



Fourth Primary Education Development Program (PEDP-4)

Semi-Annual Social Monitoring Report

DEPARTMENT OF PUBLIC HEALTH ENGINEERING

July'2022 - Dec'2022

[A report on WASH facilities and its social impact under PEDP-4]



Primary Education Unit, DPHE, Dhaka

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ABBREVIATIONS & ACRONYMS

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



EXECUTIVE SUMMARY

The prime objective of PEDP-4 is to ensure an efficient, inclusive and equitable primary education system through a child friendly physical learning environment. Infrastructural development in terms of construction of class rooms and wash blocks, installation of safe drinking water points plays an important role in achieving the sustainable physical learning environment as well as ensuring holistic development of children. Department of Public Health Engineering (DPHE) is solely responsible to provide the water supply and sanitation facilities in the primary schools of Bangladesh. As per the approved revised DPP (RDPP) of PEDP-4 DPHE will install 20,000 new water points and construct 58,000 Wash Blocks in the primary schools of Bangladesh throughout the program tenure (July/2018 to June/2025) of 7 years. In addition, DPHE will conduct water quality tests of earlier installed 65,000 water points and undertake major maintenance of wash blocks constructed during PEDP-3. From the beginning of the project until December'2022 DPHE installed a total of 9,336 new water points and constructed 13,510 Wash Blocks. Of them 1,668 water sources and 2,028 wash blocks were constructed during the reporting tenure. In addition, DPHE conducted major maintenance of 790 wash blocks. DPHE officials tried their best to reach the target by coping up with the new normal due to the COVID-19 safety issues within the time frame.

The sole purpose of this study is to identify any concern or issue related to the social safeguard due to the installation of water points, major maintenance of existing wash blocks and construction of new two storied wash blocks from July' 22 to December'22. The study is based on the social safeguard screening conducted during pre-construction, construction and post implementation stages. The screening format is prepared based on the MoPME approved SMF guidelines for PEDP-4. The screening included different social safeguard indicators such as displacement of people due to land acquisition, threat on cultural tradition/ way of life, restriction in access to common properties, effect on places/objects of cultural/religious significance, provision of toilet for disabled student, accessibility and easiness of disabled student to toilets, provision of safe drinking water to children etc.

The screening was conducted by DPHE officials at the Upazilla level which was duly verified in district level and compiled in DPHE headquarter. It is the fact that the pandemic COVID-19 situation slowed down the overall construction and implementation progress. However, the social monitoring screening confirmed no significant instances or issues that may hamper or influence the social safety during the reporting tenure. Being an implementing agency, DPHE would like to uphold this status in its ongoing and upcoming works related to infrastructural development.



1. Introduction

Child friendly physical learning environment is the prerequisite of an efficient, inclusive and equitable primary education system. The latter being the prime objective of PEDP-4, it is utmost important to ensure adequate infrastructure as well as improved water supply and sanitation facilities in the primary schools of Bangladesh on the basis of actual needs. This will not only help in improving the physical learning environment but also reduce the dropout rate through a gender friendly inclusive education system. Fourth Primary Education Development Program (PEDP-4) is the continuation of Government's approach in thriving the excellence of children through the fulfillment of several distinct milestones including construction of need-based infrastructures for sanitation and water supply. The program is supported by significant contributions from Government as well as Development Partners (DPs). Department of Public Health Engineering (DPHE) under Local Government Division (LGD) of Ministry of Local Government, Rural Development and Cooperatives (MLGRD&C) is solely responsible to provide the facilities for quality water supply and sanitation in the primary schools of Bangladesh. As per MoU signed in between DPE and DPHE and as per revised DPP (RDPP) of PEDP-4, DPHE will perform the following activities in the next five years with an aim to provide safe drinking water and sanitation services in the primary schools under PEDP-4.

- Install 20,000 new drinking water sources.
- Replace/repair drinking water sources (if necessary).
- Water quality testing of 65,000 water points installed earlier by DPHE.
- Construction of 58,000 new Wash Blocks in 29,000 primary schools.
- Major maintenance of 10,000 wash blocks constructed in PEDP3.
- Installation of water supply and sanitation facilities in the DD, DPEO, URC, PTI.
- Operation and maintenance (O/M) of water points.

2. Purpose of current report

The basic intent of this report is to identify and resolve any anticipated social safeguard issues related to the land use and impacts that may arise during the installation of water sources or construction of Wash Blocks in the primary schools of Bangladesh. This report will encompass and summarize the findings of the social screening conducted during the installation of water points and construction of Wash Blocks in the primary schools of Bangladesh from the tenure of July'22 to December'22. During implementation of the project, social monitoring screening was conducted based on the Social Management Framework (SMF) of PEDP-4.



3. Indicators of social safeguard as per SMF under PEDP-4

This report covers different distinct social monitoring indicators based on the approved SMF of PEDP-4. Followings are some of major indicators (not limited though) which were considered.

- To investigate whether physical facilities in the school causes any adverse impact on indigenous people, as well as private land owners and public land users.
- To identify if the implementation of new infrastructures causes any threats on cultural tradition or way of life.
- To assess whether the access to common property resources and livelihood activities are severely restricted due to the installation of water sources and construction of Wash Blocks.
- To explore whether the places/objects of cultural and religious significance are affected due to the infrastructural development.
- To examine whether the Wash Blocks are accessible to disabled people and imparts separate private access to male teachers & boys and female teachers & girls.
- To ensure that the installed water sources provide safe and adequate water and does not create any social nuisance in terms of drainage congestion.
- To address any grievances originated from the implementation of the project.
- To assure the safety issues for the officials and workers in the construction sites due to COVID'19 pandemics.

A thorough screening on the above indicators were carried out during the reporting tenure.

4. Methodology

With an aim to investigate the impact of infrastructural development on social safeguard, a thorough screening was carried out in the respective primary schools by the concerned sub-assistant engineers of DPHE. The screening results were duly verified by the respective assistant engineers and a database was prepared at Upazilla level. Executive engineers at district level compiled the verified database obtained from Upazilla level and sent them to DPHE Head Quarter at the MIS (Management Information System) unit, where the database was finally compiled and report was prepared under the supervision of focal point of PEDP-4.

Data for social safeguard screening during the installation of water sources and maintenance of existing Wash Blocks and construction of new two-storied was blocks have been collected from the schools through DPHE official sources using the structured format (copy enclosed in Appendix 1 of this report). Data collected from grass root level have been entered into 'Master Social Survey Outcome' Spreadsheet by DPHE MIS UNIT and kept structured for database and reporting. A flow diagram of the screening method is depicted in Fig. 1.

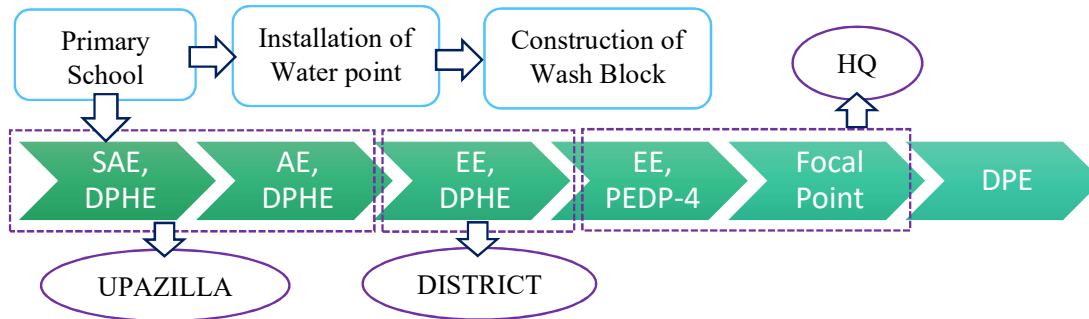


Fig. 1 Method of social safeguard screening

5. Role of DPHE in comprehensive monitoring

The subcomponents (sub component 2.3 and 2.4) of PEDP-4 especially the infrastructural implementation is comprehensively monitored by several parties from commencement to operation. Fig.2 shows the monitoring scheme in PEDP-4 operated by different agencies. Being an implementing agency, DPHE is involved significantly from pre-construction to till post-construction monitoring. Role of DPHE is depicted in Fig.3. It can be noted that the defect liability period for installed water points and constructed wash blocks are 02 years and 01 year, respectively. This implies that contractor is responsible to rectify any sort of defects within this time frame counting from the date of handover of tube well and wash block. According to the order of Chief Engineer, DPHE (memo no. 1066, dated: 16/09/2013), the packages where the defects liability period is over, DPHE will still repair the tube wells within 72 hours of receiving information provided that the concerned school bears the expense of spare parts. In order to get a clear picture of ongoing and completed works, DPHE district office arranges monthly monitoring meeting with all concerned officers and staffs of that district. Executive Engineers thus address the issues of monitoring to the assistant/ sub assistant engineers monthly. Officers of concerned district used to visit the site frequently in order to monitor the ongoing and

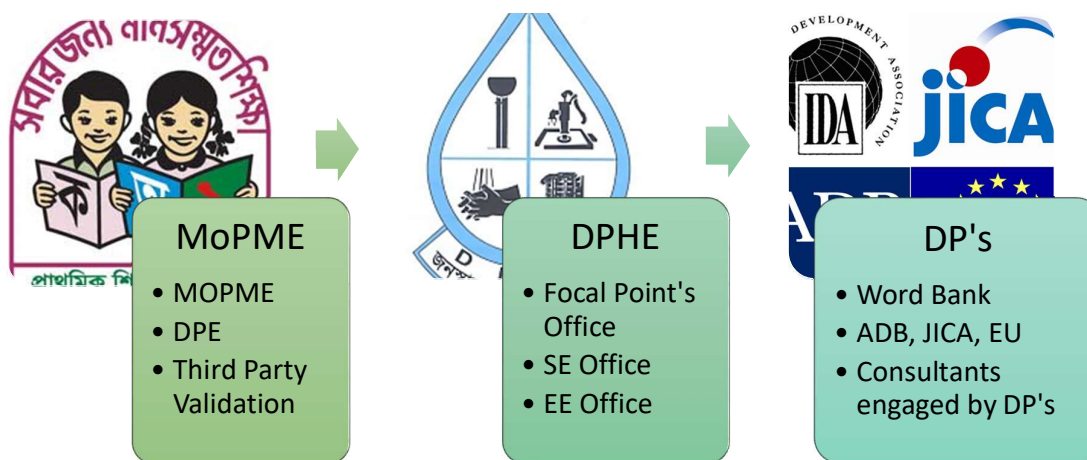


Fig. 2 Monitoring scheme in PEDP-4

completed works and also focus on the social safeguard aspect. Visit from Focal Point's Office and DPHE Head quarter happens frequently.

DPHE district office arranges bi-lateral coordination meeting between DPHE (EE, AE, and SAE) and DPE officials (DPEO, UEO) in every 3 months. A glimpse of the co-ordination meeting is depicted in Fig. 4 which was organized by Executive Engineer, DPHE of Narayanganj district. In this meeting, officers from department of primary education point out the necessity of monitoring of particular school which are immediately addressed by DPHE officials. In addition, mechanics of DPHE upazilla headquarters repair the tube wells in an urgent basis when they are called for doing so from the concerned school in order to ensure that the running water supply are fully operational.

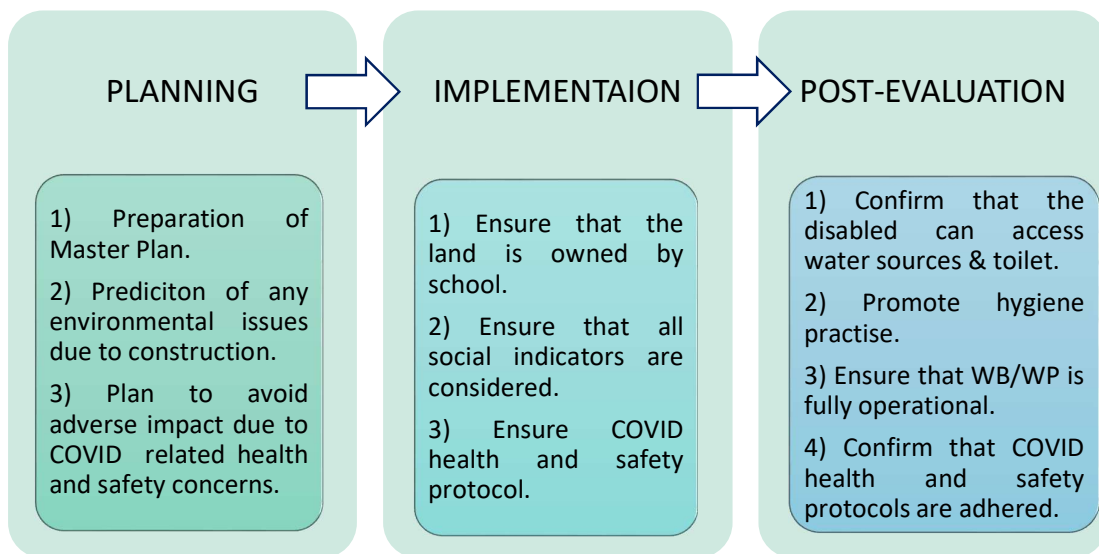


Fig. 3 Role of DPHE in social monitoring



Fig. 4 Co-ordination meeting between DPE & DPHE Officials at Narayanganj district



6. Capacity building

During the implementation of PEDP-3, a ToT (Training of the Trainers) was conducted by the World Bank among DPE, DPHE and LGED officials. The purpose was to introduce the proposed framework for environmental and social safeguard under PEDP-3 along with the importance of conducting rigorous monitoring. In addition, screening method was agreed and confirmed based on targeted outcomes. DPHE officials (Executive Engineers, Senior Assistant Engineers and Assistant Engineers) who received ToT provided trainings to the sub-assistant engineers and mechanics in the district and upazilla level who eventually filled in the environmental screening forms in the grass root level. In PEDP-4, a revised framework is adopted for both environmental and social safeguard. The basic changes are little but elaborate in comparison to that of PEDP-3. On December 5, 2021 ADB conducted a short virtual training workshop on Occupational, Community and COVID-19 Health and Safety Management at the Construction works. Officials, consultants and contractors of both DPHE and LGED attended the training workshop. Although the duration of the training was short, it was effective and guided the participants with valuable insights related to construction safety and COVID-19 health and safety management at construction site.

On May 31, 2022, a meeting on the revision of the latest EMF and SMF was held virtually. The meeting was arranged by DPE and presided over by ADG (PEDP4), DPE. Members from DP's consortium and government officials attended the meeting. The meeting came up with several modification decisions on the existing EMF and SMF which is expected to be included in the revised EMF and SMF. In order to identify the key differences of revised EMF and SMF to that of original EMF and SMF of PEDP-3, newly designed training should be carried out by the experts (from both GoB and DP's) who had inputs during the preparation of revised EMF and SMF. Recently (December 8, 2022), during the QLEAP mission importance of training of the trainees were discussed. It was decided that the existing environmental and social safeguard framework will be revised with an agreed setup by DPE and TA support from the development partners.

During the reporting tenure, DPHE master trainers from Head Quarter and circle Head Quarter (who received ToT during PEDP-3) conducted day long circle level meetings to expedite the works related to the construction of wash blocks and installation of water sources and for the smooth implementation of construction work by adhering the guidelines of both revised EMF and SMF and COVID-19 health and safety protocol. Photo of such circle level meeting from Barishal is depicted in Fig.5. Thus, the trained engineers try and function as peer educators to educate the site workers and contractors. Thus, the trained engineers try and function as peer educators to educate the site workers and contractors. A summary of training and capacity building activities is tabulated below.



Fig. 5 SE, DPHE, Barishal Circle and other high officials attending co-ordination meeting

Table 1 Training and capacity building activities during Jan/2022-June/2022

Training Title	Date	Venue	Training Details	No. of Participants	
				Male	Female
Supervision and Construction Quality Control under PEDP4/GPS/NNGPS Project	28/08/2022	DPHE Gazipur Division office	Training on on-job issues such as Civil / Water Supply / Sanitary / Plumbing related issues in accordance with revised EMF, SMF and COVID-19 New Normal	8	4
	02/09/2022	DPHE Khulna Division office		18	2
	09/09/2022	DPHE Nilphamari Division office		14	-
	26/10/2022	DPHE Narayanganj Division office		11	1
	26/11/2022	DPHE Jashore Auditorium		75	4
	03/12/2022	DPHE Barishal Auditorium		78	7
Total =				204	18
Cumulative Number of Training from the beginning of the project till date =				40	

7. Social safeguard screening by DPHE (July'2022 – December'2022)

It cannot be denied that COVID-19 situation slowed down the overall construction and implementation progress. But with restrictions being lessened, DPHE has quickly adapted to the new normal by developing a comprehensive COVID-19 Site Operating Procedure (SOP) alongside several site and task specific risk assessments. DPHE constructed and installed a total of 13,510 wash blocks and 9,336 water points till date from the beginning of this project. Among these, a total of 2,028 wash blocks and 1,668 water points were installed and handed over during the reporting tenure of July'2022 to December'2022. In addition, DPHE finished the monitoring of 15,000 water points (installed in



PEDP3) and currently undertaking monitoring of 25,000 water points for arsenic contamination. All these works were monitored based on approved Social Monitoring Framework (SMF) for PEDP-4. Table-2 summarizes the list of DPHE implemented works where screening for social safeguard was carried out.

Table 2 Progress of Work under PEDP-4, DPHE

Scope of Work	FY 19-20	FY 20-21	FY 21-22	July'22- Dec'22	Total
Construction of Wash Block	-	6,760	4,722	2,028	13,510
Installation of Water Sources	240	4,401	3,027	1,668	9,336
Maintenance of Wash Block	689	4,010	1,663	790	7,152
Water Quality Monitoring	-	-	15,000	-	15,000

This report focuses on the construction work from the tenure of July'2022 to December'2022. During this period, not only new wash blocks were constructed and water points were installed, major maintenance of 790 wash blocks which were constructed during PEDP-3 were carried out. Furthermore, monitoring of 25,000 water points installed during PEDP-3 were undertaken for arsenic contamination. The status of the water points and wash blocks received through the monitoring survey is given in following subsections. A list of random monitoring visit from DPHE Head Quarter is listed in Table 3.

Table 3 Monitoring visits from DPHE Head Quarter during the reporting period

Sl. No.	Name of subproject	Location	No. of WB/WS	Date of Inspection
1	Construction of Wash Block (WB)	Khulna	22	07/06/2022 - 10/06/2022
2	Installation of Water Supply (WS)	Gazipur	35	05/09/2022 - 08/09/2022
3	Construction of Wash Block (WB)	Nilphamari	18	09/09/2022 - 11/09/2022
4	Construction of Wash Block (WB)	Faridpur	26	12/10/2022 - 15/10/2022
5	Construction of Wash Block (WB)	Narayanganj	23	26/10/2022 - 28/10/2022
6	Construction of Wash Block (WB)	Rangpur	46	12/11/2022 - 16/11/2022

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

8. Outcomes of social safeguard screening

8.1 Influence of type of water point

Planning from the lessons learnt in PEDP-3

It is fact that, DPHE installed water points of different options such as Deep Tube Well (DTW), Shallow Tube Well (STW), Tara Tube well, Ring Well (RW), Pond Sand Filter (PSF), Rain Water Harvesting (RHW) in PEDP-3 based on the variation in geological formation, position of aquifer /water table, saline water intrusion etc. However, all those options have certain advantages as well as multiple



drawbacks. The common of which is the ease of availability of water from source and their familiarization and user friendliness to the young users.

In order to mitigate the concerns and to make the water sources more popular and user friendly, DPHE started installing Tube well with Submersible Pump (TSP) in all the primary schools under PEDP-4. This option has special features such as-

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

Comment:

Installation of tube well with submersible pump added values to its users especially young users which eventually increases the easy access to safe drinking water result in health benefit along with improved social safeguard.

8.2 Is there any discrepancy in the distribution of construction facilities?

Countrywide distribution of tube wells and wash blocks were analyzed and division wise categorization for water source and wash block is depicted in Figs. 6 and 7 respectively. Fig. 6 depicts the equity in distribution of water sources. Among the total installed water points, the highest number was installed in Rajshahi division followed by Chattogram and Sylhet division while the minimum number of water points were installed in Mymensingh division. This is as per need assessment criteria and approved list supplied by DPE based on approved IPG.

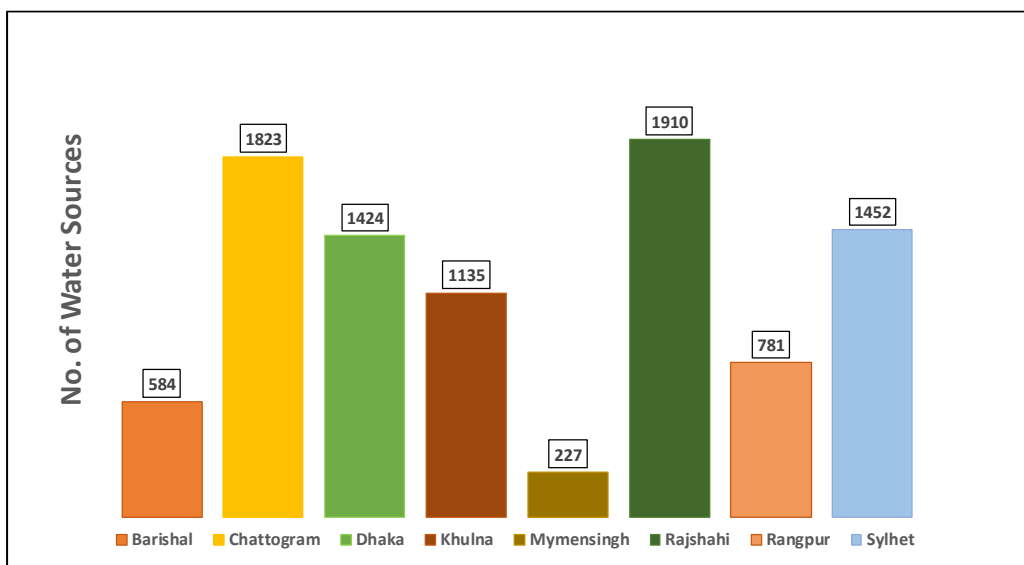


Fig. 6 Countrywide distribution of water points



Fig. 7 reflects the countrywide distribution of wash blocks depending on the number of districts and upazillas in each division. The maximum number of wash blocks were constructed in the Dhaka, Chattogram, Rangpur, Khulna division as these divisions cover maximum districts. The lowest number of wash blocks (536) were constructed in Mymensingh division as it is the smallest division of Bangladesh and thus, equity in distribution is justified.

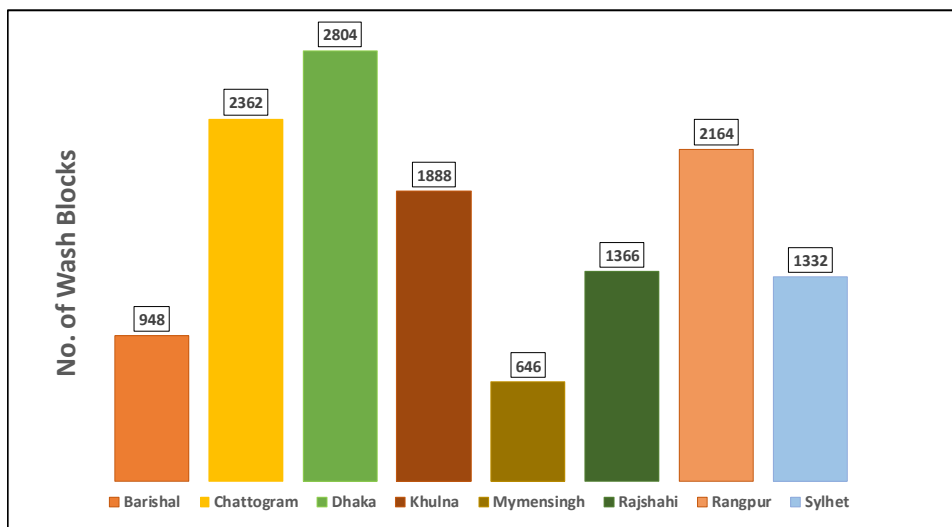


Fig. 7 Countrywide distribution of wash blocks

Wash Block is serving as a unique unit of hygiene practice for the school children as well as for teachers. Its impact on environment is high as it helps to promote hygiene as well as safe and clean school environment. Open defecations and urination practices decreases and confirms better health through improved washing facilities. On the other hand, tube well ensures safe drinking water for the school children as well as for the teachers.

8.3 Is there any discrimination in the distribution of facilities for ethnic communities?

According to Bangladesh Population and Housing Census, 2011, approximately 1.8 per cent of the population are indigenous ‘Adivasis’, amounting to around 1.6 million. Of them 4.50-59.76% ethnic population resides in Chattogram division, majorly in Rangamati, Khagrachari, Bandarban districts. In addition, there are indigenous people residing in areas like Rajshahi, Sylhet, Mymensingh. As depicted in Fig. 8, among the total 2,028 wash blocks constructed in the report tenure, 11% were in the ethnic community driven areas so that they can be directly benefitted from those facilities. This should minimize the open defecation and urination practices and promote good hygiene practice among children. Similarly, 16% of the total installed water points were in the ethnic community areas which confirmed their access to safe drinking water. Therefore, special consideration and priority is given for the under-privileged people instead of discrepancy.

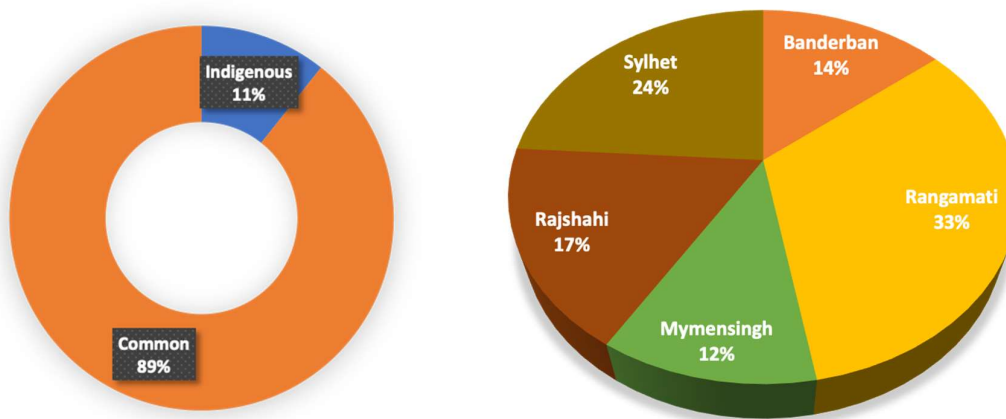


Fig. 8 Distribution of wash blocks in areas of having indigenous community

8.4 Is there displacement of people due to land acquisition?

During the construction of 2,028 wash blocks in the reporting tenure, no issues were encountered regarding displacement of people due to land acquisition since all those wash blocks were constructed in the school owned land. In addition, major maintenance of previously constructed wash blocks did not cause any dislocation. Furthermore, during planning and implementation of works related to the installation of water points, it was confirmed that all 1,668 water points were installed in the land owned by respective school.

Comment:

The activity related to the installation of water points and construction of new wash block did not require any land acquisition. As such, no displacement of people as well as no adverse impact on livelihood happen.

8.5 Is there any threat on cultural tradition?

Construction of 2,028 new wash blocks having provision of running water supply brought a positive vibe in surrounding society as children could get easy access to safe sanitation. In addition, installation of 1,668 safe drinking water sources ensured reduction of water borne diseases which eventually decreased the rate of absence of students from the school. The screening result confirmed that the construction of wash blocks, installation of water sources and major maintenance of wash blocks did not create any obstruction to the places/objects of cultural/religious significance.

Comment:

The activity related to the installation of water points and major maintenance of existing wash blocks and construction of new wash blocks did not create any threat on cultural tradition. In contrary,

the activity improved the way of life as the facilities confirmed access to safe drinking water and safe sanitation.

8.6 Is there any sign of improvement of way of life?

Along with the installation of tube well with submersible pump, DPHE constructed 5 outlet hand washing basins in all 1,668 new water points with the provision of running water supply. Construction of hand washing basin has a positive impact on the way of life as it improves the habit of hand washing among the children which is an essential part of our everyday life and a learning in the current COVID-19 context. Construction of 2,028 Wash blocks confirmed the access to safe sanitation facilities which in turns improves the way of life. Fig. 9 depicts the constructed wash block and 5 outlet water collection basin. The screening result confirmed that the installation of water points with provision for hand washing basin and construction of wash blocks improved the way of life.

Comment:

The activity related to the installation of water points with hand washing basin improved the way of life as the facilities confirmed the access to safe drinking water and promote hygiene.



Fig. 9 (L): Constructed Wash Block (R): 5 outlet water collection basin

8.7 Do the installed water points provide safe drinking water?

Water testing facilities in DPHE zonal laboratory:

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

During installation of water points, suitable water layers are generally selected based on DPHE's experience and geographic location. After installation of new water points in the said 1,668 schools, laboratory tests were conducted to identify potential hazards of Arsenic, Iron and Chloride in



water. The tests were done by the laboratory circle of DPHE and the reports are stored in the DPHE MIS database. From the screening of 1,668 tube wells, it was found that 39 of them had the concern of excess arsenic (As) and/or, Iron (Fe) beyond the Bangladesh standard (arsenic, iron and chloride content below 50ppb, 5mg/l and 600mg/l respectively) of safe drinking water. For the rest of the cases arsenic, iron and chloride content were found satisfactory during laboratory tests.

Water Quality report of those 39 unacceptable water sources and suggested alternative option along with retest result is summarized in Table 1 of Appendix-5. Fig. 10 shows the diagrammatic presentation of water quality test results. In addition, ample field tests were conducted in those schools during post monitoring phase by DPHE by using field kit which re-confirmed the DPHE laboratory test results. A sample copy of water test result is provided in Appendix-2 and water quality test report for 39 unacceptable water sources have been presented in Appendix-4. A summary of water quality monitoring report is provided in Table 4.

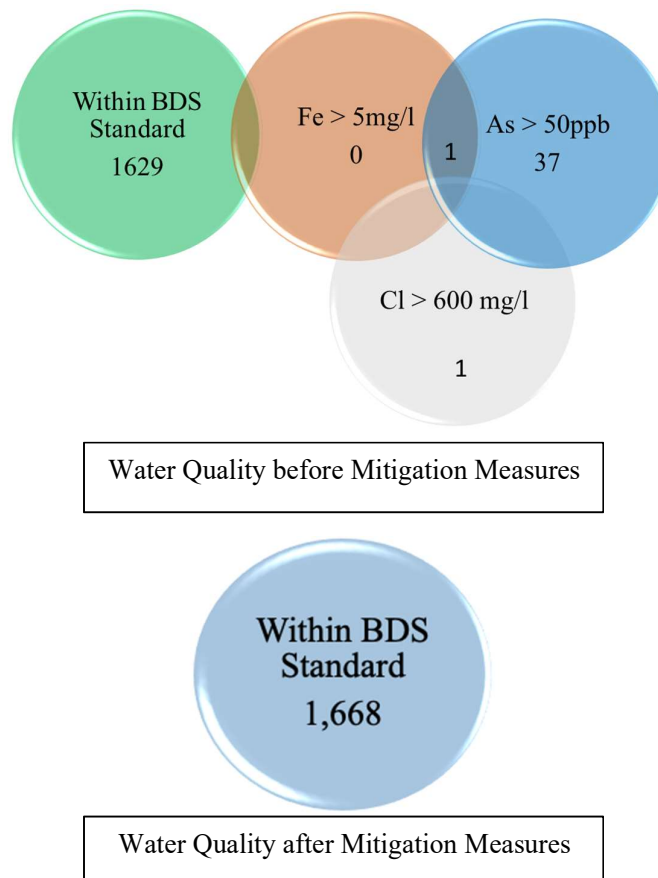


Fig. 10 Water Quality test result at a glance

Table 4 Summary of Water Quality Monitoring Result

Sl. No.	District	Water Quality not Satisfactory				Remarks
		Fe > 5mg/L	Cl > 600mg/L	As > 0.05mg/L	Total	
1.	Sunamganj	1	0	24	26	List of 'Not Satisfactory' water sources are given in Appendix-7 and Actions taken for the water sources where water quality is not satisfactory are listed in Table 2 of Appendix-7.
2.	Chuadanga	0	0	10	10	
3.	Brahmanbaria	0	1	4	4	
Total =		1	1	38	40*	

* 1 water sources out of 40 have contamination of both either Iron and Arsenic; resulting the total no of water sources as = (40-1) = 39 [For details please refer to Appendix 5].

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

In cases where arsenic/iron/chloride is found beyond allowable BDS standard in installed water sources, DPHE adopts other approved alternate water options. DPHE goes for options like deep tube well of greater depth, ring well, pond sand filter, rain water harvesting, Reverse Osmosis Filter, AIRP, Small box type AIRP etc. whichever is feasible. In some cases, if all the options in hand fails, i.e., boring in greater depth becomes impossible, arsenic is found even in deep tube well and none other option is feasible, DPHE has started implementing 'SONO Filter' as well. DPHE upazilla offices will arrange and install the said filter in those water sources whichever is feasible, convenient and justified. In addition, water from those sources will be further tested and declared safe if found well below the BDS standard of drinking water. Fig. 11 shows some of the suggested filtration technologies.



Fig. 11 Different Suggested Improved Filtration Technologies

It is fact that, in the reporting tenure a total of 39 water sources were found to have water quality concerns with excessive iron, chloride or arsenic. For all the said 39 water points, options like Reverse Osmosis (RO) were installed and filtered water was tested in DPHE zonal Laboratories. The water sources were handed over to the respective schools once the water quality results were found satisfactory. Water quality test results are summarized in Table 1 of Appendix 5.

8.8 Routine Water Quality Monitoring

As per MoU signed in between DPE and DPHE in September 15, 2019, DPHE will conduct water quality monitoring of 65,000 water points installed earlier in PEDP-3 with an aim to provide arsenic free safe drinking water in the primary schools of Bangladesh. It has been decided that 90% of the tests will be conducted in field by utilizing field test kits for arsenic and the rest 10% will be conducted in DPHE zonal laboratory. Due to COVID-19 pandemic, schools were closed which is why the field tests could not be conducted in the financial year 2020-2021. However, all the test kits were bought and well preserved by DPHE in order to conduct the field tests as soon as the schools re-open.

Soon after the re-opening of the schools, steps were taken to conduct water quality screening of 15,000 water points as selected by DPE. In the previous EMR and SMR [Jul'21-Dec'21] test results of those 15,000 water points were reported which indicated 1.44% arsenic contamination. In addition, it was confirmed that water of 98.56% of 15,000 installed tube wells in PEDP-3 are drinkable. DPHE officials immediately took steps in stopping the water intake from these contaminated water points.

On 3rd May, 2022 DPE issued a list of 25,000 water sources installed in PEDP-3 for routine water quality monitoring. All the received school lists are sent to the concerned EE Office and the routine water quality monitoring program is currently underway. Tenders have been called upon to purchase field arsenic testing kit by DPHE Central Laboratory and the evaluation of the received tenders are ongoing.

8.9 Are the constructed toilets accessible for disable people?

The state-of-the-art design of wash block includes the provision for 1(one) toilet for disabled people. This special toilet has high commode along with hand rail facility. In addition, all the wash blocks have ramp provision which facilitates easy access for the disabled people (Fig. 12). DPHE



Fig. 12 Toilet for disabled teachers and student



constructed 2,028 new wash blocks in the reporting tenure. Moreover, out of 790 wash blocks which were screened for major maintenance, toilet for disabled people in all wash blocks were found to be accessible for disabled student.

Comments: All disabled toilets were found to be operational and accessible during the post monitoring phase.

8.10 COVID-19 Reality, School Re-Opening and New Normal

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

In order to confirm adequate hygiene practise, DPHE district and upazilla level officers monthly conduct sessions related to hygiene promotion activities with TEO, ATEO and Primary School Headmasters in the schools or DPHE district offices. All these activities put positive sign to the improvement of total environment. Prior to the re-opening of the schools DPHE district offices and Upazilla offices conducted disinfection of school premises and maintenance of wash blocks and water sources as and where required. Besides these all the construction activities regarding construction of wash blocks, maintenance of wash blocks and installation of water sources are constructed following the guidelines by Ministry of Local Government, Rural Development and Cooperatives (Appendix-3).

8.11 Is there any special safety issue taken during COVID'19 pandemics?

COVID-19 has disrupted day to day operations in construction work but as the time progresses, our understanding of how the virus spreads has also evolved. In these uncertain times, worksite safety and health are more important than ever before. DPHE follows the rules and regulations proclaimed by the Ministry of Local Government, Rural Development and Co-operatives (MLGRD&C). On 7th May'2020, the MLGRD&C provided some instructions on a basis of emergency for the safety considerations during the pandemic situation (Attached in Appandix-3) vide memo No. 1629 on 07/05/2020. Specific COVID-19 safety guidelines which is recommended for construction workers include-

- i) The workers in construction sites have to maintain safe distance (i.e., 1m) from each other and have to wear the mask, hand gloves, gumboot, helmet etc. and no worker will be permitted in the project site without these equipment.
- ii) There should be a proper arrangement of soap and hand sanitizer in worksite and all the workers must wash hand with antiseptic soap in an interval of 1 hour and also wash their faces and hands before taking meals and after using meals.



- iii) The officials from DPHE headquarter should arrange cautionary meetings on covid-19 safety issues at district level and upazilla level with the Executive Engineer, Assistant Engineer, Sub-Assistant Engineer (Fig.11) and collect the updates from the construction sites about precautionary affairs through proper channel.
- iv) In addition to the district level, DPHE officials should arrange meeting with School Head Masters at Upazilla level to make them informed about the safety issues for workers in the construction sites of schools as well as the special affairs due to corona pandemic.

DPHE followed the construction safety protocol during COVID-19 pandemic as outlined above. Table 5 summarizes the COVID response performance at the work sites in all the 344 completed contracts (289 for Wash block and 55 for Water Sources) during the reporting tenure.

Table 5 COVID response performance at worksite

COVID-19 Response questions	No. of Contracts			Comments
	FC	PC	N/A	
Site re-opening and entry protocol				
Locate the closest medical establishment equipped with COVID -19 response facilities.	344			
Engage a full time EHS professional at site			344	Currently there is no fund provision in RDPP in favor of DPHE for addressing safeguard. However, engagement of consultant is under process by utilizing management support cost.
Purchase thermometer gun, soap, hand sanitizer, disinfectants and PPEs (mask, hand gloves, hard shoes etc.) and keep it at worksite office.	344			
Establish site entrance protocol. Redesign the site safety notices/signboards/protocol according to the ADB guidelines	344			
Arrange washbasin, soap and clean water at the entrance of every worksite/campsite. Also keep either a disinfectant tub for shoes or keep disinfectant spray that must be sprayed under the boots/hard shoes of the persons entering worksite.	344			
Provide every personnel working in the site with mask, hand gloves and hard shoes for their personal use.	344			
Everyone entering the worksite must wear a mask, gloves and hard shoes	344			
A designated EHS and medical person should stay all time during work. The EHS/Medical person should also monitor campsite. He/she will be in charge of ensuring physical distances (minimum 1m) among workers, disinfecting surfaces that are commonly used and investigate workers'/site personnel health and safety.			344	Currently there is no fund provision in DPP in favor of DPHE for EHS/medical professional
At the start and end of the day disinfect the total worksite.			344	Workers stay at the worksite in labour shed
Encourage site personnel/camp dwellers to not touch their eyes, mouth or nose if not washed thoroughly with soap recently. Also discourage hand shaking or hugs.	344			
Arrange a mandatory site brief on COVID awareness in the morning. The session must be conducted by the EHS/medical professional.		344		Currently there is no fund provision in DPP in favor of DPHE for EHS/medical professional
While worksites are commonly well ventilated (if not make sure the work sites are well ventilated), ensure that the camp sites including the rooms designated for the camp dwellers are well ventilated and spacious.	344			



COVID-19 Response questions	No. of Contracts			Comments
	FC	PC	N/A	
Before sharing common tools/machines at worksite, ensure to disinfect.		344		In some instances, it is difficult to avoid situations like use of mixture machine, vibrator machine etc. during construction
Discourage site personnel to gather and gossip at any time, rather encourage physical distance while chatting/discussing.	344			
Restrict worksite personnel to go outside unnecessarily. Also restrict campsite personnel to go outside without any valid cause.	344			
If any person related at worksite/campsite fall victim to COVID-19 or being kept isolated for pre-caution, consider paid leave with no exception allowed.			344	No such event has been identified during the reporting tenure
Train workers on how to properly put on, use/wear, and take off protective clothing and equipment. The on-site EHS/Medical person should be in-charge of these trainings. These trainings must maintain the WHO's social distancing protocol. Make these trainings mandatory at worksites. Provide 10-15 minutes of a workday for such 'training and encouragement' activities.		344		Since, there is no fund provision in DPP in favor of DPHE for EHS/medical professional training was not conducted by EHS/medical professional. However, such training has been conducted by SAE/AE of DPHE.

9 Grievance redressal status

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

10. Compliance Status to ADB Loan Covenants

The compliance status to ADB loan covenants relevant to social safeguards is listed in Table 6.

Table 6 Compliance with ADB Loan Covenants

Serial no. as per Loan Agreement	Program Specific Covenants	Compliance Status	Remarks
Schedule 4 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.
	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 as described in section 8.4.
	13 To ensure that the program does not involve any negative risks or impacts on tribes or minor races, ethnic sects and communities.	Complied	No negative risks or impacts on tribes or minor races, ethnic sects and communities were reported through the comprehensive social safeguard screening as reported in section 8.5.



11. Implementation Status of CAP recommended in aide memoire

The implementation status of CAP recommended in comprehensive aide memoire is listed in Table 7.

Table 7 Implementation Status of CAP recommended in aide memoire

Sl. No.	Recommended Corrective Action Measures	Implementation Status
1	All tube wells that have been built for more than one year are to be screened annually by DPHE for water quality and physical status of tube wells to ensure fixture damaged/choked up tube wells and where water quality parameters	DPHE completed the screening of 15,000 water points by Dec/2021 and currently undertaking the screening of another 25,000 water points, the list of which is made available on May 3 rd , 2022 by DPE. Please refer to section 8.8 for details.
2	The mission advised DPHE to take initiative for water treatment if deep tube wells are found contaminated with arsenic.	As mentioned in Table 4 of section 8.7, 39 water sources were found to have arsenic contamination during the reporting tenure. It can be seen from Table 1 of Appendix 5 that water treatment facilities were provided in those arsenic contaminated water sources.

12 Conclusions

This study investigates the social safeguard concerns during the implementation of water points and construction of wash blocks based on the approved SMF guidelines for PEDP-4. The social monitoring screening confirmed *no significant instances or issues* that may hamper or influence the social safety during the reporting tenure. Being an implementing agency, DPHE would like to uphold this status in its ongoing and upcoming works related to infrastructure development.


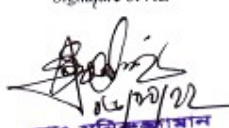



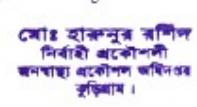
Appendix-1: Social Screening Format for Wash Block

Social Screening Format for Wash Block/Water Sources

District: Kurigram
 Upazilla: fulbari
 Name of School: মধ্যপ্রদেশ সরকারি প্রাথমিক বিদ্যালয়
 School ID: 107050311
 Type of WASH Block/Water Sources: WASH BLOCK

Screening Questions	Base Line		Impact Without Intervention			Impact During Implementation			Impact after Implementation			Remarks
	Yes	No	+	-	N/A	+	-	N/A	+	-	N/A	
Is the land owned by school? If not, Put remarks.	Yes		+						+			
Any loss of Agricultural Land?		No						N/A				N/A
Are the types of Water Points satisfactory?	Yes							N/A				N/A
Is there displacement of people due to land acquisition?		No						N/A				N/A
Is there any threat on cultural tradition/way of life?		No						N/A				N/A
Are the Water Points installed?	Yes		+						+			
Was the Water quality tested?	Yes		+						+			
Do the installed water points provide safe drinking water?	Yes		+						+			
Is there any conflict with Water Supply right?		No						N/A				N/A
Are there provisions of toilet for disabled students?	Yes		+						+			
Are the constructed toilets accessible for disable students?	Yes		+						+			


 Signature of AE

 মোঃ মনিরুজ্জামান
 প্রাথমিক
 জনস্বাস্থ্য প্রকৌশল অধিদপ্তর
 কুষ্টিয়া।


 Signature of Executive Engineer

 মোঃ হাবিবুল রশিদ
 নির্বাহী প্রকৌশলী
 জনস্বাস্থ্য প্রকৌশল অধিদপ্তর
 কুষ্টিয়া।



Social Screening Format for Water Sources

District: Meherpur
 Upazilla: Gangni
 Name of School: chaugacha GCPS
 School ID: 91202020706
 Type of Water Sources: TSP

Screening Questions	Base Line		Impact Without Intervention			Impact During Implementation			Impact after Implementation			Remarks
	Yes	No	+	-	N/A	+	-	N/A	+	-	N/A	
Is the land owned by school? If not, Put remarks.	✓			✓			✓			✓		
Any loss of Agricultural Land?		✓		✓			✓			✓		
Are the types of Water Points satisfactory?		✓		✓			✓			✓		
Is there displacement of people due to land acquisition?		✓		✓			✓			✓		
Is there any threat on cultural tradition/way of life?		✓		✓			✓			✓		
Are the Water Points installed?		✓		✓			✓			✓		
Was the Water quality tested?		✓		✓			✓			✓		
Do the installed water points provide safe drinking water?		✓		✓			✓			✓		
Is there any conflict with Water Supply right?		✓		✓			✓			✓		
Are there provisions of toilet for disabled students?		✓		✓			✓			✓		
Are the constructed toilets accessible for disable students?		✓		✓			✓			✓		

Signature of SAE

(Signature)
 Signature of AE
 সাবেক সিনিয়র ইঞ্জিনিয়ার মোহাম্মদ রহমান
 সহকারী প্রকৌশলী
 জনস্বাস্থ্য প্রকৌশল অধিদপ্তর
 গাংনী, মেহেরপুর।

(Signature)
 Signature of Executive Engineer
 10/11/22
 (মোহাম্মদ মোসাদ্দেক উদ্দিন)
 নির্বাহী প্রকৌশলী
 জনস্বাস্থ্য প্রকৌশল অধিদপ্তর
 মেহেরপুর জেলা, মেহেরপুর।



Appendix-2: Sample Water Quality Test Report (Laboratory)

Government of the People's Republic of Bangladesh
Department of Public Health Engineering (DPHE)
Office of the Senior Chemist, Zonal Lab, Sylhet.
Telephone No: 02997700537, e-mail:wqmsc_syh@zonalab@yahoo.com

Primary Education Development Program (GPS)

Laboratory Test Result

Sl No	District	Upzila	Village	ID	Type of Water			Name of School	GPS			Water Quality			Test Result As (mg/L)	Remarks
					School	Depth (m)	Type		Latitude	Longitude	Clear	Sand	RO Filter			
1	Sunamganj	Derai	Shyamcherchar	603079046	1	1	1	Shyamcherchar GPS	24°43'09"	91°14'29"	1	1	1	0.017	Unit (mg/l)	
2	Sunamganj	Derai	Tarol	601090901	1	1	1	Tarol GPS	24°44'36"	91°23'35"	1	1	1	0.014		
3	Sunamganj	Derai	Gochia	901090304	1	1	1	Gochia GPS	24°49'54"	91°19'38"	1	1	1	0.047		
4	Sunamganj	Derai	Basuri	601090707	1	1	1	Basuri GPS	24°37'49"	91°26'42"	1	1	1	0.046		
5	Sunamganj	Derai	Bangalgaon	601090605	1	1	1	Bangalgaon GPS	24°48'51"	91°20'51"	1	1	1	0.034		
6	Sunamganj	Derai	Rajnao	601090714	1	1	1	Rajnao GPS	24°48'15"	91°26'09"	1	1	1	0.031		
7	Sunamganj	Derai	Hazaripur	601090504	1	1	1	Hazaripur GPS	24°47'42"	91°17'37"	1	1	1	0.014		
8	Sunamganj	Derai	Chamerchar	601090311	1	1	1	Chamerchar GPS	24°46'51"	91°16'05"	1	1	1	0.015		
9	Sunamganj	Derai	Fatemanagar	601090308	1	1	1	Fatemanagar GPS	24°48'44"	91°19'14"	1	1	1	0.009		
10	Sunamganj	Derai	Hasimpur	601090501	1	1	1	Hasimpur GPS	24°47'27"	91°16'15"	1	1	1	0.007		
11	Sunamganj	Jogonathpur	Tegharia	601100705	1	1	1	Tegharia GPS	24°44'41"	91°35'11"	1	1	1	0.015		
12	Sunamganj	Jogonathpur	Kaminipur	601109004	1	1	1	Kaminipur GPS	24°47'58"	91°36'09"	1	1	1	0.014		
13	Sunamganj	Jogonathpur	Mokrapur	601100217	1	1	1	Mokrapur GPS	24°47'34"	91°33'01"	1	1	1	0.042		
14	Sunamganj	Jogonathpur	Rasulpur	601100207	1	1	1	Rasulpur GPS	24°49'27"	91°34'35"	1	1	1	0.005		
15	Sunamganj	Jogonathpur	Islampur	601100214	1	1	1	Islampur GPS	24°48'24"	91°33'48"	1	1	1	0.017		
16	Sunamganj	Jogonathpur	Kachurkandi	601100313	1	1	1	Kachurkandi GPS	24°49'09"	91°33'35"	1	1	1	0.025		
17	Sunamganj	Jogonathpur	Mirpur	601100301	1	1	1	Mirpur GPS	24°47'14"	91°38'04"	1	1	1	0.018		

[Signature]

[Signature]

[Signature]



(Field Test)

EE, DPHE																
<p style="text-align: center;">Government of the People's Republic of Bangladesh Arsenic Test at School by Field Kit under Water Quality Monitoring of Fourth Primary Education Development Program (PEDP4)</p>																
ARSENIC TEST RESULT BY FIELD KIT																
(A) Information of Primary School:																
1. Name of School : <u>pachim Dhemushia Reg: primary school</u>																
2. EMIS Code : <u>4 1 2 0 5 1 2 0 3 0 2</u>																
3. District : <u>Coxbazar</u> 4. Upazilla : <u>chakarania</u>																
(B) Information of Drinking Water Source:																
1. Provision of Water Sources : <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
2. Project : <input checked="" type="checkbox"/> PEDP3 <input type="checkbox"/> GPS-1 <input type="checkbox"/> NNGPS-1 <input type="checkbox"/> PEDP-4 <input type="checkbox"/> Others																
3. Installed By : <input checked="" type="checkbox"/> DPHE <input type="checkbox"/> Others																
4. Year of Installation : <u>2017</u>																
5. Type of Tube Well : <input type="checkbox"/> Deep <input checked="" type="checkbox"/> Shallow <input type="checkbox"/> Tara <input type="checkbox"/> Ring Well <input type="checkbox"/> TSP <input type="checkbox"/> Others																
6. Present Condition : <input checked="" type="checkbox"/> Running <input type="checkbox"/> Temporary Choked up <input type="checkbox"/> Permanently Choked up																
7. Platform/Collection Basin Condition : <input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad <input type="checkbox"/> No Platform/Collection Basin.																
(C) Water quality & Present status:																
<p style="text-align: center;">Arsenic ppb</p> <p>Field Observation: (Please ✓)</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="text-align: center;">50 ml. 0 6.5 ml. 0</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">10</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;">25</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">50</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">100</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">250</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">500</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">1000</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	50 ml. 0 6.5 ml. 0	<input type="checkbox"/>	10	<input checked="" type="checkbox"/>	25	<input type="checkbox"/>	50	<input type="checkbox"/>	100	<input type="checkbox"/>	250	<input type="checkbox"/>	500	<input type="checkbox"/>	1000	<input type="checkbox"/>
50 ml. 0 6.5 ml. 0	<input type="checkbox"/>	10	<input checked="" type="checkbox"/>	25	<input type="checkbox"/>	50	<input type="checkbox"/>	100	<input type="checkbox"/>	250	<input type="checkbox"/>	500	<input type="checkbox"/>	1000	<input type="checkbox"/>	
Arsenic test Result : <u>..... 10 ppb (approx.)</u>	TEST KIT HACH EZ Arsenic Test Kit Cat. No. 28228-00															
BDS Standard : <u>50 ppb (0.05mg/l)</u>																
For School	For DPHE															
Signature & Date: <u>[Signature]</u> Name: <u>প্রধান শিক্ষক (চ: দা:)</u> Designation: <u>পশ্চিম ডেমুশিয়া সরকারি প্রাথমিক বিদ্যালয়</u> Phone: <u>01814-111299</u>	Signature & Date: <u>[Signature]</u> Name: <u>মোঃ আবু ইউসুফ</u> Designation: <u>জি.সহকারী প্রকৌশলী</u> Phone: <u>জনস্বাস্থ্য প্রকৌশল অধিদপ্তর</u>															
<p>[এই পরীক্ষার সাথে বিদ্যালয় কর্তৃপক্ষের কোন আর্থিক সংশ্লেষ নেই। আর্সেনিক পরীক্ষার জন্য সকল খরচ ঠিকাদারী প্রতিষ্ঠান কর্তৃক বহন করা হবে]</p>																

Appendix-3: Safety Issue guidelines due to Covid'19

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়
স্থানীয় সরকার বিভাগ
পাস-১ অধিশাখা।
www.lgd.gov.bd



শেখ হাসিনার মূলনীতি
গ্রাম শহরের উন্নতি

স্মারক নং-৪৬.০০.০০০০.০৮৩.১২.০০২.১৭(অংশ-১)-১৬২৯

তারিখঃ ২৪ বৈশাখ ১৪২৭
০৭ মে ২০২০

বিষয়ঃ জনস্বাস্থ্য প্রকৌশল অধিদপ্তর কর্তৃক বাস্তবায়নাধীন প্রকল্পের কাজ সম্পাদনের জন্য অনুসরণীয় নির্দেশনা।

সূত্রঃ জনপ্রশাসন মন্ত্রণালয়ের প্রজ্ঞাপন নং- ০৫.০০.০০০০.১৭৩.০৮.০১৪.০৭-১৩৫, তারিখ: ০৪ মে ২০২০।

উপর্যুক্ত বিষয় ও সূত্রের পত্রের প্রেক্ষিতে নির্দেশক্রমে জানানো যাচ্ছে যে, জনস্বাস্থ্য প্রকৌশল অধিদপ্তর কর্তৃক বাস্তবায়নাধীন প্রকল্পের কাজ সম্পাদনের জন্য নিম্নবর্ণিত নির্দেশনা অনুসরণ করতে হবেঃ

- ০১) প্রকল্প এলাকায় করোনা ভাইরাস (কভিড-১৯) বিষয়ক স্বাস্থ্য ও পরিবার কল্যাণ মন্ত্রণালয় কর্তৃক জারিকৃত নির্দেশনা সম্বলিত সাইনবোর্ড স্থাপন করতে হবে;
- ০২) স্বাস্থ্য বিধি আনুসরণ ও সামাজিক দূরত্ব রক্ষা করে প্রকল্পের কাজ সম্পাদন করতে হবে। প্রকল্প কাজে যে সকল শ্রমিক কাজ করবে তারা শারীরিকভাবে সুস্থ কি-না তা নির্ণয়ের জন্য ধার্মাল জ্ঞানারের মাধ্যমে তাদের শরীরের তাপমাত্রা পরীক্ষা করতে হবে;
- ০৩) ট্রাকে করে নির্মাণ সামগ্রী পরিবহন/সরবরাহের সময় ট্রাকের সামনে ব্যানারে জনস্বাস্থ্য প্রকৌশল অধিদপ্তর কর্তৃক বাস্তবায়নাধীন সূনির্দিষ্ট প্রকল্পের নাম উল্লেখ থাকতে হবে;
- ০৪) প্রকল্প কাজ সম্পাদনের জন্য শ্রমিকদের নির্দিষ্ট পোশাক পরিধান করতে হবে এবং প্রযোজ্য ক্ষেত্রে মাস্ক, হ্যান্ডগ্লোভস, গামবুট, হেলমেট ব্যবহার করতে হবে;
- ০৫) প্রকল্প এলাকায় নির্মাণ শ্রমিকদের জন্য সাবান পানি দিয়ে হাত ধোয়ার ব্যবস্থা থাকতে হবে। প্রয়োজনে হ্যান্ড স্যানিটাইজার সরবরাহ করতে হবে;
- ০৬) চলমান প্রকল্প এলাকায় কার্যক্রম চলাকালীন কাজের বিবরণ সম্বলিত সাইনবোর্ড স্থাপন করতে হবে;
- ০৭) প্রকল্প কাজে নির্মাণ সংশ্লিষ্ট যন্ত্রপাতি ব্যবহারের ক্ষেত্রে স্বাস্থ্য সুরক্ষার বিষয়টি নিশ্চিত করতে হবে;
- ০৮) প্রকল্প কাজে নিয়োজিত নির্মাণ শ্রমিকদের স্বাস্থ্য বিধি অনুসরণপূর্বক সামাজিক দূরত্ব বজায় রেখে নির্ধারিত নির্মাণ শেডে অবস্থান করতে হবে;
- ০৯) পাথর, সিমেন্ট বা অন্যান্য নির্মাণ সামগ্রী এক জেলা হতে অন্য জেলায় পরিবহনের প্রয়োজন হলে সংশ্লিষ্ট জেলা প্রশাসকগণকে অবহিত করতে হবে;
- ১০) প্রযোজ্য ক্ষেত্রে প্রকল্পের কাজ চালানোর জন্য সংশ্লিষ্ট জেলা প্রশাসক/উপজেলা নির্বাহী অফিসারের অনুমতি গ্রহণ করতে হবে;

অপর পৃষ্ঠায় দৃষ্টব্য-

(Handwritten signature)

-০২-

১১) উল্লিখিত নির্দেশনা যথাযথভাবে অনুসরণ করা হচ্ছে কিনা তা মাঠ পর্যায়ে তদারকির জন্য জনস্বাস্থ্য প্রকৌশল অধিদপ্তর একটি কমিটি গঠন করবে। কমিটি প্রতি মাসে স্থানীয় সরকার বিভাগ বরাবর প্রতিবেদন দাখিল করবে।

১২) পদ-উল-ফিতরের সরকারি ছুটিতে সকল কর্মকর্তা-কর্মচারীকে তার স্ব-স্ব কর্মস্থলে অবস্থান করতে হবে।

মো: খাইরুল ইসলাম
যুগ্মসচিব
ফোন: ৯৫৭৫৫৬২

প্রধান প্রকৌশলী
জনস্বাস্থ্য প্রকৌশল অধিদপ্তর
কাকরাইল, ঢাকা।

স্মারক নং-৪৬.০০.০০০০.০৮৩.১২.০০২.১৭(অংশ-১)- ১৬২৯/০১(০৮)

তারিখঃ ২৪ বৈশাখ ১৪২৭
০৭ মে ২০২০

অনুলিপিঃ (সদয় অবগতির জন্য)

১. অতিরিক্ত সচিব (পাস), স্থানীয় সরকার বিভাগ।
২. বিভাগীয় কমিশনার (সকল), বিভাগ।
৩. মাননীয় মন্ত্রীর একান্ত সচিব, স্থানীয় সরকার পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়।
৪. জেলা প্রশাসক (সকল), জেলা।
৫. উপসচিব, বিধি-৪ শাখা, জনপ্রশাসন মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
৬. সিনিয়র সচিবের একান্ত সচিব, স্থানীয় সরকার বিভাগ।
৭. কম্পিউটার প্রোগ্রামার, স্থানীয় সরকার বিভাগ।
৮. অফিস কপি।

মো: খাইরুল ইসলাম
যুগ্মসচিব

Appendix-4: Grievance Redressal Committee of DPHE

অনিক ও আপিল কর্মকর্তা	
<p>নাম : জনাব এহতেশামুল রাসেল খান পদবী: তত্ত্বাবধায়ক প্রকৌশলী ফিজিবিবিটি স্টাডি এন্ড ডিজাইন সার্কেল জনস্বাস্থ্য প্রকৌশল অধিদপ্তর, ঢাকা। ফোনঃ +৮৮ ০২ ৯৩৫০১৬৫ মোবাইল :+৮৮ ০১৫৫৬৩৭৭৩২০ ইমেইলঃ se.fsd@dphe.gov.bd</p>	<p>অভিযোগ নিষ্পত্তি কর্মকর্তা (অনিক) অফিস আদেশ</p>
<p>নাম: জনাব মাহমুদ কবির চৌধুরী পদবী: তত্ত্বাবধায়ক প্রকৌশলী ভান্ডার সার্কেল, ঢাকা ফোনঃ +৮৮ ০২ ৯৩৩০৮০২ মোবাইল :+৮৮ ০১৭১৫০৬১০১৫ ইমেইলঃ se.store@dphe.gov.bd</p>	<p>বিকল্প অভিযোগ নিষ্পত্তি কর্মকর্তা (বিকল্প অনিক) অফিস আদেশ</p>
<p>নামঃ মোঃ কামাল হোসেন পদবিঃ যুগ্মসচিব (পলিসি সাপোর্ট অধিশাখা) ই-মেইলঃ psbr@lgd.gov.bd মোবাইলঃ ০১৭১৬১৪৮৪৭৯ ফোন (অফিস) ০২৫৫১০০৮৭২</p>	<p>আপিল কর্মকর্তা</p>



Appendix-5: Water Quality Report of Unacceptable Water Sources

Government of the People's Republic of Bangladesh
 Department of Public Health Engineering (DPHE)
 Office of the Senior Chemist, Zonal Lab, Sylhet.
 Telephone No. 0211100237; e-mail: wqmsc_sylhetzonalab@yahoo.com

Primary Education Development Program (GPS)

Laboratory Test Result

Sl No	District	Upzila	Village	ID	Type of School			Depth (m)	Name of School	GPS		Water Quality			Test Result		Remarks
					6	7	8			10	11	12	13	14	15		
1	Sunamganj	Derai	Slyamerchar	603079046	1	1	1	Slyamerchar GPS	24°45'09"	91°14'29"	1	1	1	2.7	0.066	(Unit (mg/L))	
2	Sunamganj	Derai	Tarol	601090901	1	1	1	Tarol GPS	24°44'36"	91°23'35"	1	1	1	1.3	0.077		
3	Sunamganj	Derai	Gochia	901090304	1	1	1	Gochia GPS	24°49'54"	91°19'38"	1	1	1	1.9	0.099		
4	Sunamganj	Derai	Basuri	601090707	1	1	1	Basuri GPS	24°47'40"	91°26'42"	1	1	1	1.6	0.091		
5	Sunamganj	Derai	Bangalgaoon	601090605	1	1	1	Bangalgaoon GPS	24°48'51"	91°20'51"	1	1	1	6.5	0.08		
6	Sunamganj	Derai	Rajnao	601090714	1	1	1	Rajnao GPS	24°48'15"	91°26'09"	1	1	1	1.7	0.062		
7	Sunamganj	Derai	Hazaripur	601090504	1	1	1	Hazaripur GPS	24°47'42"	91°17'37"	1	1	1	2.2	0.07		
8	Sunamganj	Derai	Charmerchar	601090311	1	1	1	Charmerchar GPS	24°46'51"	91°16'05"	1	1	1	1.5	0.059		
9	Sunamganj	Derai	Fatemanagar	601090308	1	1	1	Fatemanagar GPS	24°48'44"	91°19'14"	1	1	1	2.6	0.087		
10	Sunamganj	Derai	Hasimpur	601090501	1	1	1	Hasimpur GPS	24°47'27"	91°16'15"	1	1	1	2.9	0.055		
11	Sunamganj	Jogonathpur	Tegharia	601100705	1	1	1	Tegharia GPS	24°44'41"	91°35'11"	1	1	1	1.7	0.058		
12	Sunamganj	Jogonathpur	Ghuragaon	601100109	1	1	1	Ghuragaon GPS	24°48'29"	91°32'48"	1	1	1	1.4	0.044		
13	Sunamganj	Jogonathpur	Chikka	601100408	1	1	1	Chikka GPS	24°46'47"	91°33'42"	1	1	1	3.3	0.029		
14	Sunamganj	Jogonathpur	Dakishin Habibpur	601100403	1	1	1	Dakishin Habibpur GPS	24°46'15"	91°33'49"	1	1	1	2.1	0.024		
15	Sunamganj	Jogonathpur	Kaminipur	601109004	1	1	1	Kaminipur GPS	24°47'58"	91°36'09"	1	1	1	2.1	0.059		
16	Sunamganj	Jogonathpur	Mokrampur	601100217	1	1	1	Mokrampur GPS	24°47'34"	91°33'01"	1	1	1	1.3	0.064		
17	Sunamganj	Jogonathpur	Rasulpur	601100207	1	1	1	Rasulpur GPS	24°49'27"	91°34'35"	1	1	1	1.9	0.054		
18	Sunamganj	Jogonathpur	Islampur	601100214	1	1	1	Islampur GPS	24°48'24"	91°33'48"	1	1	1	2.1	0.056		
19	Sunamganj	Jogonathpur	Kachurkandi	601100313	1	1	1	Kachurkandi GPS	24°49'09"	91°33'35"	1	1	1	4.5	0.063		
20	Sunamganj	Jogonathpur	Mirpur	601100301	1	1	1	Mirpur GPS	24°47'14"	91°38'04"	1	1	1	1.6	0.091		

DM


DM

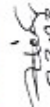
DM



Sl No	District	Upzila	Village	ID	Type of the School	Depth (m)	Name of School	GPS		Water Quality		Test Result		Remarks
								Latitude	Longitude	Sand	Clear	Fe (mg/L)	As (mg/L)	
1	2	3	4	5	6	7	8	10	11	12	13	14	15	17
21	Sunamganj	Jogonathpur	Sanuakhai	601109001	1	1	Sanuakhai GPS	24°50'09"	91°33'17"	1	1	3.8	0.06	
22	Sunamganj	Jogonathpur	Chand Buyalia	601100303	1	1	Chand Buyalia GPS	24°45'52"	91°39'41"	1	1	2.8	0.074	
23	Sunamganj	Jogonathpur	Karimpur	601100709	1	1	Karimpur GPS	24°45'12"	91°38'20"	1	1	2.5	0.076	
24	Sunamganj	Jogonathpur	Syeidpur	601100701	1	1	Syeidpur GPS	24°45'26"	91°35'43"	1	1	1.7	0.074	
25	Sunamganj	Jogonathpur	Posechim Syeidpur	601100703	1	1	Posechim Syeidpur GPS	24°45'31"	91°35'18"	1	1	1.5	0.067	
26	Sunamganj	Jogonathpur	Khaliknagar	601101581	1	1	Abdul Khalik GPS	25°03'01"	91°38'44"	1	1	1.4	0.076	
27	Sunamganj	Jogonathpur	Lahori	601100112	1	1	Lahori GPS	24°47'46"	91°40'10"	1	1	1.9	0.022	
28	Sunamganj	Jogonathpur	Hargram	601100905	1	1	Hargram GPS	24°42'08"	91°33'51"	1	1	5.3	0.018	
29	Sunamganj	Jogonathpur	Chata	601100908	1	1	Chata GPS	24°42'12"	91°34'40"	1	1	3.1	0.044	
30	Sunamganj	Jogonathpur	Kamarkhal	601100103	1	1	Kamarkhal GPS	24°50'07"	91°27'52"	1	1	1.2	0.072	


 23.02.2022
 Md. Zahidul Islam Miah
 Senior Chemist
 DPHE Zonal Laboratory Sylhet.


 23.02.2022
 Dhonojoy Kumar Das
 Sample Analyzer
 DPHE Zonal Laboratory Sylhet.


 23.02.2022
 Md. Abdul Latif
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Water Test Report of PEDP-04 Project

Work order No. 46.03.1800.061.14.004.15-2005; date : 20/08/2020

Package No. :

Contractor : Md. Shah Alamgir, Chapainawabgonj.

Sl. No.	District	Upazilla	Village/Ward	ID	Type of School	Water Point		Name Of School	GPS Reading	Water Quality						Remarks		
						Type	Depth (M)			Sand	Clear	As (mg/L)	Fe (mg/L)	Cl (mg/L)	11		12	13
1	Chuadanga	Chuadanga Sadar	Gabargara	203040201	1	DTW (Sub-Mer.)	108.23	Gabargara Govt. Primary School	N: 23°31'27.10" E: 88°54'59.60"	Free	Clear	0.145	5.38	20				
2	Chuadanga	Chuadanga Sadar	Horishpur	203040302	1	DTW (Sub-Mer.)	108.23	Horishpur Govt. Primary School	N: 23°31'8.10" E: 88°50'48.60"	Free	Clear	0.053	2.57	15				
3	Chuadanga	Chuadanga Sadar	Nobinnagar	203040503	1	DTW (Sub-Mer.)	106.71	Nobinnagar Govt. Primary School	N: 23°34'29.50" E: 88°56'42.30"	Free	Clear	0.030	2.49	15				
4	Chuadanga	Chuadanga Sadar	Begumpur	203040601	1	DTW (Sub-Mer.)	109.76	Begumpur Govt. Primary School	N: 23°31'33.88" E: 88°52'15.47"	Free	Clear	0.053	2.44	25				
5	Chuadanga	Chuadanga Sadar	Kotali	203040604	1	DTW (Sub-Mer.)	111.28	Kotali Govt. Primary School	N: 23°31'43.64" E: 88°51'05.44"	Free	Clear	0.091	4.88	20				
6	Chuadanga	Chuadanga Sadar	Sharaburia	203040703	1	DTW (Sub-Mer.)	109.76	Sharaburia Govt. Primary School	N: 23°30'09.44" E: 88°55'10.63"	Free	Clear	0.027	2.32	10				
7	Chuadanga	Chuadanga Sadar	Kedargonj	203040103	1	DTW (Sub-Mer.)	106.71	Kedargonj Govt. Primary School	N: 23°38'19.30" E: 88°50'06.90"	Free	Clear	0.114	1.97	15				
8	Chuadanga	Chuadanga Sadar	Nehalpur	203040607	1	DTW (Sub-Mer.)	103.66	Nehalpur Govt. Primary School	N: 23°34'18.01" E: 88°51'22.09"	Free	Clear	0.082	2.67	10				
9	Chuadanga	Chuadanga Sadar	Ward No.-09	203040112	1	DTW (Sub-Mer.)	106.71	Reja Khatun Provatii Govt. Primary School	N: 23°38'14.80" E: 88°50'50.80"	Free	Clear	0.021	0.43	40				
10	Chuadanga	Chuadanga Sadar	Surajgonj	203040501	1	DTW (Sub-Mer.)	108.23	Surajgonj Govt. Primary School	N: 23°35'25.10" E: 88°56'16.60"	Free	Clear	0.084	2.62	15				

Sample Collected by:
[Signature]
Md. Nazrul Islam
Junior Chemist
DPHE, Zonal Lab, Jhenaidah.

Sample Analyzed by:
[Signature]
Md. Nazrul Islam
Junior Chemist
DPHE, Zonal Lab, Jhenaidah.

Countersigned/Approved by:
[Signature]
Md. Nazrul Islam
Junior Chemist
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Water Test Report of PEDP-4 Project

Work order No. 46.03.1800.061.14.004.15-205; date : 20/08/2020

Package No. :

Contractor : Md. Shah Alamgir, Chapainawabgoni.

Sl. No.	District	Upazilla	Village/Ward	ID	Type of School	Water Point		Name Of School	GPS Reading	Water Quality					Remarks	
						Type	Depth (M)			Sand	Clear	As (mg/L)	Fe (mg/L)	Cl		CI (mg/L)
1	Chuadanga	Alamdanga	Batiddomathpur	203010211	1	DTW (Sub-Mer.)	106.71	Batiddomathpur Hardi Govt. Primary School	N: 23°48'30.51" E: 88°52'22.0"	Free	Clear	0.008	0.08	15	15	16
2	Chuadanga	Alamdanga	Ramnagar	203010501	1	DTW (Sub-Mer.)	106.71	Ramnagar Govt. Primary School	N: 23°44'58.7" E: 88°51'05.6"	Free	Clear	0.010	0.02	40	20	
3	Chuadanga	Alamdanga	Hogladari	203019013	1	DTW (Sub-Mer.)	91.46	Hogladari Govt. Primary School	N: 23°43'10.5" E: 88°59'55.6"	Free	Clear	0.007	0.03	20		
4	Chuadanga	Alamdanga	Sonatonpur	203011581	1	DTW (Sub-Mer.)	91.46	Ishak Ali Mondal Sonatonpur Govt. Primary School	N: 23°39'40.2" E: 88°54'49.2"	Free	Clear	0.168	0.89	15		
5	Chuadanga	Alamdanga	Ward No. - 07	203012306	1	DTW (Sub-Mer.)	92.99	Alamdanga Poura Bus Terminal Govt. Primary School	N: 23°45'25.7" E: 88°56'07.7"	Free	Clear	0.001	1.89	20		
6	Chuadanga	Alamdanga	Gopalnagar	203019010	1	DTW (Sub-Mer.)	108.23	Gopalnagar Adarsha Govt. Primary School	N: 23°44'02.21" E: 88°53'29.30"	Free	Clear	0.003	0.02	15		
7	Chuadanga	Alamdanga	Anupnagar	203019022	1	DTW (Sub-Mer.)	108.23	Anupnagar Govt. Primary School	N: 23°45'09.5" E: 88°51'35.4"	Free	Clear	0.006	0.02	10		
8	Chuadanga	Alamdanga	Goulbari	203010404	1	DTW (Sub-Mer.)	109.76	Goulbari Govt. Primary School	N: 23°43'04.1" E: 88°52'30.2"	Free	Clear	0.025	1.91	20		
9	Chuadanga	Alamdanga	Batiapara	203010611	1	DTW (Sub-Mer.)	108.23	Batiapara Shalmaria A.G. Girls' Govt. Primary School	N: 23°41'11.5" E: 88°50'58.1"	Free	Clear	0.052	2.47	15		
10	Chuadanga	Alamdanga	Jugirhuda	203011524	1	DTW (Sub-Mer.)	108.23	Rangpur Jugirhuda Govt. Primary School	N: 23°43'14.61" E: 88°52'01.10"	Free	Clear	0.017	2.13	15		

Sample Analyzed by:

Sample Collected by:

Countersigned/Approved by:

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

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Junior Chemist
DPHE, Zonal Lab, Jhenaidah.

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

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Water Test Report of PEDP-4 Project

Work order No. 46.03.1800.061.14.004.15-205; date : 20/08/2020

Package No. :

Contractor : Md. Shah Alamgir, Chupainawabgoni.

Sl. No.	District	Upazilla	Village/Ward	ID	Type of School	Water Point		Name Of School	GPS Reading	Water Quality					Remarks
						Type	Depth (M)			Sand	Clear	As (mg/L)	Fe (mg/L)	Cl (mg/L)	
11	Chuadanga	Alamdanga	Shibpur	203011524	1	DTW (Sub-Mer.)	109.76	Kanainagar Shibpur Govt. Primary School	N: 23°43'32.8" E: 88°49'54.2"	Free	Clear	0.009	0.65	20	
12	Chuadanga	Alamdanga	Baro Boalia	203019201	1	DTW (Sub-Mer.)	109.76	Baro Boalia Govt. Primary School	N: 23°49'35.8" E: 88°52'0.40"	Free	Clear	0.005	0.55	25	
13	Chuadanga	Alamdanga	Barnadi	203019020	1	DTW (Sub-Mer.)	108.23	Baradi Purbepara Abeta Khatun Govt. Primary School	N: 23°44'20.6" E: 88°53'40.6"	Free	Clear	0.002	1.10	25	
14	Chuadanga	Alamdanga	Jagonnathpur	203019021	1	DTW (Sub-Mer.)	106.71	Jagonnathpur Mithpara Govt. Primary School	N: 23°46'44.7" E: 88°58'24.1"	Free	Clear	0.001	0.12	10	
15	Chuadanga	Alamdanga	Puraton Panchilia	203010905	1	DTW (Sub-Mer.)	91.46	Puraton Panchilia Govt. Primary School	N: 23°42'38.3" E: 88°58'52.5"	Free	Clear	0.083	3.28	20	
16	Chuadanga	Alamdanga	Balyarpur	203011004	1	DTW (Sub-Mer.)	106.71	Balyarpur Govt. Primary School	N: 23°40'33.6" E: 88°54'48.2"	Free	Clear	0.001	0.56	15	
17	Chuadanga	Alamdanga	Parlaximpur	203011101	1	DTW (Sub-Mer.)	103.66	Parlaximpur Govt. Primary School	N: 23°37'55.3" E: 88°57'54.8"	Free	Clear	0.001	0.22	40	
18	Chuadanga	Alamdanga	Balarampur	203011205	1	DTW (Sub-Mer.)	106.71	Balarampur Govt. Primary School	N: 23°47'07.0" E: 88°57'03.0"	Free	Clear	0.004	1.32	25	
19	Chuadanga	Alamdanga	Rail Jagonnathpur	203019007	1	DTW (Sub-Mer.)	105.18	Rail Jagonnathpur Govt. Primary School	N: 23°47'21.6" E: 88°57'58.8"	Free	Clear	0.006	0.12	15	
20	Chuadanga	Alamdanga	Mokamtola	203019016	1	DTW (Sub-Mer.)	106.71	Mokamtola Burapara Govt. Primary School	N: 23°38'41.5" E: 88°55'28.9"	Free	Clear	0.001	0.24	25	

Sample Analyzed by:

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

Sample Collected by:

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Sample Analyzer
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Countersigned/Approved by:

Md. Nazrul Islam
Md. Nazrul Islam
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DPHE, Zonal Lab, Jhensaidah.



স্বাক্ষরিত
 সিনিয়র
 জনস্বাস্থ্য পরিকল্পনা কর্মকর্তা
 ডি.পি.ই.এ.
 জেনারেল ল্যাব, জৈনসিদ্ধা

Government of the People's Republic of Bangladesh
 Office of the Senior Chemist
 Department of Public Health Engineering (DPHE)
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Work order No. 46.03.1800.061.14.004.15-205; date : 20/08/2020

Package No. :

Contact: Md. Shah Alamgir, Chapainawebgoni.

Water Test Report of PEDP-4 Project

Sl. No.	District	Upazilla	Village/Ward	ID	Type of School	Water Point		Name Of School	GPS Reading	Water Quality					Remarks
						Type	Depth (M)			Sand	As (mg/L)	Fe (mg/L)	Cl (mg/L)		
1	Chuadanga	Chuadanga	Baidonathpur	203010211	1	DTW (Sub-Mer.)	106.71	Baidonathpur Haruf Govt. Primary School	N: 23°48'30.51" E: 88°52'22.0"	11	12	13	14	15	16
2	Chuadanga	Chuadanga	Ramnagar	203010501	1	DTW (Sub-Mer.)	106.71	Ramnagar Govt. Primary School	N: 23°44'58.7" E: 88°51'05.6"	Free	Clear	0.008	0.08	15	
3	Chuadanga	Chuadanga	Hogladuri	203019013	1	DTW (Sub-Mer.)	91.46	Hogladuri Govt. Primary School	N: 23°43'10.5" E: 88°59'55.6"	Free	Clear	0.007	0.03	20	
4	Chuadanga	Chuadanga	Secontampur	203011581	1	DTW (Sub-Mer.)	91.46	Jahak Ali Mondal Secontampur Govt. Primary School	N: 23°39'40.2" E: 88°54'49.2"	Free	Clear	0.168	0.89	15	
5	Chuadanga	Chuadanga	Ward No. - 07	203012306	1	DTW (Sub-Mer.)	92.99	Alamdanga Pours Bus Terminal Govt. Primary School	N: 23°45'25.7" E: 88°56'07.7"	Free	Clear	0.001	1.89	20	
6	Chuadanga	Chuadanga	Gopalnagar	203019010	1	DTW (Sub-Mer.)	108.23	Gopalnagar Adarsha Govt. Primary School	N: 23°44'02.21" E: 88°53'29.30"	Free	Clear	0.003	0.02	15	
7	Chuadanga	Chuadanga	Anupnagar	203019022	1	DTW (Sub-Mer.)	108.23	Anupnagar Govt. Primary School	N: 23°45'09.5" E: 88°51'35.4"	Free	Clear	0.006	0.02	10	
8	Chuadanga	Chuadanga	Goalbari	203010404	1	DTW (Sub-Mer.)	109.76	Goalbari Govt. Primary School	N: 23°43'04.1" E: 88°52'30.2"	Free	Clear	0.025	1.91	20	
9	Chuadanga	Chuadanga	Batapara	203010611	1	DTW (Sub-Mer.)	108.23	Batapara Shalimary A.G. Girls' Govt. Primary School	N: 23°41'11.5" E: 88°50'58.1"	Free	Clear	0.052	2.47	15	
10	Chuadanga	Chuadanga	Jugrinda	203011524	1	DTW (Sub-Mer.)	108.23	Rangpur Jugrinda Govt. Primary School	N: 23°43'14.61" E: 88°52'01.10"	Free	Clear	0.017	2.13	15	

Sample Collected by:

[Signature]

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

Sample Analyzed by:

[Signature]

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

Counter signed/Approved by:

[Signature]

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

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

SL No	District	Name of School	EMIS Code	Test Result			Remark	Suggested Option	After intervention		
				As	Fe	Cl			As	Fe	Cl
1	Sunamganj	Shyamerchar GPS	603079046	0.066	2.7	<LOQ	not acceptable	RO Filter	0.017	<LOQ	<LOQ
2	Sunamganj	Tarol GPS	601090901	0.077	1.3	<LOQ	not acceptable	RO Filter	0.014	<LOQ	<LOQ
3	Sunamganj	Gochia GPS	901090304	0.099	1.9	<LOQ	not acceptable	RO Filter	0.047	<LOQ	<LOQ
4	Sunamganj	Basuri GPS	601090707	0.091	1.6	<LOQ	not acceptable	RO Filter	0.046	<LOQ	<LOQ
5	Sunamganj	Bangalgaon GPS	601090605	0.08	6.5	<LOQ	not acceptable	RO Filter	0.034	1.85	<LOQ
6	Sunamganj	Rajnao GPS	601090714	0.062	1.7	<LOQ	not acceptable	RO Filter	0.031	<LOQ	<LOQ
7	Sunamganj	Hazaripur GPS	601090504	0.07	2.2	<LOQ	not acceptable	RO Filter	0.014	<LOQ	<LOQ
8	Sunamganj	Charnerchar GPS	601090311	0.059	1.5	<LOQ	not acceptable	RO Filter	0.015	2.50	<LOQ
9	Sunamganj	Fatemanager GPS	601090308	0.087	2.6	<LOQ	not acceptable	RO Filter	0.009	<LOQ	<LOQ
10	Sunamganj	Hasimpur GPS	601090501	0.055	2.9	<LOQ	not acceptable	RO Filter	0.007	<LOQ	<LOQ
11	Sunamganj	Tegharia GPS	601100705	0.058	1.7	<LOQ	not acceptable	RO Filter	0.015	<LOQ	<LOQ
12	Sunamganj	Kaminipur GPS	601109004	0.06	1.3	<LOQ	not acceptable	RO Filter	0.014	<LOQ	<LOQ
13	Sunamganj	Mokrapur GPS	601100217	0.054	1.9	<LOQ	not acceptable	RO Filter	0.042	<LOQ	<LOQ
14	Sunamganj	Rasulpur GPS	601100207	0.056	2.1	<LOQ	not acceptable	RO Filter	0.005	<LOQ	<LOQ
15	Sunamganj	Islampur GPS	601100214	0.056	2.2	<LOQ	not acceptable	RO Filter	0.017	<LOQ	<LOQ
16	Sunamganj	Kachurkandi GPS	601100313	0.063	4.5	<LOQ	not acceptable	RO Filter	0.025	<LOQ	<LOQ
17	Sunamganj	Mirpur GPS	601100301	0.091	1.6	<LOQ	not acceptable	RO Filter	0.018	<LOQ	<LOQ
18	Sunamganj	Sanuakhai GPS	601109001	0.06	3.8	<LOQ	not acceptable	RO Filter	0.019	<LOQ	<LOQ
19	Sunamganj	Chand Buyalia GPS	601109001	0.074	2.8	<LOQ	not acceptable	RO Filter	0.025	<LOQ	<LOQ
20	Sunamganj	Karimpur GPS	601100303	0.076	2.5	<LOQ	not acceptable	RO Filter	0.027	<LOQ	<LOQ



SL No	District	Name of School	EMIS Code	Test Result			Remark	Suggested Option	After intervention		
				As	Fe	Cl			As	Fe	Cl
21	Sunamganj	Syeidpur GPS	601100709	0.074	1.7	<LOQ	not acceptable	RO Filter	0.022	<2.40	<LOQ
22	Sunamganj	Poshim Syeidpur GPS	601100701	0.067	1.5	<LOQ	not acceptable	RO Filter	0.015	<LOQ	<LOQ
23	Sunamganj	Abdul Khalik GPS	601100703	0.076	1.4	<LOQ	not acceptable	RO Filter	0.012	<LOQ	<LOQ
24	Sunamganj	Kamarkhal GPS	601101581	0.072	1.2	<LOQ	not acceptable	RO Filter	0.006	<LOQ	<LOQ
25	Chuadanga	Rajapur GPS	203040114	0.078	4.28	35	not acceptable	RO Filter	0.006	<LOQ	<LOQ
26	Chuadanga	Jhajri GPS	203040303	0.078	2.74	15	not acceptable	RO Filter	0.006	<LOQ	<LOQ
27	Chuadanga	Shisukallan GPS	203040809	0.085	2.02	10	not acceptable	RO Filter	0.006	<LOQ	<LOQ
28	Chuadanga	Gabargara GPS	203040201	0.145	5.38	20	not acceptable	RO Filter	0.006	<LOQ	<LOQ
29	Chuadanga	Kotali GPS	203040604	0.091	4.88	20	not acceptable	RO Filter	0.006	<LOQ	<LOQ
30	Chuadanga	Kdeargonj GPS	203040607	0.082	2.67	10	not acceptable	RO Filter	0.006	<LOQ	<LOQ
31	Chuadanga	Nehalpur GPS	203040607	0.087	2.67	10	not acceptable	RO Filter	0.006	<LOQ	<LOQ
32	Chuadanga	Sarajgonj GPS	203040501	0.084	2.62	15	not acceptable	RO Filter	0.006	<LOQ	<LOQ
33	Chuadanga	Ishak Ali Mondal Sonatonpur GPS	203011581	0.168	0.89	15	not acceptable	RO Filter	0.006	<LOQ	<LOQ
34	Chuadanga	Puraton Panchlia GPS	203040905	0.083	3.28	20	not acceptable	RO Filter	0.006	<LOQ	<LOQ
35	Brahmanbaria	Khatinga GPS	405011901	0.003	4.86	625	not acceptable	RO Filter	<0.001	<LOQ	<LOQ
36	Brahmanbaria	Araisidha GPS	405011202	0.101	3.6	97	not acceptable	RO Filter	<0.001	<LOQ	<LOQ
37	Brahmanbaria	Araishidha (south) GPS	405011405	0.006	4.33	27	not acceptable	RO Filter	<LOQ	<LOQ	<LOQ
38	Brahmanbaria	Mslondapur GPS	405070208	0.008	4.66	71	not acceptable	RO Filter	<0.001	1.85	<LOQ