

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-IV

(January-June, 2021)

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Abbreviations and Acronyms

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

Executive Summary:

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 results. 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 intuition of Directorate of Primary Education (DPE).The Ministry of Primary and Mass Education (MOPME) is responsible for executing the program .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) is the partner implementing agencies for need-based infrastructure development and major maintenance works.

Cumulative status of the Sub-projects:

Sl. No .	Type of Sub-project	No. of Sub-project(Jan-June.,2021)	Cumulative No. of Sub-project(July, 2018-June.,2021)	Type of Sub-project	Does EMP cost included in BOQ	Work Status/ % of completion
1	Additional rooms of School	183	5013	Orange B	EMP cost is included in BOQ	Tendering and different stage of construction
2	Construction and expansion of DD Office	--	05	Orange B	EMP cost is included in BOQ	Do
3	Expansion and construction of DPE Office	02	24	Orange B	EMP cost is included in BOQ	Do
4	Expansion of PTI	06	43	Orange B	EMP cost is included in BOQ	Do
	Total	191	5085			

The table presented above shows the cumulative status of sub-projects on environmental management of PEDP4. The table indicates that LGED has taken a total

191 sub-projects for construction and expansion of additional rooms including other institutional infrastructures such as NAPE, PTI, DD and DPEO office during the reporting period (January- June'2021). This SEMR has been prepared based on 191 sub-projects consisting 183 (96 %) schools and 08 (04 %) other institutional infrastructures.

It can be seen in the table presented above that all the sub-projects are in category "Orange B" and cost of EMP implementation already included in BOQ and mostly are at tendering and different stage of construction. It can be seen from the screening result that most of the sub-projects were being extended vertically and located in existing premises. Therefore, concern for 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 agricultural land was also reported.

Moreover, many positive impacts and environment enhancement are being generated due to sub-projects implementation. It is likely that there will be employment generation during the construction phase and as well as in the operation phase of project. The sub-projects will meet the demand of the need of schools/class rooms of the respective areas. The local people will get opportunities in construction activities resulting employment generation.

On the whole, monitoring the mitigation measures of environmental impacts are very important during sub-projects construction phase. But, due to COVID-19, overall physical progress of PEDP4 development activities has been hampered in few cases resulted unsatisfactory physical progress than expected in the reporting period (January-June'2021). The compliance monitoring of the environmental safeguard issues during construction were conducted using a monitoring check list and observed substantially complied. Due to COVID-19, contractors and workers were advised to maintain hand washing, respiratory hygiene and physical distancing properly during construction of sub-projects.

1. INTRODUCTION

1.1. Background

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 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 whole country including geographically challenged areas like hilly terrain, seismic, waterlogged *haor*, saline prone, flood prone and coastal areas. The PEDP4 is supporting quality primary education through sustainable and appropriate infrastructure development, and maintenance to ensure child and environment friendly and its effective utilisation to achieve the desired goals. 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. The Local Government Engineering Department (LGED) and the Department of Public Health Engineering (DPHE) is the partner implementing agency for need-based infrastructure development and major maintenance of the project.

1.2. PEDP4 Objectives:

Overall objective of the PEDP4 is to provide quality primary education for all children 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 1: Type of sub-projects and intervention under PEDP4

Category	Interventions
1. Need Based School Infrastructure	<ul style="list-style-type: none"> 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 e, Cox’s Bazar Leadership Training Centre, PTIs & URCs	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> 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; and k. Generator room. l. Roof gardening m. mini orchard in front of NAPE building

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. 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 B' category in ECR'97.

However, 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 B' 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.

3. Environmental Management Process of PEDP4

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

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 (Details of interventions are given in chapter 3.2)	Govt. Category	Environmental Documentation Required
1	Maintenance of school	Orange A	No environmental screening required as these subprojects are likely to have no negative environmental impacts.

NO.	Types/ Interventions of Sub-projects (Details of interventions are given in chapter 3.2)	Govt. Category	Environmental Documentation Required
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.	Orange B	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 B	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, teacher room, head teacher room and other infrastructures. Under PEDP4, 40000 additional rooms for class & teacher and 10500 rooms for head teacher 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 construction/expansion 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 remain 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.

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

In PEDP4, forty thousand additional rooms and ten thousand five hundred head teacher rooms including others institutional infrastructures to be constructed under need based infrastructure sub- component.

Cumulative status of Sub-projects:

Sl. No.	Type of Sub-project	No. of Sub-project(Jan-June.,2021)	Cumulative No. of Sub-project(July, 2018-June.,2021)	Type of Sub-project	Does EMP cost included in BOQ	Work Status/ % of completion
1	Additional rooms of School	183	5013	Orange B	EMP cost is included in BOQ	Tendering and different stage of construction
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	Total	191	5085			

The table presented above shows the cumulative status of sub-projects on environmental management of PEDP4. The table indicates that LGED had taken a total 191 sub-projects for construction and expansion of additional rooms including other institutional infrastructures such as PTI, DD and DPEO office during the reporting period (January'21- June'21). This SEMR has been prepared based on 191 sub-projects consisting 183 (96 %) schools and 08 (04 %) other institutional infrastructures. Additionally, the above table presents that all the sub-projects are in Orange "B" and cost of EMP implementation already included in BOQ and mostly are at tendering and different stage 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 191 sub-projects were screened for construction and expansion of additional rooms including other institutional infrastructures during the reporting period. The sub-projects include 183 schools and 08 institutional infrastructures such as PTI, DD and DPEO office etc.

5.2.1 School Sub-projects screened:

It can be seen in the table: 3, presented below a cumulative 5013 schools having 19350 additional rooms were screened at the end of the reporting period (July' 18-June' 21). The pie charts and table presented below also demonstrate the distribution of schools based on construction.

A) Type of School (Sub-projects) based on construction :

Table-3, Type of School (Sub-projects) based on construction

Sl.No.	School Type based on construction	No. of School(Jan-June.,21)
		No (Room)
1.	Vertical	911(3646)
2.	Horizontal	1384(4140)
3.	Horizontal + Vertical	2718(11564)
	Total	5013(19350)

Fig: 1 Type of School (Sub-projects) based on school construction

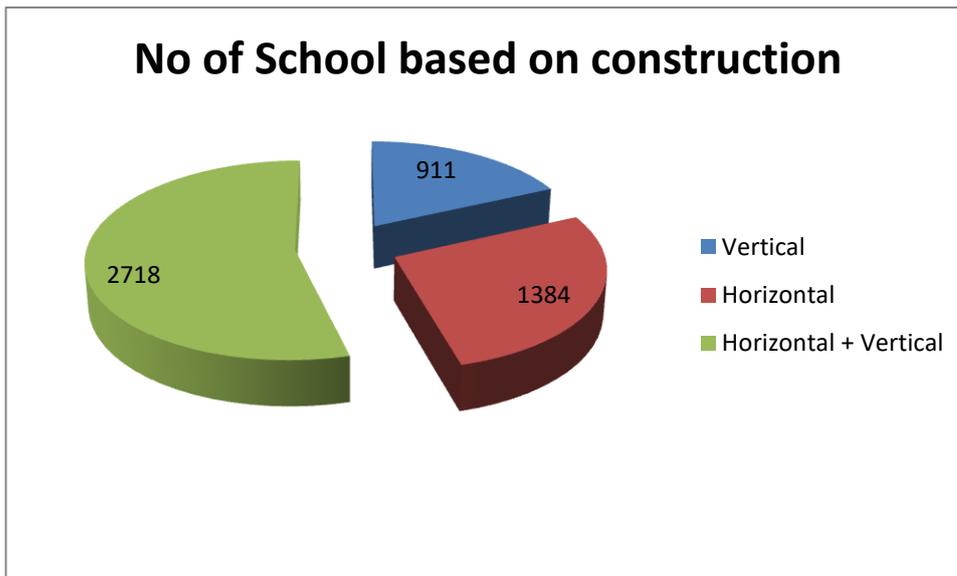
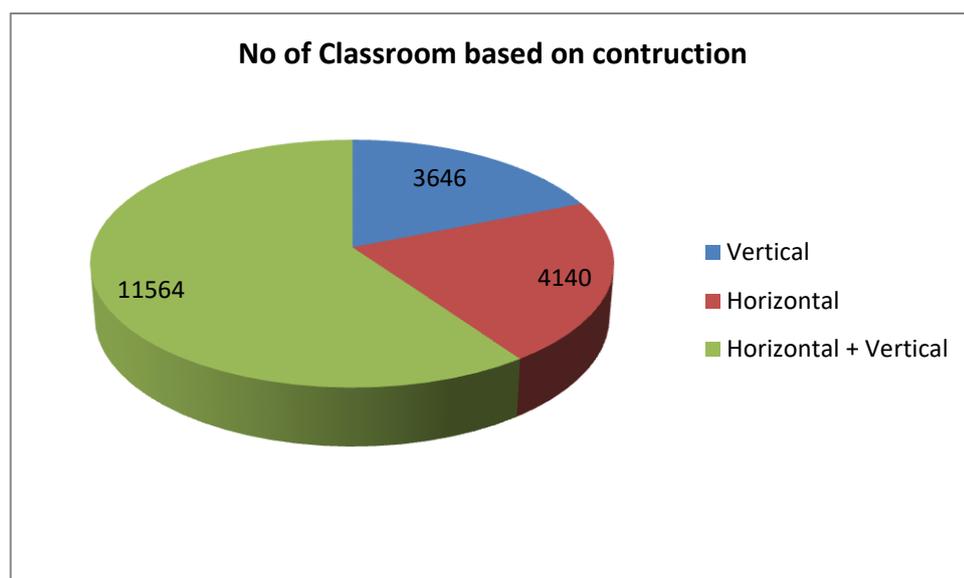


Fig: 2 Type of School (Sub-projects) based on classroom construction



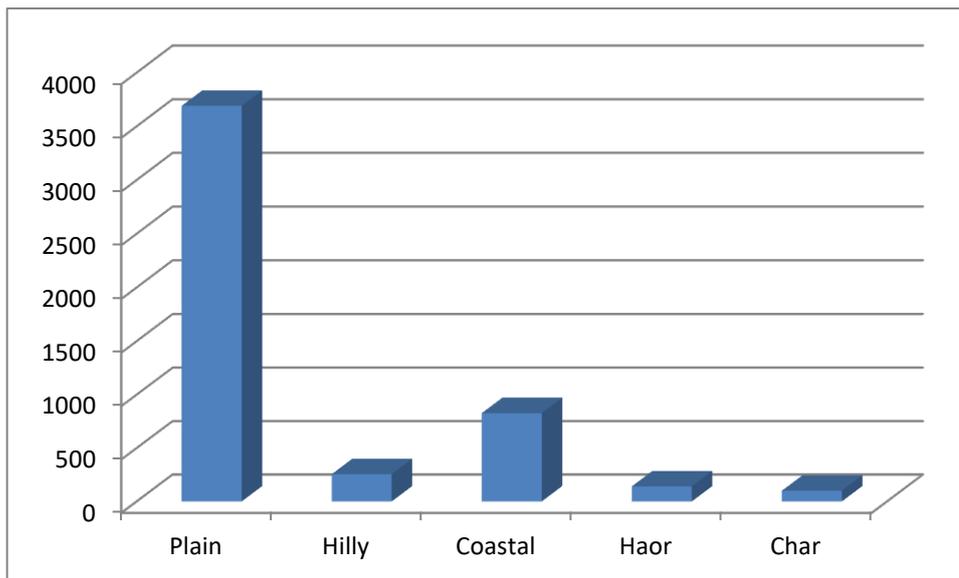
B) Type of School (Sub-projects) based on location:

The table and bar chart presented below show 5013 schools having 3690 in plain ; 255 in Hilly; 827 in Coastal; 141 in Haor and remain 100 in Char area were screened at the end of the reporting period (July,2018-June,2021). Overall, the number of schools in plain area was 74% of total schools screened.

Table-4 Type of School based on location

Sl.No.	School Type based on location	No. of School(July- June,2021)	
		No (Room)	
1	Plain	3690	
2	Hilly	255	
3	Coastal	827	
4	Haor	141	
5	Char	100	
Total		5013	

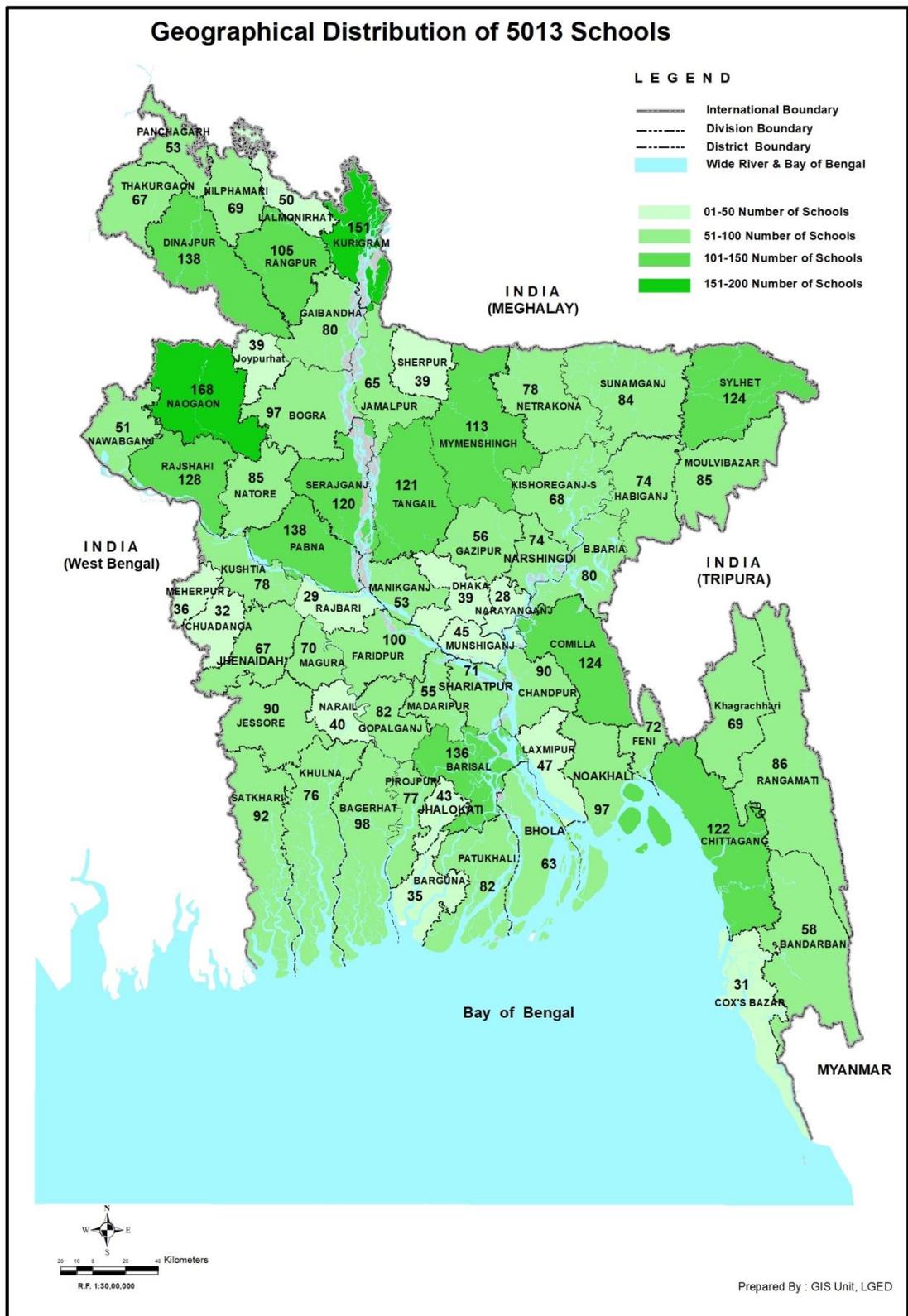
Fig-3: Type of School (Sub-projects) based on location:



C) Geographical distribution of School:

The district wise geographical distribution of 5013 schools undertaken for construction is presented in a map given below:

Geographical Distribution of 5013 Schools



5.2.2. Cumulative status of Sub-projects:

In PEDP4, forty thousand additional rooms and ten thousand five hundred head teacher rooms including others institutional infrastructures to be constructed under need based infrastructure sub- component.

Cumulative status of Sub-projects:

Sl. No.	Type of Sub-project	No. of Sub-project(Jan-June.,2021)	Cumulative No. of Sub-project(July, 2018-June.,2021)	Type of Sub-project	Does EMP cost included in BOQ	Work Status/ % of completion
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The table presented above shows the cumulative status of sub-projects on environmental management of PEDP4. The table indicates that LGED has taken a total 191 sub-projects for construction and expansion of additional rooms including other institutional infrastructures such as PTI, DD and DPEO office during the reporting period (January'21- June'21). This SEMR has been prepared based on 191 sub-projects consisting 183 (96%) schools and 08 (04%) other institutional infrastructures. Additionally, the above table presents that all the sub-projects are in category "Orange B" and cost of EMP implementation already included in BOQ and mostly are at tendering and different stage of construction.

6.0 Environmental Management Plan (EMP):

Environmental Management Plan (EMP) is an important tool to assess the environmental degradation of PEDP. Environmental impacts are prominently visible in the construction phase of school building and other construction phase. 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 would be:

- (i) mitigation measures to reduce or eliminate negative impacts
- (ii) enhancement measures to maximize positive impacts
- (iii) monitoring the identified indicator.

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 appeared from the 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 land was also reported.

The others existing impacts are elaborated in the underline:

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.

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 stockpile as and when 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.

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.

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.

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.

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 at all.

6.2. Mitigation/Benefit Enhancement Measures:

The typical mitigation and benefit enhancement measures to be followed at the sub-projects level are presented underline considering environmental issues of the sub-projects:

Table-5: Proposed mitigation/ benefit enhancement measures

Environmental Issues/Impacts	Mitigation/Enhancement Measures
Location and disruption of earth surface	Disruption of earth surface should be kept minimal for smooth implementation of work at construction site.
Drainage congestion	Adequate drainage facilities to be provided in campus and construction camp for minimizing water logging.
Waste management	Wastes collection bins to be provided for organic wastes in one bin & inorganic wastes in another bin at the source and to be dumped properly
Dust pollution	Dust to be controlled by covering construction materials and spraying water manually where dust blows as and when required.
Noise pollution	Construction activities to be carried out in day time. Casting of major parts such as slab and foundation to be done during week end.
Worker accident	Warning signs to be set up and helmet to be provided for the workers. Necessary medicines are kept in the aid box.
Employment generation/ income	Local poor and affected persons to be engaged in sub-project works and contractor to be encouraged to engage women workers. Also contractors to be encouraged to pay proper wage to workers. In the hilly area indigenous people were got priority to engage construction work of school building.
Occupational Health Safety(OHS)	Project workers have to be provided PPE, First Aid Box, face mask, quality drinking water, hygienic toilets and WASH blocks.
Tree Plantation	Trees to be planted in proper place and number around the boundary of school campus. Indigenous plants were got priority for plantation.
Environmental risks	Standard planning and design to be ensured.
Wash Block	Wash block were constructed for the workers, teachers and students. Toilets for male and female students were separated.

Additional Mitigation Measures:

The following mitigation measures are suggested to be taken care against the environmental concerns during the construction phase. Such as:

- a. In case of demolition of any existing building, great care should be taken to avoid any accident. All precaution in this regard shall be undertaken by the sub-project proponent;
- b. Temporary accommodation for the work forces near the site area with adequate provision of water supply for drinking, bathing and washing purposes shall be ensured;
- c. Sufficient latrines to be constructed so as not to pose a health hazard;
- d. Safety goggles of accepted standard should be used who are engaged in drilling, cutting, welding and all such other works which cause hazard to the eye;
- e. Helmet shall be worn by the workmen and other personnel during work;
- f. Toxic materials are barred to be used in the construction such as lead based paints, asbestos etc.;
- g. Building materials that may potentially threaten the environment are discouraged;
- h. Fencing should be provided around the construction site;
- i. Traffic congestion should be minimized by adopting proper planning. Timing schedule for arrival of construction materials can be adjusted so that interruption with the public utility services is minimal;
- j. Dust and particulate materials causing nuisances to surrounding areas would be kept minimal by careful handling of cement and breaking *khoa* by labor instead of the *khoa* breaking machine;
- k. Undesirable noise should be avoided by confining the source of noises. The *khoa* breaking machine should be avoided and manual breaking should be adopted. In no case such machine should be allowed to operate at night;

Furthermore, to avoid any accidental risk proper precaution should be taken up. Medical First Aid Box should be kept at the site for any injury and transport should be made instantaneously available to take the patient to the hospital in case of major accidents.

7.0 Positive impact/environment enhancement

7.1. Positive impact:

There will be employment generation during the construction phase and as well as in the operation phase of project. The sub-projects would meet the demand of the need of schools/class rooms of the respective areas.

7.2. Benefit Enhancement Measures to be taken:

Although the sub-project proponent deserves the right to employ the best workers, the local people should get preference in such cases which would generate opportunities for employment of the local people. 30% women will be employed in construction work of the sub- project 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 with SMC, community leader, Key Informant, DPE officials and LGED engineer regarding the sub-project site shifting in new sites crucial. But, the sub-projects under reporting did not encounter any of the vulnerabilities. Therefore, site alternatives were not required.

8.0 Response on COVID- 19:

The whole reporting period (Jan-June'2021) went through pandemic situation of Covid-19. Though the situation was not favorable for running the activities of construction of school building, works went on regular basis with quality. LGED directed all concerned to take proper measures to prevent the pandemic and contractors workers were advised to keep proper health hygiene by wearing face mask, hand washing and maintaining physical distances at the work sites

The following preventive measures were taken during the reporting period to protect the pandemic situation of covid-19:

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 were used face mask supplied from PEDP when they were in construction works of school building.

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 PEDP4 supplied hand sanitizer for construction workers and contractors. PEDP4 also advised the workers to wash their hand with soap before starting any work 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 PEDP4 advised the workers and contractors to maintain physical distances.

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)

The Grievance Redress Mechanism (GRM) promotes social accountability and facilitating the programme / 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. Thus 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 schools and institutions 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 and/female) and members of 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 resides, 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.

Furthermore, the Primary Education Infrastructure Management Unit (PEIMU) of LGED designs its computer database software with such a special feature where complaints, problems and issues that arise out from project implementation are maintained and attended with follow up until resolution to problems or complaints are attained. The PEIMU keep eyes always on media news relating to civil works under PEDP4. Usually, PEIMU receives written complaints from contractors, public representatives, local people, individuals, community groups and inspection teams. Depending on the nature of grievances and complaints, LGED acts immediately for taking proper measure.

During the reporting period, PEIMU received thirteen complains, out of which two were related to procurement and remain eleven were related to poor workmanship of construction works. PEIMU already started inquiry and asked the respective Superintending Engineers / Executive Engineers to send their report conducting investigation. Legal and administrative actions will be taken against staff and/or contractors if found guilty or fail to correct the defects.

10. Environmental Monitoring

10.1 Construction phase Monitoring

During the construction phase, 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 campus.

In general, the following indicators and the related mitigation measures will be 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 maintain the environmental mitigation measures and monitoring data along with the infrastructure development management information. The construction phase monitoring was conducted for 3500 schools using a check list and result of monitoring is presented below. It is observed that most of the parameters were followed and complied substantially.

Table6: Result of construction phase monitoring

Sl. No.	Description of Parameters	Followed	Not followed	Remark
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.	3280	220	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.
2.	The contractor will ensure supply of pure drinking water to the workers during the time of construction.	3900	110	UEs have been asked to install tube well.
3.	The contractor will keep a first aid box at the site for any accident.	3350	150	Upazila Engineers have been asked to ensure keeping the first aid box at the work sites immediately.
4.	The contractor will take necessary precaution for the safety of his workers and also for the safety of the pedestrians.	3500	-	
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.	3410	90	UEs have been asked to take measures for stacking materials properly.
6.	The contractor will not engage any child labor in the work.	3500	-	
7.	The contractor will not pollute nearby source of surface water by any of their activities.	any any 3415	85	UEs have been instructed to take proper action through contractor not to pollute surface water.
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.	3420	80	UEs have been advised to cast the major items in the weekend.
10.	The contractor will not hamper the drainage network of the area by any of their activity.	3410	90	UEs have been asked to take proper measure to solve drainage congestion if any without fail.

Sl. No.	Description of Parameters	Followed	Not followed	Remark
11.	The contractor will not cut or damage any tree in and around the project area without the permission of the supervising authority.	3500	-	UEs have been instructed not to cut tree without observing existing rules and procedures.
12.	The contractor will take every initiative to reduce dust emission during the construction work i.e. sprinkling of water on the dust etc.	3460	60	UEs have been asked to take proper measures for sprinkling of water on the dust properly

Table 7: Summary and Updated information on the EMR of Sub-project

Monitoring Criteria	Progress Reporting			Status/Remarks
	(Jan-June, 2021)/ (Current Report-IV)	(Jul, 2018-Dec.,2020)	Cumulative Progress	
No. of Contract Awarded including EMP	1256	2544	3800	Different stage of construction
NO. of Contract that Incorporated Environmental Clauses	1256	2544	3800	Environmental Clauses have been incorporated in all contracts.
No. of trees cut down	-	-	-	-
No. of trees planted	-	-	-	Do
Budget used for OHS	-	-	-	Do
No. of School for which water logging problem solved.	-	-	-	Do

11. Measures undertaken to implement the EMF:

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

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 compliance checking, facilitation, coordination and ensuring dissemination, orientations and capacity building activities. Planning and designs of sub-projects are being developed/ensured following the Bangladesh National Building Code (BNBC).

12. Conclusion

It is mentioned that all the sub-projects are in category “Orange B” and cost of EMP implementation already included in BOQ. Moreover, a substantial number of sub-projects are being extended vertically and located in existing premises. Therefore, concern for land use, earth work 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 wetland was also observed.

Overall physical progress of PEDP4 development activities has been seriously hampered due to Covid-19 and resulted unsatisfactory physical progress than expected in the reporting period (Jan-June’2021). The compliance monitoring of the environmental safeguard issues during construction were conducted using a monitoring check list and observed substantially complied. Due to COVID-19, contractors and workers were asked to maintain hand hygiene, respiratory hygiene and physical distancing properly during construction of sub-projects.

Besides these, many positive impacts and environment enhancement are being generated due to sub-projects implementation. It is likely that there will be employment generation during the construction phase and as well as in the operation phase of project. The sub-projects will meet the demand of the need of schools/class rooms of the respective areas. The local people is getting opportunities in construction activities resulting employment generation.

Appendices

Appendix 1: Sub-project photograph of ongoing works

PEDP-4 এর আওতায় নির্মিতব্য ফতেপুর সরকারী প্রাথমিক বিদ্যালয়ের স্থির চিত্র

উপজেলাঃ রংপুর সদর, জেলাঃ রংপুর।



PEDP-4 এর আওতায় নির্মিতব্য ফতেপুর রোটারী সরকারী প্রাথমিক বিদ্যালয়ের স্থির চিত্র

উপজেলাঃ রংপুর সদর, জেলাঃ রংপুর।



PEDP-4 এর আওতায় নির্মিতব্য মধুর চর সরকারী প্রাথমিক বিদ্যালয়ের স্থির চিত্র

উপজেলাঃ কেরানীগঞ্জ

জেলাঃ ঢাকা।



PEDP-4 এর আওতায় নির্মিতব্য মধুর চর সরকারী প্রাথমিক বিদ্যালয়ের স্থির চিত্র

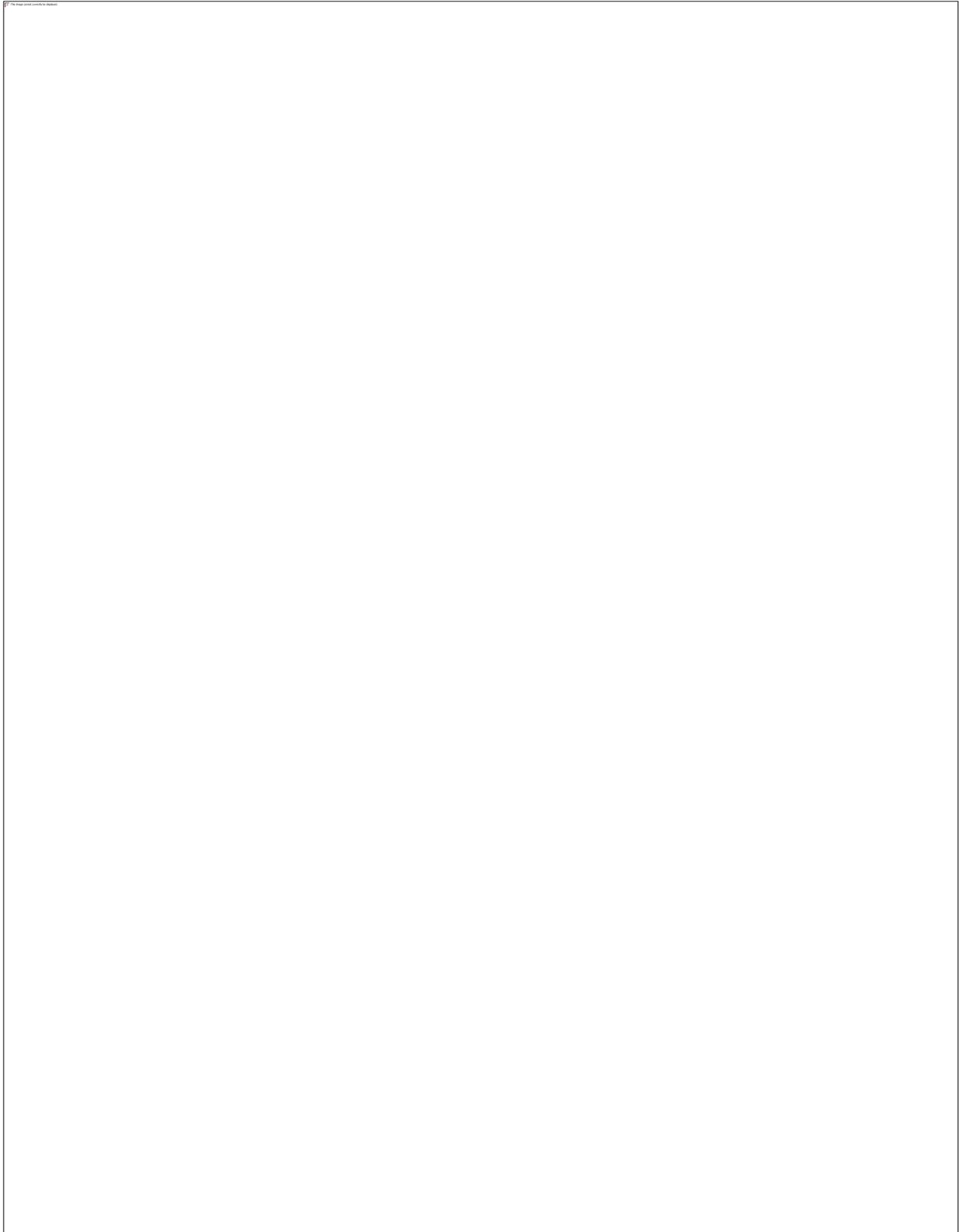
উপজেলাঃ কেরানীগঞ্জ

জেলাঃ ঢাকা।



Appendix 2: Filled up Environmental Screening Format

Appendix 3: Filled up Environmental Screening Format

A large, empty rectangular box with a thin black border, occupying most of the page. It is intended to contain the 'Filled up Environmental Screening Format' mentioned in the title. There is no text or data inside the box.

Appendix- 1.4:**ENVIRONMENTAL SCREENING FOR EXTENSION/RECONSTRUCTION OF SCHOOL & OFFICE BUILDINGS**

Project Name: Fourth Primary Education Development Program (PEDP4)

Date of Screening: 17/01/21

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

Name of School : Arakul
 District : Dhaka.
 Upazila : Keranigonj
 Union : কুটিয়া
 Village : Arakul
 Type of Subproject : Construction of additional Classrooms.
 Major Activities of the Subproject:

Screening Questions	Yes	No	Impact Scale (-6~0~+6)	If "Yes", Please Provide Remarks
A. Subproject Siting Is				
Is the subproject area adjacent to or within any of the following environmentally sensitive areas?		NO	0	
Protected Area		NO	0	
Wetland		NO	0	
Unstable slope, landslide, erosion area		NO	0	
Disaster prone area (e.g. flood, cyclone, storm surge)		NO	0	
B. Potential Environmental Impacts Will the subproject Cause				
Loss of agricultural/forest land?		NO	0	
Negative effects on rare, (vulnerable), threatened, or endangered species of flora and/or fauna or their habitat?		NO	0	
Negative effects on designated wetlands?		NO	0	
Negative effects on locally important or valued ecosystems or vegetation?		NO	0	
Destruction of trees and vegetation?		NO	0	
Insufficient drainage leading to water logging?		NO	0	
Negative effects on surface water quality, quantities or flow?		NO	0	
Block any road/access/approach?		NO	0	

Screening Questions	Yes	No	Impact Scale (-6~0~+6)	If "Yes", Please Provide Remarks
Will there be any long-term impacts on local hydrology?		NO	0	
Is adequate water supply to school available?	Yes		3	Adequate
Increased noise due to day-to-day construction activities?	Yes		-2	Mitigated by changing work process
Is there any dust / air pollution during construction phase?	Yes		-1	Mitigated by changing work process
Will there be waste generation when construction works are going on?	Yes		-1	Mitigated by changing work process
C. Other Potential Impacts				
Will the subproject cause?				
Degradation or disturbance of historical or culturally important sites (mosque, graveyards, monuments etc.)?		NO	0	
Health risks to labors involved in activities?	Yes		-2	Mitigated by safety measures
D. Potential Positive Environmental Impacts.				
Improved sanitation and personal hygiene.	Yes		3	Achieved through toilets construction
Enhanced quality of school environment.	Yes		4	Achieved through additional classroom construction
Employment generation for local people during construction period.	Yes		4	Achieved through local workers involvement
E. Environmental assessment category as per GOB				
What is the environment assessment category (DDR or IEE) as per ECA-97 and ECR 97 of GOB and ADB's SPS ?	Yes		6	As per DOE(ECA & ECR 97), Category Orange A & ADB, Category- C.
Will project enhance quality of education?	Yes		3	Achieved through construction of additional classroom.
Score Total			17	

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: Mollah Tarikul Hasan

Designation: SAE, LGED

Filled and signed by LGED/DPHE Assistant Engineer:

Name: Muhammad Saib Sarwar, UAE, LGED

Date: 17/01/21

Reviewed and signed by LGED/DPHE Executive Engineer:

Name: Md. Monirul Hossain, XEN, LGED

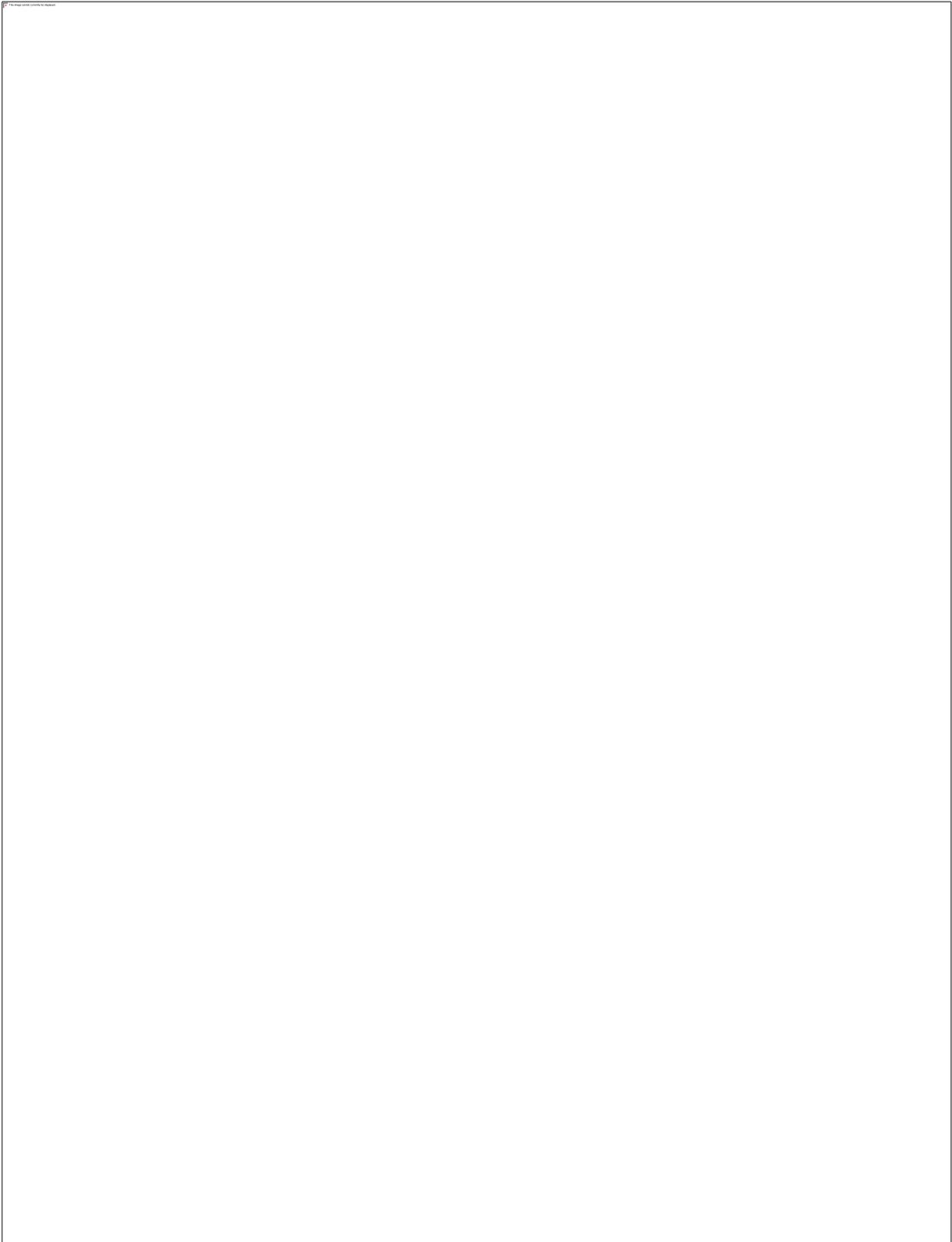
Date: 17/01/21

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নির্বাহী প্রকৌশলী
এলজিইডি, জেলা-ঢাকা।

17-01-2021
Mollah Tarikul Hasan
Sub-Assistant Engineer
Keraniganj, Dhaka

Muhammad Saib Sarwar
UAE
মোহাম্মদ সাইব সারওয়ার আলী
উপজেলা প্রকৌশলী
এলজিইডি, কেরানীগঞ্জ, ঢাকা

Construction Phase Monitoring Details



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
Noise Pollution	Mitigated by the change of working procedure implemented through the contractor	Concerned contractor	UE
Air Pollution	Mitigated by frequent sprinkling of water at site	Concerned contractor	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	By regular cleaning	DPHE staff	DPE

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
Noise Pollution	Physical	Project site	All the time of Construction	Concerned Contractor	UE
Air Pollution	Physical	Project site	All the time of Construction	Concerned contractor	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
Waste Management	Physical	School Campus	Regular	DPE Staff	DPE

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

Annexed-2: Filled in Environmental Screening Format

Appendix-3.1: Sub-Project Identification for Construction of Classrooms

Name of the Work/School/Office : Moddhyer Chare Govt. Primary School
 Name of the District : Dhaka
 Name of the Upazila, Union & Village : Keranigonj , Hazratpur, Moddhyer Chare
 EMIS Code of the School : 91310130404

Appendix-3.2: Proposed Activities Asper Preliminary Scheme Design:

Title of Activities	Description of Proposed Activities (Length, width, area, volume, height in feet etc.)	Remarks
Land Development	0 * 0 * 0	No need
Construction of main school building (extension)	64 * 30 * 0	Approved 2H+2V; 4 storied foundation
Construction of boundary wall	200 * 0 * 0	Need for future development
Construction of internal Roads	0 * 0 * 0	No need
Construction of water supply and sanitary latrine	16 * 14 * 0	Adequate water supply; 2 storied 2 unit wash block done by DPHE

Appendix- 1.4:**ENVIRONMENTAL SCREENING FOR EXTENSION/RECONSTRUCTION OF SCHOOL & OFFICE BUILDINGS**

Project Name: Fourth Primary Education Development Program (PEDP4)

Date of Screening: 14/01/21

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

Name of School : Moddhyer Char Govt. Primary School

District : Dhaka

Upazila : Keranigonj

Union : ইয়াবতপুর

Village : Moddhyer Char

Type of Subproject : Construction of Additional Classrooms.

Major Activities of the Subproject:

Screening Questions	Yes	No	Impact Scale (-6~0~+6)	If "Yes", Please Provide Remarks
A. Subproject Siting Is				
Is the subproject area adjacent to or within any of the following environmentally sensitive areas?		No	0	
Protected Area		No	0	
Wetland		No	0	
Unstable slope, landslide, erosion area		No	0	
Disaster prone area (e.g. flood, cyclone, storm surge)		No	0	
B. Potential Environmental Impacts Will the subproject Cause				
Loss of agricultural/forest land?		No	0	
Negative effects on rare, (vulnerable), threatened, or endangered species of flora and/or fauna or their habitat?		No	0	
Negative effects on designated wetlands?		No	0	
Negative effects on locally important or valued ecosystems or vegetation?		No	0	
Destruction of trees and vegetation?		No	0	
Insufficient drainage leading to water logging?		No	0	
Negative effects on surface water quality, quantities or flow?		No	0	
Block any road/access/approach?		No	0	

Screening Questions	Yes	No	Impact Scale (-6~0~+6)	If "Yes", Please Provide Remarks
Will there be any long-term impacts on local hydrology?		No	0	
Is adequate water supply to school available?	Yes		4	Adequate
Increased noise due to day-to-day construction activities?	Yes		-2	Mitigated by changing work procedure
Is there any dust / air pollution during construction phase?	Yes		-1	Mitigated by changing work procedure
Will there be waste generation when construction works are going on?	Yes		-1	Mitigated by changing work procedure
C. Other Potential Impacts				
Will the subproject cause?				
Degradation or disturbance of historical or culturally important sites (mosque, graveyards, monuments etc.)?		No	0	
Health risks to labors involved in activities?	Yes		-2	Mitigated by safety measures
D. Potential Positive Environmental Impacts.				
Improved sanitation and personal hygiene.	Yes		3	Achieved through additional toilets by DPHE
Enhanced quality of school environment.	Yes		4	Achieved through additional classroom construction
Employment generation for local people during construction period.	Yes		4	Achieved through local workers involvement
E. Environmental assessment category as per GOB				
What is the environment assessment category (DDR or IEE) as per ECA-97 and ECR 97 of GOB and ADB's SPS ?	Yes		6	As per DOE(ECA & ECR 97), Category Orange A & ADB, Category- C.
Will project enhance quality of education?	Yes		3	Achieved through construction of additional classroom
Score Total			18	

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: Md. Kawsar Ali

Designation: Surveyor, LGED

Filled and signed by LGED/DPHE Assistant Engineer: _____

Name: Muhammad Sakib Sarkar, UAE, LGED, Mohamed Shehryar Ali, UE

Date: 14/01/21

Reviewed and signed by LGED/DPHE Executive Engineer: _____

Name: Md. Monirul Hossain, XEN, LGED

Date: 14/01/21

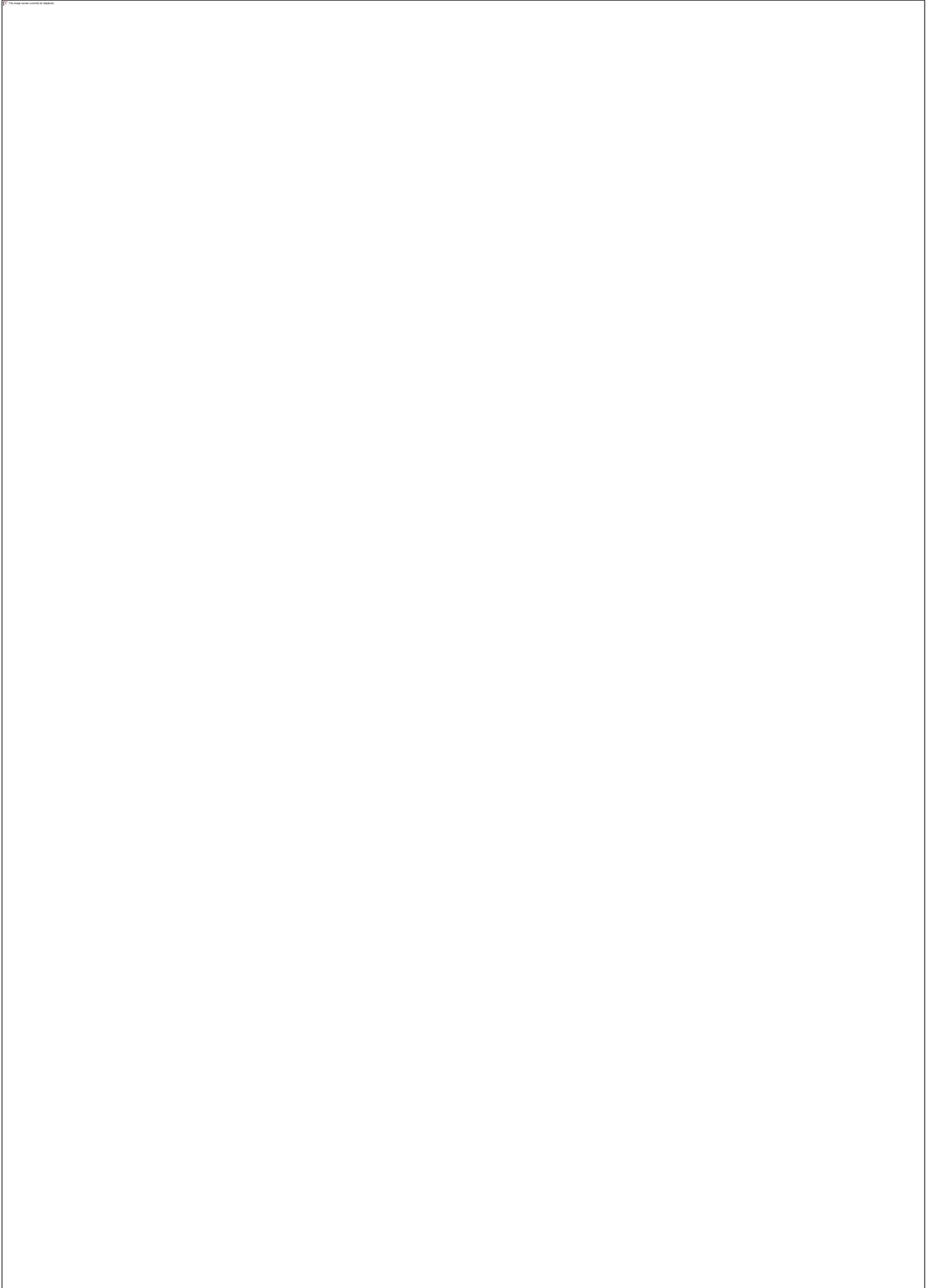
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নির্বাহী প্রকৌশলী
এলাজিইডি, জেলা-ঢাকা।

মোহাম্মদ শাহজাহান আলী
সহকারী প্রকৌশলী
এলাজিইডি, জেলা-ঢাকা।

Construction Phase Monitoring Details

Date of Screening: 14/01/2025 School Code: 91310130404 School Name: Moddhayer char Govt Primary School

Screening Questions	followed	Not followed	If "Yes", please provide Remarks
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.	Yes		done by Contractor
The contractor will ensure supply of pure drinking water to the workers during the time of construction.	Yes		done by Contractor
The contractor will keep a first aid box at the site for any accident.	Yes		done by Contractor
The contractor will take necessary precaution for the safety of his workers and also for the safety of the pedestrians.	Yes		done by Contractor
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.	Yes		done by Contractor
The contractor will not engage any child labor in the work.	Yes		No child labour is engaged
contractor will not pollute any nearby source of surface water by any of their activities.	Yes		No surface water is polluted
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 minimum.	Yes		Contractor is taking necessary steps to minimized sound pollution
The contractor will engage local people in the work as far as possible. The vulnerable destitute women should get preference.	Yes		local people are engaged in the work
The contractor will not hamper the drainage network of the area by any of their activity.	Yes		No drainage network is hampered
The contractor will not cut or damage any tree in and around the project area without the permission of the supervising authority.	Yes		No tree has been cut or damaged
The contractor will take every initiative to reduce dust emission during the construction work i.e sprinkling of water on the dust etc.	Yes		Necessary steps have been taken by contractor
contractor will not set any temporary burner under any tree.	Yes		Contractor is aware of this
If required, the contractor will collect filling earth from existing ditches, ponds and fallow lands to avoid land loss.		Yes	No filling earth is collected
No of Women Labour working in the sub-project	Yes		About 5 Nos of women are working



Annexed-2: Filled in Environmental Screening Format

Appendix-3.1: Sub-Project Identification for Construction of Classrooms

Name of the Work/School/Office : MonohoriaName of the District : DhakaName of the Upazila, Union & Village : Keranigonj, Taranagar, KhanbariEMIS Code of the School : 91310130304

Appendix-3.2: Proposed Activities Asper Preliminary Scheme Design:

Title of Activities	Description of Proposed Activities (Length, width, area, volume, height in feet etc.)	Remarks
Land Development	0 * 0 * 0	No need
Construction of main school building (extension)	47 * 32 * 0	Approved 2H+1V, 4 storied foundation
Construction of boundary wall	660 * 0 * 0	Need for future development
Construction of internal Roads	0 * 0 * 0	No need
Construction of water supply and sanitary latrine	16 * 14 * 0	Adequate water supply, 2 storied 2 unit wash block prepared by DPHE

Appendix- 1.4:**ENVIRONMENTAL SCREENING FOR EXTENSION/RECONSTRUCTION OF SCHOOL & OFFICE BUILDINGS**

Project Name: Fourth Primary Education Development Program (PEDP4)

Date of Screening: 10/01/2021

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

Name of School : Mono Horia
 District : DHAKA
 Upazila : KERANIGONJ
 Union : ভারানগর
 Village : Khanbari
 Type of Subproject : Construction & Additional Classrooms

Major Activities of the Subproject:

Screening Questions	Yes	No	Impact Scale (-6~0~+6)	If "Yes", Please Provide Remarks
A. Subproject Siting Is				
Is the subproject area adjacent to or within any of the following environmentally sensitive areas?		NO	0	
Protected Area		NO	0	
Wetland		NO	0	
Unstable slope, landslide, erosion area		NO	0	
Disaster prone area (e.g. flood, cyclone, storm surge)		NO	0	
B. Potential Environmental Impacts Will the subproject Cause				
Loss of agricultural/forest land?		NO	0	
Negative effects on rare, (vulnerable), threatened, or endangered species of flora and/or fauna or their habitat?		NO	0	
Negative effects on designated wetlands?		NO	0	
Negative effects on locally important or valued ecosystems or vegetation?		NO	0	
Destruction of trees and vegetation?		NO	0	
Insufficient drainage leading to water logging?		NO	0	
Negative effects on surface water quality, quantities or flow?		NO	0	
Block any road/access/approach?		NO	0	

Screening Questions	Yes	No	Impact Scale (-6~0~+6)	If "Yes", Please Provide Remarks
Will there be any long-term impacts on local hydrology?		No	0	
Is adequate water supply to school available?	Yes		3	Adequate
Increased noise due to day-to-day construction activities?	Yes		-2	Mitigated by changing work procedure
Is there any dust / air pollution during construction phase?	Yes		-2	Mitigated by changing work procedure.
Will there be waste generation when construction works are going on?	Yes		-1	Mitigated by changing work procedure.
C. Other Potential Impacts Will the subproject cause?				
Degradation or disturbance of historical or culturally important sites (mosque, graveyards, monuments etc.)?	No	No	0	
Health risks to labors involved in activities?	Yes		-2	Mitigated by safety measures
D. Potential Positive Environmental Impacts.				
Improved sanitation and personal hygiene.	Yes		3	Achieved through additional toilets by DPHE
Enhanced quality of school environment.	Yes		4	Achieved through additional classroom construction
Employment generation for local people during construction period.	Yes		3	Achieved through local workers involvement
E. Environmental assessment category as per GOB				
What is the environment assessment category (DDR or IEE) as per ECA-97 and ECR 97 of GOB and ADB's SPS ?	Yes		6	As per DOE(ECA & ECR 97), Category Orange A & ADB, Category- C.
Will project enhance quality of education?	Yes		4	Achieved through construction of additional classrooms.
Score Total			16	

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: Md. Belal Hossain

Designation: SAE, LGED

Filled and signed by LGED/DPHE Assistant Engineer: _____

Name: Muhammad Sakib Sarwar, UAE, LGED, Mohammad Shafiqul Alam, UAE, LGED

Date: 10/01/21

Reviewed and signed by LGED/DPHE Executive Engineer: _____

Name: Md. Monirul Hossain, XEN, LGED

Date: 10/01/21

(মোঃ মোশাররফ হোসেন)
নির্বাহী প্রকৌশলী
এলজিইডি, জেলা-ঢাকা।

মোহাম্মদ শাহজাহান আলী
উপজেলা প্রকৌশলী
এলজিইডি, কোম্পানি, ঢাকা।

Construction Phase Monitoring Details

