period (July, 2018 – June, 2025). Overall, the number of schools in plain area was 77.51 % of total schools screened.

**Table-6 Number of School (Cumulative) based on location/topography**

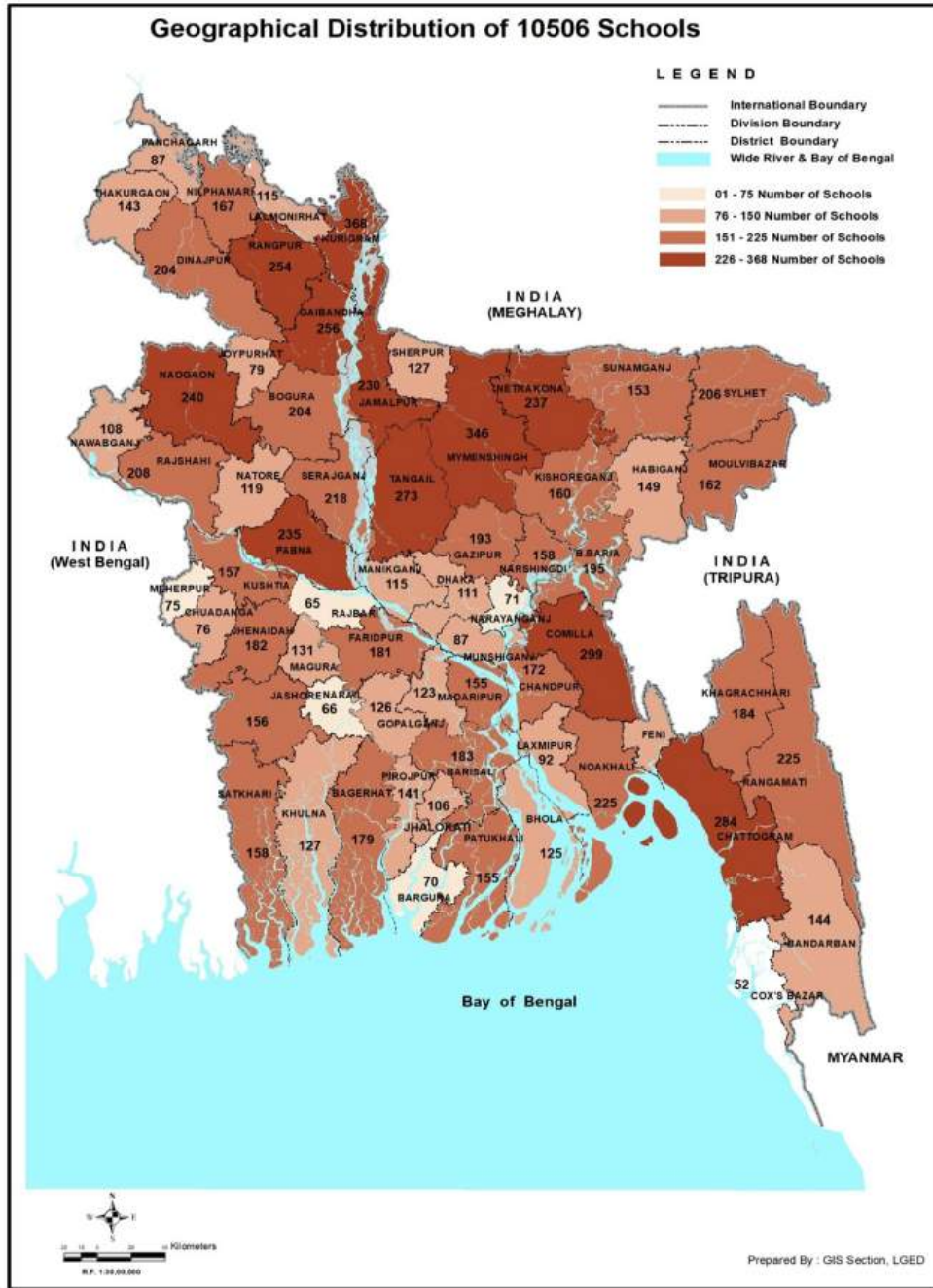
Sl.No.	School Type based on location	No. of School (July, 2018 – June, 2025) No. of (School)
1	Normal (Plain)	8144
2	Hilly	570
3	Coastal	865
4	Char (River bed)	501
5	Haor	426
<b>Total</b>		<b>10506</b>

**Fig 3: No of Schools based on location/ topography**



C) Geographical distribution of School:

18. The district wise geographical distribution of 10506 schools undertaken for construction is presented in a map given below:



## **6.0 Environmental Management Plan (EMP):**

19. Environmental Management Plan (EMP) is a key tool to assess the environmental monitoring and degradation of PEDP4. Environmental impacts are prominently visible in the construction phase of school building and other construction phases. At this stage appropriate mitigation measures are being taken to reduce the adversely environmental impact. In the context of a sub-project, Environmental Management Plan is concerned with the implementation of the measures necessary to minimize or offset adverse impacts and to enhance beneficial impacts. Thus, the objectives of the EMP for the present project is:

- (i) Mitigation measures to reduce or eliminate negative impacts
- (ii) Enhancement measures to maximize positive impacts
- (iii) Monitoring the identified indicators.

### **6.1 Existing Impacts on Environment:**

20. Most of the sub-projects are being extended (vertical+horizontal) over existing structure. Therefore, concern for land use and top soil loss is minimal and it is likely that the environmental concern is also minimal. However, in case of horizontal extension proper care is taken to maximize the benefit of use of this scarce land specially to maintain the good physical environment of campus. Moreover, it is appeared from the environmental screening report that none of the sub-projects are located in any ecologically protected area and no possibility of negative impact on wetland was also observed. Similarly, no loss of agricultural and forest land was also reported during the current reporting period of PEDP4.

#### **The others existing impacts are elaborated below:**

**Air Pollution:** Normally, air quality is generally affected by dust generation from construction sites. Dust generates from material stockpiles and access roads. Such pollution is also a function of weather conditions, in dry season nuisance is more; during rainy season, dust nuisance reduces. Mitigation measures were taken to cover the construction materials (sand and aggregates etc.) properly and sprinkling of water over material stockpiles as and when required.

**Loss of Top Soils:** Lower school premises always need earth filling up. More often than not contractor collect soil from nearby agricultural fields. Top soil contains mineral and organic matter. Contractors are advised to collect earth filling soil from non-agricultural field for the schools of PEDP.

**Noise Pollution:** Noise pollution is normally due to some construction-related activities, operation of equipment and generators. Noise will impact project workers, nearby residents and wildlife (specially birds, snakes etc.). Mitigation measures were taken to cast the major items such as foundation and slabs during week end and earplug are being provided to workers where required.

**WASH block and Water Pollution:** Water pollution is an important factor both construction and operational phase. During construction water is polluted highly and gathers at the construction site. In the operational phase toilet and wash room are often used by the students and teachers those pollute water highly. Moreover, water logging in the school premises may be breeding ground of mosquitoes and other insects. In mitigating the water pollution, construction equipment should not be washed in the water bodies.

**Occupational Health and Safety:** Construction activities may pose health and safety risks to the construction workers and nearby residents leading to severe injuries and deaths in extreme cases or a major accident. A lack of first aid facilities and health care facilities in the immediate vicinity would aggravate the health conditions of the victims.

Lack of water and sanitation facilities at construction sites inconveniences construction workers and affect their personal hygiene. Therefore, adequate safe drinking water and hygienic sanitation facilities were provided by the concerned contractors. In addition to, First Aid Box equipped with antiseptic liquid, savlon, oral saline, cotton and sanitizer items etc. were kept at the work site. Similarly, Personal Protective Equipment (PPE) such as apron, gumboot, face mask, helmet, ear plug and hand gloves etc. were provided and used during construction.

**Arsenic and Other Parameters:** The major environmental concern for the installation of new tube-well is to ensure safe drinking water provision to the users. All these water parameters should be tested at least once a year and based on the result, proper action should be taken.

**Location of the sub-projects:** All the sub-projects i.e. schools are located within the existing school campus and no negative impact due to sub-projects location on the existing environment was observed.

**Disruption of Biodiversity and Ecosystem:** Biodiversity and Ecosystem might be hampered for the construction work of newly established schools. For earth cutting worm and insect's loss their habitats and their ecology may be damaged. Birds and insects loss their habitats for cutting trees in the place where school will be established. So, PEDP considered the issues of biodiversity and ecosystem when new school established in the project area. Contractors of PEDP were advised to establish new schools where trees were thin or in the place where no trees existed in the proposed site.

**Employment Generation/Income:** During construction, a considerable number of workers (both male & female) are being engaged required for the construction works. Conflict between male & female may be arisen if women workers are deprived. Proper wages to be ensure for construction workers, particularly for women labors.

## **6.2. Mitigation/Benefit Enhancement Measures:**

21. The mitigation and benefit enhancement measures have been taken at the sub-projects level which is presented underline considering environmental issues of the sub-projects:

**Table-7: Mitigation/ benefit enhancement measures have been done properly those are given below:**

Environmental Issues/Impacts	Mitigation/Enhancement Measures
Location and disruption of earth surface	Disruptions of earth surface have been kept minimal for smooth implementation of work at construction site.
Wash Block	Wash blocks were provided for the workers, teachers and students. Toilets for male and female students were separated.
Drainage congestion	Adequate drainage facilities have been provided in campus and construction camp for minimizing water logging.
Occupational Health Safety (OHS)	Project workers were provided PPE, First Aid Box, face mask, quality drinking water, hygienic toilets and WASH facility.
Tree Plantation	Trees were planted in proper place around the boundary of school campus. Indigenous plants were got priority for plantation.
Worker accident	Warning signs have been set up and helmet, apron and gumboots provided for the workers. Necessary medicines are kept in the aid box.
Dust pollution	Dust controlled by covering construction materials and spraying water manually have been done where dust blows as and when required.
Noise pollution	Construction activities have been carried out in day time after schooling time. Casting of major parts such as slab and foundation were done during weekend.
Waste management	Wastes collection bins have been provided for organic wastes in one bin & inorganic wastes in another bin at the source and dumped properly

**Additional Mitigation Measures Taken during the reporting period:**

22. Mitigation measures were taken against the environmental concerns during the construction phases are shown below. These are:

- a. Temporary accommodation for the work forces near the site area with adequate provision of water supply for drinking, bathing and washing purposes were ensured
- b. In case of demolition of any existing building, great care was taken to avoid any accident. All precautions in this regard are taken by the sub-project proponent
- c. Sufficient latrines were constructed so as not to pose a health hazard
- d. Dust and particulate materials causing nuisances to surrounding areas were kept minimal by careful handling of cement and breaking *khoa* by labor instead of the *khoa* breaking machine
- e. Safety goggles of accepted standard were used who are engaged in drilling, cutting, welding and all such other works which cause hazard to the eyes
- f. Helmets were worn by the workmen and other personnel during work
- g. Undesirable noise was avoided by confining the source of noises. The *khoa* breaking machine should be avoided and manual breaking was adopted. Nevertheless, such machine was not allowed to operate at night
- h. Building materials those potentially threaten the environment were discouraged
- i. Traffic congestion was minimized by adopting proper planning. Timing schedule for arrival of construction materials adjusted so that interruption with the public utility services is minimal
- j. Toxic materials were barred in the construction such as lead based paints, asbestos etc.

First Aid Boxes were kept at the site for any injury and transports were made instantly available to take the patient to the nearby hospital in case of major mishaps. In addition to avoid any accidental risk precaution measures were taken up properly.

23. Tree plantation is another mitigation measure to make environment sound and pollution free. Each year huge plants and trees are planted in and around the construction site properly. A table of tree plantation is given below:

**Table 8: Details of tree planation as of June, 2025**

Tree plantation plan (TPP) prepared (Yes/No)	No. of trees planned to cut	Trees planned to replant as per TPP	Trees removed (as of June, 2025)	Trees planted (as of June, 2025)	Types of species planted	Plantation completion status	Survival status	Remarks
Yes	84	2940	1929	20889	Jackfruit, Guava, Wood apple, Black berry, Citrus, Litchi, Guava tree, Banyan tree, Bohera, Neem, Amloki Arjun, Amla, Chandan, Gamari, Chaatim, Shal, Shegun, Mango, Royal Poinciana, Olive. Cherry, Haritoki, Alamond, Elephant apple.	Completed	Good	

## 7.0 Positive Impacts/Benefits Enhancement Measures:

### 7.1. Positive impact:

24. During construction phase a substantial number of employments have been generated and similarly a good number of employments will be generated during the operation phase of sub-projects under implementation. The sub-projects are also meeting the demand of additional rooms of the respective institutions. Local students feel enjoyment to get new school.

### 7.2. Benefit Enhancement Measures to be taken:

25. Although the sub-project proponent deserves the right to employ the best workers, the local people are getting preference in such cases which would generate opportunities for employment of the local people. Women have been employed in construction works of the sub- projects of school and other infrastructural development under PEDP4.

### **7.3. Site/Project Alternatives:**

26. Site alternatives are required when the proposed site vulnerable to river erosion, coastal erosion and erosion in the Haor region due natural calamities. In those cases, consultation among SMC, community leader, Key Informant, DPHE, DPE officials and LGED engineers regarding the sub-project site shifting have been carried-out.

### **8.0 Response on COVID- 19:**

27. Although the COVID- 19 is not severe during the reporting period, the LGED instruct the Engineers and staff to follow the rules of COVID 19 and the protection measures as well. The following preventive measures were taken to protect the pandemic situation of covid-19 during the reporting period (January-June, 2025).

#### **Respiratory hygiene:**

Corona virus may transmit through respiration and it is one of the main causes to spread covid-19. As a protection measure construction workers used face mask supplied from contractors when they were in construction works of school building and other institutions.

#### **Hand Hygiene:**

Men use hand when they work something or anything, and hands are often used to grab or touch other organ of human body. Even to eat something men use their hands. So, to disinfect the hands contractors supplied hand sanitizer for construction workers and supervisors. Construction workers and supervisors are washing their hand with soap before starting any works or eating something.

#### **Physical Distancing:**

Physical distancing is also one of the main causes to transmit covid-19. If men contact with others corona virus may transmit. From the point of view construction workers and supervisors have been maintaining physical distances.

#### **Covid-19 Awareness & Risk Management:**

Contractors were instructed to aware the construction workers on Covid-19 risks and aware the workers to get rid of it. LGED supervising staffs are providing awareness briefing on Covid-19 crisis and safety measures to contractors supervising staff and workers during the inspection the sub-projects works.

#### **Regular Environmental Cleaning:**

To remove dirt, debris from used materials regular environmental cleaning was done at the regular basis in the construction sites. Disinfectants were used in indoor workplaces in the daily basis. In outdoor workplaces disinfectants were sprayed at the regular basis.

## **9.0 Grievance Redress Mechanism (GRM) during the reporting period:**

28. During the reporting period, LGED received only 144 general and 06 major complains. Among them 106 complains are solved with the intervention of central and field level officials and SMC. And 80 complains are under investigation. Grave complains are lodged for 02 schools. These are under investigation level. LGED already instructed the concerned Upazila Engineers to take proper measures and report accordingly. Other than, LGED scans the daily newspapers regularly through a team, if any adverse news publishes related to the PEDP4; LGED starts inquiry and takes onward action based on the inquiry report. In addition to these, 39 complains are found from the daily newspapers, these are also under investigation, and 05 of them are resolved already. LGED does not use any specified form for these purposes. The Grievance Redress Mechanism (GRM) enhances social accountability and facilitating the program/project to be responsive to its beneficiary communities and/or stakeholders. It is noted that PEDP4 has no provision for land acquisition; subject to availability of existing land, additional classrooms and other infrastructures are being built. Hence, the issue of resettlement does not arise under PEDP4. It can be mentioned also that LGED starts its activities after receiving approved list of schools for construction of additional rooms from MoPME through DPE. Having lists in hand, LGED checks land documents to verify on spot and avoid land related problems at the master plan preparation stage for its accuracy.

29. Moreover, PEDP4 requires preparing a master plan for each such-project school and institution through a Master Plan Preparation Committee (MPPC) which is formed of headmaster of the school, SMC representative, representatives from the stakeholders such as Public Health Engineering and DPE, local representatives (UP members male or female) and members of existing and neighbouring community. These members of the committee participate in survey and site selection for each new building construction. Also, stakeholders are sought for their presence during layout of the new building. In hilly areas where ethnic minority reside, they become part of the MPPC committee and deal with traditional conflict and resolution if the need arises. Local community consultation ensures that their interests are secured for the construction of the new building in their community.

30. Moreover, 34 school building problems have been highlighted so far regarding the infrastructure problems of primary schools and published in various newspapers from January- June, 2025. Among them 05 compliance have been solved.

In light of the said report, letters and newspaper reports have been sent from LGED (PEDP4) to the concerned Upazila Engineers in respect of taking appropriate actions. In this regard, the Upazila Engineers have been instructed to verify the current condition of the schools and send a full report of what needs to be done to the LGED (PEDP4) headquarters. Further action will be taken in the light of the Upazila Engineer's reports and complains.

Table-9: In the following table status of complaints are given:

Category	Total Received	Resolved	Under Investigation	Pending from previous EMR	Remarks
General Complaints	144	95	49	Previous issues have been solved	
Major Complaints	06	05	01	Solved	
Grave complaints	02	01	01	Solved	
Newspaper Reports	39	10	29	Solved	

## **10.0 Environmental Monitoring**

### **10.1 Construction phase Monitoring**

31. Environmental monitoring of small-scale constructions of the additional class rooms and other infrastructure is very important to identify the site specific potential environmental impacts and its mitigation and enhancement measures in the proposed existing school during the construction phase. In general, the following indicators and the related mitigation measures were monitored during construction stage: (i) Sanitary toilets and pure drinking water both for male and female workers; (ii) First aid box and safety of workers; (iii) stacking of materials at safe place, (iv) surface water pollution; (v) dust and noise pollution; (vi) child labor, vii) engagement of local people; viii) drainage network, (ix) cutting of trees etc. A web-based Primary Education Infrastructure Management System (PEIMS) of PEDP4 has been developed to record the environmental mitigation measures and monitoring data along with the infrastructure development management information. The construction phase monitoring was conducted using a check list and a result of monitoring of schools is presented below. It is observed that most of the parameters were followed and complied substantially but till the reporting period some of the Upazila Engineers did not fill the check list and uploaded in the PEIMS software. Therefore, LGED has already instructed the concerned Upazila Engineers to fill up the check list properly and uploaded in the PEIMS software without flop and also UEs are asked to take appropriate measures so that contractors should comply the environmental safeguard issues properly.

32. Environmental Specialist of PEDP4, LGED monitors the environmental impact and EMP frequently in the field level school with checklists whether the activities are going on environment friendly or not, during the construction period. Through the visit he had a meeting with the Upazila Engineer, contractor, NAPE staff and workers, headmaster of the relevant school and members of the SMC committee. Different types of environmental and

social impacts, EMP, labor issues, PPE, hygiene, and sanitation of the students and teachers are discussed elaborately.



Picture: Environmental Specialist with contractor checking the painting process in Sylhet district



**Picture: Environmental Specialist monitoring the NAPE building**

**Table 10: Visiting subprojects of PEDP 4 during the reporting period**

Sl.No.	Name of the subprojects	District	Upazila	Date of Monitoring
1.	Kinter Garten Government Primary School	Sylhet	Sadar Upazila	19.05.25
2.	Chakerbazar Government Primary School	Sylhet	South Surma	20.05.25
3.	Sikanderpur Government Primary School	Sylhet	South Surma	21.05.25
4.	Khararia Government Primary School	Sylhet	South Surma	22.05.25
7.	Pagarpara Government Primary School	Gazipur	Sadar Upazila	26.05.25
8.	Firoj Ali Uttar Para Government Primary School	Gazipur	Sadar Upazila	27.05.25
9.	Joy Narayanpara Government Primary School	Gazipur	Sreepur Upazila	28.05.25
10.	China Sukania Model Government Primary School	Gazipur	Sreepur Upazila	29.05.25
11.	Shalighar Government Primary School	Mymensingh	Gouripur	21.04.25
12.	NAPE Building	Mymensingh	Sadar Upazila	22.04.25
13.	Kashorer Char Government Primary School	Kishorganj	Sadar	23.04.25
14.	Bangabandhu Government Primary School	Kishorganj	Sadar	24.04.25

## 10.2 Health and Safety Status

33. During the construction period labors were found attired with helmets, gumboots, aprons, goggles, masks, hand gloves, ear plugs. If found guilty concerned authorities were warned with strict instructions to do the follow all the safety health measures and rules during and after the construction works. Construction workers are also instructed to wear personal protection equipment. Sanitations equipment like first aid box, wash room, latrines, labor sheds were also inspected during the monitoring period. Covering of construction materials like sand dunes, brick chips, iron materials, stock and piling of cement bags were also monitored during this period. Emergency tools during accidents and emergencies are also checked in this time. Most of the construction sites were followed all the health and safety rules given by the PEDP4/LGED. No fatal injuries were found during the reporting period, only minor injuries were found in 05 construction sites including NAPE building. In the reporting period 05 people were attacked with water borne diseases like diarrhea and dysentery, and 02 labors were suffered with fever. All were cured after taking medicine.

**Table 11: Accidents/Incidents over the Project Period**

Sl. No.	Accident type	During January-June, 2025	Status	Cumulative Number till June, 2025	Remarks
1	Number of Fatal Accidents	00			
2	Non-fatal injury (hospitalized)	00			
3	Minor injury (first aid case)	05	Cured	19	Previously, it was not documented, it was started from the last year with the suggestions of ADB
4	Illness (diseases)	07	Cured	07	
5	Fire/Explosion	00			
6	Security Incident	00			
7	Near miss	00			

**Table 12: Result of construction phase monitoring during the reporting period**

Sl. No.	Categories of potential environmental issues	Followed (PEIMS monitoring software and physical verification)	Not followed	Remarks/ Possible mitigation measures with specific time
1.	The contractor will stack materials systematically in a safe place so that pedestrians do not fall in troubles/ accident and do not occupy any classroom.	1019	02	UEs have been asked to take measures for stacking materials properly. Duration/Month: September, 2025
2.	The contractor will ensure supply of pure drinking water to the workers during the time of construction.	1021	00	
3.	The contractor will keep a first aid box at the site for any accident.	1021	00	
4.	The contractor will take necessary precaution for the safety of his workers and also for the safety of the pedestrians.	1020	01	UEs had been instructed to take proper action immediately Duration/Month: July, 2025
5.	The contractor will not cut or damage any tree in and around the project area without the permission of the supervising authority.	1015	06	UEs have been instructed not to cut tree without observing existing rules and procedures. Duration/Month: November, 2025
6.	The contractor will erect sufficient number of temporary sanitary toilets and shelter both for male and female workers at the site with proper	1011	10	Upazila Engineers (UEs) have been instructed to erect required sanitary toilets at work site through concerned

Sl. No.	Categories of potential environmental issues	Followed (PEIMS monitoring software and physical verification)	Not followed	Remarks/ Possible mitigation measures with specific time
	sanitation system.			contractors and fill up the monitoring check list in due course. Duration/Month: October,2025
7.	The contractor will not engage any child labor in the work.	1021	00	
8.	The contractor will not pollute any nearby source of surface water by any of their activities.	1021	03	UEs have been instructed to take proper action through contractor not to pollute surface water. Duration/Month: August, 2025
9.	The contractor will try to minimize sound pollution. If such sound producing activity becomes unavoidable, it should be matched with the local condition so that the adverse impact can be kept minimal.	1009	12	UEs have been advised to cast the major items in the weekend. Duration/Month: August, 2025
10.	The contractor will not hamper the drainage network of the area by any of their activity.	1019	02	UEs have been asked to take proper measure to solve drainage congestion if any without fail. Duration/Month: November, 2025

## 11. LGED's Program Implementation, Supervision and Monitoring

### 34. 11.1 Implementation, Supervision & Monitoring

11.1.1 Regular supervision, monitoring and quality control of civil works is carried out by the Upazila and district level technical staff mainly Upazila Engineer, Upazila Assistant Engineer, Sub Assistant Engineer from Upazila and Senior Assistant Engineer from the district. Systematic supervision and monitoring are also done by the LGED Executive Engineers of the districts, 20 (twenty) Executive Engineers and Superintending Engineers (Region). Furthermore, 8 (eight) Additional Chief Engineers (Division) along with other official also provide support to field officials for smooth implementation of program activities.

11.1.2 In addition to, 20 (twenty) Inspection Teams are formed at the HQ headed by one Senior Engineer. In addition to their primary duties, these teams inspect PEDP4 activities at the field level and report with observations and recommendations to Chief Engineer.

11.1.3 Moreover, close monitoring is being carried out by the PEIMU and the Monitoring Unit of LGED, and environmental impacts by the Environmental Specialist of PEDP4. These Units have officials specifically designated with the particular task of monitoring news reports published in the National dailies and put forward their reports before the authority for taking necessary actions.

### **11.2 Programme Implementation Monitoring Software**

35. Primary Education Infrastructure Management Unit (PEIMU) is currently using a web-based (database) system called PEIMS for monitoring and reporting on Programme activities. This is handy and accessible by the field staff for data entry and update on progress and status of Programme activities.

### **11.3 Measures undertaken to implement the EMF:**

36. LGED has taken various measures to implement the EMF so that the environmental issues as are properly addressed in implementation of PEDP4 development activities. Following are the measures:

LGED issued several instructions to district Executive Engineers and Upazila Engineers for ensuring the proper implementation of EMF & SSMF so that environmental safeguard issues and social safeguard issues are being addressed in implementing the sub-projects. In consideration of increasing workload of implementation of the EMF, LGED engaged a full-time Environmental Specialist from September'2018. The Environmental Specialist is responsible for implementation of the EMF and its provisions, including environmental monitoring, compliance checking, facilitation, coordination and ensuring dissemination, orientations and capacity building activities.

In the reporting period the Environmental Specialist visited several GPS in different districts and discussed several safeguards issues of social and environmental development with the field level official including XENs and Upazila Engineers.

**The following staffs of LGED and DPE are engaged to implement the project activities of PEDP4:**

**Table 13: Environment and Social Safeguard personnel in PEDP-4**

<b>Name</b>	<b>Organization and Designation</b>	<b>Email Address</b>	<b>Contact no.</b>	<b>Remarks</b>
Kamrul Islam	Assistant Director, DPE	kamruljam21@yahoo.com	01332510178	Focal/point person
Md. Maksalin	LGED, Executive Engineer	maksalin2267@yahoo.com	01715086363	
Md. Siddiqur Rahman	LGED, Executive Engineer	Siddiq3067@gmail.com	01733740939	
Dr M Jahangir Alam (Rustom)	LGED, Individual Consultant (Environmental Specialist)	jarustom.phd@gmail.com	01715917537	
Md. Helal Uddin	LGED, System Analyst	helal1565gmail.com	01711901098	

Other than 1011 contractors and 498 Upazila Engineers are also engaged to ensure construction of sustainable school building and to safeguard environmental and social issues.

## **12. Consultation/ Coordination Meeting:**

37. The first coordination meeting of each sub-project is being held during the preparation of master plan (a kind of site plan) which is mandatory for each sub-project. Master Plan Preparation Committee (MPPC) is responsible to prepare the plan at the field in line with the Plan and Planning Guidelines of PEDP4. For ensuring conformity and quality, PEIMU of LGED prepared a brief guidance note in Bengali in line with the Plan and Planning Guidelines, and circulated it with a sample master plan for using by the field staff. The master plans are being prepared through active participation and consultation of headmaster of concerned school, SMC representative, Upazila/Thana Education Officer, DPHE engineers and LGED Upazila Engineer, NAPE authorities and local communities.

38. The second coordination meeting is being held before layout of the sub-project in presence of LGED representative (Region), Upazila Engineer & his technically staff, SMC, teachers and local elite. As the volume of sub project under reporting is more than 2500 which is huge. Currently, LGED does not maintain the required information at the PEIMU level; therefore, consultation meetings mechanisms have been elaborated above. Moreover, Environment Specialist of PEDP4 joined in some consultation meetings in this period those are mentioned below:

**Table-14: Coordination Meetings conducted during January-June, 2025**

Package	Date of Consultation Meeting	Type of Consultation Meeting	Venue	No. of Participants		
				Male	Female	Total
1.	20.04.25	Physical	Bangabandhu Government Primary School	03	08	11
2.	21.04.25	Physical	Shalighar Government Primary School	07	09	16
3.	22.04.25		NAPE Building	01	13	14
4.	23.04.25	Physical	Batrish Government Primary School	03	07	10
5.	19.05.25	Physical	Chena Sukania Government Primary School	04	05	09
6.	20.05.25	Physical	Chakerbazar Government Primary School	9	1	10
7.	21.05.25	Physical	Sikanderpur Government Primary School	06	03	09
8.	22.05.25	Physical	Khararia Government Primary School	14	4	18
9.	26.05.25	Physical	Pagarpara Government Primary School	12	3	15
10.	19.05.25	Physical	Kindergarten Government Primary School	06	09	15
11.	20.05.25	Physical	Paburbazar Government Primary School	7	4	11
12.	21.05.25	Physical	Firoj Ali Uttar Para Government Primary School	9	2	12

**Table-15: Consultation Meetings conducted from commence date-June, 2025**

Package	Date of Consultation Meeting	Type of Consultation Meeting	Venue	No. of Participants		
				Male	Female	Total
1.	20.04.25	Physical	Bangabandhu Government Primary School	03	08	11
2.	21.04.25	Physical	Shalighar Government Primary School	07	09	16
3.	22.04.25		NAPE Building	01	13	14
4.	23.04.25	Physical	Batrish Government Primary School	03	07	10
5.	19.05.25	Physical	Chena Sukania	04	05	09

*Semi-Annual Environmental Monitoring Report*

			Government Primary School			
6.	20.05.25	Physical	Chakerbazar Government Primary School	9	1	10
7.	21.05.25	Physical	Sikanderpur Government Primary School	06	03	09
8.	22.05.25	Physical	Khararia Government Primary School	14	4	18
9.	26.05.25	Physical	Pagarpara Government Primary School	12	3	15
10.	19.05.25	Physical	Kindergarten Government Primary School	06	09	15
11.	20.05.25	Physical	Paburbazar Government Primary School	7	4	11
12.	21.05.25	Physical	Firoj Ali Uttar Para Government Primary School	9	2	12
13.	21.08.23	Physical	Sadar Upazila, Lalmonirhat	10	0	10
14.	21.08.23	Physical	Bumka, Sadar Upazila, Lalmonirhat	6	1	07
15.	22.08.23	Physical	Rangpur Sadar Upazila	4	6	10
16.	22.08.23	Physical	Kellabond, Rangpur Sadar Upazila	4	5	09
17.	23.08.23	Physical	Pathanpara, Jaldhaka, Nilphamari	19	5	24
18.	23.08.23	Physical	Jaldhaka, Nilphamari	6	8	14
19.	19.09.23	Physical	Pathuakhali Sadar Upazila	10	4	14
20.	19.09.23	Physical	Pathuakhali Sadar Upazila	9	1	10
21.	21.09.23	Physical	Raghunathpur, Bakergonj Upazila	5	4	09
22.	21.09.23	Physical	Bakergonj Upazila	8	5	13
23.	12.12.24	Physical	, Badargonj Upazila, Rangpur	04	05	09
24.	11.12.24	Physical	Kalupara, Badargonj, Rangpur	9	1	10
25.	10.12.24	Physical	Taragonj, Upazila, Rangpur	9	2	11
26.	09.12.24	Physical	Shermosto, Taragonj Upazila, Rangpur	14	4	18
27.	14.11.24	Physical	Dehergatik, Babugonj Upazila, Barishal	12	3	15
28.	13.11.24	Physical	Babugonj Upazila, Barishal	6	9	15
29.	12.11.24	Physical	Dumki Upazila, Patuakhali	7	4	11
30.	11.11.24	Physical	Muradi, Dumki	9	2	12

			Upazila, Pathuakhali			
31.	27.05.24	Physical	Pran Nathbari, Trishal Upazila, Mymensingh	08	03	11
32.	27.05.24	Physical	Alohari, Trishal, Mymensingh	6	1	07
33.	29.05.24	Physical	Muktagachha Upazila, Mymensingh	4	6	10
34.	29.05.24	Physical	Muktagachha Upazila, Mymensingh	4	5	09
35.	28.05.24	Physical	NAPE construction site, Mymensingh Sadar, Mymensingh	18	0	18
36.	21.05.23	Physical	Naogaon Sadar Upazila	8	1	9
37.	21.05.23	Physical	Naogaon Sadar Upazila	11	8	19
38.	23.05.23	Physical	Bogura Sadar Upazila	6	3	9
39.	23.05.23	Physical	Bogura Sadar Upazila	5	5	10
40.	19.06.23	Physical	Barishal Sadar Upazila	7	10	17
41.	19.06.23	Physical	Barishal Sadar Upazila	8	7	15
42.	20.06.23	Physical	Gouronadi Sadar Upazila	10	1	11
43.	20.06.23	Physical	Gouronadi Sadar Upazila	7	8	15

**Some pictures of coordination meetings in the field level are given below:**



**Picture: A coordination meeting was held at Sadar Upazila in Sylhet district**



**Picture: A coordination meeting was held at Sreepur Upazila in Gazipur district**



**Picture: A coordination meeting was held at Dakhin Surma Upazila under Sylhet district**

**39. NAPE building:** Environmental Specialist, Concerned Engineers, PEDP4 staff visit the construction works of NAPE building as and when necessary. During the reporting period a several times NAPE building is visited and constructive suggestions are provided by the PEDP-4 and LGED staff to minimize the environmental negative impacts which are producing for the construction works of NAPE building. Environment and social safeguard issues are discussed through seminars, symposia, workshops and meetings. Sometimes, contractors, committee members, Upazila Engineer, Sub-Assistant Engineers, and PEDP staffs jointly visited the NAPE building. Different topics of environment and social safeguard issues were discussed in the visiting time.

**40.Cox’s Bazar Leadership Building:** Cox’s Bazar Leadership Building is constructed for conducting meetings, seminars and training for the DPE’s officials and teachers of primary schools. During the construction period DPE’s officials monitor the building in several stages. It is now complete and its physical progress is 100%.

**41.DPE HQ:** DPE head quarter is established at Mirpur, Dhaka. Officials of DPE will hold their office here. During the construction period DPE’s officials monitor the construction site at different stages. It’s physical progress 100%, and completed now, DPE officials are doing their office in the newly constructed building.

**Table 16: Skill development plan during construction phase monitoring on the environmental safeguard issues in the next reporting period**

Sl. no.	Issue	Recommended action/ subject	No/Batch	Venue	Time to achieve
1	Environment and social safeguard training for PEDP4 staff	Environmental screening, plantation, soil-air-water pollution, EMF, SSMF, PPE	25	Sylhet district	November, 2025
2	Environment and social safeguard training for PEDP4 staff	Environmental screening, plantation, soil-air-water pollution, EMF, SSMF, PPE	25	Mymensingh district	October, 2025
3	Meeting with environmental management team	Progress of ongoing activities for environment and social safeguard issues	01 meeting for each month	HQ	July-December, 2025

### **13. Key learnings, Major challenges and Overcome strategy**

42.Constructing WASH blocks at primary schools is essential for ensuring a healthy learning environment. However, the process involves several key learnings, challenges, and strategies to overcome obstacles effectively. The following table shows the Key Learnings, Major Challenges, and Overcome Strategy.

**Table 17: Key Learnings, Major Challenges, Overcome Strategy**

Sl.	Key learnings	Major challenges	Overcome strategy
1.	Community people and students are getting benefit from different schools infrastructures such as class rooms, wash blocks, water sources etc.	Wearing PPEs during construction works.	Motivation of all concerned (labors, school authorities, officials etc.) through the training, workshop, and coordination Meeting.
2.	Provision for school level waste management (both solid and fecal) should be introduced.	Wash blocks and water sources are not usable due to not being cleaned regularly.	Regular cleaning is required to keep them usable along with budget provision for smooth functionality.
3.	No injuries occurred those labors worn PPEs	Labors are not interested to wear PPEs.	We motivated the workers to wear PPEs
4.	Students who got new school buildings and furniture, they found cheering and got attraction in their learnings	Due to political turmoil and absence of contractors in the working place is another challenge to construct in due time	We met with the contractors and motivated them to finish the construction work in the stipulated time
5.	New employments are generated during the construction period	Sometimes they passing time at their home as they are from local community	Contractors and their managers call and come to the workers and join to the working places hurriedly
6.	COVID-19 is a threat for laborers and contractor during construction works	Laborers are not interested to wear masks, and isolation from each other during the construction works	After providing necessary suggestions and motivations they are now wearing masks and keeping distance during the construction period

## 14. Compliance Status to ADB Loan Covenants

43. The compliance status of ADB loan covenants relevant to environmental safeguards is listed in the following table:

**Table 18: Compliance with ADB Loan Covenants**

Serial no. as per Loan Agreement		Program Specific Covenants	Compliance Status	Remarks
Schedule 4	10	To ensure that all program actions in the area of environmental and social safeguards are implemented in a timely and efficient manner	Complied	Semi-Annual environmental and social safeguards are implemented based on revised EMF/SMF.
	11 (a)	To ensure that no construction or rehabilitation works involve significant adverse environmental impacts that may be classified as category A under the SPS through screening.	Complied	Through the comprehensive screening, it was confirmed that no adverse environmental impact as related to category A under the SPS was found.
Schedule 4	11 (b)	To ensure that the preparation, design, construction, implementation, operation, and decommissioning of all activities under the program comply with all applicable laws, regulations, and guidelines related to construction, health and safety, and environmental safeguard.	Complied	The applicable laws, regulations, and guidelines related to the construction, H&S and Environmental safeguard were strictly adhered.
	12	To ensure that the program does not involve any resettlement risks.	Complied	No resettlement risks were involved since the construction of school buildings was conducted in the location owned by the primary schools.
	13	To ensure that the program does not involve any negative risks or impacts on tribes or minor races, ethnic sects, and communities.	Complied	No negative risks or impacts on tribes or minor races, ethnic sects, and communities were reported through the comprehensive environmental and social safeguard screening.

## 15. Implementation Status of CAP recommended in aide memoire

44. The implementation status of CAP recommended in the comprehensive aid memoire is listed in the following table:

**Table 19: Implementation Status of CAP recommended in aide memoire**

Sl. No.	Recommended Corrective Action Measures [Recommendations were made in Aide memoire]	Implementation Status
1	All school buildings that have been constructed in the stipulated time maintained with environmental safeguard. LGED engineers and environmental consultant always monitored the	It can be seen, a total 10506 schools (Cumulative) were screened for construction of 44128 additional rooms

Sl. No.	Recommended Corrective Action Measures [Recommendations were made in Aide memoire]	Implementation Status
	newly constructed buildings as and when necessary	over the project period (July, 2018-June, 2025).

## 16. Conclusions:

45. It is our prime duty that all of the sub-projects of the program are accomplished in an environment friendly and hygienic way. All the sub-projects fell in category “Not applicable” and cost of EMP are already included in BoQ, and the contractors are implementing accordingly. Moreover, a substantial number of sub-projects are being extended horizontally and vertically and most of them are located in existing premises. Therefore, concern for land use, earth works for foundation and top soil loss are minimal. In addition of that, none of the sub-projects are located in any ecologically protected area and no possibility of negative impact on forest and wetland in the project area was also ensured. The compliance monitoring of the environmental safeguard issues during construction were conducted using a monitoring check list and observed substantially complied. Furthermore, contractors and workers-maintained hand hygiene, respiratory hygiene and physical distancing properly during construction of sub-projects to address the Covid-19 situation. Additionally, many positive impacts and environment enhancement are being generated due to sub-projects implementation. A substantial number of employments have been generated during the construction phases and there will be a sufficient number of employments during the operation phase of sub-projects. The sub-projects are also fulfilled the demands of construction additional rooms of the institutions for students, teachers and officials in the fourth stage of PEDP4 under the department of DPE. The local and ethnic people are also getting opportunities in construction activities resulting employment generation in the working areas.

## 17. Recommendations:

46. The following time bound corrective measures were carried out in the reporting period. In the present report (January-June, 2025), these are action plans for the reporting period (July.-December, 2025).

**Table-20 Time bound Corrective Action Plan (CAP)**

Sl. no.	Environmental Issues	Possible Mitigation Measures	Time to achieve	Responsibility
1.	Waste Management	Garbage will be collected and put in garbage bin	August 24, 2025	Contractor
2.	Reduce work-related travels.	Work related travel will be reduced based on work load.	July 12, 2025	Contractor
3.	Dust Control	Water will be sprinkled as and when necessary	July 14, 2025	Contractor

*Semi-Annual Environmental Monitoring Report*

Sl. no.	Environmental Issues	Possible Mitigation Measures	Time to achieve	Responsibility
4.	Air Pollution	Machineries will be set up in bland spaces and water to be sprinkled as and when necessary	August 13, 2025	Contractor
5.	Water Pollution	Contractor will supply pure water and flood water drained out	September 10, 2025	Contractor
6.	Hygiene and proper sanitation	Contractor will employ labor for maintaining hygiene and proper sanitation	October 12, 2025	Contractor
7.	Toilet	Male and female toilet to be separated	August 27, 2025	Contractor
8.	Noise Pollution	Change of working procedure and timing	October 25, 2025	Contractor
9.	Drinking water	Contractor will ensure supply of pure drinking water	October 23, 2025	Contractor
10.	Health safety	First Aid Box will be placed in the working places	November 5, 2025	Contractor
11.	Personal protection equipment	Contractor will supply personal protection equipment	July 25, 2025	Contractor
12.	Plantation	Plantation will be done where necessary.	August 10, 2025	Contractor, SMC and Headmaster
13.	Low land area	Low land area will be covered by collecting soil from uncultivated area	November 14, 2025	Contractor, UE and Contractor
14.	Char area	Char designed school building will be set up in Char area	November 12, 2025	Contractor, UE and Contractor
15.	Hilly area	School building will be set up considering local materials	October 10, 2025	Contractor, UE and Contractor

**Table-21 Implementation Status with Corrective Action Plans (CAP)**

Sl. No.	Environmental issues	Action Recommended	Actual Action Taken	Targeted Date	Responsibility	Compliance status
1.	Waste Management	Reduction of Waste Management	Action Taken	August 24, 2025	Contractor	Complied
2.	Reduce work-related travels.	Reduce work-related travels.	Action Taken	July 12, 2025	Contractor	Partially complied
3.	Dust Control	Reduce Dust Control	Action Taken	July 14, 2025	Contractor	Complied
4.	Air Pollution	Lessening Air Pollution	Action Taken	August 13, 2025	Contractor	Complied
5.	Water Pollution	Lessening Water Pollution	Action Taken	September 10, 2025	Contractor	Complied
6.	Hygiene and proper sanitation	Reduce Hygiene and proper	Action Taken	October 12, 2025	Contractor	Partially complied

*Semi-Annual Environmental Monitoring Report*

		sanitation				
7.	Toilet	Cleaning Toilet	Action Taken	August 27, 2025	Contractor	Partially complied
8.	Noise Pollution	Lessening Noise Pollution	Action Taken	October 25, 2025	Contractor	Complied
9.	Drinking water	Supply Drinking water	Action Taken	October 23, 2025	Contractor	Complied
10.	Health safety	Maintaining Health safety	Action Taken	November 5, 2025	Contractor	Complied
11.	Personal protection equipment	Wearing Personal protection equipment	Action Taken	July 25, 2025	Contractor	Complied
12.	Plantation	Increase Plantation	Action Taken	August 10, 2025	Contractor, SMC and Headmaster	Partially complied
13.	Low land area	Filled up Low land area	Action Taken	November 14, 2025	Contractor, UE and Contractor	Partially complied
14.	Char area	Establishing Char designing school in the Char area	Action Taken	November 12, 2025	Contractor, UE and Contractor	Partially complied
15.	Hilly area	Establishing hill designing school in the Hilly area	Action Taken	October 10, 2025	Contractor, UE and Contractor	Partially complied

Side by side the regular environmental activities of PEDP4, some additional activities will be done for the next reporting period for the skill development in environmental sectors.

**18. The project website link of the approved safeguards documents.**

<https://www.dpe.gov.bd/site/publications/3e7e8a01-1227-4305-9ab1-b5f7015a37e3/LGED-EMR-July-to-December-2023>

<https://www.dpe.gov.bd/site/publications/10213ae2-cc61-47e5-9051-f0b044c1cedb/Semi-annual-Social-Safeguard-Management-Report-VIII-Jan-June2023-LGED>

<https://www.dpe.gov.bd/site/publications/14d75926-ff85-4839-9697-92bb1a67745c/Semi-annual-Environmental-Monitoring-Report-Revised-VIII-January-June-2023-LGED>

<https://www.dpe.gov.bd/site/publications/c9ee8c48-36dc-45ad-9107-47b46ff7f973/LGED-SSMR-July-to-December-2023>

<https://www.dpe.gov.bd/site/publications/7b862980-9e1e-42e8-816a-6b582af7bd29/LGED-Semi-annual-SSMR-July-Dec22>

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/10c0753d\\_4b8b\\_41e5\\_8d9d\\_f3e819cab4f8/LGED\\_Rev.%20Semi-annual%20Env.%20Monitoring%20Report-VI\\_January-June.,%202022%20\(1\).pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/10c0753d_4b8b_41e5_8d9d_f3e819cab4f8/LGED_Rev.%20Semi-annual%20Env.%20Monitoring%20Report-VI_January-June.,%202022%20(1).pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/10c0753d\\_4b8b\\_41e5\\_8d9d\\_f3e819cab4f8/LGED\\_Rev.%20Semi-annual%20Env.%20Monitoring%20Report-VI\\_January-June.,%202022%20\(1\).pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/10c0753d_4b8b_41e5_8d9d_f3e819cab4f8/LGED_Rev.%20Semi-annual%20Env.%20Monitoring%20Report-VI_January-June.,%202022%20(1).pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/dae70419\\_da3c\\_4df7\\_85c8\\_10be88923cef/LGED\\_Semi-annual%20Env.%20Monitoring%20Report-V\(July-Dec..%202021\)\(1\).pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/dae70419_da3c_4df7_85c8_10be88923cef/LGED_Semi-annual%20Env.%20Monitoring%20Report-V(July-Dec..%202021)(1).pdf)

<https://www.dpe.gov.bd/site/publications/88c64b90-d62f-4acc-9909-bc9237b2a33e/LGED-Semi-annual-Env-Monitoring-Report-VJuly-Dec-2021>

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/9e00510e\\_b6d0\\_4b3e\\_9c37\\_7131362b873b/LGED\\_Semi%20anunual%20SSMR-IV\(Jan.-June%202021\)%20\(1\).pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/9e00510e_b6d0_4b3e_9c37_7131362b873b/LGED_Semi%20anunual%20SSMR-IV(Jan.-June%202021)%20(1).pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/2bde1d4a\\_3cd3\\_4350\\_9044\\_c552eea0ac4b/LGED\\_Semi-annual%20EMR%20-IV\(Jan--Jun.2021%20\(1\).pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/2bde1d4a_3cd3_4350_9044_c552eea0ac4b/LGED_Semi-annual%20EMR%20-IV(Jan--Jun.2021%20(1).pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/f78bba0d\\_192d\\_4bd1\\_8f5c\\_76733a8b7dd3/LGED\\_%20Semi%20anunual%20SSMR-V\(July-Dec.21\)%20\(1\).pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/f78bba0d_192d_4bd1_8f5c_76733a8b7dd3/LGED_%20Semi%20anunual%20SSMR-V(July-Dec.21)%20(1).pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/2bde1d4a\\_3cd3\\_4350\\_9044\\_c552eea0ac4b/LGED\\_Semi-annual%20EMR%20-IV\(Jan--Jun.2021%20\(1\).pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/2bde1d4a_3cd3_4350_9044_c552eea0ac4b/LGED_Semi-annual%20EMR%20-IV(Jan--Jun.2021%20(1).pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/9e00510e\\_b6d0\\_4b3e\\_9c37\\_7131362b873b/LGED\\_Semi%20anunual%20SSMR-IV\(Jan.-June%202021\)%20\(1\).pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/9e00510e_b6d0_4b3e_9c37_7131362b873b/LGED_Semi%20anunual%20SSMR-IV(Jan.-June%202021)%20(1).pdf)

<https://www.dpe.gov.bd/site/publications/bc868371-35dc-44da-9544-a37918867554/LGED-SSMR-III-July---Dec-2020>

<https://www.dpe.gov.bd/site/publications/c9e6392c-c2c8-4460-9276-a34a5e7624ec/LGED-EMR-III-July---Dec-2020>

<https://www.dpe.gov.bd/site/publications/a0b2a2dd-54f3-4de6-872e-24f8a6d1a291/LGED-SSMR-II-Jan---June2020>

<https://www.dpe.gov.bd/site/publications/c6da3c02-2288-45c4-9400-81f022339a64/LGED-EMR-II-Janu---June2020>

<https://www.dpe.gov.bd/site/publications/8c16ef09-2687-48dc-b4fd-15fe7c52497b/Social-Safeguard-Management-Report-LGED--December-2019>

<https://www.dpe.gov.bd/site/publications/01c0fb60-8ce8-4fc0-b692-5ce220a6cb44/Biannual-Social-Safeguard-Management-Report-July-%E2%80%93-December-2017>

## **Appendices**

### **Appendix 1: Sub-project photographs of ongoing construction work**

Photography of some construction works of Mymensingh district are given below:











**Appendix-2:- Environment friendly construction works in Sylhet district:**









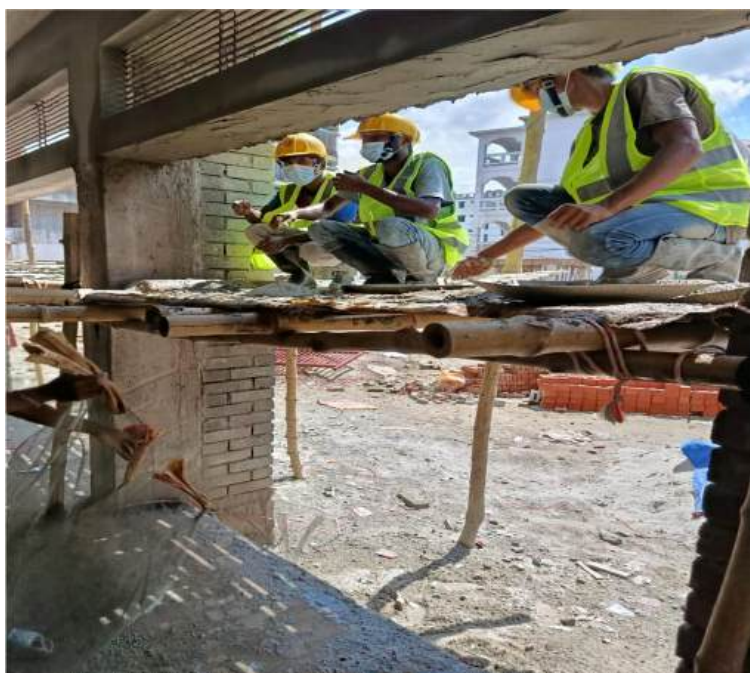
**Appendix-3:- Some photographs of environment friendly construction work in Gazipur district:**













**Appendix 4: Filled up Environmental Screening Format (Cinashukania GPS)**

Appendix- 1.4:  
**ENVIRONMENTAL SCREENING FOR EXTENSION/RECONSTRUCTION OF SCHOOL & OFFICE BUILDINGS**  
 Project Name: Fourth Primary Education Development Program (PEDP4)  
 Date of Screening: 25/05/2025  
 Category of component based on environmental regulations of the Government of Bangladesh:

Name of School : Cinashukania GPS  
 District :Gazipur  
 Upazila :Sreepur  
 Union :Rajabari  
 Village : Cinashukania  
 Type of Sub-project :

Major Activities of the Sub-project:

Screening Questions	Yes	No	Impact Scale (Minor-Major)	If "Yes", Please Provide Remarks
<b>A. Sub-project Siting Is</b> is the sub-project area adjacent to or within any of the following environmentally sensitive areas?				
Protected Area		✓		
Wetland		✓		
Unstable slope, landslide, erosion area		✓		
Disaster prone area (e.g. flood, cyclone, storm surge)		✓		
<b>B. Potential Environmental Impacts Will the sub-project Cause</b> _____?				
Loss of agricultural/forest land?		✓		
Negative effects on rare, (vulnerable), threatened, or endangered species of flora and/or fauna or their habitat?		✓		
Negative effects on designated wetlands?		✓		
Negative effects on locally important or valued ecosystems or vegetation?		✓		
Destruction of trees and vegetation?		✓		
Insufficient drainage leading to water logging?		✓		
Negative effects on surface water quality, quantities or flow?		✓		
Block any road/access/approach?		✓		

05/12

Screening Questions	Yes	No	Impact Scale (Minor-Major)	If "Yes", Please Provide Remarks
Will there be any long-term impacts on local hydrology?		✓		
Is adequate water supply to school available?	✓			Deep Tube Well has established before the construction work
Increased noise due to day-to-day construction activities?		✓		
Is there any dust/ air pollution during construction phase?	✓			Contractors has taken appropriate measures
Will there be waste generation when construction works are going on?	✓			Contractor has taken proper measures
<b>C. Other Potential Impacts</b>				
<b>Will the sub-project cause?</b>				
Degradation or disturbance of historical or culturally important sites (mosque, graveyards, monuments etc.)?		✓		
Health risks to labors involved in activities?				
<b>D. Potential Positive Environmental Impacts</b>				
Improved sanitation and personal hygiene.	✓			
Enhanced quality of school environment	✓			

Screening Questions	Yes	No	Impact Scale (Minor-Major)	If "Yes", Please Provide Remarks
Employment generation for local people during construction period	✓			Manpower/Labors are need for construction works
<b>E. Environmental assessment category as per GOB</b>				
What is the environment assessment category (DDR or IEE) as per Environmental policy 2023 of GOB?		✓		As per DOE(Environmental policy 2023) School building will not fall under mentioned categories.
Will project enhance quality of education?	✓			
Score Total				

Notes Exact screening results will be site specific of sub-project. ADB = Asian Development Bank, DDR = Due Diligence Report, GOB = Government of Bangladesh, IEE = Initial Environmental Examination, SPS = Safeguard Policy Statement.

Type of Environmental Assessment to be undertaken:

Completed by: Touhid Ahmed

Designation: Upazila Engineer

Filled and signed by LGED/DPHE Assistant Engineer: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed and signed by LGED/DPHE Executive Engineer: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

APPENDIX -2: TEMPLATE FOR ENVIRONMENTAL MANAGEMENT PLAN (EMP)

Appendix-2.1: Mitigating/Enhancement Plan for Environmental Impacts (During Construction)

Environmental Issues/Impacts Requiring Mitigation	Mitigation/ Enhancement Measures	Implementation by	Supervision by
Sound pollution	taken	Contractor	Vpazila Engineer
Air pollution	taken	"	"
Water polluti	taken	"	"

Note: The above Table Should be filled with the help of Table 2 of the EMF Report.

Appendix-2.2: Mitigating/Enhancement Plan for Environmental Impacts (During Operation)

Environmental Issues/Impacts Requiring Mitigation	Mitigation/ Enhancement Measures	Implementation by	Supervision by
Air pollution	taken	Headmaster	TEO/A TEO
Water pollution	"	"	"

Note: The above Table Should be filled with the help of Table 3 of the EMF Report.

Appendix-2.3: Environmental Monitoring Plan (During Construction Stage)

Environmental Issues/Impacts to be Monitored	Monitoring Indicators	Location	Frequency	Implementation by	Monitoring by
Sound pollution	physical	School premises	01/month	Contractor	Vpazila Engineer
Air "	"	"	"	"	"

Note: The above Table Should be filled with the help of Table 5 of the EMF Report.

Appendix-2.4: Environmental Monitoring Plan (During Operation Stage)

Environmental Issues/Impacts to be Monitored	Monitoring Indicators	Location	Frequency	Implementation by	Monitoring by
Air pollution	Physical	School premises	01/month	Headmaster	A TEO
Water "	"	"	"	"	"

Note: The above Table Should be filled with the help of Table 6 of the EMF Report.

*[Signature]*  
25/5/25  
[Official Stamp]



Local Government Engineering Department

Primary Education Development Program 4

১৯৯৩ সাল থেকে (১৯৯৩-৯৪) ২১ জনের একটি কমিটি গঠিত, ২০২৫ সালের মধ্যে পরিবেশ  
 প্রশাসনের উন্নয়নের পরিচালনা ও পরিচালনা সুশীলতা নিশ্চিত  
 করার CO-ordination meeting এর আয়োজন করা ২৭/১২  
 তারিখে। উক্ত সভায় প্রোগ্রামার-এ, SMC-এর নেতৃবৃন্দ, স্থানীয়  
 পরিষেবা-দ, বিদ্যালয় ও উচ্চ মাধ্যমিক বিদ্যালয় পরিচালক  
 শ্রী ড. মোহাম্মদ আলী (সহকারী) উপস্থিত ছিলেন। প্রোগ্রামার  
 উদ্দেশ্যে বিশদভাবে আলোচনা করে সভার সিদ্ধান্ত  
 গুলো - কোথা রাখা। এছাড়াও সভায় পরিচালনা করা  
 হলো, অংশীদারিত্ব।

Sl. no.	Name and Designation	Address	Signature	Recommendation
1.	Maya Rani Sarker HT	Shalishore Govt Primary School	[Signature]	
2.	MD. Fazly Alahi	Shalishore Govt. Primary School	[Signature]	
3.	Aparna Rani Sarker	Shalishore Govt. Pr. School	[Signature]	
4.	MD. Mahabubul Haque	Shalishore Govt. High School	[Signature]	
5.	SHARMIN AKTER	Shalishore Govt. Primary School	[Signature]	
6.	NADIRA SULTANA	Shalishore Govt Primary School	[Signature]	
7.	MD. Anwar Hossain	Shalishore Govt. Primary School	[Signature]	
8.	Abdullah Al Moni	SAE, LGED Gournipura	[Signature]	
9.	MD. Shammul Haque	WIA I. LGED Gournipura	[Signature]	
10.	MD. Mojibur Rahman	Cont -	[Signature]	
11.	Dr. Jahangir Alam Khan	IC (Env. Sp. Unit)	[Signature]	1.04.25
12.	MD. Khayrullah Khan	Shalishore	[Signature]	
13.				
14.				

Local Government Engineering Department  
Primary Education Development Program 4

আমরা ২৩শে এপ্রিল, ২০২১ তারিখ - মুন অর্ডারে প্রমাণিত হিসেবে  
প্রদর্শনে পরিবেশ ও সামাজিক সুস্থতা বিষয়ক একটি আলোচনা  
সভার আয়োজন করে যা। উক্ত সভায় স্থানীয় শিক্ষকগণ,  
শিক্ষক, SMC-এর নেতৃত্বের সহায়তায় সভা থেকে একটি পরি-  
বেশ বিষয়ক প্রস্তাবিত ছিলেন। উক্ত সভায় উপস্থিত  
সভার তালিকা স্বাক্ষর পত্র ২০২১। ড. ডাহারাণ্ড আমর  
জাতীয় পর্যায়ে পরিবেশ বিষয়ক শিক্ষার বা পরিবেশ  
সুস্থতা নিয়ে আলোচনা করেন। এ পর্যায়ে আলোচনার  
পরিবেশের ক্ষতি বিষয় নিয়ে পরিবেশকে সুস্থ হিসেবে  
করেন এবং পরিবেশ বিষয়ক (৩০ নম্বর) ২০২১-২০২২  
ক প্রদান করেন।

Sl. no.	Name and Designation	Address	Signature	Recommendation
1.	Moni Rani Sarkar Head Teacher	Batresh Motur GPS, Babush	[Signature]	
2.	মোনি রানী সরকার (স্বাক্ষর)	LGEED Sankar Kidungu	[Signature]	
3.	শ্রী: শিবানী গাঙ্গুলি শিক্ষক	নিরোজা -S.M.C.	[Signature]	
4.	গনজিলাকার মীন স্বাক্ষর	বঙ্গিম নুজ GPS	[Signature]	
5.	ক্রিমী আছর স্বাক্ষর	বঙ্গিম নুজ GPS	ক্রিমী	
6.	বেবেকা কুমারী	বঙ্গিম নুজ	বেবেকা কুমারী	
7.	ফাহিমিয়া আছর	বঙ্গিম নুজ GPS	ফাহিমিয়া	
8.	জমতি আছর	বঙ্গিম নুজ	জমতি	
9.	তন্মী বানী দে	বঙ্গিম	তন্মী	
10.	ড. ডাহারাণ্ড আমর (স্বাক্ষর)	(স্বাক্ষর H&B, LGEED)	[Signature]	July 23, 2021
11.				
12.				
13.				
14.				

### Appendix 6: Checklist for environmental and social activities during construction period GPS

**Checklist for environmental and social safeguard activities during the construction period under PEDP4, LGED.**

Name of the school: *স্বপ্নাঙ্কন বিদ্যালয়* Upazila: *সিগাঁও*/Sadar District: *সিলেট*  
*স্বপ্নাঙ্কন বিদ্যালয়* / Sylhet

Date: *১১-০৫-১৯*

Sl. No.	Activities/ items followed/non-followed	Followed/ Non followed (If not-followed, the reasons)	Responsible persons	Remarks
1	Air/Dust pollution	Followed	contractor	
2	Water pollution	"	"	
3	Sound pollution	Not "	"	
4	Soil pollution	Not properly followed	"	
5	Wash room/latrine for labors	Followed	"	
6	Drinking water for labor	"	"	
7	First Aid Box	"	"	
8	Tree plantation	"	"	
9	Waste management	"	"	
10	Meetings before, after, and during construction	4-5 meetings building	Headmaster/SMC	
11	Water logging and drainage system	Followed	contractor	
12	Child/local labors	"	"	
13	Environmental Screening	"	"	
14	Labors equipped with (Apron, helmet, gumboot, hand glove, goggle, musk etc.) during construction period	"	"	
15	SMC meetings before, after, and during construction	18 meetings	Headmaster/SMC	
16	Documents preserved during construction period	Preserved	Headmaster	
17	Covered/uncovered sand pile	Followed	contractor	
18	Covered/uncovered brick/stone chips	"	"	
19	Establishing labor shed	Not followed properly	"	
20	Pure drinking water for labor	Followed	"	
21				
22				
23				

*Jahangir Alam*  
 19.05.19  
 Prepared by: Dr M. Jahangir Alam (Rustam)  
 Individual Consultant  
 PEDP4  
 HQ, LGED, Dhaka.

Checklist for environmental and social safeguard activities during the construction period under PEDP4, LGED.

Name of the school: *NAPE building*

Upazila: *Sadar* District: *Mymensingh*

Date: *22.04.25*

Sl. No.	Activities/ Items followed/non-followed	Followed/ Non followed (If not-followed, the reasons)	Responsible persons	Remarks
1	Air/Dust pollution	<i>Not properly done Followed</i>	<i>Contractor</i>	
2	Water pollution	<i>  </i>	<i>  </i>	
3	Sound pollution	<i>  </i>	<i>  </i>	
4	Soil pollution	<i>  </i>	<i>  </i>	
5	Wash room/latrine for labors	<i>  </i>	<i>  </i>	
6	Drinking water for labor	<i>  </i>	<i>  </i>	
7	First Aid Box	<i>  </i>	<i>  </i>	
8	Tree plantation	<i>Will be done in this month Followed</i>	<i>  </i>	
9	Waste management	<i>  </i>	<i>  </i>	
10	Meetings before, after, and during construction	<i>Monthly meeting held Followed</i>	<i>  </i>	
11	Water logging and drainage system	<i>  </i>	<i>  </i>	
12	Child/local labors	<i>  </i>	<i>  </i>	
13	Environmental Screening	<i>  </i>	<i>  </i>	
14	Labors equipped with (Apron, helmet, gumboot, hand glove, goggle, musk etc.) during construction period	<i>  </i>	<i>  </i>	
15	SMC meeting before, after, and during construction	<i>Not done SMC's for school building Preserved</i>	<i>Contractor</i>	
16	Documents preserved during construction period	<i>Followed</i>	<i>  </i>	
17	Covered/uncovered sand pile	<i>  </i>	<i>  </i>	
18	Covered/uncovered brick chips	<i>  </i>	<i>  </i>	
19	Establishing labor shed	<i>  </i>	<i>  </i>	
20	Pure drinking water for labor	<i>  </i>	<i>  </i>	
21				
22				
23				

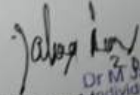
*Jahangir Alam*  
 22.04.25  
 Prepared by: *Dr M. Jahangir Alam*  
 Individual Consultant  
 PEDP4  
 HQ, Dhaka  
 Dr M. Jahangir Alam (Rustom)  
 IC (Environmental Specialist)  
 HQ, LGED, Dhaka-1207

Checklist for environmental and social safeguard activities during the construction period under PEDP4, LGED.

Name of the school: Chaker Bazar Govt. Pri. Upazila: Dakshin Surma District: Sythet School.

Date: 20.05.25

Sl. No.	Activities/ items followed/non-followed	Followed/ Non followed (if not-followed, the reasons)	Responsible persons	Remarks
1	Air/Dust pollution	Followed	Contractor	
2	Water pollution			
3	Sound pollution			
4	Soil pollution			
5	Wash room/latrine for labors			
6	Drinking water for labor			
7	First Aid Box			
8	Tree plantation	Plantation will be done in this month		
9	Waste management	Done nicely		
10	Meetings before, after, and during construction	4 meetings	Headmaster	
11	Water logging and drainage system	No water logging here	Contractor	
12	Child/local labors	Followed		
13	Environmental Screening			
14	Labors equipped with (Apron, helmet, gumboot, hand glove, goggle, musk etc.) during construction period	Followed		
15	SMC meetings before, after, and during construction	15 meetings	Headmaster / SMC	
16	Documents preserved during construction period	Preserved	Contractor / Headmaster	
17	Covered/uncovered sand pile	Followed	Contractor	
18	Covered/uncovered brick/stone chips		x	
19	Establishing labor shed			
20	Pure drinking water for labor			
21				
22				
23				

  
 20.05.25  
 Dr. M. Jahangir Alam  
 Individual Consultant  
 PEDP4  
 LGED, HQ, Dhaka  
 Dr. M. Jahangir Alam (Rustom)  
 IC (Environmental Specialist)  
 HQ, LGED, Dhaka-1207

## **Appendix 7: Accidental incident report of a damaged school building**

### **Report on Nij Varenga GPS that had already been gone away under water for soil erosion**

Nij Varenga is a government primary school situated under Doulatpur Upazila of Manikganj district. Dr M Jahangir Alam, environmental specialist of PEDP4, visited the affected area physically on 24th June, 2025, with the direction and to submit the report to the Additional Chief Engineer, Mr. Md. Sohorab Ali (HRD, QC and Environment). LGED's representative, the teachers of the respective school, local people, and SMC members were present during the visiting period. The school was constructed in 2016, and renovation and reconstruction were undertaken in the financial year 2022-2023 to meet the growing demand of the students of the catchment area. In the financial year 2022 to 2023, when the school was set up, the river was half a kilometre away from the school building, and the flow of current was opposite the site where the school building was situated. In this year the flow of current diverted back to the school building. As a result, several houses and establishments, including school buildings, had gone underwater on 5th June, 2025. Only one side of the school building is partially visible now. No houses or trees are available in and around the school building and have gone away under the water of the mighty river Jamuna. Furniture and other equipment of the concerned school had been transferred to another place under the suggestions of the local people and concerned officers of the Upazila Parishad. According to the UE, the headmaster, teachers of the respected school, and SMC members, within three days the river had gone away with a strong current, and soil erosion had occurred immediately. At that time, the school authority had contacted the Upazila Education Officer, UNO, officers of the Bangladesh Water Development Board, and the Upazila Engineer of LGED. Meanwhile, engineers from LGED, the Bangladesh Water Development Board (BWDB) and Upazila Education Office had visited the spot and provided necessary suggestions to the affected people and the school authority. The BWDB did not show the interest to drop geo-bags, as during Eid vacation there was a labour shortage. Other than, LGED wanted the school building to be given to auction. But nobody agreed to take the auction, as it was so risky to recover the building.

In fact, no initiative would be activated, as the water of the mighty river Jamuna had engulfed the whole area. Moreover, interviews with the Upazila Engineer and headmaster of the concerned school were taken as documents and some pictorial evidence that are attached to the report.



Prepared by:  
Dr M Jahangir Alam (Rustom)  
Env. Specialist, PEDP4  
LGED, Agargaon, Dhaka.

## **Appendix 8: Grievance Redress Mechanism for environmental Activities**

During the construction phase of school building huge environmental pollution held in the construction site i.e. sound pollution, air pollution, water pollution, welding, and accidents may occur any time. So, safety measures are taken seriously. Other than ceiling of the school building may collapse if construction works are not done carefully. In this period grievance may come from SMC, guardians, resident from nearby houses. So, safety measures are taken to avoid the grievance, and redress mechanism are taken. Often the complaints especially journalist from print and electronic media highlights the issues in newspapers and TV. Sometimes, someone complain to XEN offices, UE office expressing their grievance. After getting complains from individual or media, LGED instantly form committee for investigation the incidents. Then, LGED take redress mechanism in different stages like in the upazila office, XEN office, headquarter to resolve the issue arisen.

During the reporting period, LGED received only 144 general and 06 major complains. Among them 106 complains are solved with the intervention of central and field level officials and SMC. And 80 complains are under investigation. Grave complains are lodged for 02 schools. These are under investigation level. LGED already instructed the concerned Upazila Engineers to take proper measures and report accordingly. Other than, LGED scans the daily newspapers regularly through a team, if any adverse news publishes related to the PEDP4; LGED starts inquiry and takes onward action based on the inquiry report. In addition to these, 39 complains are found from the daily newspapers, these are also under investigation, and 05 of them are resolved already. LGED does not use any specified form for these purposes. The Grievance Redress Mechanism (GRM) enhances social accountability and facilitating the program/project to be responsive to its beneficiary communities and/or stakeholders. It is noted that PEDP4 has no provision for land acquisition; subject to availability of existing land, additional classrooms and other infrastructures are being built. Hence, the issue of resettlement does not arise under PEDP4. It can be mentioned also that LGED starts its activities after receiving approved list of schools for construction of additional rooms from MoPME through DPE. Having lists in hand, LGED checks land documents to verify on spot and avoid land related problems at the master plan preparation stage for its accuracy. Moreover, PEDP4 requires preparing a master plan for each such-project school and institution through a Master Plan Preparation Committee (MPPC) which is formed of headmaster of the school, SMC representative, representatives from the stakeholders such as Public Health Engineering and DPE, local representatives (UP members male or female) and members of existing and neighbouring community. These members of the committee participate in survey and site selection for each new building construction. Also, stakeholders are sought for their presence during layout of the new building. In hilly areas where ethnic minority reside, they become part of the MPPC committee and deal with traditional conflict and resolution if the need arises. Local community consultation ensures that their interests are secured for the construction of the new buildings in their locality done by PEDP4.

Furthermore, 34 school buildings problems have been highlighted so far regarding the infrastructure problems of primary schools and published in various newspapers from January- June, 2025. Among them 05 compliance have been solved. In light of the said

report, letters and newspaper reports have been sent from LGED (PEDP4) to the concerned Upazila Engineers in respect of taking appropriate actions. In this regard, the Upazila Engineers have been instructed to verify the current condition of the schools and send a full report of what needs to be done to the LGED (PEDP4) headquarters. In addition, actions are taken in the light of the said reports against the offenders.

## **Appendix 9: Grievance Redress Mechanism for environmental Activities**

**Table: Grievance Registration Form / complain resolved form (Physical/virtual)**

Sl. No.	Upazila/District	Name of the school	Name of the complaints and its topics	Name and Designation of investigation officer/Engineer	Memo. No of the report and date	Last date of investigation report	Submission date of the report in HQ	Decision taken according to the submitted report	Remarks

**Table-: Grievance Registration Form / complain resolved form from newspapers**

Sl. No.	Upazila/District	Name of the school	Name of newspaper and its topics	Name and Designation of investigation officer/Engineer	Memo. No of the report and date	Last date of investigation report	Submission date of the report in HQ	Decision taken according to the submitted report	Remarks

# **PART-B**

## **Department of Public Health Engineering (DPHE)**

## **EXECUTIVE SUMMARY**

The prime objective of PEDP-4 is to ensure an efficient, inclusive and equitable primary education system through a child friendly physical learning environment. Infrastructural development in terms of construction of class rooms and wash blocks, installation of safe drinking water points plays an important role in achieving the sustainable physical learning environment as well as ensuring holistic development of children. Department of Public Health Engineering (DPHE) is solely responsible to provide the water supply and sanitation facilities in the primary schools of Bangladesh. As per the approved revised DPP (RDPP) of PEDP-4 DPHE will install 20,000 new water points and construct 50,000 Wash Blocks in the primary schools of Bangladesh throughout the program tenure (July/2018 to June/2025) of 7 years. In addition, DPHE will conduct water quality tests of earlier installed water points (lists to be issued by DPE) and undertake major maintenance of wash blocks constructed during PEDP-3 on the basis of actual needs. From the beginning of the project until June 2025 DPHE installed a total of 17,112 new water points and constructed 44,276 Wash Blocks. Of them 852 water sources and 758 wash blocks were constructed during the reporting tenure. In addition, DPHE conducted major maintenance of 7,672 wash blocks from the beginning of the project.

The sole purpose of this study is to identify any concern or issue related to the environmental safeguard due to the construction of wash blocks, installation of water points and major maintenance of wash blocks from Jan/2025 to Jun/2025. The study is based on the environmental safeguard screening conducted during planning, construction and post implementation stages. The screening format is prepared based on the MoPME approved EMF for PEDP-4. The screening covered different environmental safeguard indicators such as loss of agricultural land, blockage in the drainage system, instance of water logging, provision for access to safe drinking water, provision of hand washing and hygiene facilities etc.

During the reporting period from January to June 2025, several key initiatives were successfully implemented to strengthen school governance, enhance stakeholder engagement, and improve service delivery. These included 04 capacity building and awareness programs, (based on verbal information) 27 GRM issues have already been addressed and resolved, and 11 stakeholder consultation meetings. These activities collectively contributed to sustainable and impactful outcomes across the project.

The screening was conducted by DPHE officials i.e. Sub-Assistant Engineers at the Upazilla level which was duly verified in district level by the Supervision Consultants, Executive Engineers and compiled in DPHE headquarter. The environmental monitoring screening during the reporting tenure confirmed no significant instances or issues that may hamper or influence environmental safety. Being an implementing agency, DPHE would like to uphold this status in its ongoing and upcoming works related to infrastructural development.

## **1. Introduction**

[1] Bangladesh, a country with its astonishing economic boom is rapidly progressing towards its journey to become a trillion-dollar economy. For a rapidly developing country like Bangladesh, it is of utmost importance to ensure the holistic development of the children which includes both intellectual and emotional development in such a manner that they can uphold the nation from all aspects. This has been eloquently articulated in the Constitution of Bangladesh as well. The fourth Primary Education Development Program (PEDP-4) is the continuation of the Government's approach to thriving the excellence of children through the fulfillment of several distinct milestones including the construction of need-based infrastructures for sanitation and water supply. The program is supported by significant contributions from the Government as well as Development Partners (DPs). Department of Public Health Engineering (DPHE) under the Local Government Division (LGD) of the Ministry of Local Government, Rural Development and Cooperatives (MLGRD&C) is involved in the capacity of implementation partner to provide the quality water supply and sanitation facilities in the primary schools of Bangladesh. As per the MoU signed in between DPE and DPHE and as per the revised DPP (RDPP) of PEDP-4, DPHE will perform the following activities in the project tenure with an aim to provide safe drinking water and sanitation services in the primary schools under PEDP-4.

- Install 20,000 new drinking water sources in the primary schools.
- Conduct water quality testing of 65,566 water points installed earlier.
- Construction of 50,000 new Wash Blocks in 25,000 primary schools(according to RDPP).
- Major maintenance of approximately 10,000 wash blocks constructed in PEDP-3.
- Water supply and sanitation facilities in 650 DD, DPEO, URC, and PTI offices.
- Operation and maintenance (O/M) of water points.

[2] With the continuous support of the Bangladesh government and development partners, the 4<sup>th</sup> Primary Education Development Program (PEDP-4) has accelerated considerable progress in the installation of water sources and environment-friendly wash blocks in the primary schools of Bangladesh through DPHE.

## **2. Purpose of the current report**

[3] The basic intent of this report is to identify and resolve any anticipated environmental safeguard issues that may arise during the installation of water sources or construction of Wash Blocks in the primary schools of Bangladesh. This report will encompass and summarize the findings of the environmental screening conducted during the installation of water points and construction of Wash Blocks in the primary schools of Bangladesh from the tenure of January'2025 to June'2025

[4] . During the implementation of the project, environmental monitoring screening was conducted based on the Environmental Management Framework (EMF) of PEDP-4. The purpose of this report is listed below.

- To modify some of the tools based on the experiences gained from PEDP-3 to ensure that neither the infrastructure (both in terms of needs and quality at primary schools) nor the environment is compromised through the program intervention.
- To establish the mechanism to determine and assess future potential environmental impacts of WASH infrastructure that are to be identified and cleared based on a community demand-driven process and to set out mitigation, monitoring, and institutional measures to be taken during implementation and operation of the WASH infrastructure to eliminate adverse environmental impacts or to reduce them to acceptable limits.
- To ensure that the envisaged purpose of PEDP-4 is achieved and results in desired benefits without adversely affecting the environmental resources.
- To avoid potentially adverse environmental impacts and enhance environmental outcomes the program is expected to have limited and minimum adverse environmental impacts.
- To address any grievances originating from the implementation of the project.

### **3. Categorization**

[5] Since projects are categorized based on their potential environmental and human health impacts, the construction of wash blocks and the installation of water sources do not have potential adverse environmental and health impacts. On the contrary, such constructions improve the environment through proper management of human excreta and decrease the chances of illness. As a result, components such as the construction of wash blocks and the installation of water sources are out of categorization as per ECR-23 and do not require an environmental clearance certificate.

### **4. Indicators of environmental safeguard as per EMF under PEDP-4**

[6] This report covers different distinct environmental monitoring indicators based on the MoPME-approved EMF of PEDP-4. Principles relevant to the environmental management of WASH (Water Supply, Sanitation and Hygiene) in PEDP-4 are mentioned below.

- Annual water quality monitoring of all the installed (installed at least one year earlier and lists to be provided by DPE) tube-wells will be carried out to ensure safe drinking water facilities to the students and teachers.
- Provision for adequate sanitation facilities for the teachers and students will be made and the mechanism for regular cleaning, routine and major maintenance will be implemented.
- To solve the drinking water problem in remote hilly and coastal areas, rainwater harvesting and other feasible options will be explored.
- To address the post COVID-19 crisis for adaptation to the new normal.

[7] In general, the following indicators require to be monitored during the planning, construction and post-implementation phases.

- i) Losses of agricultural lands
- ii) Drainage congestion/water logging
- iii) Surface water pollution
- iv) Dust and noise pollution
- v) Safe distance between tube-wells and sanitary latrines
- vi) Occupational health hazards and safety practices
- vii) Maintenance of water supply and sanitation facilities
- viii) Maintenance of air and water quality
- ix) Management of surrounding ecosystem and biodiversity (if any) etc.
- x) Ensure that COVID safety protocols are well adhered.

A thorough screening of the above indicators was carried out during the reporting tenure.

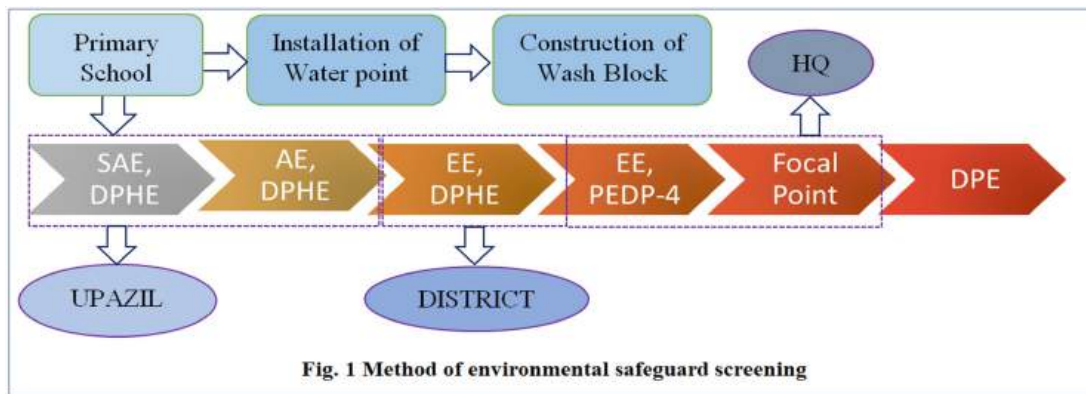
## **5. Methodology**

[8] With an aim to investigate the impact of infrastructural development on environmental safeguards, a thorough screening was carried out in the respective primary schools by the concerned sub-assistant engineers of DPHE. The screening results were duly verified by the respective assistant engineers and a database was prepared at the Upazilla level in the web-based platform of DPHE under PEDP-4 known as Total Information Management Systems (TIMS). Executive engineers at the district level compiled the verified database obtained from the Upazilla level and sent them to DPHE Head Quarter through TIMS, where the database was finally compiled and the report was prepared by the environmental and social safeguard specialist under the supervision of the focal point of PEDP-4.

Table 1: Safeguard personnel engaged by DPHE in PEDP-4

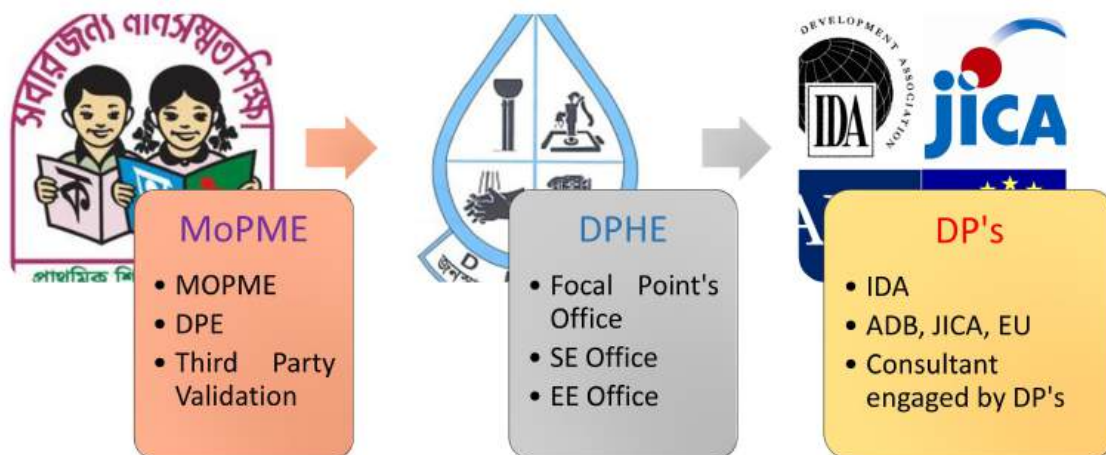
Name	Organization and designation	Email address	Contact no
Md. Kamrul Islam	Environment focal person AD planing, DPE.	<a href="mailto:kamruljam@gmail.com">kamruljam@gmail.com</a>	01911-403112
Md. Nazmul Islam	Environmental & social safeguard specialist, DPHE.	<a href="mailto:peussc04@gmail.com">peussc04@gmail.com</a>	01575-084449
Md. Jaynul Abedin	Environmental & social safeguard specialist, DPHE.	<a href="mailto:peussc01@gmail.com">peussc01@gmail.com</a>	01911-722975

[9] Data for environmental safeguard screening during the installation of water sources and construction of Wash Blocks have been collected from the schools through DPHE official sources using the structured format (copy enclosed in Appendix-1 of this report). Data collected from grass root level have been entered into the web-based platform of DPHE under PEDP-4 known as TIMS and kept structured for reporting. A flow diagram of the screening method is depicted in Fig. 1.



## 6. Role of DPHE in comprehensive monitoring

[10] The subcomponents (sub components 2.3 and 2.4) of PEDP-4 especially the infrastructural implementation is comprehensively monitored by several parties from the commencement to the operational phase. Fig.2 shows the monitoring scheme in PEDP-4 operated by different agencies. Being an implementing agency, DPHE is involved significantly from construction till post-construction monitoring. Role of DPHE is depicted in Fig.3 It can be noted that the defect liability period for installed water points and constructed wash blocks are 02 and 01 year respectively. This implies that contractor is responsible to rectify any sort of defects within this time frame counting from the date of handover of tube well and wash block. In order to get a clear picture of ongoing and completed works, DPHE district office arranges monthly monitoring meeting with all concerned officers and staffs of that district. Executive Engineers thus address the issues of monitoring to the assistant/ sub assistant engineers monthly. Officers of concerned district along with supervision consultant used to visit the sites frequently in order to monitor the ongoing and completed works and also focus on the environmental safeguard aspect. Visit of senior supervision consultant from Focal Point's Office and DPHE Head quarter happens frequently.



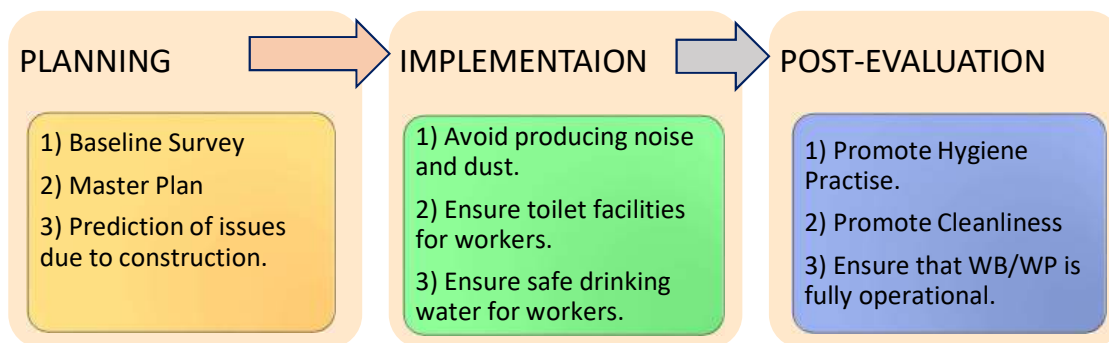


Fig. 3 Role of DPHE in environmental monitoring

[11] DPHE district office arranges coordination meeting between DPHE (EE, AE, and SAE) and DPE officials (DPEO, UEO) in every 3 months. A glimpse of such meeting is shown in Fig. 4 .



Fig. 4 Co-ordination meeting between DPHE and DPE officials at Chattogram division

In this meeting, officers from directorate of primary education point out the necessity of monitoring of particular school which are immediately addressed by DPHE officials. Besides these, to get better insight and ensure quick action, DPHE has introduced a new system of arranging monthly consultation meeting between DPHE officials and Headmasters of Primary School during this reporting tenure as a part of routine monitoring process. A photo of monthly consultation meeting between DPHE officials and Headmasters of Primary School is depicted in Fig. 5. Recently, DPE started an initiative known as ‘Divisional Co-ordination Meeting’ where officials from DPE, DPHE and LGED attend. This arrangement has been proven to be an efficient monitoring tool in mitigating construction related issues. A photo of such meeting is depicted in Fig. 6.



**Fig. 5 Consultation meeting between DPHE officials and Headmasters of Primary School at Pabna district**



**Fig. 6 Co-ordination meeting at Barguna district**

[12] DPHE arranges caretaker training and provides MoPME approved ‘Maintenance Manual’ to the concerned schools during the handover of water points and wash blocks which covers post-construction issues. Contact numbers of DPHE officials (mechanics and assistant/sub-assistant engineers) are provided to the concerned schools so that any relevant issues can be addressed accordingly. Moreover, DPHE looks after the tube wells which have already passed the defect liability period of 02 (two) years. Mechanics of DPHE upazila headquarters repair the tube wells on an urgent basis when they are called for doing so by the concerned school in order to ensure that the running water supply is fully operational. The photo of such caretaker training is depicted in Fig. 7.



Fig. 7 caretaker training at Pirojpur District

Table 2: Caretaker Training from the project's start to June 2025

Component	No. Of training program during Jan-June 2025	Cumulative no.of training program as of June 2025	Cumulative no. Of participant as of June 2025		
			Male	Female	Total
DPHE	62	4,046	19,538	14,127	33,665

[13] DPHE has initiated a public feedback process regarding the construction of WASH blocks in primary schools. This initiative aims to ensure that community voices are heard, local needs are met, and the infrastructure is built to serve students effectively. The common opinions are below.

- Stakeholders emphasized the need for separate and safe toilets for boys and girls to ensure privacy and encourage better hygiene practices.
- Special attention was given to menstrual hygiene management, with requests for disposal facilities and awareness programs for girls.
- Concerns were raised about continuous water availability, especially in remote areas where water scarcity is common.
- The idea of assigning responsibility to specific staff members for WASH block upkeep was also widely supported.

This collaborative approach will help create WASH blocks that are functional, sustainable, and truly beneficial for primary school students, improving both hygiene conditions and learning environments.



Fig. 8 public feedback on WASH block of primary school

## **7. Capacity building**

- [14] During the implementation of PEDP-3, a ToT (Training of the Trainers) was conducted by the World Bank among DPE, DPHE and LGED officials. The purpose was to introduce the proposed framework for environmental and social safeguard under PEDP-3 along with the importance of conducting rigorous monitoring. In addition, screening method was agreed and confirmed based on targeted outcomes. DPHE officials (Executive Engineers, Senior Assistant Engineers, and Assistant Engineers) who received ToT provided training to the sub-assistant engineers and mechanics in the district and upazilla level who eventually filled in the environmental screening forms at the grass root level. In PEDP-4, a revised framework is adopted for both environmental and social safeguards. The basic changes are little but elaborate in comparison to that of PEDP-3. On December 5, 2021, ADB conducted a short virtual training workshop on Occupational, Community, and COVID-19 Health and Safety Management at the Construction works. Officials, consultants, and contractors of both DPHE and LGED attended the training workshop. Although the duration of the training was short, it was effective and guided the participants with valuable insights related to construction safety and COVID-19 health and safety management at the construction site.
- [15] On May 31, 2022, a meeting on the revision of the latest EMF and SMF was held virtually. The meeting was arranged by DPE and presided over by ADG (PEDP4), DPE. Members from DP's consortium and government officials attended the meeting. The meeting came up with several modification decisions on the existing EMF and SMF which is expected to be included in the revised EMF and SMF. In order to identify the key differences of revised EMF and SMF to that of original EMF and SMF of PEDP-3, newly designed training should be carried out by the experts (from both GoB and DP's) who had inputs during the preparation of revised EMF and SMF. Recently importance of training of the trainees were discussed in a meeting regarding EMF and SMF. Recently (December 8, 2022), during the QLEAP mission importance of training of the trainees were discussed. It was decided that the existing environmental and social safeguard framework will be revised with an agreed setup by DPE and TA support from the development partners.
- [16] During the reporting tenure, DPHE master trainers from Head Quarter and circle Head Quarter (who received ToT during PEDP-3) conducted day long circle level meetings to expedite the works related to the construction of wash blocks and installation of water sources and for the smooth implementation of construction work by the guidelines of both revised EMF and SMF. Thus, the trained engineers try and function as peer educators to educate the site workers and contractors. A summary of training and capacity-building activities during the reporting tenure is tabulated below.

Table 3: Training and capacity building activities during Jan/2025-Jun/2025

Training Title	Date	Venue	Training Details	No. of Participants	
				Male	Female
Supervision and Construction Quality Control under PEDP4/GPS/N NGPS Project	05/02/2025	DPHE Chattogram Division office	Training on on-job issues such as Civil / Water Supply / Sanitary / Plumbing related issues in accordance with revised EMF, SMF	28	02
	15/04/2025	DPHE Pabna Division office		41	05
	29/04/2025	DPHE Barguna Division office		59	4
	04/05/2025	DPHE Pirojpur Division office		47	7
Total =				175	18
<b>Cumulative Number of Training from the beginning of the project till date =</b>				<b>63</b>	

[17] Participant attendance sheet and photo of the capacity building program are shown in Appendix 8.

Table 4: Training and capacity building activities from the project's start to June 2025

Component	No. Of training program during Jul-Jun, 2025	Cumulative no.of training program as of Jun, 2025	Cumulative no. Of participant as of Jun, 2025		
			Male	Female	Total
DPHE	04	63	5,612	736	6,348

## 8. Environmental safeguard screening by DPHE (Jan'2025 – Jun'2025)

[18] It cannot be denied that COVID-19 situation slowed down the overall construction and implementation progress. But with restrictions being lessened, DPHE has quickly adapted to the new normal by developing a comprehensive COVID-19 Site Operating Procedure (SOP) alongside several site and task specific risk assessments. DPHE constructed and installed a total of 44,276 wash blocks and 17,112 water points till date from the beginning of this project. Among these, a total of 758 wash blocks and 852 water points were installed and handed over during the reporting tenure of Jan'2025 to Jun'2025. Needless to note that, the water points which are installed for drinking water purposes are tested in DPHE zonal laboratories for different chemical (Arsenic, Iron and Chloride) contamination. In this tenure 15,566 water points were tested by the DPHE laboratory. A total of 15,566 water points in order to identify any new contamination of water sources due to arsenic, Iron, and Chloride. All these works were monitored based on the approved Environmental Monitoring Framework (EMF) for PEDP-4. Table-5 summarizes the list of DPHE-implemented works where screening for environmental safeguards was carried out.

**Table 5: Progress of work under PEDP-4, DPHE**

Scope of Work	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	Jul'24-Dec'24	Jan'25-Jun'25	Total
Construction of Wash Block	-	6,760	4,722	7,734	15,796	9,264	8,506	758	44,276
Installation of Water Sources	240	4,401	3,027	5,276	2,056	2,112	1,260	852	17,112
Maintenance of Wash Block	689	4,010	1,663	1,030	155	125	90	35	7,672
Water Quality Monitoring	-	-	15,000	921	12,579	11,500	11,500	-	40,000
Water Quality Monitoring by the DPHE's laboratory								15,566	15,566
Water supply and sanitation facilities in DD, DPEO, URC, and PTI offices.			80	165	42	13	07	06	300

[19] The status of the water points and wash blocks received through the monitoring survey is given in the following subsections. A list of random monitoring visits from the DPHE Head Quarter is listed in the Table below. Field Monitoring Photos are shown in Appendix 9.

**Table 6 Monitoring visits from DPHE Head Quarter during the reporting period**

Sl. No.	Name of subproject	District	No. of WB/WS	Date of Inspection
1	Construction of Wash Block (WB&WS)	Brahmanbaria	16	20/01/2025 - 23/01/2025
2	Construction of Wash Block (WB)	Rangpur	28	26/01/2025 - 29/01/2025
3	Construction of Wash Block (WB)	Kurigram	17	16/02/2025 - 19/02/2025
4	Construction of Wash Block (WB)	Nilphamari	19	17/02/2025 - 20/02/2025
5	Construction of Wash Block (WB&WS)	Netrokona	22	07/03/2025 - 10/03/2025
6	Construction of Wash Block (WB&WS)	Rajshahi	25	15/03/2025 - 19/03/2025
7	Installation of Water Supply (WB&WS)	Khulna	28	13/04/2025 - 17/04/2025
8	Construction of Wash Block (WB&WS)	Moulvibazar	22	20/04/2025 - 24/04/2025
9	Construction of Wash Block (WB&WS)	Habiganj	15	17/05/2025 - 21/05/2025
10	Installation of Water Supply (WB&WS)	Chattogram	29	19/05/2025 - 22/05/2025
11	Installation of Water Supply (WB&WS)	Narail	14	16/06/2025 - 19/06/2025
12	Construction of Wash Block (WB)	Feni	20	16/06/2025 - 19/06/2025

*\*\* In addition, frequent monitoring visit from respective EE Office and AE/SAE offices happen during the reporting tenure.*

## **9. The Health and Safety Status**

[20] Unwanted, unplanned, or unforeseen events can cause damage to construction related workers, bystanders, or groups. To ensure protection from accidents, DPHE ensures various types of safety measures through the implementation of security arrangements. After providing construction safety training to each worker group, they are deployed to the site. It can be noted that no fatal or non-fatal accidents happened since the beginning of the project. During the reporting period, some minor injuries and security incidents were recorded, tabulated below. Accident checklist are provided in Appendix 13.

[21] A task-by-task safety checklist has been maintained. However, a comprehensive site safety arrangement by the contractor has been ensured from the beginning of the project to the present. This task-specific safety checklist will continue to be enforced throughout the remaining project period. A task-specific safety checklist is provided in Appendix 12.

Table 7: Accident/Incident over the Project Period

Sl	Accident type	During Jan-Jun,2025	Cumulative Number till Jun, 2025
1	Number of Fatal Accidents	-	-
2	Non-fatal injury (hospitalized)	-	-
3	Minor injury (first aid case)	16	43
4	Illness (diseases)	20	38
5	Fire/Explosion	-	-
6	Security Incideent	17	22
7	Near miss	-	-

## 10. Outcomes of environmental safeguard screening

### 10.1 Influence of type of water point

#### Planning from the lessons learned in PEDP-3

[22] It is a fact that DPHE installed water points of different options such as Deep Tube Wells (DTW), Shallow Tube Wells (STW), Tara Tube well, Ring Wells (RW), Pond Sand Filters (PSF), Rain Water Harvesting (RHW) in PEDP-3 based on the variation in the geological formation, position of aquifer /water table, saline water intrusion, etc. However, all those options have certain advantages as well as multiple drawbacks. The common of which is the ease of availability of water from the source and their familiarization and user-friendliness to the young users.

#### Mitigation Measures Suggested (MMS):

[23] In order to mitigate the concerns and to make the water sources more popular and user friendly, DPHE installed Tube well with Submersible Pump (TSP) in the primary schools where deep tube well (depth >200m) is required to be installed under PEDP-4 due to ground geology. This option has special features such as-

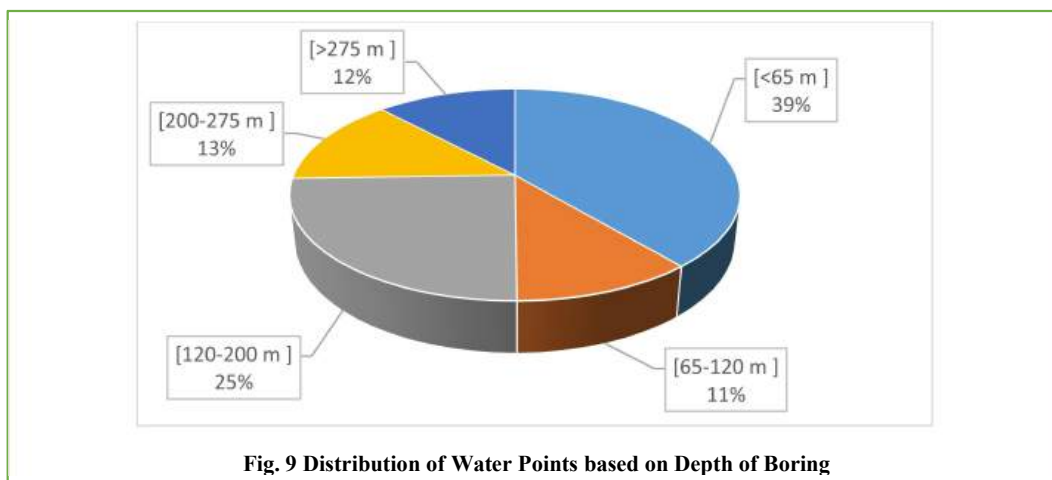
- Running water supply with storage facility.
- Multiple users can access at the same time.
- Promote hygiene practice through safe hand washing.

#### Comment:

[24] Installation of tube well with submersible pump added values to its user especially young user which eventually increases the easy access to safe drinking water result in health benefit as well as diminishes water logging and drainage problem.

### 10.2 Distribution of water points based on installed depth

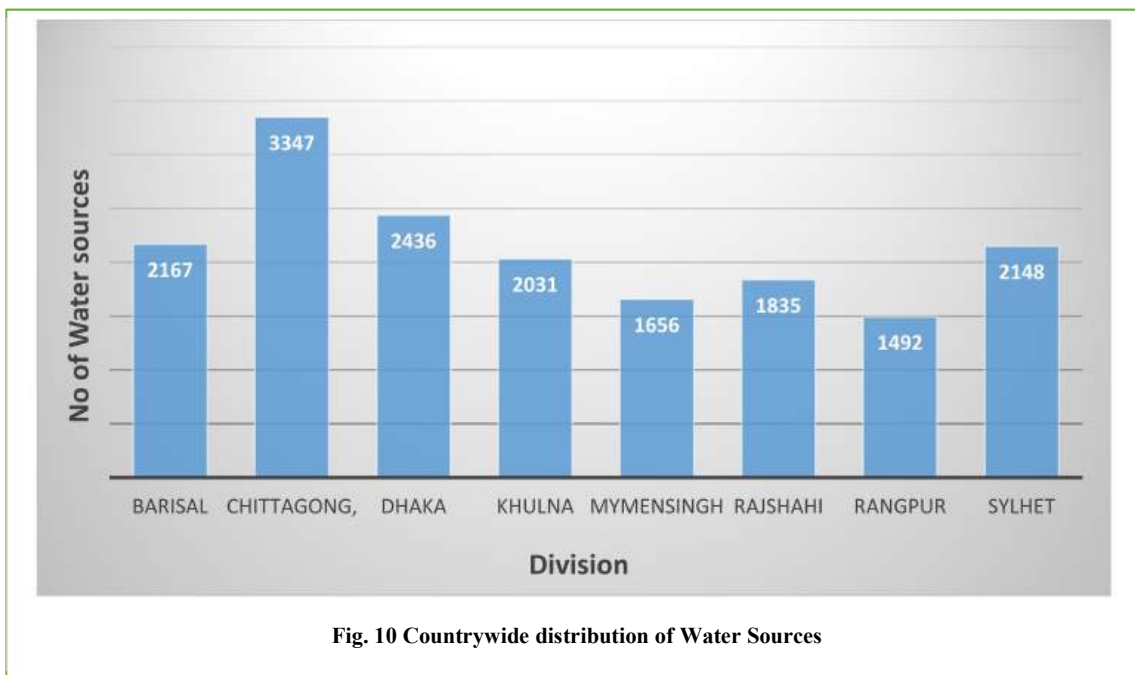
[25] DPHE installed tube wells of varying depth in different primary schools of Bangladesh considering the geological formation of respective district/upazilla. Although the depth of tube well



depends on the suitable water layer, all the tube wells installed in the reporting tenure can be broadly categorized into five distinct types based on the depth of tube well. Fig.8 depicts the classification of tube wells based on depth. As shown in Table 5, a total of 852 nos. of water points were installed under PEDP-4 during the reporting tenure. It is clear from Fig.9 that 39% of tube wells were installed at a shallow depth (<65m) and the Tube wells installed between 65m to 275m are deep tube wells that occupy (61%) of all the installed water points.

### 10.3 Countrywide distribution of water sources & wash blocks

[26] Countrywide distribution of water sources and wash blocks were analyzed and division wise categorization for water sources and wash blocks is depicted in Figs. 10 and 11 respectively. It is fact that, tube well ensures safe drinking water for the school children as well as for the teachers. Fig.10 shows the equity in distribution of water sources. Among the total installed water points, the highest number was installed in the Chattogram division followed by Dhaka and Sylhet division while the minimum number of water points was installed in the Rangpur division. This is as per the need assessment criteria and the approved list issued by DPE based on approved IPG.



[27] Wash Block is serving as a unique unit of hygiene practice for the school children as well as for teachers. Its impact on the environment is high as it helps to promote hygiene as well as a safe and clean school environment. Open defecations and urination practices decrease through the utilization of wash blocks and they confirm better health through improved washing facilities.

[28] Fig.11 reflects the countrywide distribution of wash blocks depending on the number of districts and upazillas in each division. The maximum number of wash blocks were constructed in the Chattogram, Rangpur, Barishal, and Khulna divisions as these divisions cover the maximum districts. The lowest number of wash blocks (3032) was constructed in the Mymensingh division.



Fig. 11 Countrywide distribution of Wash Blocks

#### 10.4 Loss of agricultural land

[29] During the preparation of site plan/ master plan it was the prime focus that the installation of the new water sources does not preclude the use of existing agricultural lands. No loss of agricultural lands was recorded from the environmental screening survey conducted for the water points installed from Jan'25 to Jun'25. Similarly, construction of wash blocks was carried out in those schools where land is owned by the respective school. Furthermore, prior to the construction of either wash block or installation of water sources, it was confirmed that the master plan was prepared by the MoMPE approved committee. In some cases, (approximately less than 1% of total construction) design and arrangement of wash blocks were modified based on the prevailing space constraints in the school by keeping the floor area similar. *However, the overall process of construction of wash block did not require purchase of new land from school which ensured no loss of agricultural land.*

#### 10.5 Surface Water Pollution:

[30] Both the water sources and wash blocks were installed in such a manner that they do not adversely pollute the surface water. The environmental screening of all 758 Wash blocks and 852 Water Points installed from Jan'25 up to Jun'25 revealed no instances of polluting the surrounding water bodies. The placement was carefully planned in consideration of the following:

- Water sources, including wells or boreholes, were positioned at least 15 meters away from any surface water body (such as rivers, ponds, or lakes). This distance ensures that no runoff or contamination from the WASH block areas can affect the water quality of these natural resources.
- The design of the water sources also includes proper protective casing and filtration systems to prevent surface water from infiltrating the groundwater, ensuring the water supply remains clean and safe for use.
- The septic tanks and soak pits used for wastewater disposal were installed at a minimum distance of 10 meters away from surface water sources. This ensures that wastewater does not flow into rivers, lakes, or other bodies of water, thus preventing contamination.
- The septic tanks are designed to contain waste safely and allow for the proper filtration and treatment of wastewater before it enters the soil. Similarly, soak pits provide a means for wastewater to be absorbed without pooling on the surface or reaching nearby water sources.
- Careful measures were taken to ensure that both the septic tanks and soak pits are sealed and covered to prevent any leaks or overflow, and that no harmful substances can leach into the surrounding environment.

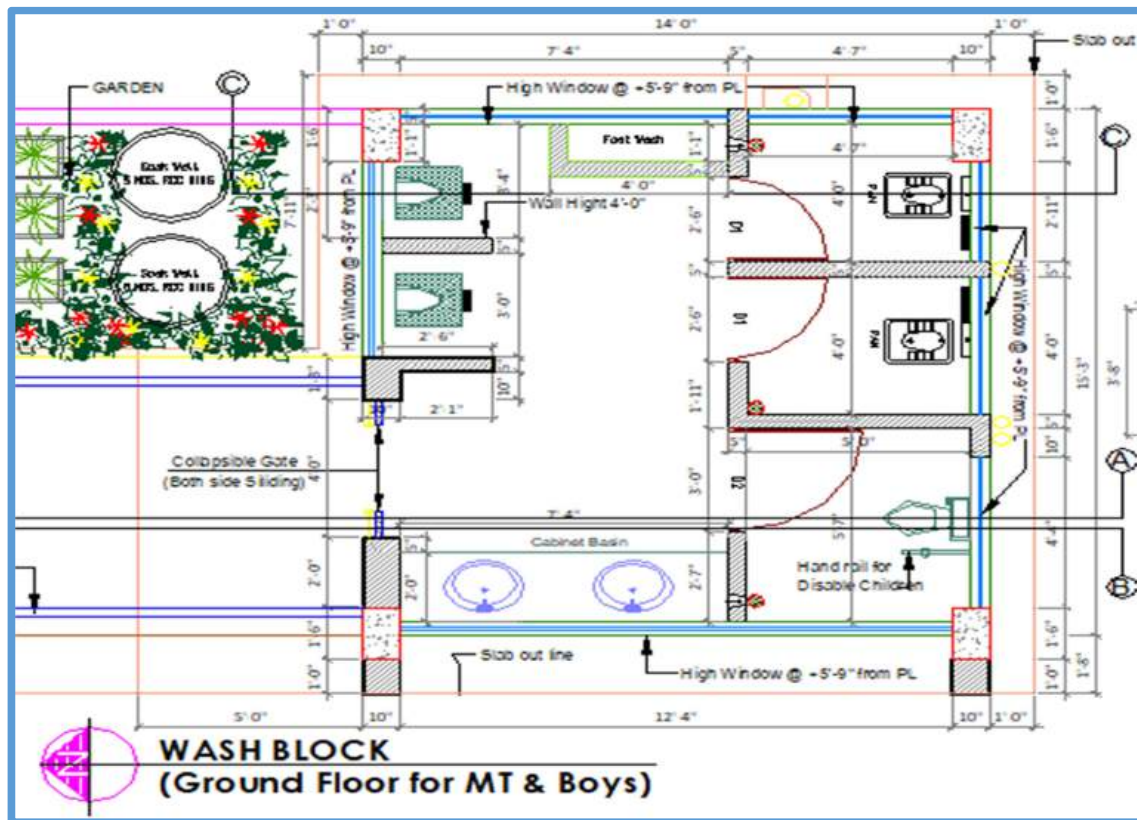


Fig.12 Feature of the Septic tank and soak pit.

### **10.6 Facilities for draining out of water**

[31] From the lessons learned during the environmental screening in PEDP-3, DPHE took the initiative in solving the water logging problem by adopting different measures such as:

- [1] Pipe out used water to the existing drains (if any).
- [2] Use of 5-ring soaks well to drain out basin water where the surface drain is absent.
- [3] Construction of 5 user water collection basin having 50mm dia. PVC washout pipe. Fig. 13 Shows a newly constructed 5-outlet hand washing basin under PEDP-4.



**Fig. 13 Five Outlet Water Collection Basin**

Because, DPHE local office took the initiative in solving the drainage issue, it has been observed that the water logging problem is insignificant compared to that in PEDP-3. However, it is revealed that out of 852 water sources about 1.64% had the problem of water logging. The reasons observed are mainly lack of cleanliness which created blockage of drainage pipe by wastes like paper, tree leaves, mud, etc. It is hence suggested that SMC needs to look after this issue and run a regular cleanliness program in the water collection basins and drains.

### **10.7 Source of Existing Water Supply**

[32] During preliminary survey it was found that, out of 852 schools 78% did not have their own active water option. 54% of them used the facility of their neighborhood. Though 22% schools have their own tube wells, yet those tube wells were found as non-functional or did not provide sufficient water during dry season. From this information during the preliminary screening, DPHE took initiative in solving the above problem by installing new tube wells (approved list of which schools were duly provided by DPE) with submersible pump but at different depth as appropriate to the site geology.

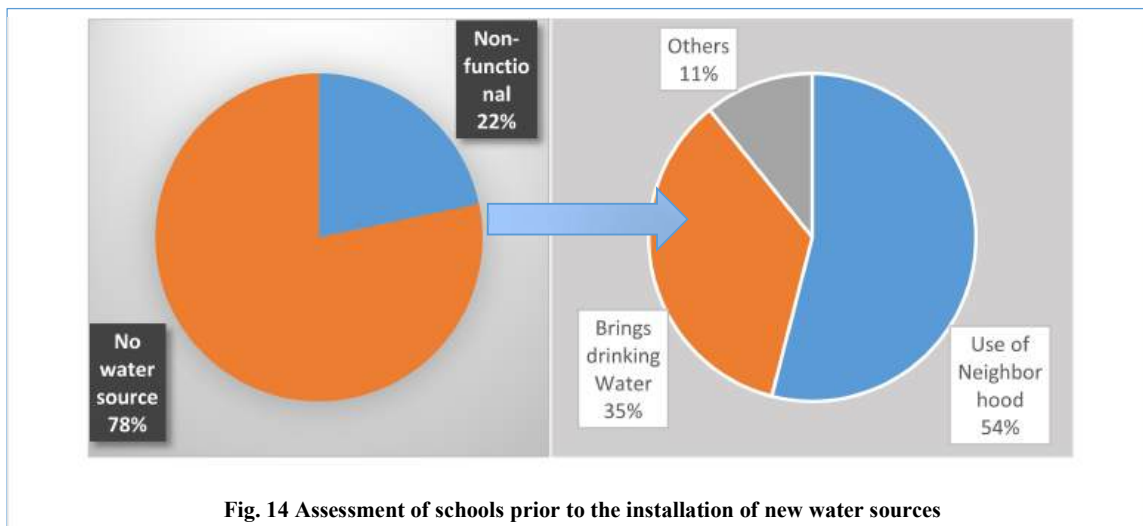


Fig. 14 Assessment of schools prior to the installation of new water sources

### 10.8 Environment of water supply facility

[33] In case of water points 'Clean Environment' refers to the surrounding of the installed water option. If the surrounding environment is not dirty and/or not covered with algae, then it is referred to as 'Clean'. Post installation monitoring of all water points have been conducted. Clean environment was found in 98.24% of the total water points. It can be noted that due to the provision of basin type water points, water logging and or other problems related to dirty environment have been dramatically reduced than that observed during the environmental screening of other types of tube well installed in PEDP-3 program.

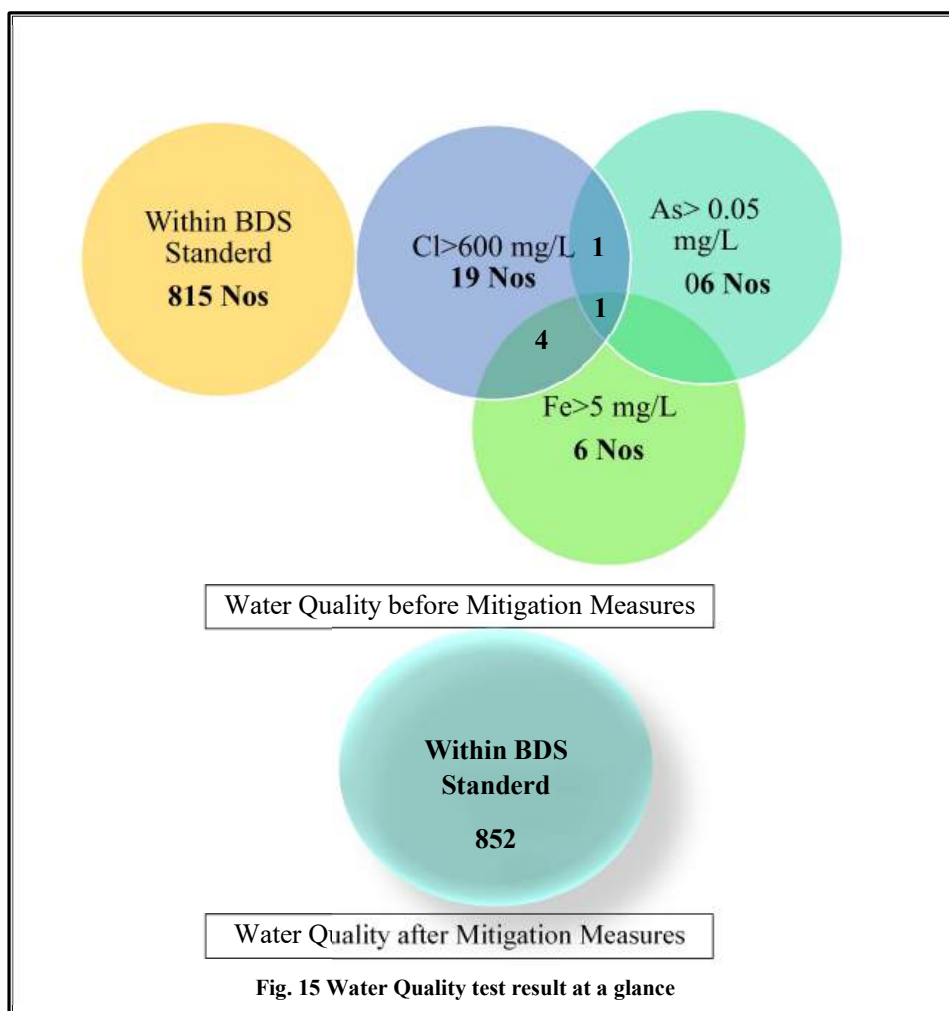
#### Mitigation Measures Suggested (MMS):

[34] During the monitoring phase, mitigation measures were suggested to the concerned school such as cleaning of basin, removal of leaves and other utensils that causes blockage of the drains etc. Because of taking mitigation measures along with caretakers' training during commissioning and trial run and routine maintenance during monitoring phase, environment of water supply facility improves to 100% from 98.24%.

### 10.9 Water Quality test in Laboratory

#### Water testing facilities in DPHE zonal laboratory:

[35] It is fact that DPHE has a permanent set up of 13 laboratory buildings including a central laboratory at Mahakhali, Dhaka. Recently, DPHE completed the set-up of 52 laboratory buildings in 52 districts which confirmed the establishment of zonal laboratories in all districts to expedite the water quality monitoring. These newly established laboratories are equipped with modern machinery so that all relevant water quality parameters can be monitored.



[36] It can be noted that water samples of all the installed water sources (852) were taken by lab technicians during the reporting tenure and water was tested for different chemical and physical contamination such as arsenic (As), Chloride (Cl) and Iron (Fe). The water quality test results are shown in Fig. 15. A sample copy of the water test result is provided in Appendix-3. It can be seen from Fig. 15 that a total of 37 water sources were found to have high Arsenic, Iron, and chloride concentration water. 13 of which are located in Jhalokathi, 04 of which are located in Jhenaidaha, 10 of which are located in Satkhira, and the rest 10 are located in Noakhali district. The water quality test report for all 37 unacceptable water sources is shown in Appendix-6. A summary of the water quality monitoring report is provided in Table 8.

As detailed in Figure 15, among the contaminated sources:

- 06 water sources showed high arsenic concentrations.
- 06 sources had high iron concentrations.
- 19 sources was found to have high chloride levels.
- 06 water sources were identified with unique contamination profiles. Among these, 01 source was found to contain both chloride and arsenic, 01 source was contaminated with arsenic, iron, and chloride simultaneously, while the remaining 04 sources were contaminated with a combination of chloride and iron.

**Table 8: Summary of Water Quality Monitoring Result**

Sl. No.	District	Water Quality not Satisfactory				Remarks
		Total	Fe > 5mg/L	Cl > 600mg/L	As > 0.05mg/L	
1.	Jhalokathi	13	00	13	00	List of 'Not Satisfactory' water sources are given in Appendix-6 and Actions taken for the water sources where water quality is not satisfactory are listed in Table 1 of Appendix-6.
2.	Jhenaidah	04	00	00	04	
3.	Satkhira	10	01	08	03	
4.	Noakhali	10	10	04	01	
<b>Total =</b>		<b>37</b>	<b>11</b>	<b>25</b>	<b>08</b>	

\* 37 water sources have been found to be contaminated with Arsenic, Chloride, and Iron [For details please refer to Appendix 6] among them 08 water sources showed high arsenic, 11 sources had high iron, and 25 sources was found to have high chloride levels.

**Mitigation Measures suggested for water sources having unsatisfactory water quality results:**

[37] In cases where arsenic/iron/chloride is found beyond allowable BDS standard in installed water sources, DPHE adopts other approved alternate water options. DPHE goes for options like deep tube well of greater depth, ring well, pond sand filter, rain water harvesting, Reverse Osmosis Filter, AIRP, Small box type AIRP etc. whichever is feasible. In some cases, if all the options in hand fails, i.e., boring in greater depth becomes impossible, arsenic is found even in deep tube well and none other option is feasible, DPHE has started implementing 'SONO Filter' as well. DPHE upazilla offices will arrange and install the said filter in those water sources whichever is feasible, convenient, and justified. In addition, water from those sources will be further tested and declared safe if found well below the BDS standard of drinking water. Fig. 16 shows some of the suggested filtration technologies. Pictures of the RO filter is shown in Appendix-15.



**Fig. 16 Different Suggested Improved Filtration Technologies**

[38] It is fact that, in the reporting tenure a total of 37 water sources were found to have water quality concerns with excessive arsenic, chloride, and iron. For all the said 37 water points, Reverse Osmosis (RO) were installed and filtered water was tested in DPHE zonal Laboratories. The water sources were handed over to the respective schools once the water quality results were found satisfactory. Water quality test results are summarized in Table 1 of Appendix 6.

### 10.10 Routine Water Quality Monitoring

As per MoU signed in between DPE and DPHE in September 15, 2019, DPHE will conduct water quality monitoring of 65,000 water points installed earlier in PEDP-3 with an aim to provide arsenic free safe drinking water in the primary schools of Bangladesh. It has been decided that 90% of the tests will be conducted in field by utilizing field test kits for arsenic and the rest 10% will be conducted in DPHE zonal laboratory. Accordingly, DPHE received two separate lists from DPE totaling 40,000 water points (15,000 + 25,000) for monitoring. However, due to the COVID-19 pandemic and the subsequent closure of schools, field testing could not be conducted during the 2020–2021 financial year. Despite this, all test kits were procured and properly preserved by DPHE for future use. Following the reopening of schools, DPHE promptly initiated water quality screening activities. As of December 2024, DPHE has successfully completed arsenic field testing for 40,000 water points.

[39] In addition, as per the RDPP of September 2024, DPHE has started conducting water quality monitoring of 65,566 water points with the aim of providing arsenic, Iron, and chloride-free safe drinking water in the primary schools of Bangladesh. It has been decided that 100% of the tests will be conducted in the DPHE zonal laboratory. Among this, 15,566 water points have undergone water quality screening and the remaining 50,000 are currently under testing. It was found that out of 15,566 water points, 8.45% (1,316) had new arsenic, chloride, and iron contamination. Fig. 17 show Water Quality screening result at a glance.

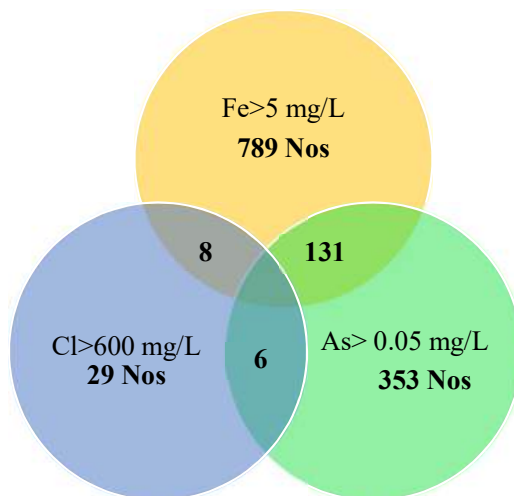


Fig. 17 Water Quality screening result at a glance

#### A. General Water Quality Tests

[40] Across Bangladesh, a total of 40,000 water samples were collected from the water sources installed in the government primary schools of Bangladesh. These water sources were primarily selected by the Directorate of Primary Education (DPE) from that installed in the previous program

(PEDP3) and those which have been installed at least a year before the adoption of new test protocol for arsenic. The collected water samples were analyzed for arsenic by employing both field kits (approx. 90%) and laboratory tests (approx. 10%). The results reveal that 1.69% (576 out of 40,000) of the samples tested positive for arsenic contamination (concentration higher than 50 ppb as per WHO/BDS guideline and ECR, 2023) with laboratory analyses identifying a higher prevalence (3.22%) compared to field kit assessments (1.54%). Division-wise distribution of total tests along with arsenic detection is provided in Appendix-6(A). This discrepancy underscores the enhanced sensitivity and accuracy of laboratory testing methods. Regionally, the Sylhet division exhibited the most significant contamination while, Rangpur and Barisal divisions reported no/less detectable contamination. These findings highlight a geographical disparity in arsenic presence, pointing to the necessity for localized intervention strategies which is currently being implemented by the department of Public Health Engineering (DPHE).

#### **B. School-Based Water Source Testing**

[41] The analysis of water sources in the primary schools revealed high arsenic levels in several districts. Notably, Sunamganj reported extreme contamination, with concentrations exceeding 3400 ppb in 1-3 schools. Other districts, including Sylhet, Brahmanbaria, and Comilla, displayed significant contamination levels, ranging from 100 to 500 ppb. Table as shown in Appendix-6(B) provides a detailed breakdown of arsenic concentrations across field kit and laboratory tests. It is evident from this table that most (74.4%) of the water sources being detected to have high arsenic concentration lies in the range of 50-100 ppb.

#### **10.11 Hand washing facility and Hygiene Promotion**

[42] Prior to the installation of water sources, hand washing of students before and after meals especially mid-day meal and after using the toilet was a matter of concern. As a result, students were more susceptible to diseases which triggered the absence of students from school. Besides these, newly constructed wash blocks with modern interior facilities will surely create enthusiasm among children for the best utilization of wash blocks. A glimpse of wash block facilities is shown in Fig 18.

##### Mitigation Measures Suggested (MMS):

[43] Working with the motto of 'clean hand, safe hand' DPHE confirmed the installation of tube wells with running water supply by the provision of submersible pumps in all the above-mentioned schools during the reporting tenure. The construction of a wash basin for hand washing (Fig.18) ensured total hand washing facilities in the school. Due to the global pandemic situation, although regular hygiene promotion activities could not be conducted yet monthly coordination meeting with DPE officials, TEO, ATEO, and Primary School Headmasters is an indication of the intensity of preparation for hygiene activities.



### 10.12 COVID-19 Reality, School Re-Opening, and New Normal

[44] Countries all over the world are trying new ways of softening or partially lifting COVID-19 related restrictions while keeping the virus progression in check. In this challenging time, the future of education depends on the provision of water, sanitation and hygiene services. So, Hygiene Promotion has been emerged as an issue of particular concern when considering reopening of schools.

[45] In order to confirm adequate hygiene practise, DPHE district and upazilla level officers monthly conduct sessions related to hygiene promotion activities with TEO, ATEO and Primary School Headmasters in the schools or DPHE district offices. All these activities put positive sign to the improvement of total environment. Prior to the re-opening of the schools DPHE district offices and Upazilla offices conducted disinfection of school premises and maintenance of wash blocks and water sources as and where required. Besides these all the construction activities regarding construction of wash blocks, maintenance of wash blocks and installation of water sources are constructed following the guidelines by Ministry of Local Government, Rural Development and Cooperatives.

### 10.13 Miscellaneous observations

[46] During the implementation phase, two basic standards for water sources were maintained.

- 1) Ensure at least a distance of 10m between water points and leach pit/soak well/ septic tank etc.
- 2) Ensure that the water collection basin is not clogged by paper, dry leaves, mud etc.

During monitoring phase, these options were found to be maintained properly.

### 10.14 Summary of observations

[47] The post installation monitoring of all 758 Wash Blocks and 852 water points confirmed no major concern or significant issues that can cause adverse environmental impact. Table 9 summarizes some other environmental issues observed during survey of Water points/ Wash Blocks.

**Table 9: Important environmental issues observed**

Issues/Environment Criteria	Findings from the Survey for all TWs	Findings from the Survey for all WBs
Is the TW installed?	Yes	Yes
Is the existing TW working?	Yes	Yes
Was the installed TW water tested?	Yes	Yes
Is Arsenic < 50 ppb?	Yes	Yes
Is Iron <1mg/l, for iron prone area up to 5 mg/l [Based on Water Quality Monitoring and Surveillance Protocol for Running Water Supply System in Bangladesh by DPHE, Appendix-8]	Yes	Yes
Is Cl ≤ 600 mg/l, for coastal areas up to 1000 mg/l [Based on Water Quality Monitoring and Surveillance Protocol for Running Water Supply System in Bangladesh by DPHE, Appendix-8]	Yes	Yes
Loss of agricultural land?	No	No
Negative effect on flora/fauna?	No	No
Conflicts with water supply, right?	No	No
Any potential health risks?	No	No
Is there a provision for separate toilets for males and females?	N/A	Yes
Is there provision for adequate ventilation?	N/A	Yes
Is there a provision for disabled children?	N/A	Yes

*Note: Only the particular water source that met the drinking water quality in the laboratory test is handed over to the primary school authority. DPHE preserves all the testing reports.*

### 10.15 Positive environmental impact

[48] The outcomes of the environmental screening as discussed in the previous subsections pointed out the achievement of following positive impacts through the implementation of revised EMF and SMF during the construction works under PEDP-4.

- 1) Regular WASH-related programs such as hygiene promotion through hand washing campaigns not only increased the personal safety of students but also spread the positive vibe in the surrounding society which is now the key lesson for the inhabitants to fight against COVID-19.
- 2) Through the assurance of contamination-free safe water sources in the said primary schools during the reporting tenure, a long-awaited demand was fulfilled which not only improved the health potential of users but also reduced the dropout rate.
- 3) Lessons learned from PEDP-3 helped in designing the type and structure of water sources with the provision of running water free from bacteriological contamination. This initiative dramatically reduced the problem of water logging and drainage which was encountered in PEDP-3.

A summary status of the environmental safeguard document is given in Table 10 while overall performance in relation to environmental compliance is given in Table 11. A pictorial document of the Environmental clearance certificate is shown in Appendix 14.

**Table 10:** Summary Status of Environmental Safeguard Documents

Type of safeguard document	Agency	Latest version	Coverage
Semi Annual Environmental Monitoring Report	DPHE	June /2025	January/2025 – June/2025
Maintenance Manual for Septic Tank	DPHE	October/2022	Till Date
National Standards of Water, Sanitation and Hygiene for Schools in Bangladesh	UNICEF	January/2011	Till Date
National Strategy for Water Supply and Sanitation	MoLGRD	June/2021	Till Date
Response to Covid-19 Outbreak Through Water, Sanitation and Hygiene Interventions	MoLGRD	June/2020	July/2020-June/2025
COVID-19 Exposure Prevention, Preparedness & Response Plan	DPHE	December/2020	Project Tenure
Site specific Environmental Management Plan (SEMP)	DPHE	December/2019	Project Tenure
Complain and sick register report	DPHE	December/2021	Project Tenure
OHS Plan	DPHE	December/2019	Project Tenure
Overall monitoring checklist	DPHE	December/2019	Project Tenure
Environment test report: included environmental monitoring, checklist, HSE monitoring	DPHE	December/2019	Project Tenure
National Menstrual Hygiene Management Strategy 2021	MoLGRD	June/2020	Till Date

**Table 11:** Overall performance in relation to environmental compliance

No.	Aspects of Environmental issues	Compliance Status			Remarks
		FC	PC	NC	
<b>A. General</b>					
1.	Legal working hours approval	✓			
2.	Employment Record keeping arrangement	✓			
3.	Payment Record keeping arrangement	✓			
4.	Environment, Health and Safety Officer designated	✓			
5.	Provision for monthly meeting for inspection of site activities	✓			
<b>B. Health and Sanitation</b>					
<b>Occupational Health</b>					
1.	First-Aid Box availability at work sites	✓			
2.	Provision of personal protection equipment's (PPEs)		✓		In some instances, it is difficult to avoid situations like use of mixture machine, vibrator machine etc. during construction by using PPEs.
3.	Handling of cement and other hazardous materials by workers	✓			
4.	Workers' complains taken care of by the supervisor	✓			
5.	Children below 18 employment (Not employed)	✓			
<b>C. Environmental Pollution</b>					
<b>Dust and emission control</b>					
1.	Construction vehicles and machinery are maintained properly to reduce emissions	✓			
2.	Proper storage of materials and regular watering.	✓			
<b>Noise Pollution</b>					
1.	Movement of vehicles at desired hours	✓			
2.	Noise control measures at sites	✓			
<b>Water Pollution</b>					
1.	Landfilling	✓			
2.	Wastes, cement, effluents, and junk not disposed of in water	✓			
<b>Flora and Fauna</b>					
1.	Trees and bushes outside the construction area are preserved from damages	✓			
2.	Disturbance to terrestrial fauna minimized	✓			
<b>Waste Management</b>					
1.	Construction wastes are removed off-site regularly	✓			
2.	Chemical wastes, if any, collected and disposed of properly	✓			
<b>D. Environmental documents at Field Office and Project sites</b>					
1.	Field Office possesses copies of EMP, contract documents, and Technical Specifications	✓			
2.	Heavy equipment maintenance records	✓			
<b>TOTAL =</b>		21	1	0	

**Table 12:** Corrective Action Plan (January/25-June/25)

Sl. No.	Initial Status	Recommended Corrective Action Measures	Responsibility	Due Date
1.	PC	Provision of Personal Protection equipment's (PPEs) at construction site to be ensured.	Contractors of DPHE.	By Dec/2025

## **11. Grievance redressal status**

[49] A comprehensive grievance redressal system has been developed to address any issues generated due to the construction of wash blocks and the installation of water sources in the primary schools. To address such issues, there is a designated GR committee in the DPHE Headquarter, the detail of which is given in Appendix-4. In addition, DG, and DPE issued a letter Vide Memo. 18; dated March 18, 2022, to follow the instructions as stated in the revised SMF. Since no complaints were raised from the concerned community, there was no written issue of grievance redressal during the reporting tenure. Photographs addressing of GRM issues at different sites are shown in Appendix-10.

[50] **Accessibility Improvements:** To ensure the effectiveness of the Grievance Redressal Mechanism (GRM) in schools, it is crucial to make it accessible to all students, parents, and teachers. The DPHE has implemented several measures to achieve this.

- A banner with clear instructions has been displayed on the existing school building walls, providing a dedicated contact number for sharing grievances via calls or messages. Additionally, arrangements have been made to ensure the availability of a designated contact person during school hours, while voicemail services are accessible at all times.
- To further support grievance collection, the DPHE has placed a GRM box at the District Executive Engineer's (EX-EN) office, allowing students, teachers, and others to submit written complaints. However, despite these efforts, no grievances have yet been recorded in the official records.

[51] **Proactive Information Sharing:** Proactive information sharing is a vital aspect of efficient Grievance Redress Mechanism (GRM) systems in schools. Before finalizing the payment for each wash block construction project, school teachers are consulted regarding any complaints they might have. If any issues are raised, they are documented, and immediate steps are taken to resolve them. Once the problem is resolved and a certificate signed by the school authorities is obtained, the payment is processed. This procedure is consistently applied to every school.

## 12. Compliance Status to ADB Loan Covenants

The compliance status of ADB loan covenants relevant to environmental safeguards is listed in Table 13.

**Table 13 Compliance with ADB Loan Covenants**

Serial no. as per Loan Agreement	Program Specific Covenants	Compliance Status	Remarks
Schedule 4	10	Complied	Semi-Annual environmental and social safeguards are implemented based on revised EMF/SMF.
	11 (a)	Complied	Through the comprehensive screening, it was confirmed that no adverse environmental impact as related to category A under the SPS was found.
Schedule 4	11 (b)	Complied	The applicable laws, regulations, and guidelines related to the H&S and Environmental safeguard were strictly adhered.
	12	Complied	No resettlement risks were involved since the construction of wash blocks and water sources was conducted in the location owned by the primary schools.
	13	Complied	No negative risks or impacts on tribes or minor races, ethnic sects, and communities were reported through the comprehensive environmental and social safeguard screening.

## 13. Implementation Status of CAP recommended in aide memoire

[52] The implementation status of CAP recommended in the comprehensive aid memoire is listed in Table 14.

**Table 14 Implementation Status of CAP recommended in aide memoire**

Sl. No.	Recommended Corrective Action Measures [Recommendations were made in Aide memoire]	Implementation Status
1	All tube wells that have been built for more than one year are to be screened annually by DPHE for water quality and physical status of tube wells to ensure fixture damaged/choked up tube wells and where water quality parameters	DPHE completed the screening of 40,000 water points by December/2024 and currently undertaking the screening of another 65,566 water points. Among this, 15,566 water points have undergone water quality screening and the remaining 50,000 are currently under testing. Please refer to section 10.10 for details.
2	The mission advised DPHE to take the initiative for water treatment if deep tube wells are found contaminated with arsenic.	As mentioned in Table 6 of section 10.9, 37 water sources were found to have arsenic, chloride, and iron contamination during the reporting tenure. It can be seen from Table 1 of Appendix 7 that water treatment facilities were provided in those arsenic, iron, and chloride-contaminated water sources.
3	The mission also advised DPHE to consider soak pits to mitigate water stagnation around the tube well platforms.	As mentioned in section 9.7 (2), 5 ring soak wells were installed to drain out basin water where the surface drain is absent.

**14. Monitoring progress report**

[53] It is a fact that an environmental screening report is related to the monitoring of the implementation progress of environmental and social management plans. During the planning stage, all possible environmental and social safeguard issues are forecasted and related mitigation plans are included in the related contract packages. Issues related to EMP and SMP are clearly indicated in the 'Particular Conditions of Tender and Contract for Water Sources/ Wash Blocks' which is provided by default as a part of the tender and contract. The following table shows the monitoring progress report of EMP during the reporting tenure.

Table 15 EMP progress monitoring

Monitoring Criteria	FY-18-19	FY-19-20	FY-20-21	FY-21-22	FY-22-23	FY-23-24	FY-24-25	July'24-Dec 24	Jan'25 - Jun'25	Cumulative	Comment	Compliance Status
No. of contracts that incorporated environmental clause	73/73	28/28	1251/1251	597/597	628/628	1272/1272	857/857	546/546	311/311	4706/4706	During tendering, environmental clauses were included which became part of contract	Complied
Funds utilized for addressing safeguards	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Currently, there is no fund provision in RDPP in favor of DPHE for addressing safeguard. However, DPHE has engaged and Environmental and Social Safeguard specialist from its own fund.	N/A
No of schools having dirty environment around water source	6/331	4/240	54/470	88/3027	115/5276	48/2,056	38/2112	24/1,260	14/852	353/17,112	Lac of routine cleanliness caused dirty environment which was mitigated in all 353 schools.	Complied
Schools with drainage congestion identified and solved	2/331	2/240	28/470	16/3027	59/5276	26/2,056	37/2112	22/1,260	15/852	170/17,112	Blockage in the drainage system caused drainage congestion which was mitigated in all 170 schools.	Complied
No. of water points having problem with quality of water	0/331	8/240	57/470	66/3027	67/5276	81/2,056	58/2112	48/1,260	37/852	364/17,112	Alternate option such as RO Filter was used which mitigated the water quality problem in all 364 schools.	Complied

## 15. Key learnings, Major challenges and Overcome strategy

[54] Constructing WASH blocks at primary schools is essential for ensuring a healthy learning environment. However, the process involves several key learnings, challenges, and strategies to overcome obstacles effectively. The following table shows the Key learnings, Major challenges, and Overcome strategy.

Table 16 Key learnings, Major challenges, Overcome strategy

Sl.	Key learnings	Major challenges	Overcome strategy
1	Community people and students are getting benefit from different schools infrastructures such as class rooms, wash blocks, water sources etc.	Dispute resolution and minimization of social stigma especially during the layout of WASH infrastructures.	A collaborative approach that includes local authorities, school management, and community members ensures that the facilities are accepted, used, and maintained in the long run.
2	Regular cleaning schedules were not consistently followed, leading to unhygienic conditions. Lack of a clear maintenance plan affected the long-term functionality of water sources.	Lack of routine cleanliness of wash blocks. Lack of routine maintenance of water points such as change of submersible pump, bucket for hand pump etc.	Regular cleaning is required to keep them usable along with budget provision for smooth functionality. Ensure adequate budget allocation for repairs and replacement of essential components.
3	A total of 676 out of 40,000 tested water points were found to have contamination, highlighting the need for continuous water quality monitoring.	New contamination in drinking water detected (676 out of 40,000 detected and actions taken).	Arsenic mitigation measures such as AIRP (Arsenic Iron Removal Plant), RO (Reverse Osmosis) etc. are being used.
4	Regular cleaning of the septic tank is mandatory to keep it operational.	The solid and liquid waste is not being disposed of in an environmentally safe and friendly manner.	Provision for school level waste management (both solid and fecal) should be introduced.
5	Unresolved concerns can exacerbate, potentially WASH block project's sustainability and stakeholder confidence.	Without a structured GRM, inter-departmental coordination suffers, and delaying resolution processes.	Engage stakeholders in designing the GRM and ensure multiple accessible channels to solutions.
6	Stakeholders' coordination ensures a safe and stable context, especially in the COVID-19 pandemic.	Projects faced material shortages, material price fluctuations, labor shortages, and uncertain communication systems.	Establish COVID protocols (sanitizer stations, PPE, maintain safe distance) and worked with local resources ( materials, and labourers).

By applying these learnings and strategies, schools can ensure that WASH blocks remain functional, hygienic, and beneficial for students in the long run.

## 16. Conclusions

[55] This study investigates the environmental safeguard concerns during the implementation of wash blocks, water points, and major maintenance of wash blocks based on the approved EMF guidelines for PEDP-4. This report has presented potential environmental impacts associated with the pre-construction, construction, and operation phases of the project. The environmental monitoring screening confirmed ***no significant instances or issues*** that may hamper or influence environmental safety during the reporting tenure. Being an implementing agency DPHE would like to uphold this status in its ongoing and upcoming works related to infrastructure development.

## 17. The project website link of the approved safeguards documents.

<https://www.dpe.gov.bd/site/publications/5fe9428c-d439-4f12-aece-34a9f8a1f869/Semi-ann-Env-Combined-Monitoring-Report-X-July-2024---December-2024>

<https://www.dpe.gov.bd/site/publications/e4511a1f-0596-44d4-b197-0e902de10c98/Semi-ann-Env-Combined-Monitoring-Report-X-Jan-June-2024->

<https://www.dpe.gov.bd/site/publications/3ab5914a-535e-4cee-a33c-9eedf62552ec/DPHE-EMR-July-to-December-2023>

<https://www.dpe.gov.bd/site/publications/78f7f04e-0e18-4468-b7a1-7112e7c489f6/Semi-annual-Environmental-Monitoring-Report-January-June-2023-DPHE>

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/feb723b8\\_6b64\\_40c9\\_be2b\\_facf745636c3/DPHE\\_Revised%20EMR\\_July\\_December\\_2021.pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/feb723b8_6b64_40c9_be2b_facf745636c3/DPHE_Revised%20EMR_July_December_2021.pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/ff2fff98\\_fcfb\\_4e4a\\_8679\\_6ac5181bcae3/DPHE\\_Environmental%20Monitoring%20Final%20%20Report.pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/ff2fff98_fcfb_4e4a_8679_6ac5181bcae3/DPHE_Environmental%20Monitoring%20Final%20%20Report.pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/ff2fff98\\_fcfb\\_4e4a\\_8679\\_6ac5181bcae3/DPHE\\_Environmental%20Monitoring%20Final%20%20Report.pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/ff2fff98_fcfb_4e4a_8679_6ac5181bcae3/DPHE_Environmental%20Monitoring%20Final%20%20Report.pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/feb723b8\\_6b64\\_40c9\\_be2b\\_facf745636c3/DPHE\\_Revised%20EMR\\_July\\_December\\_2021.pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/feb723b8_6b64_40c9_be2b_facf745636c3/DPHE_Revised%20EMR_July_December_2021.pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/feb723b8\\_6b64\\_40c9\\_be2b\\_facf745636c3/DPHE\\_Revised%20EMR\\_July\\_December\\_2021.pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/feb723b8_6b64_40c9_be2b_facf745636c3/DPHE_Revised%20EMR_July_December_2021.pdf)

[https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/30c05f77\\_6ada\\_40ea\\_a122\\_2429ec4a0087/DPHE\\_%20EMR\\_%20July%20to%20Dec%202020.pdf](https://www.dpe.gov.bd/sites/default/files/files/dpe.portal.gov.bd/publications/30c05f77_6ada_40ea_a122_2429ec4a0087/DPHE_%20EMR_%20July%20to%20Dec%202020.pdf)

<https://www.dpe.gov.bd/site/publications/66e6b5f5-fdb1-4a43-a94b-449c8f886e1c/DPHE-EMR-Janu---June2020>

<https://www.dpe.gov.bd/site/publications/87385972-cc40-4320-8836-84d53d6c6935/Biannual-Environment-Management-Report-DPHE---December-2019>

**Appendix-1: Sample Environmental Screening for Wash Block**

**Environmental Screening Format under Primary Education Unit for Wash Block**

Name of The Project: Fourth Primary Education Development Program (PEDP-4)  
 District: Bagerhat  
 Upazilla: Rampal  
 Name of School: Pitty Community Govt Primary School  
 School ID: 99210089207  
 School Type: Attached Type of Wash Block: Case-5

Screening Questions	Base Line	Impact without Intervention	Impact during Implementation		Impact after Implementation		Remarks
	Yes/No		0/+/-/N/A	0/+/-/N/A	Date of Visit	0/+/-/N/A	
Environment of Existing Facility Good?	Yes	0	0	29.05.23	+	27.10.24	
Facilities for Draining out of Water Proper?	Yes	0	0	29.05.23	0	27.10.24	
Any Reported Event of Spread of Pathogens?	No	0	0	29.05.23	0	27.10.24	
No of Existing Toilet Adequate?	No	-	+	29.05.23	+	27.10.24	
Disposal of faecal waste safe?	Yes	0	0	29.05.23	+	27.10.24	
Disposal of liquid waste safe?	Yes	0	0	29.05.23	+	27.10.24	
Availability of Hand washing Facility?	No	N/A	N/A	29.05.23	+	27.10.24	
Availability of Foot washing Facility?	Yes	0	0	29.05.23	+	27.10.24	
Availability of Running water Supply?	Yes	+	+	29.05.23	+	27.10.24	
Height of Wash Blocks Appropriate?	No	N/A	N/A	29.05.23	+	27.10.24	
Any Loss of Agricultural Land?	No	0	0	29.05.23	0	27.10.24	
Any Negative effect on flora/ fauna?	No	N/A	N/A	29.05.23	+	27.10.24	
Any provision for disabled?	Yes	0	0	29.05.23	+	27.10.24	
Is the Wash Block user friendly?	Yes	N/A	N/A	29.05.23	+	27.10.24	
Any negative effect on ecosystem?	No	0	0	29.05.23	0	27.10.24	

  
 Signature of SAE  
 জালাল হোসেন  
 উপ-সহকারী প্রকৌশলী  
 পানি ও স্বাস্থ্য প্রকৌশল অধিদপ্তর  
 রামপাল, বাগেরহাট।

Signature of AE

  
 Signature of Executive Engineer  
 জয়ন্ত মল্লিক  
 নির্বাহী প্রকৌশলী  
 জনস্বাস্থ্য প্রকৌশল অধিদপ্তর, বাগেরহাট।  
 ২০/১০/২৩

Appendix-2: Sample Environmental Screening for Water Sources

**Environmental Screening Report for Water Sources**

District: Satkhira  
 Upazilla: সাতক্ষীরা সদর  
 Name of School: সাতক্ষীরা সরকারি পাবনা বিদ্যালয়  
 School ID: ৯৩২৬৮০৭০৮০৩  
 Type of Water Source: TSP

Screening Questions	Base Line		Impact Without Intervention			Impact During Implementation			Impact after Implementation			Remarks
	Yes	No	+	-	N/A	+	-	N/A	+	-	N/A	
Any Source of existing drinking water?		No			N/A			N/A	+			
Environment of water supply facility good?		No			N/A			N/A	+			
Facilities for draining out of water proper?		No			N/A			N/A	+			
Any reported event of sickness?		No			N/A			N/A	+			
Is the existing TW working?		No			N/A			N/A	+			
Was the water quality tested?	Yes				N/A			N/A	+			
Are there provisions for water collection basin?		No			N/A			N/A	+			
Any concern about water quality?	Yes				N/A			N/A	+			
Is there provisions for RO filter?		No			N/A			N/A	+			
Any health risk associated?		No			N/A			N/A	+			
Distance of existing water source from Soak Well > 10m	Yes				N/A			N/A	+			
Height & location of new water source appropriate?	Yes				N/A			N/A	+			
Any loss of agricultural land?		No			N/A			N/A	+			
Any negative effect on flora/fauna?		No			N/A			N/A	+			
Any conflicts with water supply right?		No			N/A			N/A	+			

Signature of SAE: *[Signature]*  
 (স্বঃ) সাতক্ষীরা জাতীয় সড়ক  
 উপ-সহকারী প্রকৌশল  
 জনস্বাস্থ্য প্রকৌশল বিভাগ  
 সদর উপজেলা, সাতক্ষীরা।

Signature of AE: \_\_\_\_\_

Signature of Executive Engineer: *[Signature]*  
 (স্বঃ) শাহিদুল ইসলাম  
 সিনিয়র প্রকৌশল কর্মকর্তা  
 সাতক্ষীরা জেলা, সাতক্ষীরা।

**Appendix-3: Sample water quality monitoring by DPHE zonal Lab**



Government of the People's Republic of Bangladesh  
Office of the Senior Chemist,  
Department of Public Health Engineering  
Khan Jahan Ali Road, Rupsha, Khulna.  
Phone : 041-721348, Fax: e-mail : wqmsc\_khulnazonalab@yahoo.com



Memo No: 46.03.4700.106.16.001.24-738

Date: 16/02/2025

**Water Test Report of PEDP-4 Project**

Executive Engineer Memo No-46.03.8700.061.07.W-13.23 (ID-839016)-832, Date: 02/02/2025

Name of Contractor: Upama International Package No:PEDP-4/TW-361, Work Order No:137, Date: 09/08/2023

Sl. No.	District	Upazila	Village	School ID	Type of School	Water Point		Name of School	GPS	Water Quality					Remarks
						Type	Depth (m)			Sand	Clear	As (mg/L)	Fe (mg/L)	Cl (mg/L)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Satkhira	Debhata	Basantapur	91208050505	1	RO	-	Basantapur Govt. Primary School	N: 22°32'57" E: 88°57'52"	Free	Clear	-	-	165	
2	Satkhira	Debhata	Chinadanga	91208050305	1	RO	-	Chinadanga Govt. Primary School	N: 22°34'14" E: 88°58'32"	Free	Clear	0.005	-	-	
3	Satkhira	Debhata	Debisahar	91208050410	1	RO	-	Debisahar Govt. Primary School	N: 22°32'53" E: 89°01'13"	Free	Clear	0.007	-	125	
4	Satkhira	Debhata	Ghalghalia	91208050503	1	RO	-	Ghalghalia Govt. Primary School	N: 22°35'30" E: 88°57'18"	Free	Clear	0.001	-	-	
5	Satkhira	Debhata	Ghona Para	91208050402	1	RO	-	Ghona Para Govt. Primary School	N: 22°32'15" E: 88°58'38"	Free	Clear	-	-	115	
6	Satkhira	Debhata	Nangla	99208050401	1	RO	-	Nangla Uttar Noapara Govt. Primary School	N: 22°31'47" E: 88°58'56"	Free	Clear	-	0.37	90	
7	Satkhira	Debhata	Noapara	91208050401	1	RO	-	Noapara Govt. Primary School	N: 22°31'04" E: 88°58'38"	Free	Clear	-	-	100	
8	Satkhira	Debhata	Shimulia	91208050405	1	RO	-	Shimulia Govt. Primary School	N: 22°33'25" E: 89°00'25"	Free	Clear	-	-	210	
9	Satkhira	Debhata	Gopakhal	99208050501	1	RO	-	Gopakhal Rahimpur Govt. Primary School	N: 22°35'04" E: 88°57'04"	Free	Clear	-	-	125	
10	Satkhira	Debhata	Jagannathpur	91208050408	1	RO	-	Jagannathpur Govt. Primary School	N: 22°33'43" E: 89°02'59"	Free	Clear	-	-	190	

Collected by

Analysis by

Approved by

26/02/2025  
Dr. Md. Anisur Rehman  
Senior Chemist, DPHE  
Zonal Laboratory, Khulna.

16.02.25  
(Dipanker Bhattacharjee)  
Sample Analyst, DPHE  
Zonal Laboratory, Khulna

16.02.25  
Md. Jafar Iqbal  
Sample Collector, DPHE  
Zonal Laboratory, Khulna

**Appendix-4: Grievance Redressal Committee of DPHE.**

অনিক ও আপিল কর্মকর্তা

নাম : জনাব এহতেশামুল রাসেল খান পদবী: তত্ত্বাবধায়ক প্রকৌশলী ফিজিবিলিটি স্টাডি এন্ড ডিজাইন সার্কেল) জনস্বাস্থ্য প্রকৌশল অধিদপ্তর, ঢাকা। ফোনঃ +৮৮ ০১৫৫৬৩৭৭৩২০ মোবাইল :+৮৮ ০১৫৫৬৩৭৭৩২০ ইমেইলঃ se.fsdc@dphe.gov.bd	অভিযোগ নিষ্পত্তি কর্মকর্তা ( অনিক ) <u>অফিস আদেশ</u>
নাম: জনাব এ এইচ এম খালেকুর রহমান পদবী: তত্ত্বাবধায়ক প্রকৌশলী ভান্ডার সার্কেল, ঢাকা ফোনঃ +৮৮ মোবাইল :+৮৮ ০১৯২১০৮৩০৯৩ ইমেইলঃ se.store@dphe.gov.bd sedphe_store@yahoo.com	বিকল্প অভিযোগ নিষ্পত্তি কর্মকর্তা ( বিকল্প অনিক ) <u>অফিস আদেশ</u>
নামঃ জনাব মোহাম্মদ সাইফুল ইসলাম মজুমদার পদবিঃ যুগ্মসচিব (পলিসি সাপোর্ট অধিশাখা) ই-মেইলঃ psbr@lgd.gov.bd মোবাইলঃ ০১৭১৬১৪৭০৫৬ ফোন (অফিস) ০২৫৫১০০৮৭২	আপিল কর্মকর্তা

Appendix-5: Photographs addressing of GRM issues at different sites



## Appendix-6: Water Quality Report of Unacceptable Water Sources

### A. Division-wise Total Tests along with Arsenic Detection

Division	Test conducted by Field Kit		Test conducted at Laboratory		Grand Total	
	Total	Arsenic found	Total	Arsenic found	Total	Arsenic found
Barisal	2913	0	290	0	3203	0
Chattogram	6475	329	640	5	7115	334
Dhaka	6183	102	612	0	6795	102
Khulna	3677	57	364	22	4041	79
Mymensingh	3649	0	361	4	4010	4
Rajshahi	4692	17	465	0	5157	17
Rangpur	6656	0	659	0	7315	0
Sylhet	2152	55	212	85	2364	140
Total=	36397	560 (1.54%)	3603	116 (3.22%)	40000	676 (1.69%)

### B. Arsenic Concentration Distribution

Arsenic Level (ppb)	No. of Water Sources Laboratory		
	Field Kit	Laboratory	Total
50-100	431	73	504
101-150	9	19	28
151-200	4	2	6
201-250	100	1	101
251-500	16	1	17
501-1000	0	7	7
1001-2000	0	8	8
2001-4000	0	5	5
Total=	560	116	676

Government of the People's Republic of Bangladesh  
Office of the Senior Chemist  
Department of Public Health Engineering (DPHE)  
Zonal Laboratory, Shahidi Masjur Rahman Road, Jhenaidah.  
Phone: 02479946165, Email: wqpsc\_jhenaidahzonalab@yahoo.com



**Water Test Report for PEDP-4 Project**

Work order No. 46.03.4400.061.20.060.20-486, date : 28/12/2023

Package No. : PEDP-4-TW-511

Contactor : M/S. Munshi Traders, Jhenaidah.

Sl. No.	District	Upazilla	Village	School ID	Water Point		Name Of School	GPS Reading			Water Quality				Remarks
					Type	Depth (M)		Latitude	Longitude	Sand	Clear	As (mg/L)	Fe (mg/L)		
1	Jhenaidah	Kaligonj	Banuria	204010608	DTSP	131.00	Banuria Govt. Primary School	N: 23°22'06.94"	E: 89°04'39.47"	Free	Clear	0.014	3.39		
2	Jhenaidah	Kaligonj	Shasharpura	204010806	DTSP	136.00	Shasharpura Govt. Primary School	N: 23°20'03.01"	E: 89°14'34.26"	Free	Clear	0.073	2.16		
3	Jhenaidah	Kaligonj	Baro Talian	204010201	DTSP	136.00	Baro Talian Govt. Primary School	N: 23°25'28.48"	E: 89°13'48.40"	Free	Clear	0.015	1.42		
4	Jhenaidah	Kaligonj	Damodorpur	204010311	DTSP	134.00	Damodorpur Govt. Primary School	N: 23°20'48.94"	E: 89°14'23.84"	Free	Clear	0.030	2.39		
5	Jhenaidah	Kaligonj	Kadiranga	204011583	DTSP	128.00	DK Govt. Primary School	N: 23°23'58.71"	E: 89°12'19.44"	Free	Clear	0.012	3.20		
6	Jhenaidah	Kaligonj	Dudrajpur	204010301	DTSP	139.00	Dudrajpur Govt. Primary School	N: 23°25'22.72"	E: 89°11'08.62"	Free	Clear	0.015	2.27		
7	Jhenaidah	Kaligonj	Fariadkathi	204019011	DTSP	114.00	Fariadkathi Debrajpur Govt. Primary School	N: 23°20'07.68"	E: 89°11'03.43"	Free	Clear	0.015	3.02		
8	Jhenaidah	Kaligonj	Ullah	204010201	DTSP	134.00	Ullah Govt. Primary School	N: 23°25'05.95"	E: 89°12'47.10"	Free	Clear	0.001	1.87		
9	Jhenaidah	Kaligonj	Bethuli	204019003	DTSP	139.00	Bethuli Govt. Primary School	N: 23°21'59.63"	E: 89°12'17.58"	Free	Clear	0.021	4.74		
10	Jhenaidah	Kaligonj	Anupampur	204010401	DTSP	134.00	H. A. Govt. Primary School	N: 23°22'48.49"	E: 89°10'42.50"	Free	Clear	0.029	3.02		
11	Jhenaidah	Kaligonj	Huda Dawai	204010202	DTSP	142.00	Huda Dawai Govt. Primary School	N: 23°26'03.47"	E: 89°13'30.00"	Free	Clear	0.002	2.92		
12	Jhenaidah	Kaligonj	Bakulia	204011585	DTSP	128.00	Johura Khatoon Govt. Primary School	N: 23°25'25.46"	E: 89°08'11.76"	Free	Clear	0.015	2.38		
13	Jhenaidah	Kaligonj	Magur Khirdida	204010706	DTSP	104.00	Magur Khirdida Govt. Primary School	N: 23°22'15.00"	E: 89°09'22.50"	Free	Clear	0.016	4.15		
14	Jhenaidah	Kaligonj	Malyat	204010906	DTSP	122.00	Malyat Govt. Primary School	N: 23°17'44.59"	E: 89°11'01.04"	Free	Clear	0.077	2.41		
15	Jhenaidah	Kaligonj	Malyat	204010805	DTSP	137.00	Malyat Govt. Primary School	N: 23°20'38.05"	E: 89°12'49.45"	Free	Clear	0.029	1.40		
16	Jhenaidah	Kaligonj	Barodawai	204010204	DTSP	133.00	Nakobaria Barodawai Govt. Primary School	N: 23°25'09.67"	E: 89°13'28.09"	Free	Clear	0.009	1.34		
17	Jhenaidah	Kaligonj	Shatbaria	204010808	DTSP	131.00	S.B.G.M. Govt. Primary School	N: 23°21'40.94"	E: 89°11'51.75"	Free	Clear	0.025	3.90		
18	Jhenaidah	Kaligonj	Samsernagar	204019301	DTSP	129.00	Samsernagar Model Govt. Primary School	N: 23°18'41.88"	E: 89°07'30.96"	Free	Clear	0.014	2.77		

Note : 805 (Bangladesh Drinking Standard) : As = 0.05 mg/L, Fe = 0.3-1.0 mg/L

Sample Collected by:

*(Signature)*  
19.05.2024

Md. Nazrul Islam  
Junior Chemist  
DPHE, Zonal Lab, Jhenaidah.

Sample Analyzed by:

*(Signature)*  
19.05.2024

Md. Moniruzzaman  
Sample Analyzer  
DPHE, Zonal Lab, Jhenaidah.

CounterSigned/Approved by:

*(Signature)*  
19.05.2024

Md. Nazrul Islam  
Junior Chemist  
DPHE, Zonal Lab, Jhenaidah.

(যাঃ আঃ কঃ লঃ পঃ এঃ)  
নির্বাহী প্রকৌশলী  
জনস্বাস্থ্য প্রকৌশল অধিদপ্তর  
সিনিয়র ল্যাব, জৈনাইদাহ

**Water Test Report for PEDP-4 Project**

Sl. No.	District	Upazilla	Village	School ID	Water Point		Name of School	GPS Reading			Water Quality				Remarks
					Type	Depth (M)		Latitude	Longitude	Sand	Clear	As (mg/L)	Fe (mg/L)		
19	Jhenaidah	Kaligonj	Shasarpura	204010803	DTSP	136.00	Shasarpura Viakhola Govt. Primary School	N: 23°20'21.56"	E: 89°14'05.46"	11	12	13	14	15	
20	Jhenaidah	Kaligonj	Sarabaria	204010305	DTSP	117.00	Sarabaria Ramchandrapur Natun Bazar Govt. Primary School	N: 23°26'31.14"	E: 89°07'22.55"	Free	Clear	0.031	2.51		
21	Jhenaidah	Kaligonj	Durgapur	204010111	DTSP	130.00	Durgapur Govt. Primary School	N: 23°25'58.69"	E: 89°05'55.64"	Free	Clear	0.026	2.86		
22	Jhenaidah	Kaligonj	Singdaha	204010103	DTSP	128.00	Singdaha Govt. Primary School	N: 23°22'52.02"	E: 89°09'23.95"	Free	Clear	0.029	4.00		
23	Jhenaidah	Kaligonj	Singi	204010712	DTSP	107.00	Singi Govt. Primary School	N: 23°19'09.80"	E: 89°10'43.46"	Free	Clear	0.014	2.23		
24	Jhenaidah	Kaligonj	Sonaidanga	204010904	DTSP	127.00	Sonaidanga Govt. Primary School	N: 23°24'50.47"	E: 89°10'50.51"	Free	Clear	0.024	2.47		
25	Jhenaidah	Kaligonj	Gopalpur	204010212	DTSP	133.00	Gopalpur Govt. Primary School	N: 23°23'41.53"	E: 89°12'45.29"	Free	Clear	0.016	1.49		
26	Jhenaidah	Kaligonj	Kamalhat	204010309	DTSP	139.00	Kamalhat Govt. Primary School	N: 23°24'21.98"	E: 89°08'16.21"	Free	Clear	0.020	2.87		
27	Jhenaidah	Kaligonj	Nischintopur	204011203	DTSP	137.00	Nischintopur Govt. Primary School	N: 23°24'07.39"	E: 89°06'19.15"	Free	Clear	0.018	4.37		
28	Jhenaidah	Kaligonj	Ishwarba	204019302	DTSP	128.00	Ishwarba Govt. Primary School	N: 23°20'45.56"	E: 89°10'51.94"	Free	Clear	0.018	2.43		
29	Jhenaidah	Kaligonj	Ektarpur	204010704	DTSP	90.00	Ektarpur Govt. Primary School	N: 23°17'09.10"	E: 89°06'45.67"	Free	Clear	0.034	3.19		
30	Jhenaidah	Kaligonj	Kastovang	204011001	DTSP	129.00	Kastovang Govt. Primary School	N: 23°23'06.07"	E: 89°07'18.16"	Free	Clear	0.020	2.18		
31	Jhenaidah	Kaligonj	Babra	204010701	DTSP	127.00	Babra Govt. Primary School	N: 23°24'40.28"	E: 89°08'27.71"	Free	Clear	0.027	2.74		
32	Jhenaidah	Kaligonj	Fajla, W-03	204011205	DTSP	120.00	Kaligonj Govt. Primary School	N: 23°21'03.04"	E: 89°12'48.33"	Free	Clear	0.031	2.53		
33	Jhenaidah	Kaligonj	Goyaspur	204010802	DTSP	138.00	Goyaspur Govt. Primary School	N: 23°20'37.28"	E: 89°11'10.98"	Free	Clear	0.031	1.73		
34	Jhenaidah	Kaligonj	Kanglash	204010304	DTSP	128.00	Kanglash Govt. Primary School	N: 23°24'37.31"	E: 89°12'03.13"	Free	Clear	0.022	2.26		

Note > BGS (Bangladesh Drinking Standard): As = 0.05 mg/L, Fe = 0.3-1.0 mg/L.

Sample Collected by:

Sample Analyzed by:

Countersigned/Approved by:

*[Signature]*

Md. Nazrul Islam  
Junior Chemist  
DPHE, Zonal Lab, Jhenaidah.

*[Signature]*

Md. Moniruzzaman  
Sample Analyzer  
DPHE, Zonal Lab, Jhenaidah.

*[Signature]*

Md. Nazrul Islam  
Junior Chemist  
DPHE, Zonal Lab, Jhenaidah.

(স্বাক্ষরিত/স্বাক্ষরিত)  
জাতীয় পরিদপ্তর  
জাতীয় পরিদপ্তর, জেনাইদাহ


Government of the People's Republic of Bangladesh  
 Office of the Senior Chemist  
 Department of Public Health Engineering (DPHE)  
 Zonal Laboratory, Shahid Masur Rahman Road, Jhenaidah.  
 Phone: 02479946165, Email: wqmsc\_jhenaidahzonalab@yahoo.com

**Water Test Report for PEDP-4 Project**

Work order No. 46.03.4400.061.20.060.20-486, date : 28/12/2023 Package No. : PEDP-4/TW-511 Contactor : M/S. Munshi Traders, Jhenaidah.

Sl. No.	District	Upazilla	Village	School ID	Water Point		Name Of School	GPS Reading		Water Quality				Remarks
					Type	Depth (M)		Latitude	Longitude	Sand	Clear	As (mg/L)		
1	Jhenaidah	Kaligongi	Mazdia	204010906	RO Filter	7	Mazdia Govt. Primary School	N: 23°17'44.59"	E: 89°11'01.04"	Free	Clear	0.033		
2	Jhenaidah	Kaligongi	Kastovanga	204011001	RO Filter		Kastovanga Govt. Primary School	N: 23°17'09.10"	E: 89°06'45.67"	Free	Clear	0.003		
3	Jhenaidah	Kaligongi	Khonkadanga	204010903	RO Filter		Khonkadanga Govt. Primary School	N: 23°22'03.04"	E: 89°12'48.32"	Free	Clear	0.001		
4	Jhenaidah	Kaligongi	Shasharpura	204010806	RO Filter		Shasharpura Govt. Primary School	N: 23°20'03.01"	E: 89°14'54.26"	Free	Clear	0.001		

Note :- BDS (Bangladesh Drinking Standard) : As = 0.05 mg/L, Fe = 0.3-1.0 mg/L

Sample Collected by: 

Md. Nazrul Islam  
 Junior Chemist  
 DPHE, Zonal Lab, Jhenaidah.

Sample Analyzed by: 

Md. Moniruzzaman  
 Sample Analyzer  
 DPHE, Zonal Lab, Jhenaidah.

Countersigned/Approved by: 

Md. Nazrul Islam 2025  
 Junior Chemist  
 DPHE, Zonal Lab, Jhenaidah.

  
 (যদিও স্বাক্ষর করেছেন)  
 নির্বাহী প্রকৌশলী  
 জনস্বাস্থ্য প্রকৌশল অধিদপ্তর  
 জিলাপরিদেপ্তার, জিলাপরিদেপ্তার।

Government of the People's Republic of Bangladesh  
Office of the Senior Chemist,  
Department of Public Health Engineering,  
Khan Jahan Ali Road, Rupsha, Khulna.  
Phone : 041-721348, Fax: e-mail : wqmse\_khulnazonallab@yahoo.com



Memo No: 46.03.4700.106.16.001.24-469

Date: 10/12/2024

**Water Test Report of PEDP-4 Project**

Executive Engineer Memo No-46.203.8700.061.18.000.18 (ID-839016)-745, Date: 08/02/2024

Name of Contractor: Upama International Package No:PEDP-4/TW-361, Work Order No:137, Date: 09/08/2023

SL No.	District	Upazila	Village	School ID	Type of School	Water Point		Name of School	GPS	Water Quality				Remarks		
						Type	Depth (m)			Sand	Clear	As (mg/L)	Fe (mg/L)		Cl (mg/L)	
1	Satkhira	Debhata	Andulpota	99208050109	1	TSP	-	Andulpota Govt. Primary School	N: 22°37'33" E: 89°03'28"	10	11	12	13	14	15	16
2	Satkhira	Debhata	Askarpur	99208050404	1	TSP	-	Askarpur Govt. Primary School	N: 22°31'14" E: 89°01'52"	Free	Free	Clear	0.002	0.01	270	
3	Satkhira	Debhata	Baliadanga	99208050101	1	TSP	-	Baliadanga Govt. Primary School	N: 22°38'25" E: 89°09'04"	Free	Free	Clear	0.02	0.44	825	
4	Satkhira	Debhata	Basantapur	91208050505	1	TSP	-	Basantapur Govt. Primary School	N: 22°32'57" E: 88°57'52"	Free	Free	Clear	0.002	0.56	2040	
5	Satkhira	Debhata	Bijarati	99208050404	1	TSP	-	Bijarati Govt. Primary School	N: 22°31'36" E: 89°06'56"	Free	Free	Clear	0.003	0.06	995	
6	Satkhira	Debhata	Bhatsala	91208050502	1	TSP	-	Bhatsala Govt. Primary School	N: 22°36'22" E: 88°57'41"	Free	Free	Clear	0.003	0.01	135	
7	Satkhira	Debhata	Bahera	91208050105	1	TSP	-	Bahera Govt. Primary School	N: 22°36'59" E: 88°59'55"	Free	Free	Clear	0.011	0.39	80	
8	Satkhira	Debhata	Chandpur	91208050406	1	TSP	-	Chandpur Govt. Primary School	N: 22°34'12" E: 89°00'28"	Free	Free	Clear	0.017	0.07	50	
9	Satkhira	Debhata	Chinadanga	91208050305	1	TSP	-	Chinadanga Govt. Primary School	N: 22°34'14" E: 88°58'32"	Free	Free	Clear	0.082	3.17	80	
10	Satkhira	Debhata	Dakshin Sakhipur	91208050301	1	TSP	-	Dakshin Sakhipur Govt. Primary School	N: 22°34'22" E: 88°59'32"	Free	Free	Clear	0.015	0.35	80	

Analysis by

*(Signature)*  
Senior Chemist  
Department of Public Health Engineering  
Khulna

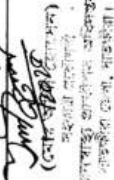
Approved by

*(Signature)*

**Water Test Report of PEDP-4 Project**

SL No.	District	Upazila	Village	ID	Type of School	Water Point		Name of School	GPS	Water Quality						Remarks
						Type	Depth (m)			Sand	Clear	As (mg/L)	Fe (mg/L)	Cl	CI (mg/L)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
11	Satkhira	Debhata	Debhata	91208050507	1	TSP	-	Debhata Model Govt. Primary School	N: 22°33'27" E: 88°57'48"	Free	Clear	0.002	0.33	415		
12	Satkhira	Debhata	Debisahar	91208050410	1	TSP	-	Debisahar Govt. Primary School	N: 22°32'53" E: 89°01'13"	Free	Clear	0.081	0.76	1940		
13	Satkhira	Debhata	Enampur	99208050303	1	TSP	-	Enampur Govt. Primary School	N: 22°33'51" E: 88°53'06"	Free	Clear	0.003	0.12	70		
14	Satkhira	Debhata	Gariadanga	99208050203	1	TSP	-	Gariadanga Govt. Primary School	N: 22°36'39" E: 88°58'49"	Free	Clear	0.001	0.01	490		
15	Satkhira	Debhata	Ghatghalia	91208050503	1	TSP	-	Ghatghalia Govt. Primary School	N: 22°33'30" E: 88°57'18"	Free	Clear	0.074	2.77	760		
16	Satkhira	Debhata	Ghona Para	91208050402	1	TSP	-	Ghona Para Govt. Primary School	N: 22°32'15" E: 88°58'38"	Free	Clear	0.001	0.04	2050		
17	Satkhira	Debhata	Gobrakhal	91208050106	1	TSP	-	Gobrakhal Govt. Primary School	N: 22°38'50" E: 89°03'20"	Free	Clear	0.004	0.29	445		
18	Satkhira	Debhata	Hadipur	91208050403	1	TSP	-	Hadipur Govt. Primary School	N: 22°32'11" E: 89°00'48"	Free	Clear	0.003	0.16	190		
19	Satkhira	Debhata	Herar Chak	99208050101	1	TSP	-	Herar Chak Govt. Primary School	N: 22°09'01" E: 89°01'50"	Free	Clear	0.011	0.01	860		
20	Satkhira	Debhata	Guchchhagram	99208050204	1	TSP	-	Jowar-I Guchchhagram Govt. Primary School	N: 22°35'31" E: 89°01'40"	Free	Clear	0.001	0.04	105		
21	Satkhira	Debhata	Kamta	91208050409	1	TSP	-	Kamta Govt. Primary School	N: 22°34'30" E: 88°59'50"	Free	Clear	0.015	0.04	30		
22	Satkhira	Debhata	Kashkamar	99208059001	1	TSP	-	Kashkamar Govt. Primary School	N: 22°39'32" E: 88°59'49"	Free	Clear	0.004	0.11	195		
23	Satkhira	Debhata	Komarpur	91208050201	1	TSP	-	Komarpur Govt. Primary School	N: 22°37'38" E: 88°57'31"	Free	Clear	0.004	0.06	30		
24	Satkhira	Debhata	Kulia	91208050104	1	TSP	-	Kulia Govt. Primary School	N: 22°38'41" E: 88°59'08"	Free	Clear	0.003	0.73	20		

Analysis by 

Approved by   
(Md. Faruk)  
District Engineer  
Water Engineering Division  
Dhaka, Bangladesh

**Water Test Report of PEDP-4 Project**

SL No.	District	Upazila	Village	ID	Type of School	Water Point		Name of School	GPS	Water Quality					Remarks
						Type	Depth (m)			Sand	Clear	As (mg/L)	Fe (mg/L)	Cl (mg/L)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
25	Satkhira	Debhata	Purba Kulia	91208050108	1	TSP	-	Kulia Siddeshwari Govt. Primary School	N: 22°38'22" E: 88°59'39"	Free	Clear	0.007	0.01	20	
26	Satkhira	Debhata	Nangla	99208050401	1	TSP	-	Nangla Uttar Noapara Govt. Primary School	N: 22°31'47" E: 88°58'56"	Free	Clear	0.018	5.42	1640	
27	Satkhira	Debhata	Narikeli	99208050301	1	TSP	-	Narikeli Govt. Primary School	N: 22°34'58" E: 88°59'24"	Free	Clear	0.006	0.20	285	
28	Satkhira	Debhata	Noapara	91208050401	1	TSP	-	Noapara Govt. Primary School	N: 22°31'04" E: 88°58'38"	Free	Clear	0.006	3.38	1650	
29	Satkhira	Debhata	Majh Parulia	90208050204	1	TSP	-	Parulia Govt. Primary School	N: 22°36'23" E: 89°00'03"	Free	Clear	0.003	0.29	160	
30	Satkhira	Debhata	Dakshin Parulia	91208050202	1	TSP	-	Parulia Jalia Para Govt. Primary School	N: 22°35'47" E: 89°00'31"	Free	Clear	0.008	0.05	75	
31	Satkhira	Debhata	Uttar Parulia	91208050205	1	TSP	-	Parulia Miridha Para Govt. Primary School	N: 22°37'14" E: 88°59'44"	Free	Clear	0.003	0.05	30	
32	Satkhira	Debhata	Putimari	99208050105	1	TSP	-	Putimari Paschim Para Govt. Primary School	N: 22°37'10" E: 89°01'50"	Free	Clear	0.004	0.44	25	
33	Satkhira	Debhata	Rameshwarpur	91208050501	1	TSP	-	Rameshwarpur Govt. Primary School	N: 22°35'44" E: 88°58'00"	Free	Clear	0.048	0.98	505	
34	Satkhira	Debhata	Shangbaria	99208050402	1	TSP	-	Shangbaria Govt. Primary School	N: 22°33'29" E: 89°01'55"	Free	Clear	0.002	0.05	335	
35	Satkhira	Debhata	Shimulia	91208050405	1	TSP	-	Shimulia Govt. Primary School	N: 22°33'25" E: 89°00'25"	Free	Clear	0.003	0.75	2790	
36	Satkhira	Debhata	Shashdanga	99208050102	1	TSP	-	Shashdanga Govt. Primary School	N: 22°38'32" E: 89°02'42"	Free	Clear	0.002	0.22	340	
37	Satkhira	Debhata	Subarnabad	91208050103	1	TSP	-	Subarnabad Govt. Primary School	N: 22°37'14" E: 89°02'55"	Free	Clear	0.002	0.06	540	
38	Satkhira	Debhata	Tiket	91208050102	1	TSP	-	Tiket Govt. Primary School	N: 22°37'06" E: 89°04'00"	Free	Clear	0.001	0.30	990	

Analysis by

Approved by

**Water Test Report of PEDP-4 Project**

SL No.	District	Upazila	Village	ID	Type of School	Water Point		Name of School	GPS	Water Quality					Remarks
						Type	Depth (m)			Sand	Clear	As (mg/L)	Fe (mg/L)	Cl (mg/L)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
39	Satkhira	Debhata	Tiket	99208050103	1	TSP	-	Tiket Purba Para Govt. Primary School	N: 22°36'35" E: 89°04'58"	Free	Clear	0.001	0.49	600	
40	Satkhira	Debhata	Askarpur	91208050407	1	TSP	-	Uttar Askarpur Govt. Primary School	N: 22°31'51" E: 89°01'15"	Free	Clear	0.009	2.93	680	
41	Satkhira	Debhata	Uttar Sakhipur	99208050302	1	TSP	-	Uttar Sakhipur Govt. Primary School	N: 22°35'43" E: 88°59'56"	Free	Clear	0.007	0.89	310	
42	Satkhira	Debhata	Gopakhali	99208050501	1	TSP	-	Gopakhali Rahimpur Govt. Primary School	N: 22°35'04" E: 88°57'04"	Free	Clear	0.008	2.10	1315	
43	Satkhira	Debhata	Jagannathpur	91208050408	1	TSP	-	Jagannathpur Govt. Primary School	N: 22°33'43" E: 89°02'59"	Free	Clear	0.048	1.64	2940	
44	Satkhira	Debhata	Sushilganti	91208050506	1	TSP	-	Sushilganti Govt. Primary School	N: 22°33'31" E: 88°57'19"	Free	Clear	0.002	0.10	975	
45	Satkhira	Debhata	Town Sreepur	91208050508	1	TSP	-	Town Sreepur Govt. Primary School	N: 22°34'20" E: 88°56'54"	Free	Clear	0.002	0.03	880	
46	Satkhira	Debhata	Chandipur	91208050303	1	TSP	-	Chandipur Govt. Primary School	N: 22°32'53" E: 88°58'36"	Free	Clear	0.006	0.44	330	
47	Satkhira	Satkhira Sadar	Bhomra	912070808	1	TSP	-	Bhomra Govt. Primary School	N: 22°40'09" E: 88°57'38"	Free	Clear	0.004	0.50	255	
48	Satkhira	Satkhira Sadar	Munshipara	9120807108	1	TSP	-	Munshipara Govt. Primary School	N: 22°42'29" E: 89°04'47"	Free	Clear	0.008	1.02	500	
49	Satkhira	Satkhira Sadar	Padmasakra	208070801	1	TSP	-	Padmasakra Govt. Primary School	N: 22°38'57" E: 88°56'44"	Free	Clear	0.006	2.55	140	
50	Satkhira	Satkhira Sadar	Sialdanga	91208070706	1	TSP	-	Sialdanga Govt. Primary School	N: 22°45'22" E: 89°01'02"	Free	Clear	0.004	0.14	830	

Analysis by

*[Signature]*  
16.12.24  
Dr. Md. Atindar Rahman  
Senior Analyst, DPHE  
Zonal Laboratory, Khulna.

Approved by

*[Signature]*  
10/12/2024  
Dr. Md. Atindar Rahman  
Senior Chemist, DPHE  
Zonal Laboratory, Khulna.

Government of the People's Republic of Bangladesh  
Office of the Senior Chemist,  
Department of Public Health Engineering  
Khan Jahan Ali Road, Rupsha, Khulna.  
Phone : 041-721348, Fax: e-mail : wqmsc\_khulnazomallab@yahoo.com



Memo No: 46.03.4700.106.16.001.24-738

Date: 16/02/2025

### Water Test Report of PEDP-4 Project

Executive Engineer Memo No-46.03.8700.061.07.W-13.23 (ID-839016)-832, Date: 02/02/2025

Name of Contractor: Upama International Package No:PEDP-4/TW-361, Work Order No:137, Date: 09/08/2023

SL No.	District	Upazila	Village	School ID	Type of School	Water Point		Name of School	GPS	Water Quality					Remarks
						Type	Depth (m)			Sand	Clear	As (mg/L)	Fe (mg/L)	Cl (mg/L)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Satkhira	Debhata	Basantapur	91208050505	1	RO	-	Basantapur Govt. Primary School	N: 22°32'57" E: 88°57'52"	Free	Clear	-	-	165	
2	Satkhira	Debhata	Chinadanga	91208050305	1	RO	-	Chinadanga Govt. Primary School	N: 22°34'14" E: 88°58'32"	Free	Clear	0.005	-	-	
3	Satkhira	Debhata	Debisahar	91208050410	1	RO	-	Debisahar Govt. Primary School	N: 22°32'53" E: 89°01'13"	Free	Clear	0.007	-	125	
4	Satkhira	Debhata	Ghaighalia	91208050503	1	RO	-	Ghaighalia Govt. Primary School	N: 22°33'50" E: 88°57'18"	Free	Clear	0.001	-	-	
5	Satkhira	Debhata	Ghona Para	91208050402	1	RO	-	Ghona Para Govt. Primary School	N: 22°32'15" E: 88°58'38"	Free	Clear	-	-	115	
6	Satkhira	Debhata	Nangla	99208050401	1	RO	-	Nangla Uttar Noapara Govt. Primary School	N: 22°31'47" E: 88°58'56"	Free	Clear	-	0.57	90	
7	Satkhira	Debhata	Noapara	91208050401	1	RO	-	Noapara Govt. Primary School	N: 22°31'04" E: 88°58'38"	Free	Clear	-	-	100	
8	Satkhira	Debhata	Shimulia	91208050405	1	RO	-	Shimulia Govt. Primary School	N: 22°33'25" E: 89°00'25"	Free	Clear	-	-	210	
9	Satkhira	Debhata	Gopakhali	99208050501	1	RO	-	Gopakhali Rahimpur Govt. Primary School	N: 22°33'04" E: 88°57'04"	Free	Clear	-	-	125	
10	Satkhira	Debhata	Jagannathpur	91208050408	1	RO	-	Jagannathpur Govt. Primary School	N: 22°33'43" E: 89°02'59"	Free	Clear	-	-	190	

Collected by

16.02.25  
Md. Jafar Iqbal  
Sample Collector, DPHE  
Zonal Laboratory, Khulna

Analysis by

16.02.25  
Dipankar Bhattacharjee  
Sample Analyzer, DPHE  
Zonal Laboratory, Khulna

Approved by

16.02.25  
Dr. Md. Aminur Rahman  
Senior Chemist, DPHE  
Zonal Laboratory, Khulna




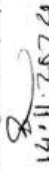
Government of the People's Republic of Bangladesh  
Office of the Senior Chemist  
DPHE Zonal Laboratory, Noakhali

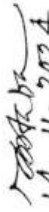
**Laboratory Test Results**

Sl No.	District	Upazilla	Union	Village	Name of School	School ID	Water Point		Global Position (Govt. Primary)		Water Quality			
							Type	Depth (m)	Latitude	Longitude	As	Cl	Fe	Fe
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
13	Noakhali	Kabirhat	Goshbagh	Rambhallabpur	Ponditerhat GPS	409010302	DTW	-	22°48'10.30"	91°12'33.20"	0.031	645	2.21	
14	Noakhali	Kabirhat	Paurashava	Ward No - 05	Purba Goshbagh GPS	409010401	DTW	-	22°49'27.50"	91°12'33.40"	0.038	225	0.5	
15	Noakhali	Kabirhat	Goshbagh	Purba Lamchi	Purba Lamchi Ledu Companirhat GPS	409011309	DTW	-	22°48'00.40"	91°10'40.80"	0.008	200	1.68	
16	Noakhali	Kabirhat	Dhansiri	Nalua	Purba Nalua GPS	409091584	DTW	-	22°45'51.20"	91°08'44.30"	0.046	1625	3.37	
17	Noakhali	Kabirhat	Batalya	Doyaramdi	Ramadi Bhuiyarhat GPS	409011505	DTW	-	22°51'25.90"	91°13'37.50"	0.038	795	5.47	
18	Noakhali	Kabirhat	Sundalur	Ramnathpur	Ramnathpur GPS	409011201	DTW	-	22°49'34.70"	91°09'22.60"	0.022	160	3.58	
19	Noakhali	Kabirhat	Sundalur	Sundalpur-W6	Sundalpur Mohammd Mia GPS	409010901	DTW	-	22°49'39.60"	91°10'26.20"	0.029	85	7.87	
20	Noakhali	Kabirhat	Sundalur	Uttar Rameshwerpur	Uttar Rameshwerpur GPS	409011403	DTW	-	22°48'50.40"	91°13'00.70"	0.024	670	2.48	

Note: 01 (One) Tubwell (SL No: 05) was found as a Non-Functional, Project: PEDP-IV, Agency: M/S Mahmudur Rahman, Work Order No: 668, Dated: 25/03/2024, Package No: PEDP-4/TW-321, Sample Collected: 04/11/2024, Testing Date: 05/11/2024-13/11/2024.

 14.11.2024  
**Sample Collector**  
 DPHE Zonal Laboratory  
 Maijdee, Noakhali.

 14.11.2024  
**Sample Analyzer**  
 DPHE Zonal Laboratory  
 Maijdee, Noakhali.

 14.11.24  
**Md. Biplob Hossain**  
 Chief Chemist &  
 Senior Chemist (Addl. Charge)  
 DPHE Zonal Lab, Noakhali.

Government of the People's Republic of Bangladesh  
 Office of the Senior Chemist  
 DPHE Zonal Laboratory, Noakhali

Date: 26/11/2024

Lab Code/ Memo No : K - 31  
 Total Sample : 1 out of 20  
 Sent by : Md Ali Imam, SAE, DPHE, Kabirhat, Noakhali  
 Ref. Memo No. : Noakhali/Kabirhat/24, Dated: 15/07/2024

**Laboratory Test Results**

Sl No.	District	Upazilla	Union	Village	Name of School	School ID	Water Point		Global Position (Govt. Primary)		Water Quality		
							Type	Depth (m)	Latitude Deg-Min-Sec	Longitude Deg-Min-Sec	As	Cl	Fe
1	2	3	5	4	6	8	9	10	11	12	13	14	15
5	Noakhali	Kabirhat	Narottampur	Jadobpur	Jadobpur Government Primary School	409011104	DTW	-	22°52'24.20"	91°11'06.30"	0.076	865	9.38

Note: Project: PEDP-IV, Agecny: M/S Mahmudur Rahman . Work Order No: 668 , Dated: 25/03/2024 , Package No- PEDP-4/TW-321, Sample Collected: 18/11/2024, Testing Date: 18/11/2024-26/11/2024.

*Md. C. B.*  
 26-11-2024  
 Sample Collector  
 DPHE Zonal Laboratory  
 Maijdee, Noakhali.

*Md. B. M.*  
 26-11-2024  
 Sample Analyzer  
 DPHE Zonal Laboratory  
 Maijdee, Noakhali.

*Md. B. M.*  
 26-11-2024  
 Sample Analyzer  
 DPHE Zonal Laboratory  
 Maijdee, Noakhali.

*Md. B. M.*  
 26-11-2024  
 Chief Chemist &  
 Senior Chemist (Organic Chemistry)  
 DPHE Zonal Lab., Noakhali.

Government of the People's Republic of Bangladesh  
Office of the Senior Chemist  
DPHE Zonal Laboratory, Noakhali

Date: 26/02/2025

Lab Code/ Memo No : K - 108  
Total Sample : 09 out of 10  
Sent by : Md Ali Imam, SAE, DPHE, Kabirhat, Noakhali.  
Ref. Memo No. : Noakhali/Kabirhat/05, Dated: 16/02/2025

**Laboratory Test Results**

Sl No.	District	Upazilla	Union	Village	Name of School	School ID	Water Point		Global Position (Govt. Primary)		Water Quality	
							Type	Depth (m)	Latitude Deg-Min-Sec	Longitude Deg-Min-Sec	As	Fe
1	Noakhali	Kabirhat	Chaprashirhat	Chaprashirhat	Charrashirhat Govt. Primary School	409011410	TSP-RO	9	22°48'59.00"	91°14'21.00"	-	0.50
2	Noakhali	Kabirhat	Sundarpur	Daskhin Sundalpur	Daskhin Sundalpur Govt. Primary School	409011212	TSP-RO		22°50'05.00"	91°12'04.00"	-	0.65
3	Noakhali	Kabirhat	Paurashava	Word-6	Indrapur Reg Govt. Primary School	409010201	TSP-RO		22°49'11.00"	91°12'43.00"	-	0.85
4	Noakhali	Kabirhat	Sundalpur	Kalamunshi	Kalamunshi Govt. Primary School	409011205	TSP-RO		22°48'59.00"	91°10'37.00"	-	0.26
5	Noakhali	Kabirhat	Narottampur	Narottampur	Narottampur Govt. Primary School	409011109	TSP-RO		22°51'42.00"	91°10'09.00"	-	0.35
6	Noakhali	Kabirhat	Dhansiri	Purba Nalua	Purba Nalua Govt. Primary School	409091584	TSP-RO		22°45'53.00"	91°08'49.00"	-	0.45
7	Noakhali	Kabirhat	Batalya	Word-7	Ramadi Bhuiyarhat Govt. Primary School	409011505	TSP-RO		22°51'23.00"	91°13'29.00"	-	0.78
8	Noakhali	Kabirhat	Sundalpur	Sundalpur	Sundalpur Md Mia Govt. Primary School	409010901	TSP-RO		22°49'40.00"	91°10'25.00"	-	0.15
9	Noakhali	Kabirhat	Chaprashirhat	Uttar Rameshwerpur	Uttar Rameshwerpur Govt. Primary School	409011403	TSP-RO		22°48'50.00"	91°13'00.00"	-	0.35

Note: Note: 01 (One) Tubwell (SL No: 10) found as a Non-Functional. Project: PEDP-IV, Agecny: M/S Mahmudur Rahman, Work Order No: 668, Dated: 25/03/2024, Package No: PEDP-4/TW-321, Sample Collection: 25/02/2025, Testing Date: 25/02/2025-26/02/2025.

26.02.2025  
Sample Analyzer  
DPHE Zonal Laboratory  
Maijdee, Noakhali.

26-02-2025  
Sample Analyzer  
DPHE Zonal Laboratory  
Maijdee, Noakhali.

26/02/2025  
Md. Biplob Hossain  
Chief Chemist &  
Senior Chemist (Addtl. Charge)  
DPHE Zonal Lab, Noakhali.

Government of the People's Republic of Bangladesh  
 Office of the Senior Chemist  
 DPHE Zonal Laboratory, Noakhali

Date: 23/03/2025

b Code/ Memo No : K - 108  
 al Sample : 1 out of 10  
 nt by : Md Ali Imam, SAE, DPHE, Kabirhat, Noakhali.  
 f. Memo No. : Noakhali/Kabirhat/05, Dated: 16/02/2025

**Laboratory Test Results**

District	Upazilla	Union	Village	Name of School	School ID	Water Point		Global Position (Govt. Primary)		Water Quality	
						Type	Depth (m)	Latitude Deg-Min-Sec	Longitude Deg-Min-Sec	As	Fe
Noakhali	Kabirhat	Narottampur	Jadobpur	Jadobpur Govt. Primary School	409011104	TSP-RO	9	22°52'24.00"	91°11'06.00"	0.007	1.69

Note: Project: PEDP-IV, Agency: M/S Mahmudur Rahman, Work Order No: 668, Dated: 25/03/2024, Package No: PEDP-4/TW-321, Sample Collected: 16/03/2025, Testing Date: 18/03/2025-23/03/2025.

*[Signature]*  
 23.03.2025  
 Sample Analyzer  
 DPHE Zonal Laboratory  
 Maijdee, Noakhali.

*[Signature]*  
 23-03-2025  
 Sample Analyzer  
 DPHE Zonal Laboratory  
 Maijdee, Noakhali.

*[Signature]*  
 23-03-25  
 Md Biplob Hossain  
 Chief Chemist &  
 Senior Chemist (Addl. Charge)  
 DPHE Zonal Lab, Noakhali.



Government of the People's Republic of Bangladesh  
 Office of the Senior Chemist  
 Department of Public Health Engineering  
 Noakhali Zonal Lab, Majdee, Noakhali  
 Phone: 02334433610, Fax: , Email: wqmsc\_noakhali.zonalab@yahoo.com



Lab Memo: L-23

Date: 20-08-2025



**Physical/Chemical/Bacteriological Analysis of Water Sample**


Total Number of Sample: 4 Project Name: PEDP-IV  
 Sample Forwarded By: Md Ali Imam, SAE, DPHE, Kabirhat, Noakhali Ref Memo: DPHE/Noakhali/Kabirhat/24, Dated: 18/08/2025  
 Source Of Fund: Development Budget Type of Water Point: RO, Filtered Water  
 Tender ID: -, Work Order No: 668, Dated: 25/03/2024 Contractor Name: M/S Mahmudur Rahman  
 Sample Forwarded Date: 20-08-2025 Package No : PEDP-4/TW-321

**LABORATORY TEST RESULTS**


SL. Sample ID	Caretaker Name	Village/Word	Union / Paurashava	Upazila / City Corporation	Chloride (mg/L) BDS: 250	Conct. Method
1 NKL20250800143	Parba Nalon Government Primary School	NALUA	DHAN SIRI	KABIRHAT	120	Titrimetic
2 NKL20250800144	Randi Bhasiyahat Government Primary School	RAMDI	BATAIYA	KABIRHAT	110	Titrimetic
3 NKL20250800145	Uttar Rameshwarpur Government Primary School	RAMESWARPUR	CHAPRASHIRHAT	KABIRHAT	140	Titrimetic
4 NKL20250800146	Jadabpur Government Primary School	JADABPUR	NAROTTAMPUR	KABIRHAT	115	Titrimetic

N.B: LOQ-Limit of Quantitation

Test Performed By	Signature	Counter Signed/Approved by	Signature
1. Name : Md Mostafa Designation: Sample Analyzer		1. Name : Md Biplab Hossain Designation: Chief Chemist	
2. Name : Sanjib Kumar Roy Designation: Sample Analyzer	 <b>Sample Analyzer</b> DPHE Zonal Laboratory Majdee, Noakhali.		<b>Md. Biplab Hossain</b> Chief Chemist & Senior Chemist (Add'l. Charge) DPHE Zonal Lab, Noakhali.



Government of the People's Republic of Bangladesh  
Office of the Senior Chemist,  
Department of Public Health Engineering  
Barisal Zonal Lab. West Bagura Road, Barisal.  
Phone: 0247-8831551, E-mail: wqmsc\_barishazonalab@yahoo.com



Date: 02/03/2025.

Memo No: 46.03.0600.106.16.341.24 - 519

Physical/Chemical/Bacteriological Analysis of Water Sample

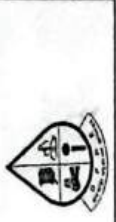
Sample ID: BAR2025030154 To BAR2025030159 Total: 06	District: Jhalokati.
Sent by: Sub-Assistant Engineer, DPHE, Kanthalia, Jhalokati.	Sample Source: Deep Tube Well (RO Filler)
Ref. Memo No: 46.03.4243.000.14.001.21-55 dated 03/02/2025	Date of testing: 06/02/2025-23/02/2025
Collection date: 05/02/2025	Received date: 05/02/2025

LABORATORY TEST RESULTS:

Sample ID	District	Upazilla	Village	School ID	Type of school	Water point		Name of School	GPS	Water Quality			Remarks		
						Type	Depth (m)			Clear	Fe(mg/l) LOQ:0.1 BDS: 0.3-1	As (mg/l) LOQ:0.01 BDS: 0.05		Cl(mg/l) LOQ BDS:150-600	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BAR2025030154	Jhalokati.	Kanthalia	Amua	503010309	1	1	Not Given	Amua Board GPS	22°21'50"N 90°04'26"E	No	Clear	<0.1	<0.001	199	
BAR2025030155	Jhalokati.	Kanthalia	Jorkhali	503010207	1	1	Not Given	Jorkhali GPS	22°20'53"N 90°03'56"E	No	Clear	<0.1	<0.001	144	
BAR2025030156	Jhalokati.	Kanthalia	Dakkhin Chechni	503010108	1	1	Not Given	Dakkhin Chechni GPS	22°24'50"N 90°04'44"E	No	Clear	<0.1	<0.001	913	
BAR2025030157	Jhalokati.	Kanthalia	Dakkhin Koykhali	503010501	1	1	Not Given	Dakkhin Koykhali GPS	22°26'09"N 90°06'35"E	No	Clear	<0.1	<0.001	223	
BAR2025030158	Jhalokati.	Kanthalia	Dakkhin Chechni	503010103	1	1	Not Given	Chechni GPS	22°26'59"N 90°03'43"E	No	Clear	<0.1	<0.001	114	
BAR2025030159	Jhalokati.	Kanthalia	Uttor Chechni	503010106	1	1	Not Given	Uttor Purba Chechni GPS	22°26'30"N 90°05'54"E	No	Clear	<0.1	<0.001	918	

  
 02/03/2025  
 (Shamsuddin Ahmad)  
 Senior Chemist, DPHE  
 Zonal Laboratory, Barisal.

  
 02/03/2025  
 Sample Analyzer, DPHE  
 Zonal Laboratory, Barisal.



Government of the People's Republic of Bangladesh  
 Office of the Senior Chemist,  
 Department of Public Health Engineering  
 Barisal Zonal Lab, West Bagura Road, Barisal.  
 Phone: 0247-8831551, E-mail: wqmsc\_barishaizonallab@yahoo.com



Memo No: 46.03.0600.106.16.403.24 - 617 Date: 04/05/2025.

Physical/Chemical/Bacteriological Analysis of Water Sample

Sample ID: BAR2025040285 To BAR2025040291 Torak. 07 District: Jhalokati.

Sent by: Sub-Assistant Engineer, DPHE, Kanthalia, Jhalokati. Sample Source: Deep Tube Well (RO Filter)

Ref. Memo No: 46.03.4243.000.14.001.21-55 dated 03/02/2025 Date of testing: 28/04/2025-04/05/2025

Collection date: 28/04/2025 Received date: 28/04/2025

LABORATORY TEST RESULTS:

Sample ID	District	Upazila	Village	School ID	Type of school	Water point		Name of School	GPS	Water Quality			Remarks		
						Type	Depth (m)			Clear	Sand	Fe(mg/l) LOG:0.1 BDS: 0.3-1		As (mg/l) LOG:0.01 BDS: 0.05	CH(mg/l) LOG: BDS:150-600
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BAR2025040285	Jhalokati.	Kanthalia	Madhya Koykhali	503010502	1	1	Not Given	Madhya Koykhali GPS	22°26' 38" N 90°06' 44" E	No	Clear	<0.1	0.00104	526	
BAR2025040286	Jhalokati.	Kanthalia	Mashabunia	503010410	1	1	Not Given	Mashabunia GPS	22°22' 10" N 90°06' 37" E	No	Clear	<0.1	<0.001	501	
BAR2025040287	Jhalokati.	Kanthalia	Chingrakhali	503010404	1	1	Not Given	Chingrakhali GPS	22°22' 41" N 90°07' 01" E	No	Clear	<0.1	<0.001	725	
BAR2025040288	Jhalokati.	Kanthalia	Mohishkandi	503010110	1	1	Not Given	Purba Mohishkandi GPS	22°25' 10" N 90°03' 42" E	No	Clear	<0.1	<0.001	40	
BAR2025040289	Jhalokati.	Kanthalia	Sonaula	501020601	1	1	Not Given	N. W Sonaula GPS	22°22' 59" N 90°03' 28" E	No	Clear	<0.1	<0.001	114	
BAR2025040290	Jhalokati.	Kanthalia	Sonaula	503010304	1	1	Not Given	Sonaula GPS	22°22' 41" N 90°04' 05" E	No	Clear	<0.1	0.00149	223	
BAR2025040291	Jhalokati.	Kanthalia	E. Tarabunia	503011582	1	1	Not Given	E. Tarabunia GPS	22°23' 52" N 90°03' 15" E	No	Clear	<0.1	<0.001	30	

S.A. Shamsuddin Ahmad  
 Senior Chemist, DPHE  
 Zonal Laboratory, Barisal.

04/05/25  
 Sample Analyzer, DPHE  
 Zonal Laboratory, Barisal.



Government of the People's Republic of Bangladesh  
Office of the Senior Chemist  
Department of Public Health Engineering  
Barisal Zonal Lab C&B Road, Barisal.  
Phone: 0247-8861551, E-mail: wqmsc\_barisalzonalab@yahoo.com



Memo No: 46.03.0600.106.16.243.22- 339

Date: 04/12/2022.

Physical/Chemical/Bacteriological Analysis of Water Sample

Sample ID: BAR2022120107 To BAR2022120117, Total: 11	District: Jhalokathi.
Sent by: Sub-Assistant Engineer, DPHE, Kanthalia Upazila, Jhalokathi.	Sample Source: DTW 08
Ref. Memo No: dphelkathalia 30, Dated 23/01/2022	Date of testing: 29/11/2022 - 04/12/2022
Collection date: 29/11/2022	Received date: 29/11/2022

LABORATORY TEST RESULTS:

Sample ID	District	Upazila	Village	School ID	Type of school	Water point		Name of School	GPS	Water Quality			Remarks		
						Type	Depth (m)			Sand	Clear	Fe(mg/l) LOQ:0.1		As (mg/l) LOQ:0.001 BDS: 0.05	Cl-(mg/l) LOQ:
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BAR2022120107	Jhalokathi	Kanthalia	Awrabunia	503010604	1	1	Not Given	Awrabunia Hat GPS	22°28' 14" N 90°10' 28" E	No	Clear	0.428	0.00162	730	
BAR2022120108	Jhalokathi	Kanthalia	Awrabunia	503010605	1	1	Not Given	Chowdhury Hisha GPS	22°28' 42" N 90°09' 59" E	No	Clear	0.237	0.00296	59	
BAR2022120109	Jhalokathi	Kanthalia	Uitar Charal	503010609	1	1	Not Given	Uitar Charal GPS	22°30' 04" N 90°09' 20" E	No	Clear	0.600	0.00247	347	
BAR2022120110	Jhalokathi	Kanthalia	Raghuar Char	503010510	1	1	Not Given	Char Raghua GPS	22°26' 54" N 90°09' 53" E	No	Clear	1.599	0.00211	248	
BAR2022120111	Jhalokathi	Kanthalia	Talgacya	503010511	1	1	Not Given	Putba Talgacya GPS	22°27' 32" N 90°09' 44" E	No	Clear	0.371	0.00119	149	
BAR2022120112	Jhalokathi	Kanthalia	Kalkhali	503010502	1	1	Not Given	Khadhya Kalkhali GPS	22°25' 39" N 90°06' 44" E	No	Clear	0.610	0.00153	1484	
BAR2022120113	Jhalokathi	Kanthalia	Anallbunia	503010406	1	1	Not Given	Anall Bunia Moshabunia GPS	22°24' 05" N 90°06' 34" E	No	Clear	1.161	0.00176	973	
BAR2022120114	Jhalokathi	Kanthalia	Moshabunia	503010410	1	1	Not Given	Moshabunia GPS	22°22' 10" N 90°06' 37" E	No	Clear	1.777	0.00323	1475	

04/12/2022  
M. Akbar Hossain (had)  
Senior Chemist, DPHE  
Zonal Laboratory, Barisal.

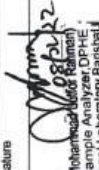


M. Akbar Hossain (had)  
Senior Chemist, DPHE  
Zonal Laboratory, Barisal.

M. Akbar Hossain (had)  
Senior Chemist, DPHE  
Zonal Laboratory, Barisal.

Page

Sample ID	District	Upazilla	Village	School ID	Type of school	Water point		Name of School	GPS	Water Quality				
						Type	Depth (m)			Sand	Clear	Fe(mg/l) LOQ0.1	As (mg/l) LOQ0.001 BDS: 0.05	Cl-(mg/l) LOQ
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BAR2022120115	Jhalokathi	Kanthalia	Baro Kanthalia	503010409	1	1	Not Given	Baro Kanthalia GPS	22°24'36" N 90°06'11" E	No	Clear	1.419	0.00352	347
BAR2022120116	Jhalokathi	Kanthalia	Chingraibhali	503010404	1	1	Not Given	Chingraibhali GPS	22°22'42" N 90°05'59" E	No	Clear	2.404	0.00176	1494
BAR2022120117	Jhalokathi	Kanthalia	Helatbunia	503010411	1	1	Not Given	Helatbunia GPS	22°22'09" N 90°05'37" E	No	Clear	0.564	0.00140	730

LOQ-Level on Quantization, BDS: Bangladesh Drinking Standard, AAS: Atomic Absorption Spectrophotometer, LOQ-Level on Quantization, BDS: Bangladesh Drinking Standard, AAS: Atomic Absorption Spectrophotometer, Global Positioning System.  
Work Order No: 858, Date: 18/05/2021.  
Name of Agency: M/s. S.S. Construction.

Test Performed by:	Signature	Designation/Approved by:	Signature
1.) Name: Mohammad Luthfor Rahman Designation: Sample Analyzer		1.) Name: Shamsuddin Ahmad Designation: Senior Chemist.	
2.) Name: Kazi Zehad Designation: Sample Analyzer			

Shamsuddin Ahmad  
Senior Chemist, DPHE  
Zonal Laboratory, Barisal.

Sample Analyzer, DPHE

Barisal



Government of the People's Republic of Bangladesh  
 Office of the Senior Chemist,  
 Department of Public Health Engineering  
 Barisal Zonal Lab, West Bagura Road, Barisal.  
 Phone: 0247-8831551, E-mail: wqmsc\_barishalzonallab@yahoo.com



Date: 28/08/2024.

Memo No: 46.03.0600.106.16.058.24 - 97

Physical/Chemical/Bacteriological Analysis of Water Sample

Sample ID: BAR2024080458 To BAR2024080464, BAR2024080541 To BAR2024080544 Total: 11	District: Jhalokati.
Sent by: Sub-Assistant Engineer, DPHE, Karithalia, Jhalokati.	Sample Source: DTW 06
Ref. Memo No: 46.03.4243.000.99.001.23.001 dated 02/07/2023	Date of testing: 18/08/2024-27/08/2024
Collection date: 15/08/2024 & 22/08/2024	Received date: 15/08/2024 & 22/08/2024

LABORATORY TEST RESULTS:

Sample ID	District	Upazilla	Village	School ID	Type of school	Water point		Name of School	GPS	Water Quality			Rensaks		
						Depth (m)	Type			Sand	Clear	Fe(mg/l) LOQ:0.1 BDS: 0.3-1		As (mg/l) LOQ:0.001 BDS: 0.05	Cl-imp/l LOQ: 150-600 BDS: 150-600
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BAR2024080458	Jhalokathi	Kathalia	Amua	503010309	1	1	Not Given	Amua Bord GPS	22°21'50"N 90°04'28"E	No	Clear	0.545	<0.001	1395	
BAR2024080459	Jhalokathi	Kathalia	Mahshikandi	503010110	1	1	Not Given	E. Mahshikandi GPS	22°25'10"N 90°03'42"E	No	Clear	2.440	<0.001	6983	
BAR2024080460	Jhalokathi	Kathalia	N.W Sonaula	501020601	1	1	Not Given	N.W Sonaula GPS	22°22'48"N 90°03'51"E	No	Clear	0.858	<0.001	4288	
BAR2024080461	Jhalokathi	Kathalia	Jorhali	503010207	1	1	Not Given	Jorhali GPS	22°20'53"N 90°03'56"E	No	Clear	0.449	<0.001	1097	
BAR2024080462	Jhalokathi	Kathalia	Sonaula	503010304	1	1	Not Given	Sonaula GPS	22°22'40"N 90°04'05"E	No	Clear	0.591	<0.001	1941	
BAR2024080463	Jhalokathi	Kathalia	S. Chechni	503010108	1	1	Not Given	S. Chechni GPS	22°24'49"N 90°04'44"E	No	Clear	0.569	0.00106	3856	
BAR2024080464	Jhalokathi	Kathalia	S. Koykhali	503010501	1	1	Not Given	S. Koykhali GPS	22°25'08"N 90°06'37"E	No	Clear	<0.1	<0.001	1077	
BAR2024080541	Jhalokathi	Kathalia	Koykhali	501020103	1	1	Not Given	Koykhali GPS	22°26'29"N 90°07'27"E	No	Clear	<0.1	<0.001	30	

Signature: *[Handwritten Signature]*  
 Date: 28/08/2024

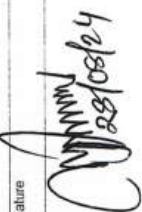

Sample ID	District	Upazilla	Village	School ID	Type of school	Water point		Name of School	GPS	Water Quality			Remarks		
						Type	Depth (m)			Sand	Clear	Fe(mg/l) LOC:0.01 BDS:0.3-1		As (mg/l) LOC:0.01 BDS:0.05	Cl <sup>-</sup> (mg/l) LOC: BDS:150-600
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BAR2024080542	Jhalokathi	Kathalia	Chechri	503010103	1	1	Not Given	Chechri GPS	22°25' 59" N 90°03' 43" E	No	Clear	<0.1	<0.001	2318	
BAR2024080543	Jhalokathi	Kathalia	E. Tarabunia	503011562/ 503011581	1	1	Not Given	✓ E. Tarabunia GPS	22°23' 51" N 90°03' 15" E	No	Clear	0.120	<0.001	6634	
BAR2024080544	Jhalokathi	Kathalia	N. E. Chechri	503010108	1	1	Not Given	✓ N. E. Chechri GPS	22°26' 31" N 90°05' 54" E	No	Clear	1.076	<0.001	2318	

LOQ-Level on Quantization, BDS: Bangladesh Drinking Standard, AAS: Atomic Absorption Spectrophotometer, GPS-Global Positioning System.

Package Name: PEDP-4 & Package no. TW-200.

Name of Agency: M/S. S.S Enterprise, Barishal.

Challan no. 2425-00007062221.

Test Performed by:  Signature  28/08/24	Countersigned/Approved by:  Signature  28/08/24
1.) Name: Mohammad Lutfur Rahman Designation: Sample Analyzer	1.) Name: Shamsuddin Ahmad Designation: Senior Chemist.
2.) Name: Kazi Zehad Designation: Sample Analyzer	

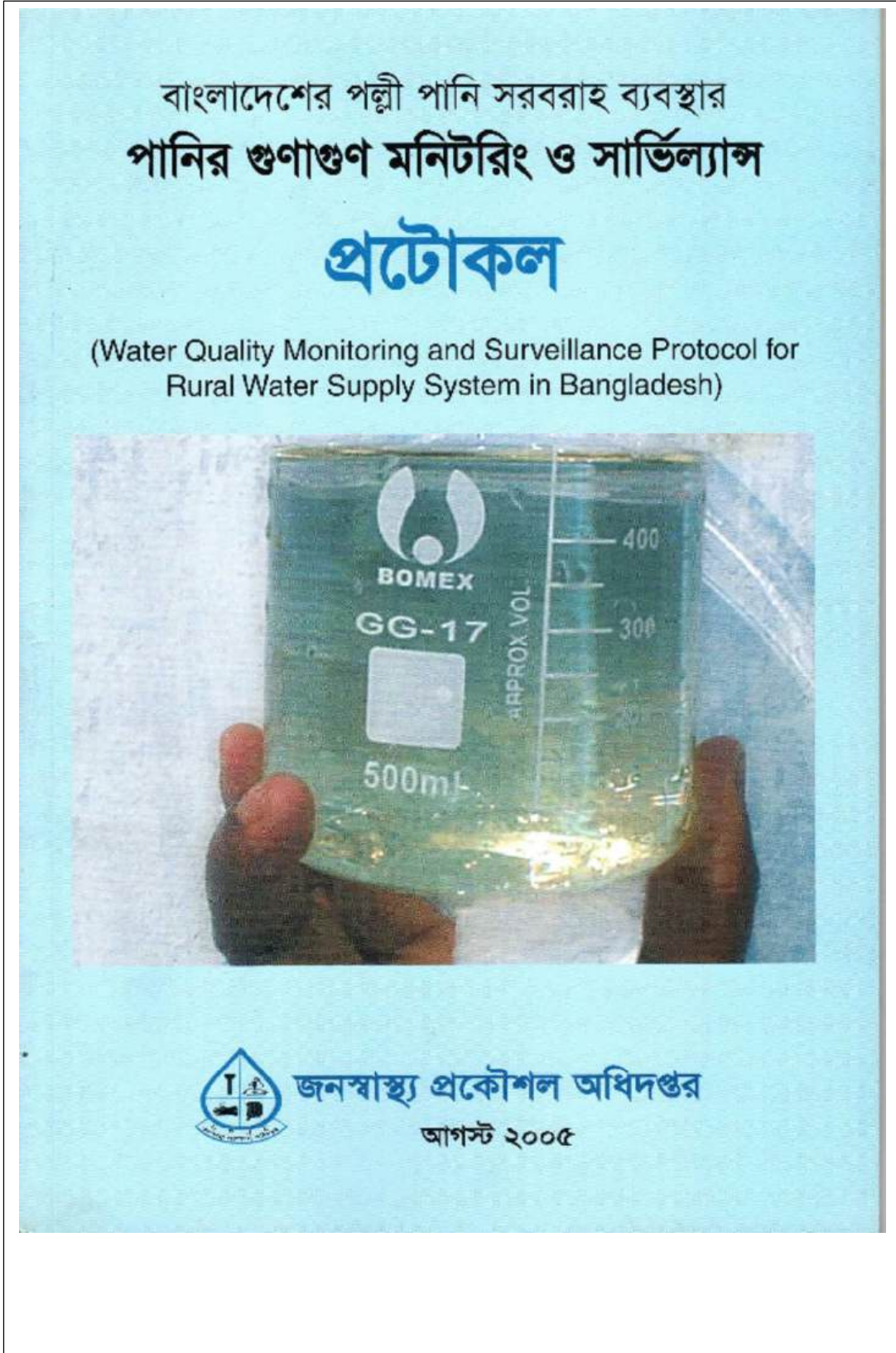
**Table 1 - List of Unacceptable Water Sources where mitigation measures were considered**

SL No	District	Name of School	EMIS Code	Test Result			Remark	Suggested Option	After intervention		
				As	Fe	Cl			As	Fe	Cl
1	Jhenaidah	Mazdia GPS.	204010906	0.077	<LOQ	<LOQ	not acceptable	RO Filter	0.033	<LOQ	<LOQ
2	Jhenaidah	Kastovanga GPS.	204011001	0.239	<LOQ	<LOQ	not acceptable	RO Filter	0.003	<LOQ	<LOQ
3	Jhenaidah	Khorikadanga GPS.	204010303	0.071	<LOQ	<LOQ	not acceptable	RO Filter	0.001	<LOQ	<LOQ
4	Jhenaidah	Shasharpara GPS	204010806	0.073	<LOQ	<LOQ	not acceptable	RO Filter	0.001	<LOQ	<LOQ
5	Satkhira	Basantapur GPS.	91208050505	<LOQ	<LOQ	2040	not acceptable	RO Filter	<LOQ	<LOQ	165
6	Satkhira	Chinadanga GPS.	91208050305	0.082	<LOQ	<LOQ	not acceptable	RO Filter	0.005	<LOQ	<LOQ
7	Satkhira	Debisahar GPS.	91208050410	0.081	<LOQ	1940	not acceptable	RO Filter	0.007	<LOQ	125
8	Satkhira	Ghalghalia GPS.	91208050503	0.074	<LOQ	<LOQ	not acceptable	RO Filter	0.001	<LOQ	<LOQ
9	Satkhira	Ghonapara GPS.	91208050402	<LOQ	<LOQ	2050	not acceptable	RO Filter	<LOQ	<LOQ	115
10	Satkhira	Nagla uttar para GPS.	99208050401	<LOQ	5.42	1640	not acceptable	RO Filter	<LOQ	0.37	90
11	Satkhira	Noapara GPS.	91208050401	<LOQ	<LOQ	1650	not acceptable	RO Filter	<LOQ	<LOQ	100
12	Satkhira	Shimulia GPS.	91208050405	<LOQ	<LOQ	2790	not acceptable	RO Filter	<LOQ	<LOQ	210
13	Satkhira	Gopakhali rahimpur GPS.	99208050501	<LOQ	<LOQ	1315	not acceptable	RO Filter	<LOQ	<LOQ	125
14	Satkhira	Jagannathpur GPS	91208050408	<LOQ	<LOQ	2940	not acceptable	RO Filter	<LOQ	<LOQ	190
15	Noakhali	Chaprashirhat GPS.	409011410	<LOQ	3.86	<LOQ	not acceptable	RO Filter	<LOQ	0.50	<LOQ
16	Noakhali	Daskhin Sundalpur GPS.	409011212	<LOQ	3.56	<LOQ	not acceptable	RO Filter	<LOQ	0.65	<LOQ
17	Noakhali	Indrapur reg. GPS.	409010201	<LOQ	6.19	<LOQ	not acceptable	RO Filter	<LOQ	0.85	<LOQ
18	Noakhali	Kalamunshi GPS.	409011205	<LOQ	3.34	<LOQ	not acceptable	RO Filter	<LOQ	0.26	<LOQ
19	Noakhali	Narottampur GPS.	409011109	<LOQ	5.81	<LOQ	not acceptable	RO Filter	<LOQ	0.35	<LOQ
20	Noakhali	Purba Nalua GPS.	409091584	<LOQ	3.37	1625	not acceptable	RO Filter	<LOQ	0.45	120
21	Noakhali	Ramadi Bhuiyarhat GPS.	409011505	<LOQ	5.47	795	not acceptable	RO Filter	<LOQ	0.78	110
22	Noakhali	Sundalpur Md mia GPS	409010901	<LOQ	7.87	<LOQ	not acceptable	RO Filter	<LOQ	0.15	<LOQ
23	Noakhali	Uttar Rameshwerpur GPS	409011403	<LOQ	2.48	670	not acceptable	RO Filter	<LOQ	0.35	140
24	Noakhali	Jadobpur GPS	409011104	0.076	9.38	865	not acceptable	RO Filter	0.007	1.69	115
25	Jhalokathi	Uttor Purba ChechriGPS	503010106	<LOQ	<LOQ	2318	not acceptable	RO Filter	<0.001	<0.1	918

*Semi-Annual Environmental Monitoring Report*

SL No	District	Name of School	EMIS Code	Test Result			Remark	Suggested Option	After intervention		
				As	Fe	Cl			As	Fe	Cl
26	Jhalokathi	Madhya Koykhali GPS	503010502	<LOQ	<LOQ	1484	not acceptable	RO Filter	<0.001	<0.1	526
27	Jhalokathi	Mashabunia GPS	503010410	<LOQ	<LOQ	1475	not acceptable	RO Filter	<0.001	<0.1	501
28	Jhalokathi	Chingrakhali GPS	503010404	<LOQ	<LOQ	1494	not acceptable	RO Filter	<0.001	<0.1	725
29	Jhalokathi	Purba Mohishkandi GPS	503010110	<LOQ	<LOQ	6983	not acceptable	RO Filter	<0.001	<0.1	40
30	Jhalokathi	N. W Sonauta GPS	501020601	<LOQ	<LOQ	4268	not acceptable	RO Filter	<0.001	<0.1	114
31	Jhalokathi	Sonauta GPS	503010304	<LOQ	<LOQ	1941	not acceptable	RO Filter	<0.001	<0.1	223
32	Jhalokathi	E. Tarabunia GPS	503011582	<LOQ	<LOQ	6834	not acceptable	RO Filter	<0.001	<0.1	30
33	Jhalokathi	Amua Board GPS	503010309	<LOQ	<LOQ	1295	not acceptable	RO Filter	<0.001	<0.1	199
34	Jhalokathi	Jorkhali GPS	503010207	<LOQ	<LOQ	1097	not acceptable	RO Filter	<0.001	<0.1	144
35	Jhalokathi	Dakkhin Chechri GPS	503010108	<LOQ	<LOQ	3856	not acceptable	RO Filter	<0.001	<0.1	913
36	Jhalokathi	Dakkhin Koykhali GPS	503010501	<LOQ	<LOQ	1077	not acceptable	RO Filter	<0.001	<0.1	223
37	Jhalokathi	Chechri GPS	503010103	<LOQ	<LOQ	2318	not acceptable	RO Filter	<0.001	<0.1	114

**Appendix-7: Water Quality Monitoring and Surveillance Protocol by DPHE**



পরিধিষ্ট ১-৭ মূলে নির্দেশ করা হয়েছে। নির্বাচিত ক্রিসিক্যাল রাসায়নিক (critical chemical) প্যারামিটারসমূহ নিয়ে বর্ণনা করা হলো।

### আর্সেনিক

১৯৯৩ সালে জু-পর্তস্থ পানিতে আর্সেনিক দূষণের বিষয়টি উদ্ভাষিত হওয়ার পর থেকে বাংলাদেশের ২৭০ টি উপজেলার অগভীর নলকূপসমূহে বিভিন্ন মায়ায় আর্সেনিক দূষণসংঘটিত হয়েছে। আর্সেনিক দূষিত পানি ব্যবহারে ফলে জন্মস্বাস্থ্য ঝুঁকির সম্মুখীন হয়, যা জনসংখ্যার মধ্যে কয়েক বছরের মধ্যে আর্সেনিকোসিস (arsenicosis) এর লক্ষণ হিসেবে প্রকাশ পাবে, এবং আজন্মরূপে ও চর্ম ক্যান্সারও হতে পারে। বাংলাদেশে আর্সেনিকই একমাত্র রাসায়নিক সৌধ যা ফলে স্বাস্থ্যের প্রতি মারাত্মক প্রতিক্রিয়া দেখা দিয়েছে।

নিয়মিত স্যাবরেটস্টী প্রযুক্তি ব্যবহারের মাধ্যমে পানিতে আর্সেনিকের মাত্রার ডিক্রিতে বিশ্ব স্বাস্থ্য সংস্থার গাইড লাইনে (৩য় সংস্করণ) পানীয় জলের সাময়িক গাইড লাইন মান হিসেবে প্রতি লিটার পানীর জলে ০.০১ মিলিগ্রাম (১০ মাইক্রোগ্রাম/লিটার) আর্সেনিকের উপস্থিতি নির্ধারণ করেছে। বাংলাদেশে বর্তমানে আর্সেনিকের ট্যাভার্ড মান প্রতি লিটারে ০.০৫ মিলি গ্রাম বা ৫০ মাইক্রোগ্রাম।

### ক্লোরাইড বা লবণাক্ততা (chloride)

বাংলাদেশের উপকূলীয় অঞ্চলের অগভীর নলকূপসমূহে উচ্চ মাত্রায় ক্লোরাইড বা লবণাক্ততা রয়েছে। লবণাক্ততা অনুপ্রবেশের কারণে বাংলাদেশে অগভীর পানিস্তরে লবণাক্ততা প্রকাশ্যে বাড়ছে। তবে গভীর নলকূপসমূহে সাধারণতঃ কম মানের লবণাক্ততা রয়েছে। পানির গুণাগুণ বিষয়ক বিশ্ব স্বাস্থ্য সংস্থার গাইড লাইনে (৩য় সংস্করণ) স্বাস্থ্যগত কোন গাইড লাইন মান প্রতিষ্ঠা করা হয়নি। তবে লক্ষণীয় যে, প্রতি লিটারে ২৫০ মিলিগ্রাম মাত্রার বেশী লবণাক্ততা পানীয় জলের স্বাদ এবং গ্রহণযোগ্যতার প্রভাব ফেলে। ক্লোরাইড থেকে উদ্ভূত স্বাদ সংযুক্ত কেশনের (cation) উপর নির্ভরশীল এবং সোডিয়াম, পটাশিয়াম এবং ক্যালশিয়াম ক্লোরাইডের মাত্রা প্রতি লিটার পানিতে ২০০ থেকে ৩০০ মিলি গ্রাম। বাংলাদেশে প্রতি লিটার পানিতে ১৫০ থেকে ৩০০ মিলিগ্রাম ক্লোরাইড গ্রহণযোগ্য এবং উপকূলীয় অঞ্চলে ভাল কোম উৎস বা থাকলে প্রতি লিটারে ১০০০ মিলিগ্রাম পর্যন্ত গ্রহণ করা যায়।

### আয়রন বা লৌহ (iron)

পানীয় জলে সাধারণভাবে লক্ষণীয় আয়রন বা লৌহের উপস্থিতি স্বাস্থ্যের জন্য উদ্বেগের বিষয় মানে। যদিও এর নিম্নতর মাত্রায় দূষণে পানির চেহারা ও স্বাদে প্রভাব ফেলে। পানীয় জলের গুণাগুণ বিষয়ক বিশ্ব স্বাস্থ্য সংস্থার গাইড লাইনে (২য় সংস্করণ)-এ প্রতি লিটার পানিতে আয়রনের সাময়িক গাইড লাইন মান ০.৩ মিলিগ্রাম নির্ধারণ করা হয়েছে। তবে এর ৩য় সংস্করণে আয়রনের জন্য কোন গাইড লাইন মান নির্ণয় করা হয়নি।

বাংলাদেশের অনেক অঞ্চলে আয়রনের উপস্থিতি গ্রহণযোগ্য সীমার চেয়ে বেশী। তাই কাঙ্ক্ষিত উদ্দেশ্যে ক্ষুদ্র আয়রন দূরীকরণ ইউনিট (mini iron removal units, IRU)-এর মাধ্যমে আয়রন দূরীকরণের চেষ্টা করা হয়। বাংলাদেশ ট্যাভার্ড অনুযায়ী পানীয় জলে আয়রনের উপস্থিতি হলো ০.৩-১.০ মিলিগ্রাম / লিটার। পল্টী অঞ্চলে যেখানে পানির বিকল্প কোন উৎস নেই, সেখানে প্রতি লিটারে ৫.০ মিলিগ্রাম পর্যন্ত আয়রনের উপস্থিতিও গ্রহণযোগ্য বলে বিবেচিত হয়। এ সীমা বেড়ে গেলে আয়রন দূরীকরণ ইউনিট (iron removal unit) স্থাপন করা প্রয়োজন।

### ম্যাঙ্গানিজ (manganese)

পানীয় জল সংক্রীয় বিশ্ব স্বাস্থ্য সংস্থার গাইড লাইনে (২০০৪) প্রতি লিটারে ০.৫ মিলিগ্রাম ম্যাঙ্গানিজের উপস্থিতি সাময়িকভাবে স্বাস্থ্যগত গাইড লাইন মান হিসেবে গ্রহণ করা হয়েছে। পানি সরবরাহে প্রতি লিটারে ০.১ মিলিগ্রামের অধিক মাত্রায় ম্যাঙ্গানিজের উপস্থিতি থাকলে ক্রমশ পানীয়তে অনাকাঙ্ক্ষিত স্বাদ এবং বাগড় চেপড়ত ও থালা বাসনে দাগ সৃষ্টি করে। বাংলাদেশ ট্যাভার্ড অনুযায়ী পানীয় জলে ম্যাঙ্গানিজের উপস্থিতি হলো ০.১ মিলিগ্রাম / লিটার।


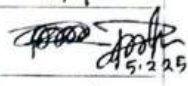

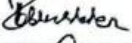

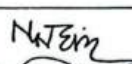

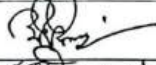
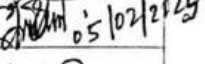
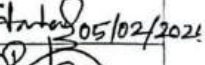


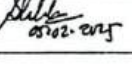
**Appendix-8: Participant attendance sheet and photo of the capacity building program**

জনস্বাস্থ্য প্রকৌশল অধিদপ্তর, চট্টগ্রাম বিভাগ কর্তৃক বাস্তবায়নায়নীয় PEDP-4/GPS/NNGPS প্রকল্পের চলমান কাজের অগ্রগতি পর্যালোচনা সভায় উপস্থিত কর্মকর্তাগণের তালিকা।

সভার স্থান : জনস্বাস্থ্য প্রকৌশল অধিদপ্তর, চট্টগ্রাম বিভাগীয় কার্যালয়।

তারিখ : ০৫/০২/২০২৫ খ্রিঃ, সময় : সকাল ১১.০০ ঘটিকা।

নং	উপস্থিত কর্মকর্তার নাম	পদবী	কর্মস্থল	স্বাক্ষর
১	<del>জনস্বাস্থ্য প্রকৌশল</del>	সহকারী প্রকৌশলী	চট্টগ্রাম বিভাগীয় কার্যালয়, চট্টগ্রাম	
২				
৩				
৪				
৫				
৬	আবির হুদা	সহকারী প্রকৌশলী	চট্টগ্রাম টাওয়ার, চট্টগ্রাম	
৭	md. Nasiruddin	Pro-myswukye/entapm - ety		
৮	ডা.এম. মোস্তাফিজুল করিম খান (বি.এ.)	Asst- H/s Planet world	Chattogram	
৯	Bokhari Azam	M/S. B.L Corporation	Chattogram	
১০	Mohd Haslem Khan-	M/S Khan Ent.	Chattogram.	
১১	kd. Shah Alam			
১২	আবু বাদুয়া	সহকারী প্রকৌশলী	বাঁলাখালী উল্লেখ্য চট্টগ্রাম	
১৩	সঞ্জিত চন্দ্র সরকার	SAE	Bannachale, চট্টগ্রাম	
১৪	ডায়াল মুহাম্মদ দাশ	সহকারী প্রকৌশলী-	স্বাক্ষরিত	
১৫	মিজানুর রহমান	SAE.	স্বাক্ষরিত	
১৬	ডাঃ ইব্রাহিম হান্নান	উপ-সহকারী প্রকৌশলী	রাসুলনিসা	
১৭	এম. রুমত উদ্দিন	S.A.E.	Raouan.	

নং	উপস্থিত কর্মকর্তার নাম	পদবী	কর্মস্থল	স্বাক্ষর
১৮	Sudassy Deoan	A. Assistant Engr	Bhalakuli	 5/12/2025
১৯	Ariyanka Chakma	"	Anowara	 5.2.25
২০	Md Fahad Bhuiyan	SAE	patiya	
২১	Robin Sharker	SAE	Sandwip	
২২	Mahmudul Hasan	SAE	Lohagara	
২৩	NAZIM UDDIN RASEL	SAE	Karnafuli	
২৪	K.M. Sayed Mahmud	AE	Mirsarai	
২৫	Md. Iqbal Hossain	AE	Hathargobi	
২৬	Pranabesh Mahajan	AE	Sitakunda	 05/02/2025
২৭	Md. Farhad Uddin	SAE	Chandanaish	 05/02/2024
২৮	Md. Rasheduzzaman	SAE	Fatikcari	 05/2/25
২৯	Sourav Chakraborty	Supervision Consultant	CTG EXEC Office	 Sourav
৩০	M. Suh Alam	Senior Supervision Consultant	Dhaka	 05/02/2025
৩১				
৩২				
৩৩				
৩৪				
৩৫				
৩৬				
৩৭				



**Photos of the capacity building training held at Chattogram**



**Photos of the capacity building training held at Barguna**

**Appendix-9: Field monitoring photos of the environmental safeguard screening.**



**(a) Monitoring visit photos of the Lalmonirhat district**



**(b) Monitoring visit photos of the Narail district**



**(c) Monitoring visit photos of the Jashore district**



**(d) Monitoring visit photos of the Khulna district**

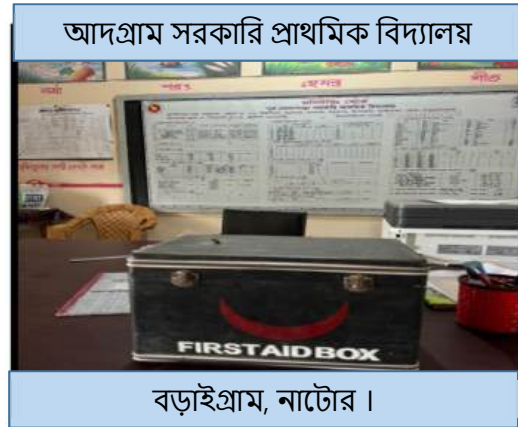
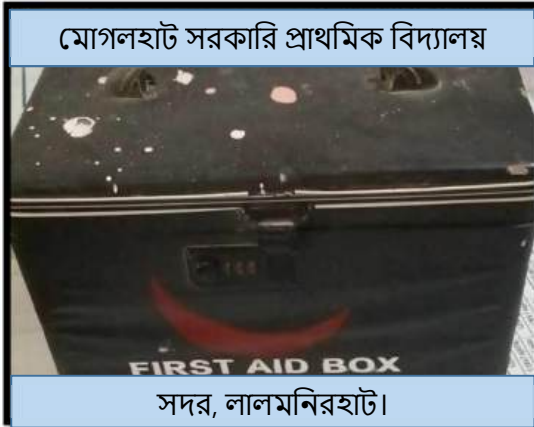


**(e) Monitoring visit photos of the Naogaon district**




**(f) Monitoring visit photos of the Pabna district**

**Appendix-10: Photo logs of safeguard arrangement at school.**




**Appendix-11: Photo logs of OHS education and training**





**Department of Public Health Engineering**  
Sadar, Bhola.



Subject: Discussion about construction site safety at PEDP-4  
Attendance Sheet

Date: 18-02-2025

Sl no.	Name	Designation	Signature
1	ছাঃ নাঈম বিজয়	সি.ই.ই.	[Signature]
2	ছাঃ তাজুল হক	সি.ই.ই.	[Signature]
3	ছাঃ আব্দুল আলম	সি.ই.ই.	[Signature]
4	ছাঃ কবুল আমিন	সি.ই.ই.	[Signature]
5	ছাঃ ফাহিম আরশাদ	সি.ই.ই.	[Signature]
6	ছাঃ হান্নাতুল্লাহ	সি.ই.ই.	[Signature]
7	ছাঃ আব্দুল হক	সি.ই.ই.	[Signature]
8	ছাঃ আব্দুল হক	সি.ই.ই.	[Signature]
9	ছাঃ আমিন হোসেন	সি.ই.ই.	[Signature]
10	ছাঃ আমিন হোসেন	সি.ই.ই.	[Signature]
11	ছাঃ মাহমুদ হোসেন	সি.ই.ই.	[Signature]
12	ছাঃ মিলন মিয়া	সি.ই.ই.	[Signature]
13	ছাঃ ওয়ালিদুল্লাহ	সি.ই.ই.	[Signature]
14	ছাঃ আব্দুল কাদের	সি.ই.ই.	[Signature]
15	ছাঃ আব্দুল কাদের	সি.ই.ই.	[Signature]
16	ছাঃ আব্দুল কাদের	সি.ই.ই.	[Signature]
17	ছাঃ আব্দুল কাদের	সি.ই.ই.	[Signature]
18	ছাঃ আব্দুল কাদের	সি.ই.ই.	[Signature]

**Appendix-12: Task specific safety checklist.**

**Task Specific Safety Checklists**

District: Cumilla

Upazilla: Meghna

Name of School: SHAKHER GOWN GOVT. PRIMARY SCHOOL

EMIS Code: 91406130304

Type of work: Wash Block

	Inspection Items	Yes	No	Partial	Remarks
Site Preparation	Is necessary approval/permission obtained from authority?	✓			
	Has a thorough site assessment been conducted to identify potential hazards?	✓			
	Have necessary barriers or fences been installed around the site to prevent unauthorized access?	✓			
Personal Protective Equipment (PPE)	Is it ensured that all workers are equipped with appropriate PPE including- 1. safety helmet 2. gloves 3. safety boots 4. protective standard clothing 5. eye protection			✓	
	Is it ensured that trenches and excavations are properly shored, sloped, or benched to prevent collapses?	✓			
	Is it ensured that scaffolding is properly erected and inspected before use?	✓			
	Are safety guidelines followed when handling and pouring concrete, including proper lifting techniques and PPE?	✓			
	Is proper drainage system installed to handle wastewater and prevent flooding?	✓			
Excavation and Construction Work	Are construction materials stored securely to prevent shifting or collapsing?	✓			
	Are safety harnesses and falling protection tools used while working at heights?	✓			
	Are formwork and scaffolding ladders, and other work platforms inspected regularly?	✓			
Work at Height	Is safety net provided properly?	✓			
	Are eco-friendly materials with low environmental impact used?	✓			
Environmental and Health Considerations	Is it ensured that workers are hydrated and take breaks in hot weather conditions?	✓			
	Is first aid kit kept available on-site?	✓			

  
 Signature of Sub-Assistant Engineer  
 Md. Ahsanul Islam  
 Sub-Assistant Engineer  
 Department of Public Health Engineering  
 Meghna, Cumilla

Signature of AE

  
 Signature of Executive Engineer  
 (প্রকৌশল মোহাম্মদ নাসরুদ্দীন)  
 নির্বাহী প্রকৌশল  
 জনস্বাস্থ্য প্রকৌশল অধিদপ্তর  
 কুমিল্লা বিভাগ, কুমিল্লা।

**Task Specific Safety Checklists**

District: Cumilla

Upazilla: Meghna

Name of School: NALCHAR GOVT. PRIMARY SCHOOL

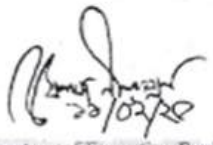
EMIS Code: 91406130104

Type of work: Water Sources

	Inspection items	Yes	No	Partial	Remarks
Site Preparation	Is necessary approval/permission obtained from authority?	✓			
	Is the site free from overhead power lines and other utilities?	✓			
	Are there any underground utilities (gas, water, sewage etc.)?		✓		
	Has debris or obstacles been cleared from the site? (if any)	✓			
	Has the boring area been clearly marked?	✓			
	Have necessary barriers or fences been installed around the site to prevent unauthorized access?	✓			
Personal Protective Equipment	Is it ensured that all workers are equipped with appropriate PPE including- 1. safety helmet 2. gloves 3. safety boots 4. protective standard clothing 5. eye protection			✓	
Borehole Drilling	Is the drilling rig set up on stable ground and properly leveled?	✓			
	Is an accurate alignment of the borehole ensured to prevent deviation or collapse?	✓			
	Has an appropriate drilling fluid been used?	✓			
	Is drilling technique used minimize waste generation?	✓			
Work at Height	Has tripod been in good condition, stable, and set on a firm surface?	✓			
	Are safety harnesses and falling protection tools used while working at heights?	✓			
Environmental and Health Considerations	Are measures taken to prevent contamination of groundwater during drilling?	✓			
	Is it ensured that workers are hydrated and take breaks in hot weather conditions?	✓			
	Is first aid kit kept available on-site?	✓			
Final Inspection	Has the site been cleaned up after the work?	✓			
	Has a final walkthrough of the site been conducted with the owner to inspect the well and the surrounding area?	✓			

  
Signature of SAF  
**Md. Faysal Ahmmad**  
Sub-Assistant Engineer  
Department of Public Health Engineering  
Meghna Cumilla

Signature of AE

  
Signature of Executive Engineer  
(স্বাক্ষরিত মোহাম্মদ হোসেন)  
নির্বাহী প্রকৌশলী  
জনস্বাস্থ্য প্রকৌশল অধিদপ্তর  
কুমিল্লা বিভাগ, কুমিল্লা।

**Appendix-13: Accident checklist.**

**Accident Checklist**

District: Cumilla

Upazilla: Laksam

Name of School: Dombaria Govt. Primary School


EMIS Code: 99406029017

Type of work: Wash Block

**Details of the Person(s) Injured**

<b>Full name</b>	Md. Abdul Halim	<b>Date of the accident</b>	13/10/2024
<b>Job title or role</b>	Labor	<b>Time of the accident</b>	2.15 PM
<b>Contact information</b>	Laksam, Cumilla	<b>Location of accident</b>	School play ground
<b>Description of the Accident</b>		<b>Description of the injuries</b>	
During the masonry work, the victim stumbled on a brick.		Minor scratching on the knee.	
<b>Cause of the Accident</b>		Minor	Serious
Carelessness and improper arrangement of the extra bricks on site.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<b>Immediate Actions Taken</b>	
		First aid administered	Yes
		Medical treatment received	
Any other immediate actions			
<b>Names and contact information of any witnesses</b>	Md. Foyzal, Student of the respective school.		
<b>Witness statements or accounts of the accident</b>	The victim had fall down while caring mortar for plastering.		
<b>Actions Taken</b>	Yes	No	N/A
<b>Recommendations for future prevention</b>			
Are there immediate corrective actions to prevent further incidents?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there long-term measures planned or implemented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are accident reported to relevant authorities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the incident recorded in the health and safety record?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there updates to safety procedures or training if necessary?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are there follow-up and support?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Goods and materials in stock can be properly arranged and kept in a temporary shed.	

Signature of the person filling out the report  
Designation:

  
19.03.25  
Signature of Engineer in Charge  
মোঃ সাহিবুল ইসলাম  
উপ-সহকারী প্রকৌশলী  
জনস্বাস্থ্য প্রকৌশল অধিদপ্তর  
লাকসাম উপজেলা, কুমিল্লা।

Appendix-14: Environmental clearance certificate.

Appendix-10: A letter from DoE about environmental clearance certificate

নং-২২.০২.০০০০.০১৮.৫২.০০১.২৪- ৯৬৫

০৮/০১/১৪৩১ বঙ্গাব্দ  
তারিখ: -----।  
২২/০৪/২০২৪ খ্রিষ্টাব্দ

বিষয়: চতুর্থ প্রাথমিক শিক্ষা উন্নয়ন কর্মসূচীর (পিইডিপি ৪) আওতায় সরকারি প্রাথমিক বিদ্যালয়ে অতিরিক্ত শ্রেণিকক্ষ/ভবন নির্মাণের ক্ষেত্রে পরিবেশগত বিষয়ে মতামত প্রদান।

সূত্র: প্রাথমিক শিক্ষা অধিদপ্তর'র গত ০৩/০৪/২০২৪ তারিখের ৩৮.০১.০০০০.৭০০.১৪.০১৮.১৮.১৪/১(৫) স্মারকের পত্র।

উপর্যুক্ত বিষয়ে সূত্রস্থ পত্রের পরিপ্রেক্ষিতে মহোদয়ের সদয় অবগতির জন্য জানানো যাচ্ছে, পরিবেশ সংরক্ষণ বিধিমালা, ২০২৩ অনুযায়ী বিদ্যালয় ভবন নির্মাণ কার্যক্রম পরিবেশগত ছাড়পত্র প্রদানের জন্য তফসিলকৃত নয় এবং এ ক্ষেত্রে তফসিল-১৪ প্রযোজ্য হবে না। তাই, এ ধরনের কার্যক্রমের জন্য পরিবেশ সংরক্ষণ বিধিমালা, ২০২৩ এর আওতায় পরিবেশগত ছাড়পত্র প্রযোজ্য নয়। তবে, আলোচ্য কর্মসূচীর আওতায় ভবন নির্মাণ কার্যক্রম চলাকালে নিম্নবর্ণিত নির্দেশনাসমূহ প্রতিপালনের জন্য নির্দেশক্রমে অনুরোধ করা হলো:

১. আলোচ্য কার্যক্রমের ফলে সৃষ্ট শব্দ এবং তরল/বায়বীয় বর্জ্যের নিয়ন্ত্রণ/নির্গমন মাত্রা যথাক্রমে শব্দ দূষণ (নিয়ন্ত্রণ) বিধিমালা- ২০০৬, পরিবেশ সংরক্ষণ বিধিমালা, ২০২৩ এবং বায়ুদূষণ নিয়ন্ত্রণ বিধিমালা, ২০২২-এ উল্লিখিত মানমাত্রার মধ্যে হতে হবে;
২. আলোচ্য কর্মসূচীর কার্যক্রমের মাধ্যমে কোন নদী/খাল/হাওর/বাওর/দিঘি/পুকুর/জলাশয় ভরাট করা যাবে না;
৩. কর্মসূচীর কার্যক্রমের মাধ্যমে কোন পাহাড়/টিলা কর্তন/মোচন করা যাবে না।

✓ মহাপরিচালক  
প্রাথমিক শিক্ষা অধিদপ্তর  
সেকশন-২, মিরপুর, ঢাকা-১২১৬।  
(দু:আ: ড. মো: নূরুল আমিন চৌধুরী, পরিচালক)

অনুলিপিঃ

- ১। সহকারী পরিচালক, মহাপরিচালক মহোদয়ের কার্যালয়, পরিবেশ অধিদপ্তর, সদর দপ্তর, ঢাকা।

very important  
A.D.-1  
Please preserve in  
guard file  
7-5-22y.  
মাসুদ ইকরুল মোঃ শামীম  
পরিচালক (পরিবেশগত ছাড়পত্র)  
ফোন: ০২-২২২১৮৩৪২

**Appendix-15: Pictures of the RO filter.**



Shukainpur Furfura primary school



Ram prosad jaintapur



Paikraj government Primary School



Sittingbari Government Primary School