

**GOVERNMENT OF THE PEOPLE’S REPUBLIC OF BANGLADESH**

**Ministry of Local Government, Rural Development and Cooperatives  
Local Government Division  
Local Government Engineering Department**



**Fourth Primary Education Development Program (PEDP4)**

**Semi-annual Environmental Monitoring Report-VIII**

**(Jan.-June, 2023)**

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## Abbreviations:

<b>EMF</b>	Environmental Management Framework
<b>GPS</b>	Government Primary School
<b>EIA</b>	Environmental Impact Assessment
<b>DPE</b>	Directorate of Primary Education
<b>ECC</b>	Environmental Clearance Certificate
<b>EMP</b>	Environmental Management Plan
<b>GOB</b>	Government of Bangladesh
<b>SEMR</b>	Semi-annual Environmental Monitoring Report
<b>IEE</b>	Initial Environmental Examination
<b>LGED</b>	Local Government Engineering Department
<b>MoPME</b>	Ministry of Primary and Mass Education
<b>PEIMS</b>	Primary Education Infrastructure Management System
<b>PEDP4</b>	Fourth Primary Education Development Program
<b>SAE</b>	Sub-Assistant Engineer
<b>SE</b>	Superintending Engineer
<b>SMC</b>	School Management Committee
<b>UE</b>	Upazila Engineer
<b>WB</b>	The World Bank
<b>EU</b>	European Union
<b>JICA</b>	Japan International Cooperation Agency
<b>UNICEF</b>	United Nation International Children Emergency Fund
<b>BoQ</b>	Bill of Quantity
<b>ADB</b>	Asian Development Bank
<b>URC</b>	Upazila Resources Center

### **Executive Summary:**

The purpose of Semi-annual Environmental Monitoring Report (SEMR) is to present the status of safeguard measures taken to mitigate the environmental impacts arisen due to construction of sub-projects under PEDP4. The Fourth Primary Education Development Program (PEDP4) 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 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 utilisation to achieve the desired goal. 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.

### **Cumulative status of the Sub-projects: (Table-1)**

Sl. No.	Type of Sub-project	No. of Sub-projects (Jan. - June., 2023)	Cumulative No. of Sub-projects (July,2018-June, 2023)	Type of Sub-project	EMP cost incorporated/ omitted in BoQ	Work Status/ % of completion
1	Additional room construction of School	968	9008	Orange	EMP cost is incorporated in BoQ	Tendering and different stages of construction
2	Expansion and construction of DD Office	--	01	Orange	EMP cost is incorporated in BoQ	Do
3	Expansion and construction of DPEO Office	03	16	Orange	EMP cost is incorporated in BoQ	Do
4	Expansion of PTI	20	37	Orange	EMP cost is incorporated in BoQ	Do
5	Teachers' rooms	3157	3157	Orange	EMP cost is incorporated in BoQ	Do
6	URC (Upazila Resources Center)	13	13	Orange	EMP cost is incorporated in BoQ	Do
	<b>Total</b>	<b>4161</b>	<b>12232</b>			

The above-mentioned table demonstrates the cumulative status of sub-projects on environmental management and conservation of PEDP4. The table indicates that LGED have taken total 4161 sub-projects for expansion and construction of additional rooms including other institutional infrastructures such as PTI, URC, DD and DPEO offices during the reporting period (Jan.- June, 2023). This SEMR has been prepared based on 4161 sub-projects consisting of 3157 (75.87%) teachers' rooms, 968 (23.27%) schools, 13(0.31%) URCs, and 23 (0.55%) other institutional infrastructures. The table presented above indicates that all the sub-projects are in category "Orange" 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 prevailing grounds.

Overall physical progress of PEDP4 development activities has not been achieved as planned in many cases during the reporting period (Jan.-June'2023) 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. Furthermore, no loss of forest and agricultural land were also reported. Furthermore, many positive impacts and environment enhancement are being generated due to sub-projects implementation. 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 the mitigation measures of environmental impacts are very important during sub-projects construction and pre-construction phases.

## **1. INTRODUCTION**

### **1.1. Background**

The PEDP4 is supporting quality primary education through sustainable and appropriate infrastructure development, and maintenance to ensure child and environment friendly education institutions, and its effective utilisation 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 supporting quality, inclusive and equitable education in Bangladesh through enhancing of teaching-learning methods, and providing additional physical facilities for schools and others intuitions of Directorate of Primary Education (DPE). 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 hilly terrains, seismic zones, coastal areas, waterlogged *haor*, saline, drought, and flood prone areas.

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

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**

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**

Types of subprojects considered under PEDP4 are as follows:

- (i) Need-based school infrastructure
- (ii) Primary education field office buildings including DPE HQ, DD Office, DPEO Office, UEO/TEO Office, Cox's Bazar Leadership Training Centre, PTIs & URCs
- (iii) Office buildings of other institute under MOPME and National Academy for Primary Education (NAPE)

**Table 2: Type of sub-projects and intervention under PEDP4**

Category	Interventions
1. Need Based School Infrastructure	<ul style="list-style-type: none"> <li>a. Additional classrooms ;</li> <li>b. Additional teacher rooms;</li> <li>c. Head Teacher rooms;</li> <li>d. Additional WASH Blocks;</li> <li>e. Safe water sources for drinking;</li> <li>f. Boundary wall;</li> <li>g. Playing items/accessories;</li> <li>i. Maintenance</li> </ul>
2. Primary Education Field Office buildings including DPE HQ, Cox's Bazar Leadership Training Centre, PTIs & URCs	<ul style="list-style-type: none"> <li>a. Construction and expansion of DPE HQ including a mosque;</li> <li>b. Vertical extension of DPE central warehouse,</li> <li>c. Expansion/new construction of DD offices;</li> <li>d. Expansion/new construction of DPEO offices;</li> <li>e. Construction and expansion of leadership training center at Cox's Bazar;</li> <li>f. Expansion/new construction UEO offices;</li> <li>g. Expansion/new construction of URCs;</li> <li>h. PTI infrastructure development.</li> </ul>
3. National academy for primary education (NAPE)	<ul style="list-style-type: none"> <li>a. Land development;</li> <li>b. Boundary wall &amp; gate;</li> <li>c. Trainees' dormitory building;</li> <li>d. Renovation of DG's quarter;</li> <li>e. A multi-storied officers' quarter;</li> <li>f. Guest house renovation;</li> <li>g. DTW &amp; Water Supply Lines;</li> <li>h. Internal roads, walkways and circular jogging track;</li> <li>i. Drainage system;</li> <li>j. Walkway</li> <li>k. Generator room</li> <li>l. Roof gardening</li> <li>m. Mini orchard in front of NAPE building</li> </ul>



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

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. 2.1 Implication and compliance of the polices**

The relevant policies and legislations emphasize the importance of environmental consideration in the program planning and implementation to promote sustainable development. These provide the general guidelines to integrate environmental issues with different sectors of projects and programs. The ECR '97 (with amendments later) is the main legislation in Bangladesh. ECR '97 defined different sectors (industries and projects) as 'Green', 'Orange-A', 'Orange-B' and 'Red' categories, without considering the extent and types of interventions. Construction of multi-storied buildings is considered as the 'Orange A' and 'Orange B' category in ECR'97. Recently, Categories of environmental pollution levels have been changed as Green, Yellow, Orange, and Red, instead of 'Green', 'Orange-A', 'Orange-B' and 'Red' categories.

Though there is no fixed definition of a multi-storied high rise building. In practice, building more than 10 storied within Dhaka City (as per Building Construction Rules of RAJUK) and building more than 6-storied building outside Dhaka city is considered as 'Orange' category. It is likely that the primary schools outside Dhaka city will not be more than 6- storied building and as such, no environmental clearance will be required. However, if new construction more than 6-storied building is considered such as the NAPE dormitory building, Initial Environmental Examination (IEE) and Environmental Management Plan (EMP) would be required to get the environmental clearance from the Department of Environment (DOE) as per ECR'97. 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 intervention.

## 2.2 Implication and Compliance of the ADB Loan Covenants:

The compliance status to ADB loan covenants relevant to environmental safeguards are listed as below:

**Table:-3 Compliance with ADB Loan Covenants**

Sl. 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, decommissioning of all activities under the program comply with all applicable laws, regulations and guidelines related to health and safety, environmental safeguard.	Complied	The applicable laws, regulations and guidelines related to the 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 wash blocks and water sources were 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,	Complied	No negative risks or impacts on tribes or minor races, ethnic sects and communities

		ethnic sects and communities.		were reported through the comprehensive environmental and social safeguard screening.
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### 3. Environmental Management Process of PEDP4

To avoid negative environmental impacts and enhance environmental outcomes of the activities implemented under individual “subprojects”, ADB’s Safeguard Policy Statement (2009) is triggered for PEDP4.

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).

#### 3.1 Categorization of Sub-projects

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-4 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-4: Categorization of Sub-projects:**

NO.	Types/ Interventions of Sub-projects	Govt. Category	Environmental Documentation Required
1	Maintenance of school	Green	No environmental screening required as these subprojects 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.	Yellow	Require environmental screening. EMP is required as these subprojects are likely to have minimal environmental impacts.
3	Construction of new school and Office buildings more than 6 storied (if any).	Orange	Require an IEE as these subprojects are likely to have potential environmental impacts. Environmental clearance from DOE is required.

#### 4.0. The Sub-projects:

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

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, teachers' rooms, head teachers' rooms and other infrastructures. Under PEDP4, 40000 additional rooms for students & teachers and 10500 rooms for head teachers have been targeted for construction. Beside this, 8 Divisional Deputy Director (DD) office, 64 District Primary Education Office (DPEO), 365 Upazila Education Office (UEO), Thana Education Office (TEO), 285 Upazila Resource Centre (URC), 67 Primary Training Institute (PTI) and Dormitory building of National Academy for Primary Education (NAPE) are also planned for expansion and construction under PEDP4 through LGED.

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):

In PEDP4, forty 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.

##### Cumulative status of Sub-projects: (Table-5)

Sl. No.	Type of Sub-project	No. of Sub-projects (Jan. - June., 2023)	Cumulative No. of Sub-projects (July,2018-June, 2023)	Type of Sub-project	EMP cost incorporated/ omitted in BoQ	Work Status/ % of completion
1	Additional room construction of School	968	9008	Orange	EMP cost is incorporated in BoQ	Tendering and different stages of construction
2	Expansion and construction of DD Office	--	01	Orange	EMP cost is incorporated in BoQ	Do
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6	URC (Upazila Resources Center)	13	13	Orange	EMP cost is incorporated in BoQ	Do
	<b>Total</b>	<b>4161</b>	<b>12232</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 4161 sub-projects for construction and expansion of additional rooms including other institutional infrastructures such as PTI, URC, DD and DPEO offices during the reporting period (Jan.'23- June'23). This SEMR has been prepared based on 4161 sub-projects consisting of 3157 (75.87%) teachers' rooms, 968 (23.27%) schools, 13(0.31%) URCs, and 23 (0.55%) other institutional infrastructures. Additionally, the above table presents that all the sub-projects are in category "Orange" and cost of EMP implementation already included in BoQ and mostly are at tendering, implementing, and different stages of construction.

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

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

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 will also monitor and supervise 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:**

A total 4161 sub-projects were screened for construction and expansion of additional rooms including other institutional infrastructures during the current reporting period. The sub-projects include 3157 teachers' rooms, 968 schools, 13 URCs (Upazila Resources Centers) and 23 institutional infrastructures such as PTI, and DPEO offices etc.

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

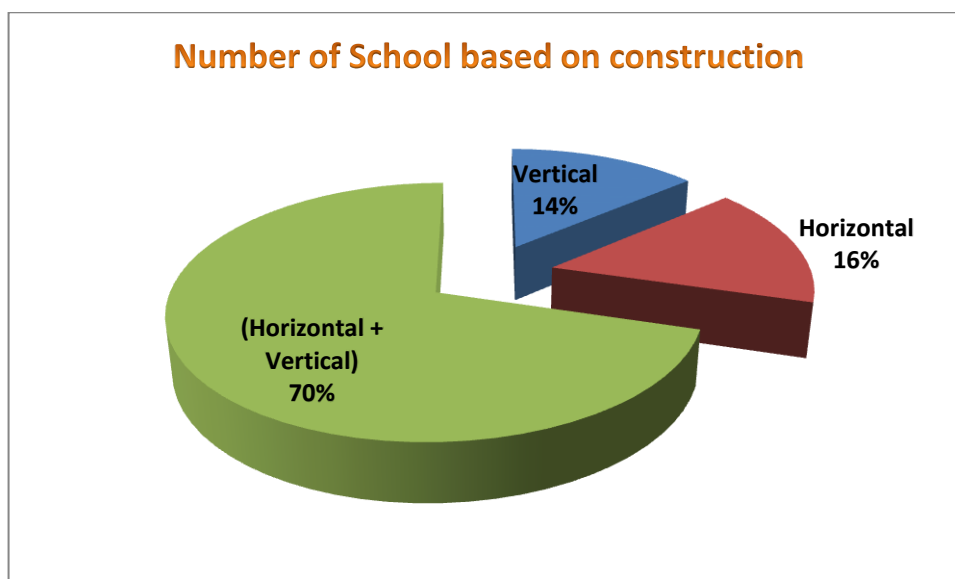
Here, in the table: 5, presented below a cumulative total 9008 schools were screened for construction of 37963 additional rooms during the reporting period (July, 2018-June, 2023).

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

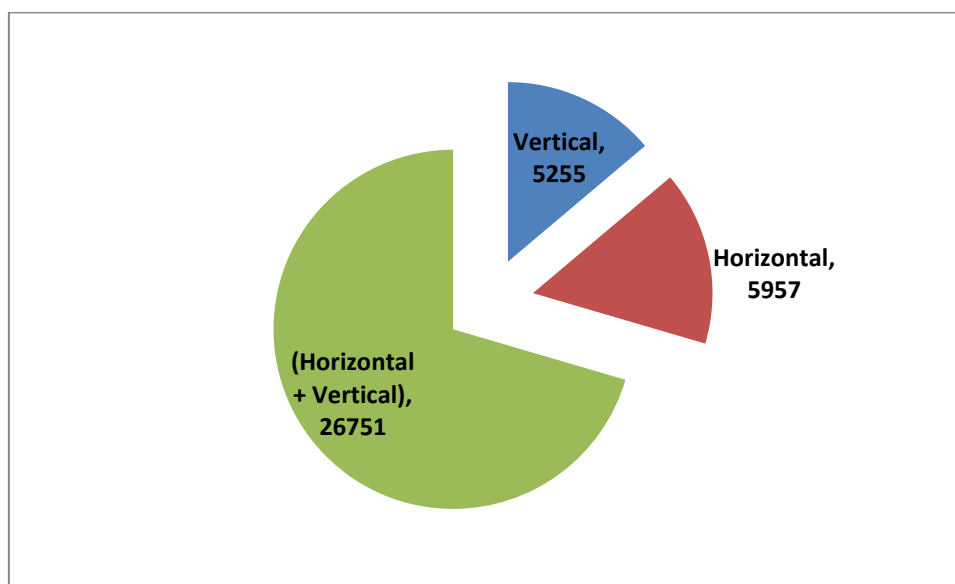
**Table-6: Type of School (Cumulative) based on construction**

<b>Sl. No.</b>	<b>School Type based on construction</b>	<b>No. of School (July, 2018-June, 2023) (No of Room)</b>
1.	Vertical	1275 (5255)
2.	Horizontal	1822(5957)
3.	(Horizontal + Vertical)	5911 (26751)
	Total	9008 (37963)

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



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



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

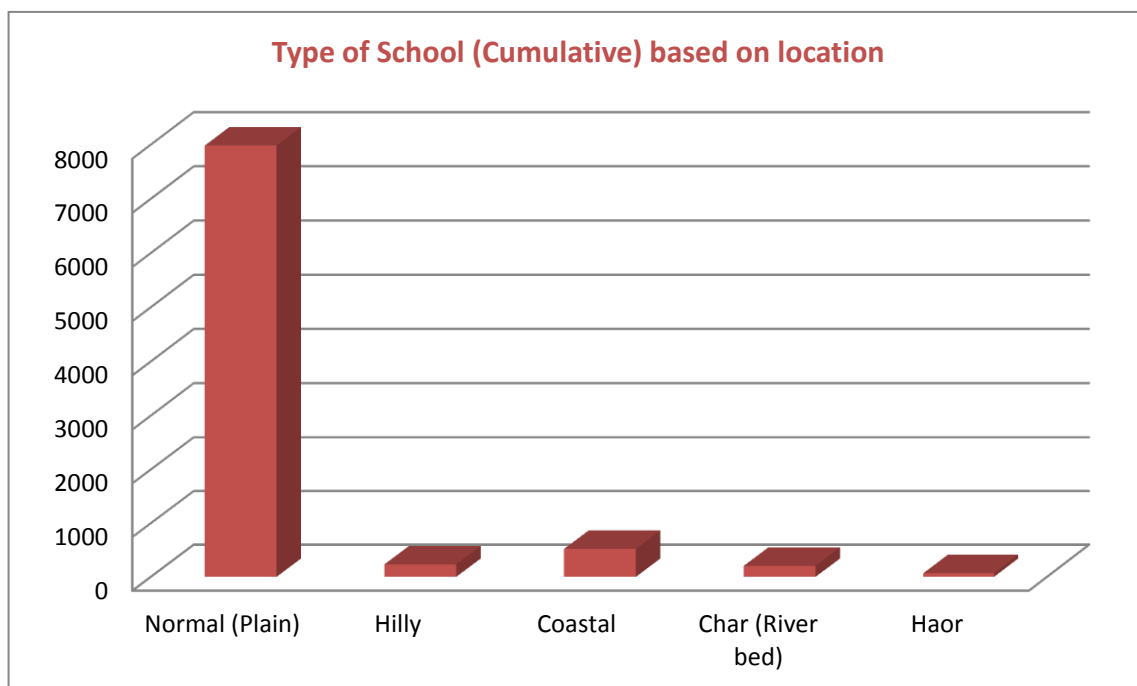
The table presented below shows that 9008 schools having 7982 in plain , 232 in Hilly , 521 in Coastal belt , 69 in Haor and remain 204 in Char area were screened at the end of the reporting period (July, 2018 –June,2023). Overall, the number of schools in plain area was 88.61 % of total schools screened.

**Table-7 Type of School (Cumulative) based on location/topography**

Sl.No .	School Type based on location	No. of School (July,2018 – June, 2023) No (School)
1	Normal (Plain)	7982
2	Hilly	232
3	Coastal	521
4	Char (River bed)	204
5	Haor	69
<b>Total</b>		<b>9008</b>



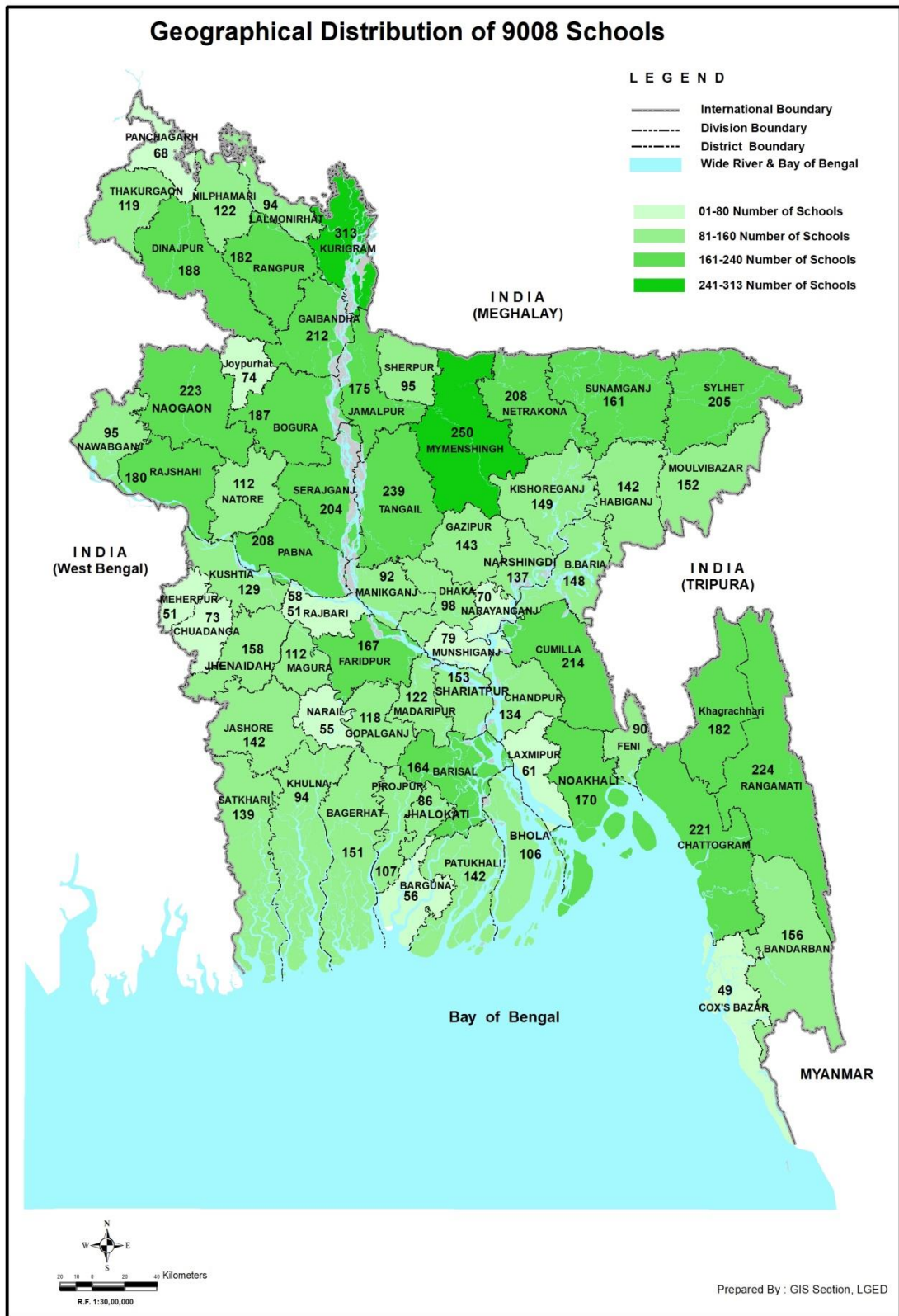
**Fig-3: Type of School (Cumulative) based on locations/topography:**



**C) Geographical distribution of School:**

The district wise geographical distribution of 9008 schools undertaken for construction is presented in a map given below:

## Geographical Distribution of 9008 Schools



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

Environmental Management Plan (EMP) is a key tool to assess the environmental monitoring and degradation of PEDP. 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. Unless the mitigation and benefit enhancement measures identified in the Site Specified Initial Environmental Examination (SSIEE) are fully implemented, the prime function of SSIEE cannot be achieved. 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:**

A substantial number of sub-projects are being extended vertically 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 were also reported during the current reporting period.

#### **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.

**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.

**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.

**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.

**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.

**Employment Generation/Income:** During construction, a considerable numbers 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.

**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.

**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.

**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 habitants and their ecology may be damaged. Birds and insects loss their habitants 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.

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

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-8: Mitigation/ benefit enhancement measures have been done properly those are given below:**

<b>Environmental Issues/Impacts</b>	<b>Mitigation/Enhancement Measures</b>
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. Casting of major parts such as slab and foundation were done during weekend.
Location and disruption of earth surface	Disruptions of earth surface have been kept minimal for smooth implementation of work at construction site.
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
Wash Block	Wash block were provided for the workers, teachers and students. Toilets for male and female students were separated.
Tree Plantation	Trees were planted in proper place around the boundary of school campus. Indigenous plants were got priority for plantation.
Drainage congestion	Adequate drainage facilities have been provided in campus and construction camp for minimizing water logging.
Employment generation/ income	Local poor and affected persons were engaged in sub-project works and contractors were encouraged to engage women workers. Also contractors are encouraged to pay proper wage to workers. In the hilly area indigenous people were got priority to engage construction works.
Occupational Health Safety(OHS)	Project workers were provided PPE, First Aid Box, face mask, quality drinking water, hygienic toilets and WASH facility.
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.
Environmental risks	Standard planning and designs were ensured by LGED.

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

Mitigation measures were taken care 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. 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
- e. Helmets were worn by the workmen and other personnel during work
- f. Toxic materials were barred in the construction such as lead based paints, asbestos etc.
- g. Building materials those potentially threaten the environment were discouraged
- h. Fencing was provided around the construction site
- 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. 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
- k. 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

In addition to avoid any accidental risk proper precaution measures were taken up. Medical 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.

### **7.0 Positive impacts/environment enhancement:**

#### **7.1. Positive impact:**

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.

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

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:**

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 engineer regarding the sub-project site shifting have been carried-out.

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

Though 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 during the reporting period (Jan.- June'2023) to protect the pandemic situation of covid-19:

#### **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.

#### **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 musk supplied from contractors when they were in construction works of school building and other institutions.

#### **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.

#### **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.

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

During the reporting period, LGED received only 37 general and major complains. Among them 03 complains are solved with the intervention of field level officials and SMC. And 25 complains are under investigation. Grave complains are lodged for twenty four schools. These are in 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, 20 complains are found from the daily newspapers, these are also under investigation. LGED does not use any specified form for this 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 list in hand, LGED checks land documents to verify on spot and avoid land related problems at the master plan preparation stage.

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 locality.



**Table-9 Grievance Redress Mechanism (GRM) as general during the reporting period:**

Complaint or affected person	Location and date of Complaint	Description of Grievance/Complaint	Timeline	Complaint Status	Time-bound Corrective Actions taken by PMU
PTI Instructor	Rajshahi and Sylhet Date:19.03.2023	Lifts are not suitable for using, Complaint didn't come yet from field level	26 <sup>th</sup> April, 2023	Complied	02
Headmaster	Fenchuganj, Sylhet Date: 16.04.2023	Contractor is engaged with the irregularities, and later found guilty to recruitments process, the contractors were kept in black list, and later Ministry was known the incident.	5 <sup>th</sup> June, 2023	Complied	00
Local people	Sunamgonj Date: 06.03.2023	Allegation for tendering of workshop, from SE, it is known that the allegation is baseless.	16 <sup>th</sup> April, 2023	Complied	01
Local people	Taltoli, Borguna Date: 03.04.2023	Excess bill was provided to the workers. SE was enquiring the allegation, and it is still unresolved	15 <sup>th</sup> June, 2023	Complied	00
SMC	Hatia, Noakhali Date: 04.04.2023	Rod was not set up according to the schedule, it is still in hanging	5 <sup>th</sup> June, 2023	Complied	00
Local people	Vanga, Faridpur Date: 07.03.2023	With the allegation of local people construction works of Mia Para GPS were holding unless the case was withdrawn. SE (R) was responsible to investigate the allegation. The allegation was baseless	6 <sup>th</sup> April, 2023	Complied	00

**Table-10 Grievance Redress Mechanism (GRM) as major during the reporting period:**

Complaint or affected person	Location and date of Complaint	Description of Grievance/Complaint	Timeline	Complaint Status	Time-bound Corrective Actions taken by PMU
Headmaster	Chirirbandar, Dinajpur Date:14.03.23	Without constructing boundary wall, bills were raised up. After examining the allegation it was found that the construction works had been completed	8 <sup>th</sup> May, 2023	Complied	0
SMC	Badargonj, Rangpur Date: 10.05.23	It was complained that footing was less than the standard structure. Examination is going on under divisional phase.	13 <sup>th</sup> June, 2023	Complied	0
SMC	Fakirhat, Bagerhat Date: 05.06.23	The contractors were stopped the construction works for a long time. After examining the allegation the contractor was debarred.	22 June, 2023	Complied	0

Moreover, twenty school building problems have been highlighted so far regarding the infrastructure problems of primary schools and published in various newspapers from January to June, 2023.

In light of the said report, letters and newspaper reports have been sent from LGED (PEDP4) to the concerned Upazila Engineers in respect of twenty schools, for taking appropriate actions.

In this regard, the Upazila Engineers have been instructed to verify the current condition of the school 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 report.

## **10.0 Environmental Monitoring**

### **10.1 Construction phase Monitoring**

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 6024 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.

Environmental Specialist of PEDP4, LGED monitors the environmental impact and EMP in every month 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, headmaster of the relevant school and members of the SMC committee. Different types of environmental and social impacts, EMP, labor issues, hygiene, and sanitation of the students and teachers are discussed elaborately.

Table: Summary of the monitoring visits of Environmental Specialist during the reporting period.

**Table 11: Visit the subprojects of PEDP 4 during the reporting period**

Sl.No.	Name of the subprojects	District	Upazila	Date of Monitoring
1.	Khashnaogaon Government Primary School	Naogaon	Naogaon Sadar	21.05.23
2.	Anandanagar Government Primary School	Naogaon	Naogaon Sadar	21.05.23
3.	Erulia Government Primary School	Bogura	Bogura Sadar	23.05.23
4.	Thanthania Government Primary School	Bogura	Bogura Sadar	23.05.23
5.	A.Kader Chowdhury Government Primary School	Barishal	Barishal Sadar	19.06.23
6.	Bishasherhat Government Primary School	Barishal	Barishal Sadar	19.06.23
7.	Dhakhin Sakokhati Government Primary School	Barishal	Gouranadi	20.06.23
8.	No. 4 Dhakaail Government Primary School	Barishal	Gouranadi	20.06.23



**Picture: Environmental Specialist was inspecting construction works at Erulia GPS in Bogra Sadar, Bogra.**



**Picture: Environmental Specialist and Upazila Engineer jointly inspecting construction works at Thanthania GPS in Bogra Sadar, Bogra.**

**Table 12: Result of construction phase monitoring**

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.	5919	105	UEs have been asked to take measures for stacking materials properly. Duration/Month: September,2023
2.	The contractor will ensure supply of pure drinking water to the workers during the time of construction.	5880	144	In many cases water are collected from nearby sources by the contractors for construction work. UEs have been asked to install tube well. Duration/Month: September,2023
3.	The contractor will keep a first aid box at the site for any accident.	5911	113	Upazila Engineers have been asked to ensure keeping the first aid box at the work sites immediately. Duration/Month: November,2023
4.	The contractor will take necessary precaution for the safety of his workers and also for the safety of the pedestrians.	5901	123	UEs have been instructed to take proper action immediately Duration/Month: November,2023
5.	The contractor will not cut or damage any tree in and around the project area without the permission of the supervising authority.	5923	101	UEs have been instructed not to cut tree without observing existing rules and procedures. Duration/Month: August,2023
	The contractor will erect sufficient number of temporary sanitary toilets and shelter both for male and female workers at the site with proper sanitation system.	5786	238	Upazila Engineers (UEs) have been instructed to erect required sanitary toilets at work site through concerned contractors and fill up the monitoring check list in due course. Duration/Month: October,2023
6.	The contractor will not engage any child labor in the work.	6024	-	UEs have been instructed to take appropriate measures not to engage child labor
7.	The contractor will not pollute any nearby source of surface water by any of their activities.	5957	67	UEs have been instructed to take proper action through contractor not to pollute surface water. Duration/Month: October, 2023
8.	The contractor will try to minimize	5903	121	UEs have been advised to cast the major items in the weekend.

Sl. No.	Categories of potential environmental issues	Followed (PEIMS monitoring software and physical verification)	Not followed	Remarks/ Possible mitigation measures with specific time
	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.			Duration/Month: November,2023
9.	The contractor will not hamper the drainage network of the area by any of their activity.	5986	38	UEs have been asked to take proper measure to solve drainage congestion if any without fail. Duration/Month: September,2023

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

### 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 is 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

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.

## 12. Consultation Meeting:

The first consultation 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 and local communities.

The second consultation 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 4000 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-13: Consultation Meetings conducted during January-June, 2023**

Package	Date of Consultation	Type of Consultation	Venue	No. of Participants		
				Male	Female	Total
1.	21.05.23	Physical	Naogaon Sadar Upazila	8	1	9
2.	21.05.23	Physical	Naogaon Sadar Upazila	11	8	19
3.	23.05.23	Physical	Bogura Sadar Upazila	6	3	9
4.	23.05.23	Physical	Bogura Sadar Upazila	5	5	10
5.	19.06.23	Physical	Barishal Sadar Upazila	7	10	17
6.	19.06.23	Physical	Barishal Sadar Upazila	8	7	15
7.	20.06.23	Physical	Gouronadi Sadar Upazila	10	1	11
8.	20.06.23	Physical	Gouronadi Sadar Upazila	7	8	15

Some pictures of consultation and SMC meetings in the field level are given below:



A consultation meeting was held Bogra Sadar Upazila at Bogura district



SMC meeting was held at Thanthania Gov. primary school at Bogura Sadar, Bogura







SMC meeting was held at Dhakail Gov. primary school at Gournadi Upazila, Barishal

**Table 14: Summary and Updated information on the EMR of Sub-project**

Monitoring Criteria	Progress Reporting			Status/Remarks
	(Jan-June., 2023)/ (Current Report-VIII)	Previous report (July, 2018-Dec., 2022)	Cumulative Progress	
No. of Contract Awarded including EMP	708	6135	6843	Different stage of construction
No. of Contract that Incorporated Environmental Clauses	635	6125	6760	Environmental Clauses have been incorporated in all contracts.
No. of trees cut down	64	1478	1542	No trees were cut down in the reporting period
No. of trees planted	2629	5238	7867	All trees are in good conditions
Budget used for OHS	-	-	-	
No. of School for which water logging problem solved.	30	71	101	Water drain out through plastic pipes

**Table 15: Details of tree plantation as of June, 2023**

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, 2023)	Trees planted (as of June, 2023)	Types of species planted	Plantation completion status	Survival status	Remarks
Yes	64	2629	1542	7867	Mango, cherry, elephant apple, royal poinciana, Jackfruit, Litchi, wood apple, Black berry, Citrus, Guava, Neem, Banyan tree, Arjun, Haritoki, Bohera, Amla, Chandan, Olive, Almond, Gamari, Chaatim, Shal, Shegun	Completed	Good	

**13. Measures undertaken to implement the EMF:**

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 Engineer and Upazila Engineer 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 XEN and Upazila Engineers.

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

**Table 16: Environment and Social Safeguard personnel in PEDP-4**

Name	Organization and Designation	Email Address	Contact no.	Remarks
Md. Maksalin	LGED, Executive Engineer	maksalin2267@yahoo.com	01715086363	
Md. Mahababur Rahman	LGED, Executive Engineer		01711314769	
Dr M Jahangir Alam (Rustom)	LGED, Individual Consultant (Environmental Specialist)	jarustom.phd@gmail.com	01715917537	Focal/point person
Md. Helal Uddin	LGED, System Analyst	helal1565gmail.com	01711901098	

Other than 1128 contractors and 498 Upazila Engineers are also engaged to ensure construction of sustainable school building and to safeguard environmental and social issues.

#### **14. Conclusions:**

It is a worthy sign that all of the sub-projects of the program are conducted in an environment friendly and hygienic way. All the sub-projects fell in category “Orange” 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 phase and there will be a sufficient numbers 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 PEDP. The local and indigenous people are also getting opportunities in construction activities resulting employment generation in the project areas.

**15. Recommendations:**

The following time bound corrective measures were carried out in the reporting period. In the present report (Jan.-July. 2023,), these are action plan for the reporting period (July-Dec., 2023).

**Table-17 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, 2023	Contractor
2.	Reduce work-related travels.	Work related travel will be reduced based on work load.	September, 2023	Contractor
3.	Dust Control	Water will be sprinkled as and when necessary	September, 2023	Contractor
4.	Air Pollution	Machineries will be set up in bland spaces and water to be sprinkled as and when necessary	August, 2023	Contractor
5.	Water Pollution	Contractor will supply pure water and flood water drained out	August, 2023	Contractor
6.	Hygiene and proper sanitation	Contractor will employ labor for maintaining hygiene and proper sanitation	August, 2023	Contractor
7.	Toilet	Male and female toilet to be separated	October, 2023	Contractor
8.	Noise Pollution	Change of working procedure and timing	November, 2023	Contractor
9.	Drinking water	Contractor will ensure supply of pure drinking water	October, 2023	Contractor
10.	Health safety	First Aid Box will be placed in the working places	October, 2023	Contractor
11.	Personal protection equipment	Contractor will supply personal protection equipment	September, 2023	Contractor
12.	Plantation	Plantation will be done where necessary.	September, 2023	SMC and Headmaster
13.	Low land area	Low land area will be covered by collecting soil from uncultivated area	November, 2023	UE and Contractor
14.	Char area	Char designed school building will be set up in Char area	October, 2023	UE and Contractor
15.	Hilly area	School building will be set up considering local	October, 2023	UE and Contractor

Sl.no .	Environmental Issues	Possible Mitigation Measures	Time to achieve	Responsibility
		materials		
16	Child labor	Child labor would not be employed	October, 2023	Contractor
17	Covid/ pandemic situation	Hand sanitizer, face mask, maintaining distance will be retained in working hour	September, 2023	Contractor
18	Temperature Screening of construction supervisor and workers	Thermometer will be kept at work site for screening the temperature of construction supervisor and workers	September, 2023	Contractor
19	Raise Covid-19 related awareness	Awareness of work supervisor and workers will be raised.	November, 2023	Contractor

## 16. Action plan for skill development for the period of (July-December, 2023)

16.1 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 those are included in the following action plan:

**Table 18: Skill development plan during construction phase monitoring on the environmental safeguard issues**

Sl.no.	Issue	Recommended action/ subject	No/Batch	Venue	Time to achieve
1	Environment Development Training for UE (Upazila Engineers)	Environmental screening, plantation, soil-air-water pollution, EMF, SSMF	25 UE	HQ	October, 2023
2	Environment Development Training for UE (Upazila Engineers)	Environmental screening, plantation, soil-air-water pollution, EMF, SSMF	25 UE	HQ	November, 2023
3	Meeting for environmental management team	Progress of ongoing activities for environment and social safeguard issues	01 meeting for each month	HQ	July-December, 2023

## 16.2 CAP Construction phase monitoring on the environmental safeguard issues

**Table 19: Result of construction phase monitoring on the environmental safeguard issues**

Sl. No.	Categories of potential environmental issues	Followed (PEIMS monitoring software and physical verification)	Not followed	Remarks/ Possible mitigation measures	Time to achieve	Achieved/ Not-achieved
1.	The contractor will erect sufficient number of temporary sanitary toilets and shelter both for male and female workers at the site with proper sanitation system.	4158	165	Upazila Engineers (UEs) have been instructed to erect required sanitary toilets at work site through concerned contractors and fill up the monitoring check list in due course.	May, 2023	<b>Partially achieved</b>
2.	The contractor will ensure supply of pure drinking water to the workers during the time of construction.	4186	137	In many cases water are collected from nearby sources by the contractors for construction work. UEs have been asked to install tube well.	January, 2023	<b>Achieved</b>
3.	The contractor will keep a first aid box at the site for any accident.	4219	104	Upazila Engineers have been asked to ensure keeping the first aid box at the work sites immediately.	February, 2023	<b>Achieved</b>
4.	The contractor will take necessary precaution for the safety of his workers and also for the safety of the pedestrians.	4175	148	UEs have been instructed to take proper action immediately	February, 2023	<b>Achieved</b>
5.	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.	4119	204	UEs have been asked to take measures for stacking materials properly.	February, 2023	<b>Achieved</b>
6.	The contractor will not engage any child labor in the work.	4323	-	UEs have been instructed to take appropriate measures not to engage child	January, 2023	<b>Achieved</b>

Sl. No.	Categories of potential environmental issues	Followed (PEIMS monitoring software and physical verification)	Not followed	Remarks/ Possible mitigation measures	Time to achieve	Achieved/ Not-achieved
				labor		
7.	The contractor will not pollute any nearby source of surface water by any of their activities.	4117	206	UEs have been instructed to take proper action through contractor not to pollute surface water.	February, 2023	<b>Achieved</b>
8.	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.	4102	221	UEs have been advised to cast the major items in the weekend.	March, 2023	<b>Partially achieved</b>
9.	The contractor will not hamper the drainage network of the area by any of their activity.	4128	195	UEs have been asked to take proper measure to solve drainage congestion if any without fail.	April ,2023	<b>Achieved</b>
10.	The contractor will not cut or damage any tree in and around the project area without the permission of the supervising authority.	4114	209	UEs have been instructed not to cut tree without observing existing rules and procedures.	March, 2023	<b>Achieved</b>



## Appendices

### Appendix 1: Sub-project photographs of ongoing construction works

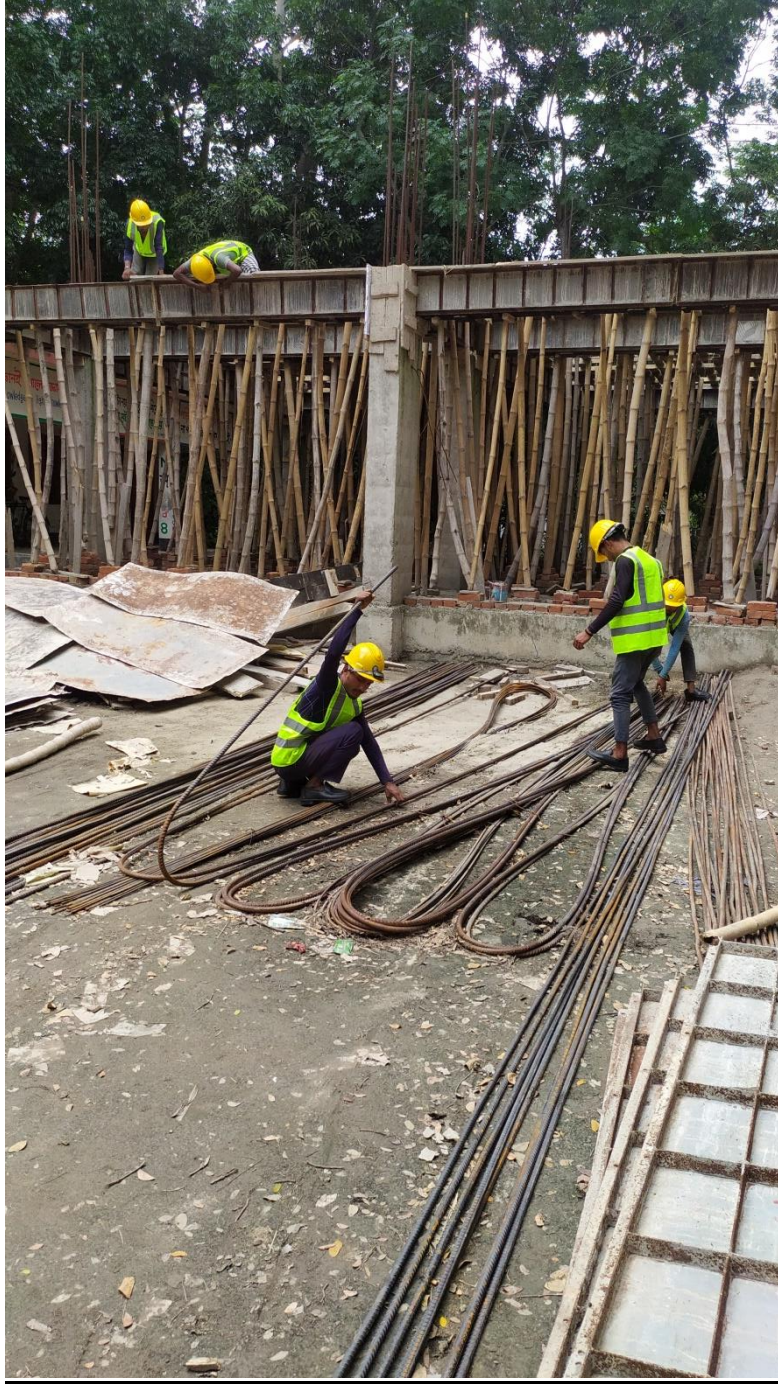
Photography of some construction works of Dhakail Govt. Primary School, Gournadi Upazila, Barishal district are given below:











**Appendix-2**

**Environment friendly construction works of A. Kader Chowdhury Govt. Primary School, Barishal Sadar, Barishal.**























## Appendix 3: Filled up Environmental Screening Format

ESF | 1

**Appendix- 1.4:**

**ENVIRONMENTAL SCREENING FOR EXTENSION/RECONSTRUCTION OF SCHOOL & OFFICE BUILDINGS**

Project Name: Fourth Primary Education Development Program (PEDP4)

Date of Screening: 02.04.2023

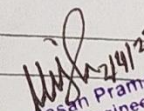
Category of component based on environmental regulations of the Government of Bangladesh:

Name of School : Aralia GPS  
 District : Dhaka  
 Upazila : Dhamrai  
 Union : Kullu  
 Village : 11  
 Type of Subproject : GPS

**Major Activities of the Subproject:**

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


(1)

  
 Saleh Masan Pramanik  
 Upazila Engineer  
 LGED  
 Dhamrai, Dhaka



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

(2)

  
 14/3/23  
 Saleh Hasan Pramanik  
 Upazila Engineer  
 LGED  
 Dhamrai, Dhaka

Screening Questions	Yes	No	Impact Scale (Minor-Major)	If "Yes", Please Provide Remarks
Employment generation for local people during construction period.	Yes			
<b>E. Environmental assessment category as per GOB</b>				
What is the environment assessment category (DDR or IEE) as per ECA-97 and ECR 97 of GOB and ADB's SPS ?	Orange C			As per DOE(ECA & ECR 97), Category Orange A & ADB, Category-C.
Will project enhance quality of education?	Yes			
Score Total				

Notes Exact screening results will be site specific of subproject. ADB = Asian Development Bank, DDR = Due Diligence Report, ECA = Environmental Conservation Act, ECR = Environmental Conservation Rules, GOB = Government of Bangladesh, IEE = Initial Environmental Examination, SPS = Safeguard Policy Statement.

**Type of Environmental Assessment to be undertaken:**

Completed by: Saleh Hasan Pramanik

Designation: Upazila Engineer

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

Name: DO

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

Reviewed and signed by LGED/DPHE Executive Engineer:

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

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

(3)

*Saleh Hasan Pramanik*  
21/1/13  
Saleh Hasan Pramanik  
Upazila Engineer  
LGED  
Dhamrai, Dhaka

**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
Air pollution	taken	Contractor	
Water "	"	"	
Soil "	"	"	

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
Waste management	Taken	Contractor / SMC	UE
Sanitation & Hygiene	Adopted	"	SMC

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
Dust	Physical observation		4-5/month	SMC	UE
Water	"		4-5/month	"	Upazila Engineer

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
Water	Physical		3-4/month	Headmaster / SMC	Upazila Engineer
Sanitation	"		5-6/ "	"	"
Wash room	"				

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

(4)

*Saleh Hasan Pramanik*  
 Upazila Engineer  
 LGED  
 Dhamrai, Dhaka

## Appendix 4: Filled up Environmental Screening Format for BMP GPS

ESF | 1

Appendix- 1.4:

### ENVIRONMENTAL SCREENING FOR EXTENSION/RECONSTRUCTION OF SCHOOL & OFFICE BUILDINGS

Project Name: Fourth Primary Education Development Program (PEDP4)

Date of Screening: 14 March, 2023

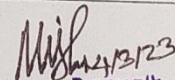
Category of component based on environmental regulations of the Government of Bangladesh:

Name of School : BMP GPS  
 District : Dhaka  
 Upazila : Dhamrai  
 Union : Baishakanda  
 Village : II  
 Type of Subproject : GPS

Major Activities of the Subproject:


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

(1)

  
 Saleh Hasan Pramanik  
 Upazila Engineer  
 LGED  
 Dhamrai, Dhaka

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

(2)

  
 14/3/23  
 Saleh Hasan Pramanik  
 Upazila Engineer  
 LGED  
 Dhamrai, Dhaka

Screening Questions	Yes	No	Impact Scale (Minor-Major)	If "Yes", Please Provide Remarks
Employment generation for local people during construction period.	Yes			
<b>E. Environmental assessment category as per GOB</b>				
What is the environment assessment category (DDR or IEE) as per ECA-97 and ECR 97 of GOB and ADB's SPS ?	Orange			As per DOE(ECA & ECR 97), Category Orange A & ADB, Category-C.
Will project enhance quality of education?	Yes			
Score Total				

Notes Exact screening results will be site specific of subproject. ADB = Asian Development Bank, DDR = Due Diligence Report, ECA = Environmental Conservation Act, ECR = Environmental Conservation Rules, GOB = Government of Bangladesh, IEE = Initial Environmental Examination, SPS = Safeguard Policy Statement.

**Type of Environmental Assessment to be undertaken:**

Completed by: Saleh Hasan Pramanik

Designation: Upazila Engineer

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

Name: DO

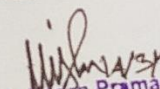
Date: \_\_\_\_\_

Reviewed and signed by LGED/DPHE Executive Engineer:

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

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

(3)

  
Saleh Hasan Pramanik  
Upazila Engineer  
LGED  
Dhamrai Dhaka

## 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
Air pollution	taken	Contractor	UE
Water "	taken	"	UE
Waste management	taken	"	UE

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
Waste management	Taken	Contractor	UE
Sanitation and Hygiene	"	"	UE

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
Dust pollution	Physical		2-3/month	contractor	UE
Water pollution	Physical		3-4/ "	"	UE


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
*Water pollution	Physical		2-3/mos	Labor/contract	UE
Sanitation & Hygiene	"		3-4/ma.	"	UE

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

(4)

  
 Saleh Hasao Pramanik  
 Upazila Engineer  
 LGED  
 Dhamrai, Dhaka







Appendix-6: SMC meeting was held at Bishasherhat Gov. Primary School, Barishal Sadar, Barishal

**বেঙ্গুলিউশন বহি** মিটিং নং

প্রতিষ্ঠানের নাম: **১৯৮৭ নং বিষ্ণুজেরহাট সরকারি প্রাথমিক বিদ্যালয়**  
 স্থানাঙ্ক: **বিদ্যালয়ের অধিগ্রহণ বঙ্গ**  
 তারিখ: **০২/০২/২০২০** **গোচর ক্রমসংখ্যা: ১৯-০০-২২০০**

উপস্থিত সদস্যগণের নাম	স্বাক্ষর	স্বাক্ষর
০১. <b>বেঙ্গুলিউশন কার্যক্রম</b> <b>আবেদন</b>	<b>অমল</b>	<b>বেঙ্গুলিউশন</b>
০২. <b>শ্রী কামরুজ্জামান</b>	<b>অমল</b>	
০৩. <b>আনিসা বান্নী কুমার</b>	<b>সমন্বিত</b>	<b>আনিসা</b>
০৪. <b>সুজন বান্নী বান্নী</b>	<b>কলিকতা প্রতিনিধি</b>	<b>সুজন</b>
০৫. <b>শ্রী ছিদ্দিকুল</b> <b>বহাদুর</b>	<b>ইউ.সি. মাদ্রাসা</b>	
০৬. <b>মুহাম্মদ আমজাদ</b>	<b>সদস্য</b>	<b>মুহাম্মদ</b> ০২/০২/২০
০৭. <b>শ্রী সোহাগুল হোসেন</b> <b>সদস্য</b>	<b>সু</b>	<b>শ্রী সোহাগুল হোসেন</b> ২-২-২০
০৮. <b>শ্রী কাসিম</b>	<b>  </b>	
০৯. <b>কান্তনা কুমার</b>	<b>  </b>	<b>কান্তনা</b> ০২-২-২০
১০. <b>আমরেশ্বর</b> <b>সদস্য</b>	<b>  </b>	<b>আমরেশ্বর</b> ০২-০২-২০

**আলোচ্য বিষয়ঃ** ১. জাতীয় শিক্ষা পদক এর  
 অনুষ্ঠান আয়োজন ও প্রতিযোগিতা নিয়ে  
 আলোচনা। ২. আন্তর্জাতিক সাহসিকতা দিবস  
 আয়োজন নিয়ে আলোচনা। ৩. বিবিধ (পরিবেশগত সজ্জা ও সজ্জা)

## রেজুলিউশন বহি

অনু ০২/০২/২০২০ রোজ বৃহস্পতিবার  
বিদ্যালয়ের অফিসকক্ষে এক উন্মুক্ত সভার আয়োজন  
করা হয়। ঐক্য সভায় সভাপতিত্ব করেন ওসাব  
বেজাউল করিম ত্রাকন, সভায় বিগত সভার মন্তব্য  
পাঠ করেন প্রধান শিক্ষক এবং, সভাপতি অনুমোদন  
করেন।

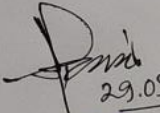
প্রধান শিক্ষক, ওসাব অনিমা রনি বসু, অষ্ট  
ক্রীড়া সঙ্গকে সকলে আমে সভায়-বিনিময়  
করেন, বিশেষে আন্ত ক্রীড়া খেলা হবে খসল  
করা হয় এ নিয়ে বিস্ময় আলোচনা করেন,  
কারণে কোন মন্তব্য না থাকায় <sup>পাঠ্য</sup> আলোচনা হয় যাওয়ার  
আহ্বান ওসাব।

অতঃপর, -সহস্র একুশে ফেব্রুয়ারি, আন্তর্জাতিক  
স্বাস্থ্যসেবা দিবেস পালন সঙ্গকে-বিভাগীয় আলোচনা  
এবং অনুষ্ঠান পরিচালনা করে; সকলে মুগ্ধ  
কামনা করে জগত, সমাপ্তি ঘোষণা করেন।

সভায় উপস্থিত সকলের নামঃ  
সভাপতিঃ প্রধান শিক্ষক ওসাব বেজাউল করিম  
সভায় অংশগ্রহণ করেঃ  
১. প্রধান শিক্ষক ওসাব বেজাউল করিম  
২. অষ্ট ক্রীড়া সঙ্গ  
৩. অষ্ট ক্রীড়া সঙ্গ  
৪. অষ্ট ক্রীড়া সঙ্গ  
৫. অষ্ট ক্রীড়া সঙ্গ  
৬. অষ্ট ক্রীড়া সঙ্গ  
৭. অষ্ট ক্রীড়া সঙ্গ  
৮. অষ্ট ক্রীড়া সঙ্গ  
৯. অষ্ট ক্রীড়া সঙ্গ  
১০. অষ্ট ক্রীড়া সঙ্গ

## রেজুলিউশন বহি

সংগঠিত্ব করেন বীর মুক্তিযোদ্ধা জনাব আমীর হোসেন  
জালুকদার। প্রথমতঃ পবিত্র জাভান থেকে তৎপরমত্ব  
স্বার্থহীন অথবা শুধু হুম। এরপর অদম্য অচির জনাব  
সাহিত্য-নামরিম বনেন মে. আজামী-১২ই জুন  
সিটি কর্পোরেশন নির্বাচন। জামাতের বিদ্যালয়টি  
ভোট কেন্দ্র। তাই প্রতিটি রুম নাগট জান মুইচ  
সেই জম ও স্বেচ্ছা প্রকল্প প্রয়োজন। তাছাড়া  
২২/২৬ অর্থ বছরে স্থান অধুয়ারী মানামানা জম  
জুনের মর্মে সংগঠন করা নির্দেশনা রয়েছে। যা  
অগতঃ পূর্বে করা কথা ছিল কিন্তু টাকা প্রাপ্তি  
বিধায় করা সম্ভব হয়নি। অদম্য অচির জামাতের  
মে গত ২৭/৫/২০২৩ জামাতের স্বকারী নির্দেশনা।  
অধুয়ারী প্রথম আর্থিক মূল্যায়ন শুরু হুম এবং  
কোষ হুম ২৫/৫/২০২৩ ইং। যাৰ কয়ডের উপস্থিত  
বহন করা নির্দেশনা রয়েছে। সে অধুয়ারী কোষ  
প্রকল্প পত্র-বাৰদ-অনুচ রয়েছে ২৬-২৭ টাকা। অছড়াও  
বিদ্যালয়ের বিভিন্ন অনুরূপ রয়েছে। প্রকল্প কাজের  
কম সংকলন করে টাকার প্রয়োজন। এরপর  
আর কোন আলোচনা না থাকাম সংগঠিত্ব  
অনুহেব সকলের সুখস্বাস্থ্য কামনা করে অথবা  
সম্মতি প্রদান করেন।

  
২৭.০৫.২৩  
সভাপতি  
এস. এম. সি  
এ. জামাতের বীর মুক্তিযোদ্ধা  
জামাতা, বীরশ্রী

**Appendix-7: A discussion meeting with SMC, contractors, Upazila Engineer, and teachers with the Environmental Specialist in Barishal**

বিক্ষাভের হাট অর্থকাষি প্রাথমিক বিদ্যালয়

তারিখ: ২০/০৬/২০২৩

যেদ্যে স্মারক ২০৬ জুন, ২০২৩ বিদ্যালয় প্রাঙ্গণে এক কম্যান্ডেশন মিটিংয়ে আয়োজনে করা হয়, নির্মাকানিয় অন্নয়ে ডায়াডিক ও পরিবেশে সুবক্ষণে বিষয়ে উক্ত আলোচনায় অংশগ্রহণ কতেন উপজেলা প্রকৌশলী, পরিবেশ-বিশেষজ্ঞ ড. মোঃ জাহাঙ্গীর আলম, SMC সভাপতি, বিজ্ঞানজ্ঞ, প্রধান শিক্ষক ও সার্বজনীন শিক্ষক, SMC কমিটির অধ্যক্ষ সদস্য। উক্ত কম্যান্ডেশন মিটিংয়ে স্থায়িকদে: এগবুন, সেনমোটে, সার্বজনীন উত্তরণে ৩২ পরিবেশে নিম্নলিখিত বিষয়ে আলোচনা করা হয়।

১. জরুরী First Aid Box, ফাট চানি জল, বালু দুখন, পানিদুখন ও হাটটি দুখনে, বিধে আলোচনা হয়।

ক্র.সং.	নাম ও পদবী	ঠিকানা	স্বাক্ষর	Remark
১	বেঞ্জামিন করিম স্মারক SMC সভাপতি	গ্রাম- রাজারচাঁচ পোস্ট- চরমোলাহাট থানা বড়কালিমাড় জেলা- বরিশাল	বেঞ্জামিন করিম ২০/৬/২৩	
২	সৈয়দ মোস্তফিজুল হক উপজেলা প্রকৌশলী LEED	UE, LEED		
৩	মোঃ আজাদ হোসেন	বরিশাল সদর, বরিশাল	Smuel	
৪	আব্দুল মুন্সীর আলী (অস্থায়ী শিক্ষক)	বরিশাল সদর, বরিশাল	আব্দুল মুন্সীর আলী	
৫	জনিমা বানীসু প্রাঃ বিঃ (সংগ্রহ)	বিক্ষাভের হাট অঃ প্রাঃ বিঃ	জনিমা ২০/৬/২৩	
৬	সাহিদা আকতার সহকারী শিক্ষক	বিক্ষাভের হাট অঃ প্রাঃ বিঃ	সাহিদা ২০.৬.২৩	
৭	শাবিনা আক্তার সহকারী শিক্ষক	বিক্ষাভের হাট অঃ প্রাঃ বিঃ	Shabira 19.06.23	
৮	অনুবা আহা সহকারী শিক্ষক	বিক্ষাভের হাট অঃ প্রাঃ বিঃ	Antara 19.06.23	
৯	মোঃ মোস্তাফিজুল হক সহকারী শিক্ষক	বিক্ষাভের হাট অঃ প্রাঃ বিঃ	মোস্তাফিজুল হক ২০.০৬.২০২৩	
১০	বাহাদুর বানীসু	অঃ প্রাঃ শিক্ষক, বিক্ষাভের হাট অঃ প্রাঃ বিঃ		

(চলমান)

ক্রমিক নং	নাম ও পদবি	ঠিকানা	স্বাক্ষর	Remarks
২১	কামাল হোসেন	চঃ (মানার)	[Signature]	
২২	ড. জাহাঙ্গীর আলম (কারিগরি বিশেষজ্ঞ)	HQ, LGED, Agargaon Dhaka.	Jahangir Alam	
২৩	সুলতা বানী বনিক	বিশ্বাসেরহাট সঃ	[Signature]	
২৪	মহকবি মিস্ত্রী	সঃ বিঃ	[Signature]	
২৫	ডঃ মোঃ হোসেন আলী স্বাক্ষরিত ১	স্বাক্ষরিত XEM কারিগরি	[Signature]	

## Appendix 8: Checklist for environmental and social activities during construction period

### Checklist for environmental and social activities during construction period under PEDP4, LGED:

Name of the school: *স্বপ্না বিদ্যালয় ২০৬* Upazila: *সুদূর* District: *সুপারগাঁও*  
*স্বপ্না-আবুলকাদের বিদ্যালয়*

Date: 19.06.2023

Sl. No.	Activities/ items followed/non-followed	If not-followed, the reasons	Responsible persons	Remarks
1	Air/Dust pollution	<i>followed</i>	<i>contractor</i>	
2	Water pollution	<i>followed</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>  </i>	<i>  </i>	
9	Waste management	<i>  </i>	<i>M</i>	
10	Meetings before, after, and during construction		<i>SME, Head master and contractor</i>	
11	Water logging and drainage system	<i>  </i>	<i>contractor</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) during construction period	<i>Not properly done</i>	<i>  </i>	
15	SMC meeting before, after, and during construction	<i>Done</i>	<i>SME, Head master,</i>	
16	Documents preserved during construction period	<i>followed</i>	<i>SMA   </i>	
17				
18				
19				
20				

*Jahangir Alam*  
19.06.2023

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