Environmental Monitoring Report

PUBLIC
Project No. 47243-004
Semestral Report (July-December 2024)
March 2025

Bangladesh: Rural Connectivity Improvement Project

Prepared by the Local Government Engineering Department, Ministry of Local Government, Rural Development & Cooperative for the Asian Development Bank (ADB).

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12th Semi Annual Environmental Monitoring Report
July to December 2024

ADB Project Number : 47243-004, 47243-005
ADB Loan Number : 3731, 3732, 3932

Bangladesh: Rural Connectivity Improvement Project (RCIP)
&
Rural Connectivity Improvement Project (RCIP) – Additional Financing




Prepared by
The Local Government Engineering Department, Ministry of Local Government, Rural Development & Cooperative
For the
Asian Development Bank

Contents

EXECUTIVE SUMMARY

This environmental monitoring report provides an overview of the Rural Connectivity Improvement Project (RCIP) and Rural Connectivity Improvement Project (RCIP) - Additional Financing and Rural Connectivity Improvement Project (RCIP) - Additional Financing 2 project compliance status against the applicable standards, laws and regulations for environment, health and safety for the period of July to December, 2024. This Semi-annual Environmental Monitoring Report (SEMR) also purports to show the implementation status of the mitigation measures and monitoring programmes suggested in the project environmental management plan (EMP) at sites.

All 132 subprojects of RCIP (200 millions) and RCIP-AF (100 millions) have already been completed and final bill has been paid. As the project has matured, environmental protection practices have become matured also. A working system has been meticulously created over the time to ensure environmental compliance at the sites.

Environmental specialists and Assistant resident engineers of the PISC and environmental focal persons of the contractors with the help of PMU have been instrumental in environmental management through regular monitoring. Visual monitoring along with environmental management forms and checklists were used to implement and monitor mitigation measures to prevent or minimize environmental pollution due to construction activities. Environmental specialists regularly visited the sites to investigate and monitor the EMP implementation progress and conducted informal trainings. Summary of the review of the EMP implementation progress has been included in the report. Some sample pictures of occupational health and safety practices, environmental monitoring (air, water, noise) and corrective actions taken during the period have also been added.

Apart from the EMP implementation, quantitative assessment of air, noise and groundwater quality have been conducted regularly in the reporting period. Results of the tests conducted during the reporting period have been presented in the report. These results show that environmental pollution due to RCIP activities is minimal although a few deviations from the allowable standards were observed. Out of 176 samples, only two samples for $PM_{2.5}$, exceeded the national limits for $PM_{2.5}$ both at baseline (0%) phase at Mirsarai, Chattogram. The baseline phase exceeding of $PM_{2.5}$ shows that RCIP project activities did not cause the surge in pollution. It was obviously caused by local conditions. Noise level measurement results reveal that noise levels have exceeded the national standard at 76 out of 212 locations in total in all phases. Most of the violations were very minor and deviated from the standard very little as most violations were happened at Silent and Residential areas which have very stringent standards. These violations were indeed not from construction activities as most of these deviations happened in the baseline stage(0% work progress); rather during sampling obnoxious noise generated from crowd and market, diesel based water pump (shallow machine), loud voice generated from adjacent schools, tone of prayer (Azan), noise from vehicles passing by were the principal causes. In the groundwater tests, results show that at several locations, Arsenic (As), Iron (Fe), Chlorine (Cl), Magnesium (Mg), Sodium (Na), Lead (Pb), Total Coliform (TC) and Fecal Coliform (FC) concentrations exceed the limits set by DoE. All of these are found in varying concentrations in all over Bangladesh groundwater. Arsenic and Iron pollution problems of Bangladeshi groundwater are well known and this is

known to occur due to natural conditions. Various researches also show that TC and FC contamination of Bangladeshi groundwater is also rampant. Most of these deviations also occurred during baseline phase so natural source or local activities are contributing to these contaminations. Analysis shows that there is no chemical or other process in the construction activities of RCIP that can contribute to the groundwater pollution with Arsenic, Iron, Magnesium, Chlorine, Sodium, Lead, TC and FC. So, these deviations occurred mainly due to local conditions and in no way were influenced by RCIP activities.

Total Tree Plantation length is 250 km (as per DPP) in RCIP and up to December 2024, 42.5 KM tree plantation is fully completed.

After the field observations, investigations & the review of the checklists (dust control, noise control, PPE checklist, site security checklist, accident/incident register etc) and other documents, it can be safely concluded that implementation of the environmental safeguard measures at sites of RCIP are satisfactory. However, there are some improvements needed in day to day environmental management activities. No major violation of the environmental compliance requirements was noted during the reporting period nor did any major pollution incident occur. Site health and safety ensuring measures are duly in place. Informal environmental safeguard awareness programs conducted among the workers by the Environmental Specialists during site visits included necessary instructions to take effective measures to avoid environmental pollutions and ensure HES.

Finally it can be concluded that the project is compliant with DoE and ADB environmental compliance requirements.

CHAPTER 1: INTRODUCTION

I. Description of Project

1. The Rural Connectivity Improvement Project (RCIP) will upgrade about 4,023.345 kms of rural roads spread over 34 districts in 5 divisions. The five divisions covered by RCIP are Dhaka, Chattogram, Khulna, Rajshahi and Rangpur. The Government of the People's Republic of Bangladesh with the development partner the Asian Development Bank (ADB) are financing for improving these rural road network in Bangladesh.

2. The division-wise road list along with the road length is shown in the succeeding Table. Of the 5 divisions in terms of length, Rangpur has the most with 25% while the Dhaka has the least 13.5%. In terms of district distribution, Rajshahi has the largest share with 299.09 km followed by Jashore and Dinajpur with 231.06 and 264.63 km respectively. These three districts combined already accounts for almost 20% of the total project road length. Below the location of projects roads in each district are shown.

Table 1: Division-wise Road List

Sl. No.	Name of the District	Length of Road (km)		Sl. No.	Name of the District	Length of Road (km)
Dhaka Division				Rajshahi Division		
1.	Faridpur	97.708		21.	Bogura	138.617
2.	Gopalgonj	104.866		22.	Chapainawabganj	42.478
3.	Madaripur	184.422		23	Joypurhat	69.174
4.	Rajbari	83.520		24.	Naogaon	128.539
5.	Shariatpur	70.097		25.	Natore	97.340
Sub-Total		540.613		26.	Rajshahi	299.089
				Sub-Total		775.00
Chattogram Division				Rangpur Division		
6	B Baria	158.531		27.	Dinajpur	264.629
7	Chandpur	68.241		28.	Gaibandha	103.007
8	Chattogram	176.180		29.	Kurigram	83.082
9	Cumilla	228.068		30.	Lalmonirhat	53.808
10	Coxsbazar	50.854		31.	Nilphamari	124.480
11	Feni	92.457		32.	Panchagarh	113.350
12	Laxmipur	68.235		33.	Rangpur	98.400
13	Noakhali	90.151		34.	Thakurgaon	160.048
Sub-Total		932.717		Sub-Total		1,000.804
Khulna Division						
14	Chuadanga	139.063				
15	Jashore	231.061				
16	Jhenaidah	91.025				
17	Kushtia	118.748				

Sl. No.	Name of the District	Length of Road (km)		Sl. No.	Name of the District	Length of Road (km)
18	Magura	78.018				
19	Meherpur	29.290				
20	Narail	86.769				
Sub-Total		774.00				
Grand Total						4,023.345

3. The project will boost up agricultural productivity, encourage commercial agriculture and agribusiness development, increase employment opportunities for rural poor, and will reduce poverty. All the rural roads have been selected from the rural road master plans through vigorous selection criteria which include an objective assessment for prioritization. The selection criteria took into consideration the population size, each district's agricultural potential, the number of agricultural farms and commercial establishments, economic potential, access to education facilities, and flood damaged roads, particularly those roads damaged in 2017.

4. It is mandatory to obtain Environmental Clearance for each and every type of industry and project as per Bangladesh Environment Conservation Act, 1995 (Amended 2010). This project's environment Category is Orange B, for the purpose of issuance of Environmental Clearance Certificate, the industrial units and projects shall, in consideration of their site and impact on the environment. Impacts from all roads were screened and assessed and initial environmental examination (IEE) report was prepared for both RCIP-AF and RCIP-AF-2. Proposed construction activities are typical of road maintenance and upgrading. All the project activities are on the existing roads and as such no by-passes or land acquisition is needed. Most of the negative impacts are at the construction stage and can easily be mitigated. The environmental impacts are generated from the road maintenance work. Those are the generation of dust, noise, exhausts from automobiles and asphalt batching plants; waste from construction and worker camps, which lead to water contamination and occupational health and safety hazards. Mitigation measures for all these anticipated impacts have been developed and integrated into construction works through incorporation of a standard environmental management plan (EMP) in the bidding documents and provision of road-specific EMPs with the detailed project reports (DPRs). An integrated social and environmental grievance redress mechanism has been developed to counteract complaints from affected parties.

II. Purpose of the Report

5. All the sub-projects under the RCIP, has been categorized as environmental assessment category B (each scheme has some negative impacts but less significant than category (A) and the impacts of the subprojects were assessed through an Initial Environmental Examination (IEE), prepared according to ADB Safeguard Policy (SPS 2009). As part of the project deemed, semi-annual environmental monitoring reports (EMR), which has been prepared in order to report on Contractor's progress with implementing requirements of the Environmental Management Plan (EMP).

6. The purpose of this Semi-annual EMR is to accumulate all the information, encapsulating the results and to assess the overall environmental safeguard status for the period July-December 2024. Accordingly, this report will portray the Contractor's professional effort to comply with the contract agreement, EMP of the IEE and eventually the protection of the environment from the construction effects.

III. Location Map for the project

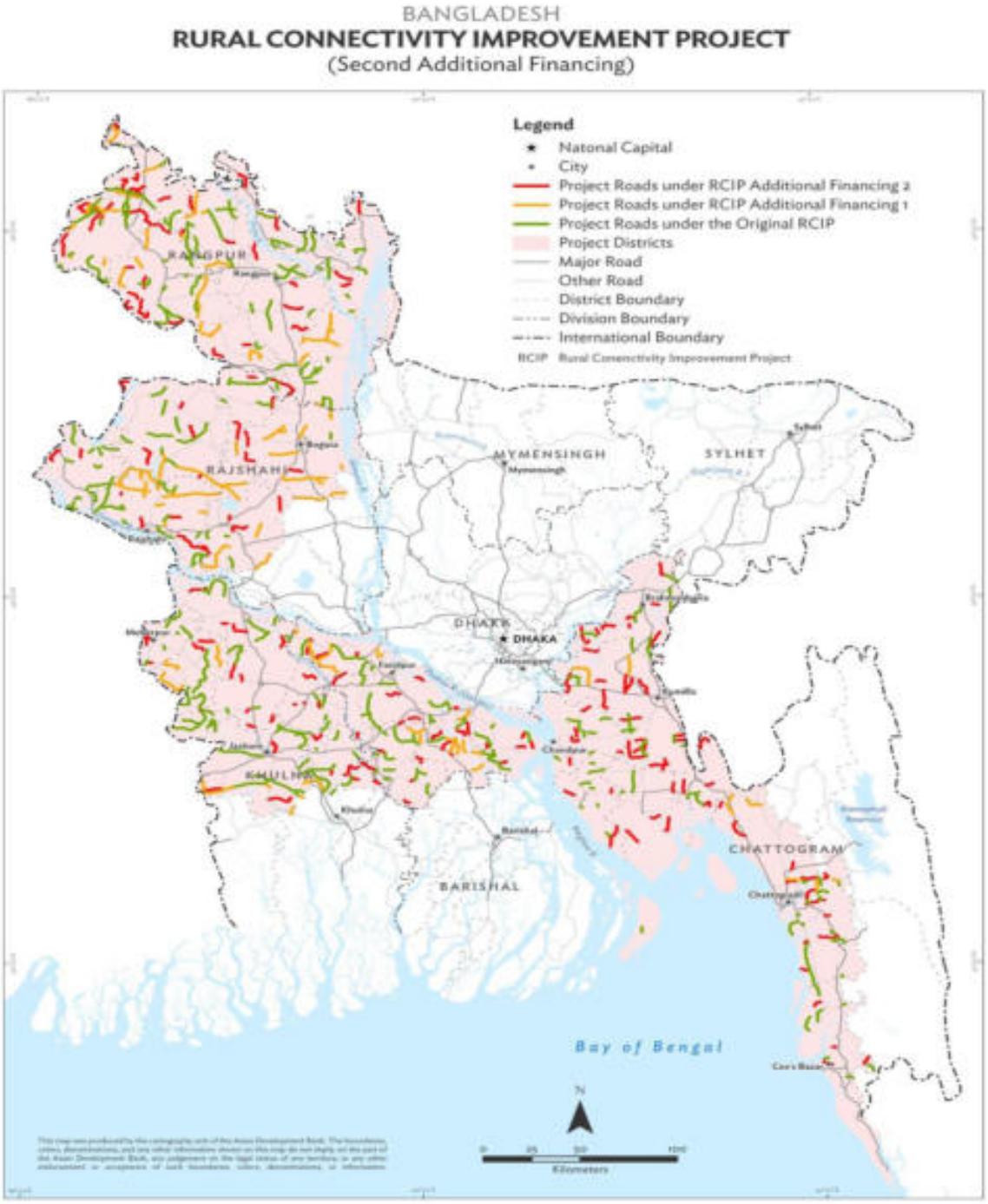


Figure 1: RCIP Project Map

IV. Project Component and Status

7. The main component of this project is Upazila road and Union road. Around 3421 km Upazila road and 684 km Union Road will be improved by this project. The civil work

components that are anticipated to have substantial interaction with the environment includes: Road alignment and design, utility shifting, construction mobilization, and tree cutting and clearing during the pre-construction phase of the rural road upgrading. Most of the adverse impacts are anticipated to occur during construction phase includes: road construction (earthworks, earth filling, sub-grade, aggregate sand sub-base; brick aggregates for base course; earthen shoulder construction in layers and converted to hard shoulder; bituminous surfacing), site management & construction plants operation for WetMix Macadam (WMM). Least environmental impacts are anticipated during operation stage which involves road maintenance and vegetation control.

8. The Asian Development Bank (ADB) approved Loan 3731/3732-BAN: Rural Connectivity Improvement Project (the original project) on 05 November 2018 for an amount of $200.00 million - $100.00 million from ADB's ordinary capital resources (regular loan) and $100.00 million from ADB's ordinary capital resources (concessional loan). The loan agreement was signed on 13 January 2019, and the project became effective on 13 February 2019. In addition, ADB approved the first additional financing project, Loan no.3932-BAN: Rural Connectivity Improvement Project on 11 June 2020 for an amount of $100.00 million from ADB's ordinary capital resources (confessional loan). The loan agreement of the first additional financing loan was signed on 30 June 2020, and it became effective on 10 September 2020. The loans for both the original project and the first additional financing (collectively referred to as the ongoing project) will close on 31 May 2024. The scope of the ongoing project and the proposed Second Additional Financing (AF-2) (overall project) is aligned with the government's priorities under the Eighth Five Year Plan, FY2021–FY2025; ADB's country partnership strategy for Bangladesh, 2021–2025; and ADB's Strategy up to 2030. The Second Additional Financing (AF-2) is designed to contribute regarding various operations priorities of ADB's Strategy 2030. The implementation arrangements will remain unchanged from the ongoing project. The Second Additional Financing (AF-2) will be implemented over 4 years, tentatively from July 2023 to June 2027.

9. There is total 510 nos. of subprojects which have been arranged into 263 nos of packages. Among them 131 packages are under 190M loan, 70 packages are under 200M loan and 62 packages are under 100M loan. Of the combined 132 packages from the 200M and 100M loan, all are completed and final bill paid.

V. ADB Safeguard Policy Statement, 2009

10. The ADB SPS stipulates addressing environmental concerns, if any, of a proposed activity in the initial stages of project preparation. For this, the SPS categorizes proposed components into categories (A, B or C) to determine the level of environmental assessment required to address potential impacts. All three safeguard policies involve a structured process of impact assessment, planning, and mitigation to address the adverse effects of projects throughout the project cycle. The safeguard policies require the following:

- Impacts are identified and assessed early in the project cycle;

- Plans to avoid, minimize, mitigate, or compensate for potential adverse impacts are developed and implemented; and
- Affected people are informed and consulted during project preparation and implementation.

11. According to the safeguard policy statement, 2009 of ADB the project falls under Category B and hence an IEE was sufficient to meet the environmental requirements. An IEE report was prepared by the Consultant engaged by the ADB during appraisal in 2018. However, during the detailed design stage IEE was prepared with the appropriate EMPs being included into the various Bidding Documents. The project is also in conformity with the latest Guideline of ADB i.e. Safeguard Policy Statement 2009. These policies apply to all ADB-financed projects, including private sector operations, and to all project components. The internal procedural requirements are detailed in the Operations manual sections and involve similar implementation processes as follows:

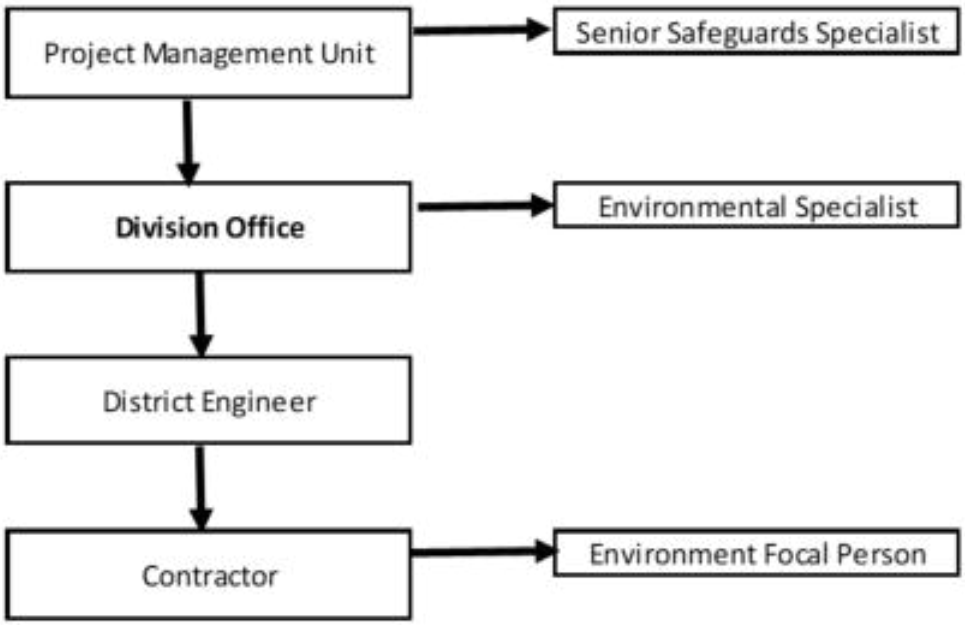
    - Screening and scoping of the main issues start as soon as potential projects for ADB financing are identified and continue throughout the project cycle;
    - Impacts are assessed, safeguard plans summarizing mitigation measures, monitoring program, and institutional arrangements are prepared, and arrangements are made to integrate safeguards into project design and implementation;
    - Affected people are consulted during project preparation and implementation and information is disclosed in a form, manner, and language accessible to them, and
    - Safeguard plans are disclosed to the general public and the information is updated at various stages in the project cycle. ADB's safeguard policies require that ADB's safeguard requirements are complied with.

CHAPTER 2: PROJECT'S ENVIRONMENTAL SAFEGUARDS

I. Institutional Arrangement

12. The Ministry of Local Government, Rural Development and Co-operatives (MOLGRDC) through LGED is the executing agency and responsible for the overall compliance to the ADB SPS 2009 environmental requirements; Government of Bangladesh environmental laws, regulations, and standards; and this EMP.

13. More specifically, the PMU-RCIP is the key institution for the successful implementation of the project and will ensure compliance to ADB safeguards as contemplated in the environmental management and monitoring plans. The responsibilities of various agencies and parties for the implementation of the environmental safeguards are as follows.



14. PMU is the LGED Project Management Unit and responsible for the overall compliance to the ADB's SPS 2009 and the all-applicable laws and rules under the Ministry of Environment and Forest (MoEF). The PMU has been supported by a Senior Safeguard Specialist (SSS) consultant responsible for ensuring the project complies with the social and environmental safeguard requirements of the ADB. The SSS will coordinate with the Division Environment Specialist (D-ES), and 34 District Engineer (PE) to ensure project implementation complies with the PAM and EMP. The PMU-SSS is responsible for:

(i) Ensure compliance to all environment related statutory requirements by the LGED and contractor

(ii) Review and finalize site specific EMPs prepared by the Contactor in consultation with Division Environment Specialist (DES) and district engineers;

(iii) Overall responsible for the timely endorsement and signing of key documents and forwarding to the respective agency required for processing of clearances and permits to include but not limited to: forestry clearance; tree cutting permit; permission for construction material quarrying; consent to operate WMM mix plants, crushers, and batching plants; consent for disposal of sewage from labor camp; and pollution under control for motor vehicles, etc.

(iv) Ensure preparation, submissions, and disclosure of semiannual environmental monitoring reports for disclosure on ADB and LGED websites.

(v) Ensure all contractors obtain permits, licenses etc. for activities such as operation of asphalt plants, quarries, borrow areas etc. before the implementation of the respective construction activity.

(vi) Conduct training and workshops on environmental management to include site induction of all staff and workers involved in the construction. These include all district engineers, and staff and laborers of all contractors.

(vii) Guided by the initial environmental examination approved by the ADB and LGED, design and implement an effective environmental monitoring program. This include but not limited to inspections by the PMU and LGED, self-monitoring by the contractors, inspection protocols for the DES, and Grievance and Redress Mechanism including intake form and documentation

(viii) Taking proactive and timely measures to address any environment safeguards related challenges at the national or province/district levels such as delays in processing of clearances during pre-construction stage and significant grievances (during construction stage)

(ix) Carry out periodic field verification and review environmental compliances by the contractor during project implementation in coordination with the DES and the Contractor's Environment Focal Person (EFC)

(x) Ensure grievance redress mechanism as envisaged in the EMP is in place and finalize preparation disclosure of monitoring reports

15. Each of the PIU will have an Environmental Specialist to support the Additional Chief Engineer and District Engineers in supervising the implementation of the EMP and SSEMP by the contractor through the following:

(i) Guide and review all sub-plans identified in the IEE and EMP to be prepared by the Contactor to include camp layout, waste/debris management plan, borrow area management plan, traffic management plan.

(ii) In coordination with the contractor's EFC and with guidance from the SSS, prepare road-specific EMPs and SSEMPs, guided by the general EMP based on the more detailed survey;

(iii) Conduct environmental site induction training to all contractors and PIUs to ensure understanding of the EMP, domestic environmental laws and regulations requirements particularly on the required clearances and permits, training on occupational and **community health and safety, timely mobilization of the**

Contractor's EFC, and review of sub-plans required in the EMP and advice the District Engineer on their adequacy who in turn will instruct the contractor to make necessary revisions.

(iv) Ensure contractors secure necessary permits and clearances

(v) Ensure the semiannual environmental monitoring report **template are adapted by the contractors in** the preparation of submission of self-monitoring reports

(vi) Review monthly environmental monitoring reports prepared by the Contractor-EFC

(vii) Conduct at least 3 environmental inspections during the construction phase: i) First report at pre construction stage, ii) Second report after three months of start of construction or on completion of 25% construction, and iii) Third report after seven months of start of construction or on completion of 75% of construction.

16. The Contractor is the principal agent to implement the EMP and SSEMP during the pre and during construction stage. Specifically, the contractor will:

(i) Appoint the Contractor's environment focal person (EFP) and attend the site induction workshop to be organized by the DES and SSS,

(ii) A site specific EMP (SSEMP) is to be prepared by the contractor based on the general EMP provided in the IEE by his EFP with the guidance of DES. The contractor shall submit SSEMP for DES and Engineer's endorsement

(iii) Obtain necessary environmental license(s), permits etc. from relevant agencies as specified in the IEE and this project administration manual for associated facilities for Project road works, quarries, wet mix plant etc. prior to commencement of civil works contracts

(iii) As part of detailed survey, collect the baseline data on environmental quality before the start of physical works[18] and continue collection of environmental quality data as given in the Environmental Monitoring Plan during construction and operation

(iv) Revise the EMP and SSEMP, as advised by the DES based on detailed road survey

(v) Implement all mitigation measures in the EMP and activities in the SSEMP

(vi) Ensure that all workers, site agents, including site supervisors and management participate in training sessions delivered by DES and SSS

(vii) During the 2-year construction period, submit monthly environmental self-monitoring reports to the District Engineer and DES with guidance from the DES

(viii) Ensure compliance with environmental statutory requirements and contractual obligations

(ix) Based on the results of EMP monitoring, cooperate with the DES to implement environmental corrective actions and corrective action plans, as necessary.

17. During the period July to December 2024, PMU-RCIP is working together for the implementation of the Environmental safeguard policies with the assistance of the consultant, the divisional Environment Specialists and the contactor's environmental personnel. Field trainings were performed regularly for the workforce of the contractors. In addition to technical aspects, the technical personnel & the common laboreres were taught the health & safety guidelines to curb the spread of corona virus disease. It is believed that a comprehensive training program could change their art of performance. However, the PMU is extending all possible cooperation to all the PEs. The EMP

compliance is being done by the PISC Environmental team, and contractor's environmental focal person.

II. Project Safeguard Team

Name	Designation	E-mail Address	Contact Number
Syed Hosney Jahab	Divisional Environmental Specialist	shjq2012@gmail.com	+8801724-487574
Md. Mustafezur Rahaman Rabby	Divisional Environmental Specialist	mrr.rabby@gmail.com	+88001734-881701

Following table provides summary of the monitoring visits performed by both DES during the reporting period.

Table 1: Summary of the monitoring visits of DES during the reporting period

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
Rajshai, Rangpur and Khulna Division				
Improvement of Nabinagar R&H to Mundunmala GC via Pakri UP. , Ch. 0+000 - 4+850 km = 4+850 km, Upazila: Godagari, District: Rajshahi, (Road ID -181342010)	Rajshahi	Godagari	06.07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Kakonhat to Mundumala (Starting Form Gorgoria Bridge), Ch. 2+476 - 6+885 km = 4.409 km, Upazila: Godagari, District: Rajshahi, (Road ID -181342004)	Rajshahi	Godagari	06. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Chowdala GC- Borgachi GC via Sahapur Road. Ch.0+000 - 5+280 km = 5.280km,, Upazila: Gomostapur, District: C.Nawabganj, (Road ID -170372004)	Chapainawabganj	Gomostapur	07. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Nachole-Rajbari Hat road., Ch.10+390 - 12+610 km = 2.220 km,	Chapainawabganj	Nachole	07. 07.2024	Md. Mustafezur Rahaman Rabby

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
Upazila: Nachole, District: C.Nawabganj, (Road ID -170562002)				
Improvement of Modhuil GC- Goala UP-Nithpur GC (Sapahar Part)., Ch.0+000 - 11+030 km. Effective Length= 11.030 km , Upazila:Shapahar, District: Naogaon, (Road ID -164862003)	Naogaon	Shapahar	10. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Dattapara RHD - Nazirpur GC Via Halsha GC Road (Sadar Part), Ch.0+000 -8+850 km = 8.850 km , Upazila:Natore Sadar, District: Natore., (Road ID -169632001)	Natore	Sadar	12. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Ratal-Biash (Dahia UP) Road., Ch.0+000 - 9+735 km = 9.735 km, , Upazila:Singra, District: Natore. (Road ID -169913004)	Natore	Singra	12. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Nashratpur-Chapapur Road via Bihigram Road, Ch.0+000 - 11+000 km = 11.000 km,, Upazila: Adamdigi, District: Bogra, (Road ID - 110062007), Slaged Amount: 17,55,680.00	Bogura	Adamdighi	12. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Shaharpukur - Gopinathpur Road., Ch.0+500 - 9+500 km = 9.00 km, Upazila: Dhupchancia, District: Bogra, (Road ID - 110332003), Salvaged Amount: 1755680.00	Bogura	Dhupchancia	13. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Jamadarpukur GCM-Garidaha NHW(Shajahanpur Portion) , Ch.0+000 km - 7+100 jn = 7.100 km,	Bogura	Shajahanpur	14. 07.2024	Md. Mustafezur Rahaman Rabby

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
Upazila: Shajahanpur, District: Bogra, (Road ID -110962008)				
Improvement of Akkelpur GC-Adamdighi GC Via Vanurkanda, Kashira (Akk. Portion)., Ch.0+000 - 12+280 km. Effective Length = 12.280 Km Upazila: Akkelpur, District: Joypurhat, (Road ID-38132006)	Joypurhat	Akkelpur	16. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Durgadaha GC - Mongalbari RHD via Haripur Ghat Nengapir Road., Ch.5+990 - 10+980 km = 4.990 km, Upazila: Joypurhat - S, District: Joypurhat, (Road ID -138472009)	Joypurhat	Sadar	16. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Berakhai RHD(at Telepukur) -Dhaperhat-Kamdia GC(Panchbibi Part), Ch.0+000 - 8+450 km 8.450 km, , Upazila: Panchbibi, District: Joypurhat, (Road ID - 138742009)	Joypurhat	Panchbibi	17. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Punot (RHD)-Bottoli-Moslemgonj GC Road., Ch.0+000 km - 7+380 km , Upazila: Kalai, District: Joypurhat, (Road ID -138582007)	Joypurhat	Kalai	17. 07.2024	Md. Mustafezur Rahaman Rabby
Improvement of Kashipur Bazar (R&H)-Baliadanga GC, ch.0+000 - 2+800 km = 2.800 km Upazila: Kaliganj, District: Jhenaidah, .(Road ID - 244332002)	Jhenaidah	Kaliganj	27.08. 2024	Md. Mustafezur Rahaman Rabby

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
Improvement of Gazir Bazar GC-Dighar Para Bazar RHD Road., ch.1+290 - 7+00 km = 5.710 km, Upazila: Kaliganj, District: Jhenaidah, (Road ID - 244332011)	Jhenaidah	Kaliganj	27. 08. 2024	Md. Mustafezur Rahaman Rabby
Improvement of Shorojgonj GC (Mahmudpur)-Charpara GC (Porahati) road via bazar gopalpur, Halidhani, Shakaridah & Daribinni., ch.18+930 - 20+354 km & 20+425 - 24+000 km = 5.000 km Upazila: Jhenaida - Sadar, District: Jhenaidah, (Road ID - 244192012)	Jhenaidah	Sadar	28. 08. 2024	Md. Mustafezur Rahaman Rabby
Improvement of Hamidpur Bazar RHD-Hashimpur GC Via Talbaria Road., Ch.0+000 - 9+140 km = 9.140 km Upazila: Sadar, District: Jashore, (Road ID -241472008)	Jashore	Sadar	29. 08. 2024	Md. Mustafezur Rahaman Rabby
Improvement of Keshabpur-Katakhali, Nehalpur Road., ch.0+000 - 15+000 km = 15.000, Upazila: Keshabpur, District: Jashore, (Road ID - 241382002)	Jashore	Keshabpur	30. 08. 2024	Md. Mustafezur Rahaman Rabby
Improvement of Jogania Hat-Chapoil Ghat Rd., Ch.0+000 - 4+400 Km = 4.400 Km , Upazila: Kalia, District:Narail, (Road ID -265282006)	Narail	Kalia	01.09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Kalia Public Library - Jogania GC Road., Ch.0+000 - 5+500 = 5.500 km, Upazila: Kalia, District:Narail, (Road ID -265282001)	Narail	Kalia	01. 09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Maizpara-Uttara sing Road., Ch.0+000 -	Narail	Sadar	02. 09.2024	Md. Mustafezur Rahaman Rabby

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
4+900 km = 4.900 km, Upazila: Narail - Sadar, District:Narail, (Road ID -265762008)				
Improvement of Maizpara GC-Via Gorerhat-Bonogati GC road (Narail-s portion) Road., Ch.0+000 - 3+400 km = 3.400 km, Upazila: Narail - Sadar, District:Narail, (Road ID -265762009)	Narail	Sadar	02. 09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Jaigirhat R&H to Pirgacha(Gopalganj ghat) via Balarhat (Mithpukur Part), ch.1+500 km - 11+935 km = 10+440 km , Upazila:Mithpukur, District: Rangpur, (Road ID- 185582006)	Rangpur	Mithpukur	23. 09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Barodarga GC-Nabdigonj RHD Road, ch.0+000 km - 5+462 km = 5+462 km, Upazila:Pirgacha, District: Rangpur, (Road ID- 185732012)	Rangpur	Pirgacha	23. 09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Betgari GC-Kachua GC Via Sairabarihat Road, Ch.1+500 - 11+935 km = 10.440, Upazila: Gangachara, District: Rangpur, (Road ID-185272004)	Rangpur	Gangachara	24. 09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Sanerhat GC-Rahmatpur GC (Bairagirhat) , Ch: 0+000-12+560 km. = 12.560 km, Upazila:Pirganj, District: Rangpur, (Road (Road ID- 185762008)	Rangpur	Pirganj	25. 09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Kurigram Horikesh more RHD-Karthalbari	Kurigram	Sadar	26. 09.2024	Md. Mustafezur Rahaman Rabby

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
GC via Holokhana UPC Road, ch.0+000 km - 9+800 km,, Upazila: Kurigram-S, District: Kurigram, (Road ID 149522007)				
Improvement of Bhurungamari Bazar-Dhaldanga bazar Road., Ch.0+00-8+850Km = 8.850 km, Upazila: Bhurungamari, District: Kurigram, (Road ID-149062003)	Kurigram	Bhurungamari	27. 09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Domar GC-Chilahati GC via Muktirhat road., Ch: 0+000 to 12+000 Km., Upazila: Domar, District:Nilphamari, (Road ID- 173152002)	Nilphamari	Domar	29. 09.2024	Md. Mustafezur Rahaman Rabby
Improvement of Panchagarh - Atwari RHD road at Fakierer hat to Magura UP road via Shipaipara High School road., Ch.0+000 - 7+500 km = 7.500 km, Upazila:Panchagarh - Sadar, District:Panchagarh, (Road ID- 177733024)	panchagarh	Sadar	10. 10.2024	Md. Mustafezur Rahaman Rabby
Improvement of Mirjapur R&H (Busstand hat) - Kismat hat GC via Baroaulia hat Road., ch.0+000 - 10+735 km = 10.735 km, Upazila:Atwari, District:Panchagarh, (Road ID- 177042009)	panchagarh	Atwari	11. 10.2024	Md. Mustafezur Rahaman Rabby
Improvement of Bhulli GC-Farabari G.C Road. Ch.0+000 km - 8+650 km = 8.650, Upazila:Thakurgaon - S, District: Thakurgaon, (Road ID-194942014)	Thakurgaon	Sadar	12. 10.2024	Md. Mustafezur Rahaman Rabby
Improvement of Molani hat (RHD)-Ramnath GC Road via Akhanagar UP Office., Ch.0+000 - 12+320 km = 12.350 km, Upazila:Thakurgaon	Thakurgaon	Sadar	12. 10.2024	Md. Mustafezur Rahaman Rabby

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
- Sadar, District: Thakurgaon, (Road ID-194942018)				
Improvement of Lahiri G.C-Harinmari G.C. via Pariahat Road , Ch.0+000 - 9+500 km = 9.500 km, Upazila:Baliadangi, District: Thakurgaon, (Road ID-194082003)	Thakurgaon	Baliadangi	13. 10.2024	Md. Mustafezur Rahaman Rabby
Improvement of Kalia Public Library - Jogania GC Road., Ch.0+000 - 5+500 = 5.500 km, Upazila: Kalia, District:Narail, (Road ID -265282001)	Narail	Kalia	27. 10.2024	Md. Mustafezur Rahaman Rabby
Improvement of Jagla R&H - Beroil Polita GC via Borosoli Ghat, Solai School, Batke baria bazar, Amuria bazar, Bluegram Rd., ch.0+000 - 9+550 km = 9.550 km, Upazila: Magura - Sadar, District:Magura, (Road ID- 255572013)	Magura	Sadar	17.11.2024	Md. Mustafezur Rahaman Rabby
Improvement of Radhanagar G.C-Kashtapur RHD via Nakol bazar Road. , ch. 0+000 - 5+550 km = 5.550 km., Upazila:Sreepur, District:Magura, (Road ID -255952001)	Magura	Sreepur	18. 11.2024	Md. Mustafezur Rahaman Rabby
Improvement of Kamalpur-Thakurainhat-Mohonpur Rd., ch.0+000 - 9.650 km = 9.650 , Upazila:Dinajpur Sadar, District: Dinajpur, (Road ID -127642011)	Dinajpur	Sadar	27.11.2024	Md. Mustafezur Rahaman Rabby
Improvement of Dhirganj GC-Dormogar R&H Road via Amgaon,Gadura (Haripur Portion). , Ch.0+000 - 14+868 Km = 14.868 km, Upazila:Haripur	Thakurgaon	Haripur	28.11.2024	Md. Mustafezur Rahaman Rabby

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
District: Thakurgaon, (Road ID-194512004)				
Improvement of Rajshahi Court RHD - Darusha GC Road., Ch.2+653 - 8+333 km = 5.680 Km, , Upazila: Paba, District: Rajshahi, (Road ID - 181722001)	Rajshahi	Paba	10.12.2024	Md. Mustafezur Rahaman Rabby
Improvement of Shinga GC (Gourkhai)-Goganbaria R&H Road via Amgram., Ch.0+000 - 7+490 Km = 7.490 Km, , Upazila:Durgapur, District: Rajshahi, (Road ID -181312014)	Rajshahi	Durgapur	10.12.2024	Md. Mustafezur Rahaman Rabby
Chattogram & Dhaka Division				
Improvement of Debidwar GC to Dulalpur GC via. Abdullapur Road.(Debidwar Portion), Ch.0+000 - 4+964 km & Ch.7+401 - 10+513 km = 7.980 km Upazila: Debidwar, District: Comilla, (Road ID419402008)	Cumilla	Debidwar	9.07.2024	Syed Hosney Jahab
Improvement of Rajabazar-Alkara Road (Shah Fakruddin Road), Ch.0+00 - 12+200 km Effective Length= 12.2 km, Upazila: Chouddagram, District: Comilla, (Road ID419312002)	Cumilla	Chouddagram	10.07.2024	Syed Hosney Jahab
Improvement of Jalom South UP - Chitoshi Maulana Bazar Road. Via Lalchandpur, Rajapur Bazar, Ch.0+000 - 6+550 km = 6.550 km, Upazila: Monohorganj, District: Cumilla, (Road ID-419903005)	Cumilla	Monohargan j	11.07.2024	Syed Hosney Jahab
Improvement of	Brahmanbar	Sadar	27.08.2024	Syed Hosney Jahab

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
Bancharampur H/Q-Morichakandi GC via Dariadaulat UP & Kadamtali , Ch.0+000 - 10+400 km = 10.400 km, Upazila: Bancharampur, District: Brahmanbaria, (Road ID-412042003)	ia			
Improvement of Bancharampur GC-Ujanchar GC Road via Dariarchar Bazar, ch.0+000 - 9+710 km, , Upazila: Bancharampur, District: B. Baria, (Road ID412042002)	Brahmanbaria	Bancharampur	28.08.2024	Syed Hosney Jahab
Improvement of Shymarram R&H-Sreeghar Bazar G.C-Marichakandi G.C road., Upazila: Nabinagar, District: B. Baria, (Road ID412852001)	Brahmanbaria	Nabinagar	29.08.2024	Syed Hosney Jahab
Improvement of Kamarkhali GC-Jamalpur GC Road via Norkona (Starting from Toll office), Ch.0+000 - 12.200 Km = 11.960 Km, Upazila: Modhukhali, District: Faridpur (Road ID 329562011).	Faridpur	Modhukhali	9.09.2024	Syed Hosney Jahab
Improvement of Kamlapur RHD-Chandhat GC Road, ch.0+000 - 3+800 = 3.777 km, Upazila: Muksudpur, District: Gopalgonj, (Road ID 335582005).	Gopalganj	Muksudpur	10.09.2024	Syed Hosney Jahab
Improvement of Chandradigholia RHD - Borodia GC (Sadar Part) via Ghenashur GC , Ch.0+000 - 11+600 km = 11.600km, Upazila: Gopalgonj-S, District: Gopalgonj, (Road ID 335322004)	Gopalganj	Sadar	11.09.2024	Syed Hosney Jahab

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
Improvement of Kajulia UP-Polshair Bazar Bazar Road., Ch.0+000 - 2+625 km = 2.625 km Upazila: Kotwalipara, District: Gopalgonj, (Road ID 335513011)	Gopalganj	Kotwalipara	12.09.2024	Syed Hosney Jahab
Improvement of Dumuria UP Office-Tungipara HQ , Ch.0+000 - 3+100 km = 3.100 km, Upazila:Tungipara, District: Gopalgonj, (Road ID 335913005)	Gopalganj	Tungipara	12.09.2024	Syed Hosney Jahab
Improvement of Kadambari GC-Hizalbari-Tatul Bari-KaliGonj GC (Rajoir part), ch.0+000 - 7+370 km = 7.370 km, Upazila: Rajoir, District: Madaripur, (Road ID 3354802008)	Madaripur	Rajoir	17.09.2024	Syed Hosney Jahab
Improvement of Mithapur Puran Bazar to Registered School , ch.0+000 - 9+460 km = Effective Length: 9.255 km, Upazila: Madaripur-Sadar, District: Madaripur, (Road ID 354543018).	Madaripur	Sadar	18.09.2024	Syed Hosney Jahab
Improvement of Balarhat GC - Shakhipur GC road via Mazi Kandi road., Ch.0+000 - 5+600 km.= 5.600 km, Upazila:Bhedargonj, District:Shariatpur, (Road ID - 386142006)	Shariatpur	Bhedarganj	19.09.2024	Syed Hosney Jahab
Improvement of Bhedarganj -Kashimpur via D.M khali UP office Road., Ch.0+000 - 5+490 km = 5.490 km, Upazila:Bhedargonj, District:Shariatpur, (Road ID - 386143024)	Shariatpur	Bhedarganj	19.09.2024	Syed Hosney Jahab
Improvement of Kallayanpur R&H(Natun rasta)-	Rajbari	Sadar	21.10.24	Syed Hosney Jahab

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
Kutirhat GC via rampur GPS Road., ch.0+000 - 3.600 = 3.600 ,Upazila:Sadar, District: Rajbari, (Road ID 382762012)				
Improvement of Charati-Khoderhat-Moulavir Dokan-Bazalia-Bomang Hat-Noya hat Road (From RHD #129), Ch.0+000 - 10+802 km = 10.802 km, Upazila:Satkania, District: Chattagram, (Road ID-415822010,)	Chattogram	Satkania	27.10.24	Syed Hosney Jahab
Improvement of Ali Ahmed Commissioner Road (From RHD #145) (Shakpura Murgir Firm-Nurullah Munshir Hat), Ch.0+000 - 10+300 km = 10.300 km, Upazila:Boalkhali, District: Chattagram, (Road ID-415122004)	Chattogram	Boalkhali	28.10.24	Syed Hosney Jahab
Improvement of Badarkhali – Paschim Bara Bheola – Demoshia – Konakhali – Bagguzara Road., Ch.6+250 - 11+550 Km. = 5.300 km Upazila: Chakaria, District: Cox'sbazar, (Road ID-422162004)	Cox'sBazar	Chakaria	3.11.24	Syed Hosney Jahab
Improvement of Naikhangchari Hazipara BDR Camp Road. Upazila: Ramu, District: Cox's Bazar, Ch.2+000 - 7+200 km = 5.200 km (Road ID-422243010).	Cox'sBazar	Ramu	4.11.24	Syed Hosney Jahab
Improvement of Parashuram-Subar bazar-Montola-Fulgazi Bazar Road , Upazila:Porshuram, District: Feni, (Road ID-430512001)	Feni	Parshuram	17.11.24	Syed Hosney Jahab
Improvement of Silonia-Laskarhat road, ch.0+000 - 5+564 km ,Upazila:Feni -Sadar,	Feni	Sadar	18.11.24	Syed Hosney Jahab

Name of the subproject	District	Upazila	Date of monitoring	Monitored by
District: Feni, (Road ID-430292010) Salvaged: 45,56,609.00				
Improvement of Nuria Hazirhat-Nura Patwaryhat Road., Ch.0+000 - 11+420 km = 11.420 km, Upazila:Ramgoti, District: Laxmipur, (Road ID-451732005)	Laxmipur	Ramgati	1.12.24	Syed Hosney Jahab
Improvement of Seberhat-Koresmunshi GC Road, ch.0+000 - 6+800 km, Upazila: Senbag, District: Noakhali, (Road ID-475802009)	Senbag	Noakhali	2.12.2024	Syed Hosney Jahab

CHAPTER 3: SUBPROJECT/PACKAGE DESCRIPTIONS

I. Scope of Works

18. The present report is the twelfth semi-annual Environmental Monitoring Report and is covering the period from July to December, 2024. The report reviewed the compliances of environmental activities set up in the EMP. This will be processed & practiced. An innovation process will lead it to an improved and sustainable one in the future. The scope of works includes identification of environmental impacts during construction stage and implementation of environmental mitigation measures for various environmental components as given in technical specification in the contract. In addition, the supervision consultant has to undertake specific environmental safeguard measures during the execution of work.

19. The project specific scope of work is the improvement, rehabilitation and maintenance of the Upazila and Union roads. It will cover earthwork, subgrade, base and sub-base preparation, pavement works, construction of culverts, protective works and miscellaneous items that include road furniture and pavement markings, guard rails, guide post, directional arrow markings, kilometer post and traffic control etc.

II. Implementation Progress

20. The reporting period was part dry season and part rainy season in Bangladesh. Most of the subprojects are nearing completion.

Table 2: Summary of contracted project packages under 200M Loan (as of December 2024)

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-01	Rajbari	Sadar	06-Jun-19	19-Mar-22	100%
CW-02	Chuadanga	Sadar, Jibannagar	21-Nov-19	20-Nov-21	100%
CW-03(a)	Rajshahi	Godagari	29-Oct-20	10-Feb-23	100%
CW-03(b)	Rajshahi	Godagari	01-Jun-20	31-Jan-23	100%
CW-03(c)	Rajshahi	Godagari	10-Nov-20	06-June-23	100%
CW-05	Laxmipur	Ramgonj, Sadar, Raipur &Ramgati	29-Sep-19	30-May-22	100%
CW-06	Gopalgonj	Maksudpur,Kasiani,Sadar, Tungipara, Kotalipara	02-Sep-19	01-Sep-21	Contract terminated on April 20, 2022
CW-07	Faridpur	Boalmary,Sadar, Bhanga,Sadarpur, Madhukhali	04-Jan-23	05-July-24	100%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-08	Madaripur	Rajoir	13-Oct-19	01-Sep-23	100%
CW-09(a)	Cumilla	Choddogram	14-Mar-21	21-July-22	100%
CW-09(b)	Cumilla	Barua, Monohorgonj&Laksham	19-Apr-21	09-Mar-24	100%
CW-10(a1)	Chandpur	Faridganj	12-Apr-20	30-Dec-23	100%
CW-10(a2)	Chandpur	Haimchor	01-Apr-20	16-Jul-22	100%
CW-10(a3)	Chandpur	Matlab South	12-Apr-20	30-May-22	100%
CW-10(b1)	Chandpur	Haziganj&Shahrasti	23-Aug-20	30-Mar-24	100%
CW-10(b2)	Chandpur	Kachua	12-Apr-20	30-Mar-24	100%
CW-11(a)	Chattagram	Boalkhali&Chandanaish	16-Jul-20	01-Jun-23	100%
CW-11(b)	Chattagram	Anwara&Patiya	17-Dec-20	30-Dec-23	100%
CW-12	Jashore	Monirampur	02-Sep-19	25-Jan-22	100%
CW-13(a)	Kushtia	Khoksha	19-Apr-20	23-Feb-23	100%
CW-13(b)	Kushtia	Sadar&Kumarkhali	30-Dec-19	26-Jan-25	100%
CW-13(c)	Kushtia	Bheramara&Daulatpur	30-Jun-20	22- Mar-23	100%
CW-14	Naogaon	Mohadevpur&Patnitala	10-Nov-19	02-Mar-22	100%
CW-15	Natore	Bagatipara&Singra	16-Dec-19	27-Feb-23	100%
CW-16	Bogura	Dhunot, Sherpur & Shariakandi	28-Dec-19	30-Dec-22	100%
CW-17(a)	Gaibandha	Gobindogonj&Saghata	19-Nov-19	30-Nov-23	100%
CW-17(b)	Gaibandha	Saghata&Palashbari	03-Nov-19	30-Nov-23	100%
CW-18(a)	Rangpur	Mithapukur	14-Nov-19	14-May-21	100%
CW-18(b)	Rangpur	Pirganj&Pirgacha	17-Nov-19	17-Aug-21	100%
CW-18(c)	Rangpur	Badargonj&Gangachara	02-Dec-19	23-Jun-21	100%
CW-19(a)	Thakurgaon	Sadar&Baliadangi	21-Apr-20	30-Oct-23	100%
CW-19(b)	Thakurgaon	Baliadangi	19-Mar-20	15-Jul-23	100%
CW-20	Nilphamari	Sadar, Jaldhaka&Dimla	07-Dec-19	17-Oct-22	100%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-21	Jashore	Chowgacha, Sadar&Jhikorgacha	02-Sep-19	30-Nov-21	100%
CW-22	Shariatpur	Sadar,Bhedaganj, Goshairhat, Damuddya	09-Oct-19	08-Jul-22	100%
CW-23	B.Baria	Kasba&Bijoynagar	25-Aug-19	30-Jun-22	100%
CW-24(b)	Cox's Bazar	Pekua and Chokoria	17-March-21	28-Dec-22	100%
CW-24(c)	Cox's Bazar	Ramu	05-May-20	28-Feb-23	100%
CW-25(a)	Noakhali	Senbag	05-Oct-20	07-Jun-22	100%
CW-25(b)	Noakhali	SonaimuriBegumgonj	12-Apr-20	30-Jun-23	100%
CW-25(c)	Noakhali	Hatiya	25-Nov-19	20-Dec-22	100%
CW-26(a)	Feni	Sonagazi	16-Aug-20	28-Nov-23	100%
CW-26(b)	Feni	Parashuram &Dagonbhuiyan	10-Feb-20	25-Dec-22	100%
CW-27	Jhenaidah	Kotchandpur, Mohespur, Kaliganj, Sadar&Harinakunda	20-Oct-19	30-May-22	100%
CW-28(a)	Magura	Mohammadpur	11-Nov-19	15-Oct-22	100%
CW-28(b)	Magura	Sadar& Shalika	11-Nov-19	29-Mar-24	100%
CW-28(c)	Magura	Shalika	29-Mar-20	26-May-22	100%
CW-29	Meherpur	Gangni, Sadar, Mujibnagar	21-May-19	20-Feb-21	100%
CW-30	Narail	Kalia, Sadar&Logagara	03-Jan-20	30-Oct-22	100%
CW-31.b	Rajshahi	Charghat&Puthia	28-Jan-20	30-Oct-22	100%
CW-32(a)	Chapai Nawabgonj	Gomastapur	22-Mar-20	30-Sep-21	100%
CW-32(b)	Chapai Nawabgonj	Sadar&Nachole	22-Mar-20	30-Nov-22	100%
CW-33	Joypurhat	Panchbibi, Akkalpur, Sadar, Khetlal&Kalai	05-Sep-19	17-Jan-23	100%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-34	Lalmonirhat	Hatibandha, Kaligonj&Aditmari	01-Oct-19	17-Nov-22	100%
CW-35(a)	Kurigram	Fulbari, Bhurungamari&Nageswari	20-Oct-19	30-Apr-22	100%
CW-35(b)	Kurigram	Rajarhat &Sadar	20-Oct-19	30-Jun-22	100%
CW-35(c)	Kurigram	Rowmari	20-Oct-19	20-Jan-23	100%
CW-36	Dinajpur	Chirirbander&Khanshama	03-Dec-20	03-Dec-23	100%
CW-37	Panchagarh	Debiganj	27-Oct-19	20-Feb-22	100%
CW-61(a)	B.Baria	Bancharampur	02-Dec-19	31-Dec-23	100%
CW-61(b)	B.Baria	Nabinagar	11-Nov-19	17-Nov-23	100%

Table 3: Summary of contracted project packages under 100M Loan (As of December 2024)

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-38.a	Gopalgonj	Kasiani	17-Dec-20	17-Jun-22	100%
CW-38.b	Gopalgonj	Muksudpur	4-Mar-21	10-Jul-22	100%
CW-39.a	Madaripur	Madaripur-S	15-Sep-20	16-Mar-22	100%
CW-39.b	Madaripur	Madaripur-S	15-Sep-20	16-Mar-22	100%
CW-39.c	Madaripur	Madaripur-S kakini	15-Sep-20	16-Mar-22	100%
CW-39.d	Madaripur	Kalkini	15-Sep-20	16-Mar-22	100%
CW-39.e	Madaripur	Shibchar	21-Oct-20	21-Apr-22	100%
CW-40.a	Rajbari	Baliakandi	30-Sep-20	30-April-22	100%
CW-40.b	Rajbari	Goalanda	17-Aug-20	15-Feb-22	100%
CW-40.c	Rajbari	Kalukhali Pangsha	30-Sep-20	31-Mar-22	100%
CW-41.a	Cumilla	Titas and Debidwar	01-Jun-21	02-Feb-23	100%
CW-41.b	Cumilla	Debidwar	09-Sep-20	08-Mar-22	100%
CW-41.c	Cumilla	Titas	25-Nov-20	24-Feb-22	95%
CW-43.a	Jashore	Monirampur	20-Sep-20	19-Mar-22	100%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-43.c	Jashore	Abhynagor	18-Apr-21	10-Oct-22	100%
CW-44.a	Jashore	Jhikorgacha	20-Sep-20	19-Mar-22	100%
CW-44.b	Jashore	Sarsha Bagherpara	30-Aug-20	25-Mar-22	100%
CW-44.c	Jashore	Bagherpara	28-Sep-20	27-Mar-22	100%
CW-44.d	Jashore	Monirampur &Keshobpur	02-Jun-21	30-Nov-22	100%
CW-45.a	Chuadanga	Almdanga	14-Feb-21	15-Aug-22	100%
CW-45.b	Chuadanga	Damurhoda	14-Feb-21	15Aug-22	100%
CW-45.c	Chuadanga	Damurhoda	14-Feb-21	15-Aug-22	100%
CW-46(a)	Rajshahi	Tanore Paba	03-Aug-20	24-May-22	100%
CW-46(b)	Rajshahi	Tanore	23-Sep-20	07-Jul-22	100%
CW-46(c)	Rajshahi	Tanore	30-Aug-20	16-Jun-22	100%
CW-47.a	Rajshahi	Tanore Mohonpur	30-Aug-20	16-Jun-22	100%
CW-47.b	Rajshahi	Bagmara	01-Sep-20	12-Dec-22	100%
CW-48.b	Naogaon	Niamatpur	05-Oct-20	28-Feb-22	100%
CW-48 c	Naogaon	Manda	01-Sep-21	28-Feb-23	100%
CW-48 d	Naogaon	Atrai	07-Sep-22	06-Sep-23	100%
CW-48.e	Naogaon	Atrai	11-Sep-20	06-Aug-22	100%
CW-49.a	Natore	Baraigram	20-Oct-20	31-Jul-22	100%
CW-49.b	Natore	Gurudaspur	31-Aug-20	03-Mar-22	100%
CW-49.c	Natore	Lalpur	20-Oct-20	20-Apr-22	100%
CW-50.a	Bogura	Shajahanpur	15-Sep-20	04-July-22	100%
CW-50.b	Bogura	Sonatola Bogura-S	15-Sep-20	15-Mar-22	100%
CW-50.c	Bogura	Adamdighi	15-Sep-20	26-May-22	100%
CW-50.d	Bogura	Kahaloo	15-Sep-20	15-Mar-22	100%
CW-51.a	Gaibandha	Sadullapur	30-Aug-20	17-Jun-22	100%
CW-51.b	Gaibandha	Sadar Sundarganj	21-Jul-20	10-Mar-22	100%
CW-52.a	Dinajpur	Phulbari Parpatipur	18-Aug-20	27-Jun-22	100%
CW-52.b	Dinajpur	Phulbari	10-Nov-20	21-Aug-22	100%
CW-52.c	Dinajpur	Nawabgonj	19-Aug-20	05-Mar-22	100%
Cw-52.d	Dinajpur	Parbatipur	13-Sep-21	12-Mar-23	100%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-53.a	Dinajpur	Birgonj	08-Aug-21	03-Mar-23	100%
CW-53.b	Dinajpur	Kaharol	15-Sep-21	14-Mar-23	100%
CW-53.c	Dinajpur	Bochagonj	19-Aug-20	23-Jun-22	100%
CW-54.a	Thakurgaon	Baliadangi	21-Jul-20	23-Jun-22	100%
CW-54.b	Thakurgaon	Haripur	01-Aug-21	22-Dec-23	100%
CW-54.c	Thakurgaon	Thakurgaon-S	21-Jul-20	05-Jun-22	100%
CW-54.d	Thakurgaon	Pirganj Ranisankai	29-Sep-21	22-Feb-23	100%
CW-55.a	Panchagarh	Atwari	02-Sep-20	01-Jun-22	100%
CW-55.b	Panchagarh	Tetulia Panchagarh-S	02-Sep-20	01-Jun-22	100%
CW-56.a	Nilphamari	Domar	20-Jul-21	19-Jan-23	Terminated
CW-56.b	Nilphamari	Nilphamari-S	03-Aug-20	25-May-22	100%
CW-56.c	Nilphamari	Sayadpur	12-Dec-22	06-Aug-23	100%

Table 4: Summary of contracted project packages under 190M Loan
(As of December 2024)

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-182/RCIP/RJS	Rajshahi	Godagari	01/11/2023	30/04/2025	87%
CW-183/RCIP/RJS	Rajshahi	Bagha	03/03/2024	21/02/2026	27%
CW-184/RCIP/RJS	Rajshahi	Charghat	10/10/2024	09/04/2026	4%
CW-185/RCIP/RJS	Rajshahi	Durgapur & Paba	03/03/2024	21/02/2026	30%
CW-171/RCIP/CNWB	Chapai Nawabgonj	Sadar & Shibganj	18/03/2024	03/08/2025	20%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-172/RCIP/CNWB	Chapai Nawabgonj	Gomostapur & Nachole	06/12/2023	05/06/2025	52%
CW-176/RCIP/NAO	Naogaon	Atrai	28/03/2024	27/09/2025	12%
CW-177/RCIP/NAO	Naogaon	Niamatpur	10/04/2024	09/10/2025	23%
CW-178/RCIP/NAO	Naogaon	Mohadevpur & Patnitala	28/03/2024	27/03/2026	6%
CW-179/RCIP/NAO	Naogaon	Shapahar	03/04/2024	02/10/2025	33%
CW-180/RCIP/NTR	Natore	Sadar	18/09/2023	11/03/2025	58%
CW-181/RCIP/NTR	Natore	Sadar & Singra	27/02/2024	17/02/2026	18%
CW-169/RCIP/BGR	Bogura	Adamdigi	03/03/2024	25/08/2024	20%
CW-170/RCIP/BGR	Bogura	Dhupchancia & Shajahanpur	03/03/2024	25/08/2024	60%
CW-173/RCIP/JOY	Joypurhat	Akkelpur	10/06/2024	09/12/2025	10%
CW-174/RCIP/JOY	Joypurhat	Sadar & Panchbibi	07/04/2024	18/08/2025	10%
CW-175/RCIP/JOY	Joypurhat	Kalai	03/06/2024	02/12/2025	5%
CW-205/RCIP/RNG	Rangpur	Mithpukur & Pirgacha	04/02/2024	22/12/2024	55%
CW-206/RCIP/RNG	Rangpur	Gangachara	25/02/2024	17/02/2026	35%
CW-207/RCIP/RNG	Rangpur	Pirganj	29/01/2024	28/02/2025	55%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-192/RCIP/GBD	Gaibandha	Gobindaganj	03/01/2024	22/04/2025	10%
CW-35(d)/RCIP/KUR	Kurigram	Sadar	01/01/2024	30/06/2025	36%
CW-193/RCIP/KUR	Kurigram	Bhurungamari	01/01/2024	30/06/2025	40%
CW-194/RCIP/KUR	Kurigram	Ulipur	25/04/2024	24/10/2025	25%
CW-195/RCIP/KUR	Kurigram	Rajarhat	01/08/2024	30/01/2026	5%
CW-196/RCIP/LAL	Lalmonirhat	Hatibandha	01/05/2024	30/03/2025	7%
CW-197/RCIP/LAL	Lalmonirhat	Patgram	27/02/2024	26/02/2026	46%
CW-186/RCIP/DNJ	Dinajpur	Sadar	14/10/2024	13/04/2026	0%
CW-187/RCIP/DNJ	Dinajpur	Birampur & Nawabgonj	21/08/2024	20/02/2026	0%
CW-188/RCIP/DNJ	Dinajpur	Birganj	31/07/2024	30/01/2026	0%
CW-189/RCIP/DNJ	Dinajpur	Bochaganj	14/07/2024	13/01/2026	0%
CW-190/RCIP/DNJ	Dinajpur	Birol	07/07/2024	06/07/2026	0%
CW-191/RCIP/DNJ	Dinajpur	Birol	29/08/2024	29/08/2024	0%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-198/RCIP/NIL	Nilphamari	Domar	30/01/2024	23/07/2025	69%
CW-199/RCIP/NIL	Nilphamari	Sadar & Kishoreganj	30/01/2024	23/07/2025	5%
CW-200/RCIP/PAN	Panchagarh	Sadar	12/02/2024	26/12/2024	0%
CW-201/RCIP/PAN	Panchagarh	Atwari	27/02/2024	03/04/2025	22%
CW-202/RCIP/PAN	Panchagarh	Atwari	09/04/2024	26/2/25	12%
CW-203/RCIP/PAN	Panchagarh	Tetulia	31/03/2024	12/02/2025	8%
CW-204/RCIP/PAN	Panchagarh	Debganj & Boda	28/04/2024	14/09/2025	3%
CW-208/RCIP/TKG	Thakurgaon	Sadar	07/01/2024	03/07/2025	30%
CW-209/RCIP/TKG	Thakurgaon	Sadar	07/03/2024	29/08/2025	35%
CW-210/RCIP/TKG	Thakurgaon	Sadar	13/02/2024	06/08/2025	30%
CW-211/RCIP/TKG		Haripur	08/04/2024	28/04/2026	20%
CW-212/RCIP/TKG	Thakurgaon	Baliadangi	22/04/2024	12/04/2026	33%
CW-213/RCIP/TKG	Thakurgaon	Baliadangi	11/04/2024	02/11/2025	20%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
CW-214/RCIP/TKG	Thakurgaon	Baliadangi	11/03/2024	11/03/2026	40%
CW-166/RCIP/NRL	Narail	Kalia	05/03/2024	31/12/2025	6%
CW-167/RCIP/NRL	Narail	Kalia	28/04/2024	10/03/2026	21%
CW-168/RCIP/NRL	Narail	Sadar	28/04/2024	10/03/2026	14%
CW-155/RCIP/JSR	Jashore	Sharsha	31/03/2024	31/03/2026	17%
CW-156/RCIP/JSR	Jashore	Sadar	29/04/2024	21/10/2025	60%
CW-157/RCIP/JSR	Jashore	Keshabpur	31/01/2024	24/07/2025	38%
CW-158/RCIP/JHN	Jhenaidah	Horinakundo & Sadar	10/03/2024	09/03/2026	12%
CW-159/RCIP/JHN	Jhenaidah	Kaliganj	23/01/2024	22/06/2025	12%
CW-163/RCIP/MGR	Magura	Sadar	14/10/2024	14/10/2024	0%
CW-164/RCIP/MGR	Magura	Sreepur & Sadar	05/02/2024	28/07/2025	43%
CW-160/RCIP/KST	Kushtia	Daulatpur & Mirpur	18/03/2024	11/08/2025	9%
CW-161/RCIP/KST	Kushtia	Sadar			
CW-162/RCIP/KS	Kushtia	Khoksha	24/04/2024	08/09/2025	10%

Package No	District	Upazila	Date of Commencement	Scheduled Contract Completion Date	Physical Progress (%)
T					
CW-152/RCIP/CHU	Chuadanga	Damurhuda & Jibannagar	29/09/2024	01/04/2026	7%
CW-153/RCIP/CHU	Chuadanga	Alamdanga	02/04/2024	02/04/2026	20%
CW-154/RCIP/CHU	Chuadanga	Alamdanga	16/01/2024	19/07/2025	20%
CW-165/RCIP/MHR	Meherpur	Sadar & Mujibnagar	25/02/2024	18/08/2025	8%

CW 133	Faridpur	Saltha & Nagarkanda	3-Mar, 24	14-Feb, 24	32%
CW 134	Faridpur	Modhukhali	11-Apr, 24	26-Feb, 26	10%
CW 135	Faridpur	Bhanga	28-Jan, 24	01-Jan, 25	35%
CW 136	Faridpur	Bhadrasan	29-Apr, 24	30-Nov, 25	5%
CW 137	Faridpur	Alfadanga	30-Jan, 24	29-Jul, 25	60%
CW 138	Gopalganj	Sadar	13-Nov, 23	10-Sep, 25	42%
CW 139	Gopalganj	Kashiani	12-Nov, 23	11-May, 25	26%
CW 140	Gopalganj	Kotwalipara & Tungipara	11-Jan, 24	30-Apr, 25	4%
CW 141	Gopalganj	Muksudpur	9-Jan, 24	30-Jun, 25	14%
CW 147	Rajbari	Kalukhali & Sadar	14-Mar, 24	14-Sep, 25	0%
CW 148	Rajbari	Pangsha	-	-	-
CW 142	Madaripur	Shibchar	-	-	-
CW 144	Madaripur	Shibchar & Sadar	15-Apr, 24	21-Apr, 26	0%
CW 145	Madaripur	Rajoir	-	-	-
CW 146	Madaripur	Rajoir	-	-	-
CW 149	Shariatpur	Bhedarganj	29-Nov, 23	22-May, 25	75%
CW 150	Shariatpur	Sadar	-	-	-
CW 151	Shariatpur	Sadar	-	-	-
CW 100	Chattogram	Rangunia	-	-	-
CW 101	Chattogram	Satkania	27-Feb, 24	23-Aug, 25	-
CW 102	Chattogram	Boalkhali	20-Feb, 24	16-Aug, 25	5%

CW 103	Chattogram	Patiya & Karnafuli	20-Aug, 24	19-Mar, 26	18%
CW 104	Chattogram	Raojan	18-Jul, 24	15-Sep, 26	15%
CW 105	Chattogram	Mirsharai	23-Jan, 24	18-Aug, 25	47%
CW 106	Chattogram	Bashkhali	01-Apr, 24	30-Apr, 26	30%
CW 107	Chattogram	Chandanaish	07-Mar, 24	10-Oct, 25	42%
CW 108	Chattogram	Hathajari	22-Feb, 24	27-Sep, 25	42%
CW 109	Chattogram	Mirsharai	14-Sep, 23	10-Apr, 25	76%
CW-110	Cox's Bazar	Ramu	23-Apr, 24	22-Nov, 25	30%
CW-111	Cox's Bazar	Ramu	23-Apr, 24	22-Nov, 25	30%
CW-112	Cox's Bazar	Sadar	25-Jun, 24	17-Jan, 26	24%
CW-41(d)/RCIP/CUM	Cumilla	Debidwar	16-Jan, 24	15-Jul, 25	55%
CW-41(e)/RCIP/CUM	Cumilla	Chouddagram	27-Mar, 24	24-Sep, 25	43%
CW-113/RCIP/CUM	Cumilla	Monohorganj	16-Jan, 24	15-Jul, 25	55%
CW-114/RCIP/CUM	Cumilla		22-Oct, 23	08-May, 25	71%
CW-115/RCIP/CUM	Cumilla	Nangolkot	01-Jul, 24	24-Jun, 26	18%
CW-116/RCIP/CUM	Cumilla	Chandina	11-Jun, 24	25-Nov, 25	20%
CW-117/RCIP/CUM	Cumilla	Daudkandi	07-May, 24	09-Jun, 26	24%
CW-118/RCIP/CUM	Cumilla	Homna & Muradnagar	07-Mar, 24	15-Mar, 26	35%
CW-119/RCIP/CUM	Cumilla	Barura	27-Mar, 24	24-Aug, 25	45%
CW-120/RCIP/CUM	Cumilla	Bunirchang	-	-	0%
CW-121/RCIP/CUM	Cumilla	Debidwar	04-Mar, 24	09-Oct, 25	43%
CW-122/RCIP/C	Cumilla	Debidwar	04-Mar, 24	09-Oct, 25	43%

UM					
CW-123/RCIP/CUM	Cumilla	Monohorganj & Laksham	03-Jun, 24	18-Dec, 25	30%
CW-124/RCIP/CUM	Cumilla	Chouddagram	27-May, 24	29-Oct, 25	31%
CW-61(c)/RCIP/BBR	Brahmanbaria	Nabinagar	05-Feb, 24	05-Aug, 25	54%
CW-61(d)/RCIP/BBR	Brahmanbaria	Bancharampur	13-Feb, 24	13-Aug, 25	53%
CW-91/RCIP/BBR	Brahmanbaria	Sadar	04-Dec, 23	23-Jun, 25	63%
CW-92/RCIP/BBR	Brahmanbaria	Bancharampur	20-Mar, 24	08-Apr, 26	32%
CW-93/RCIP/BBR	Brahmanbaria	Nabinagar	28-Apr, 24	25-May, 26	26%
CW-94/RCIP/BBR	Brahmanbaria	Nabinagar	22-Nov, 23	28-May, 25	67%
CW-95/RCIP/BBR	Brahmanbaria	Kasba & Akhaura	06-Jun, 24	06-Jul, 26	20%
CW-96/RCIP/BR	Brahmanbaria	Nasirnagar & Bijoynagar	08-Nov, 23	28-May, 25	67%
CW-97/RCIP/CDP	Chandpur	Kachua & Shahrasti	25-Jan, 24	26-Aug, 25	51%
CW-98/RCIP/CDP	Chandpur	Sadar	28-Feb, 24	30-Sep, 25	44%
CW-99/RCIP/CDP	Chandpur	Hazigonj & Faridganj	13-May, 24	18-Jun, 26	23%
CW-130/RCIP/NOA	Noakhali	Kabirhat	28-Apr, 24	30-Apr, 26	27%
CW-131/RCIP/NOA	Noakhali	Senbag	24-Jun, 24	07-Dec, 25	25%
CW-132/RCIP/NOA	Noakhali	Suborna	27-Apr, 24	19-Nov, 25	35%

CW-26(c)/ RCIP/FNI.	Feni	Sadar	13-Jun, 24	04-May, 26	24%
CW-26(d)/ RCIP/FNI.	Feni	Sadar	11-Jun, 24	30-Apr, 26	29%
CW-125/RCIP/FNI	Feni	Daganbhuiyan	14-Feb, 24	20-Oct, 25	45%
CW-126/RCIP/FNI	Feni	Porshuram	15-Feb, 24	20-Aug, 25	51%
CW-127/RCIP/FNI	Feni	Sonagazi	22-Feb, 24	19-Jul, 25	54%
CW-128/RCIP/LAX	Laxmipur	Sadar	01-Oct, 24	03-Jun, 26	5%
CW-129/RCIP/LAX	Laxmipur	Ramgoti	06-May, 24	31-Mar, 26	23%

CHAPTER 4: STATUTORY ENVIRONMENTAL REQUIREMENTS

III. Compliance Status with Environmental Loan

21. The covenants to the loan agreement with ADB require that the subprojects are designed, constructed, operated, and maintained in accordance with Borrower Environmental Conservation Rule 2023, ADB Safeguard Policy Statements (2009) as agreed between the Borrower and ADB. Covenants written into the loan agreement related to environmental safeguards are listed in Table 04, and the status of compliance is described in the table.

Table 5: Loan covenants related to environmental safeguards

Reference in the Loan/Grant Agreement	Covenants	Action Taken	Status of Compliance
Schedule-4. Environment Article 3 (a, b)	The Borrower shall ensure that LGED does not award any Works or No consulting Services contracts which involves environmental impacts until: the Department of Environment has granted the final approval of the IEE; and (a) (b) the Borrower has incorporated the relevant provisions from the EMP into the Works contract.	Physical works have been started only after issuance environment clearance from DOE and EMP is included in all the Works	Compliant

		contract.	
Schedule-4. Environment Article 8.	The Borrower shall ensure or cause LGED to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the IEE, the EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	Project activities meet all-applicable laws and regulations of Bangladesh and environmental safeguard requirements of the ADB, all measures and requirements set forth in the IEE are being duly implemented.	Partially Compliant
Schedule-4. Environment Article 9.	Tribes, Minor Races, Ethnic Sects and Communities Safeguards impacts. If the Project does have any such impacts, the Borrower shall take all steps required to ensure that the Project complies with the applicable laws and regulations of the Borrower and with the SPS. Human and Financial Resources to Implement Safeguards Requirements	To date such types of impacts are not recorded. Project is very aware of the issue and ready to adopt appropriate measures as per the national laws and regulations and ADB safeguard policy.	Compliant
Schedule-4. Environment Article 10.	The Borrower shall make available or cause LGED to make available necessary budgetary and human resources to fully implement the EMP.	Budget for implementing the EMP is included as integral part of each contract agreement. The project employed a	Compliant

		dedicated safeguard team to implement the EMP.	
Schedule-4. Environment Article 11.	**Safeguards-Related Provisions in Bidding Documents and Works Contracts** The Borrower shall ensure or cause LGED to ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (a) comply with the measures relevant to the contractor set forth in the IEE and the EMP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report; (b) make available a budget for all such environmental and social measures; provide the Borrower with a written notice of any unanticipated environmental risks or impacts that were not considered in the IEE or the EMP or any resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project; (c) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction	Mandatory safeguards related provisions in bidding documents and works contracts have been incorporated. Works have been awarded only after the contractor agreed with the provision made for safeguards.	Compliant
Schedule-4. Environment Article 12.	**Safeguards Monitoring and Reporting :** The Borrower shall cause LGED to do the following: Submit semiannual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission; (a) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE and the EMP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (b) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP promptly after becoming aware	Semiannual Safeguards Monitoring Reports are being submitted to the ADB timely in line with the Schedule-4. Environment Article 12.	Compliant
	Labor Standards, Health and Safety: The Borrower shall ensure or cause LGED to ensure that the core standards and the Borrower's applicable laws and regulations are complied	Labor standard is being maintained in each package	Compliant

	with during Project implementation. The Borrower shall ensure that LGED includes specific provisions in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among other things: (a) comply with the Borrower's applicable labor law and regulations and incorporate applicable workplace occupational safety norms; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; (e) allow freedom of association and effectively recognize the right to collective bargaining; and (f) disseminate, or engage appropriate service providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project area, particularly women.	adopting the GOB labor act 2006 and ADB safeguards policy. Proper health and safety measures are being maintained as per the EMP.	

IV. Compliance Status with Respect to the Applicable Standards

22. The Government of Bangladesh has provided various laws and regulation for the protection and conservation of natural environment as it pertains to road development. However, a limited environmental laws and regulations are specifically applicable to rural roads upgrading where the existing roads are outside environmentally protected areas including forest land, construction activities confined within the existing formation width and existing alignment, and with no or minor land acquisition limited on curves and junctions to comply with road safety standards which characterizes the proposed roads under RCIP. These legislations and its applicability to the project are summarized in the in Table below.

Table 6: National/state/local environmental statutory environmental requirements

Statutory Environmental Requirements	Title of National/State Policy	Issuing Office	Responsible Agency	Action Taken	Status of Compliance
Requires all new construction and road improvement projects to obtain an Environmental Clearance	Bangladesh Environmental Conservation Act, 1995 (ECA, 1995) and Environment Conservation Rules 2023	Department Of Environment	Ministry of Environment and Forest	The environmental clearance certificate (ECC) from the Department of Environment has been	Compliant

Statutory Environmental Requirements	Title of National/State Policy	Issuing Office	Responsible Agency	Action Taken	Status of Compliance
(EC)	(ECR, 2023) and amendment years for ECA (2000, 2002 and 2010).			obtained during the project preparation and it was renewed up to 26 May 2025.	
Prevent Water Pollution	Water Pollution Control Ordinance 1970	Department Of Environment	Ministry of Water Resources	Periodical water tests are being carried out by the Contractors as described in the project EMP	Compliant
Acquiring land and immovable property	The Acquisition and Requisition of Immovable Property Act 2017 (ARIPA)	Upazila Land Office	Ministry of land	No land acquisition needed yet for the project as all the roads are existing road. However, safeguards teams follow these issues prior to designing each scheme.	Compliant
Road Safety, Air Pollution Noise Pollution	• Vehicle Act 1927 & Motor vehicle ordinance 1983 • Air Pollution Control	BRTA	Ministry of Communication	Air quality and noise level is being monitored regularly as needed and road safety is measured	Compliant

Statutory Environmental Requirements	Title of National/State Policy	Issuing Office	Responsible Agency	Action Taken	Status of Compliance
	Rules, 2022 • Noise Pollution (Control) Rules, 2006			as per SSEMP. A road safety training manual is being followed.	
Tree Cutting	Forest Act 1927	District Forest Office	Ministry of Environment and Forest	Impact of terrestrial flora in the RCIP road is being monitored regularly. Especially for the case of tree cutting.	Compliant
Occupational Health and Safety	Bangladesh Labour Law, 2006 and National Occupational Health and Safety Policy, 2013	Department of Labour	Ministry of Labor	Informal training on the OHS are being carried out in the fields for providing orientation regarding the workplace health hazards and its mitigation measures to workers and field level officials	Compliant

Statutory Environmental Requirements	Title of National/State Policy	Issuing Office	Responsible Agency	Action Taken	Status of Compliance
Prevent pollution from Brick kiln	The Brick Burning (Control) Act, 1989 The Brick Burning (Control) Amendment Act, 1992 and 2001	Department Of Environment	Ministry of Environment and Forest	Project proponent and consultants encourage the contractors to use environment friendly auto brick kiln.	Compliant

23. Besides, No Objection Certificate (NOC) was collected for each of the schemes from the respected Union Parishad Chairman during the public consultation held at the time of Project Design Advance. The monitoring program will include regular monitoring of construction activities for their compliance with the environmental requirements as per relevant laws, policies and regulations, standards, specifications and EMP. During construction, environmental monitoring will ensure the protection of side slopes, and embankment from potential soil erosion, borrow pits restoration, quarry activities, material storages, concrete and asphalt plants, preservation of religiously sensitive locations, community relations, and safety provisions.

V. Compliance Status with Terms and Conditions for ECC

Table 7: Compliance Status of terms and conditions in the ECC given by DoE

Sl. No.	Regulation and Requirement	Action Taken	Responsibility	Status of Compliance	Time Frame for Corrective Action Plan
1	Limit condition for discharge to Air and Water: The ECC must comply with Schedule 2 and 10, rule 12 of ECR, 97	In order to protect the air and water quality in the subproject area, site specific measures have been suggested and are being implemented by the contractors	Contractor	Compliant	N/A
2	Noise limit: The project must	Noise level is being monitored regularly as	Contractor	Partially	Most of the noise level

	comply with Noise pollution(Control) Rules, 2006	specified and noise pollution control measures are being implemented as suggested in the EMP		Compliant	deviation from the standards are very minor and due to local cuases. Minor noise level increase due to construction activities at a select location are temporary and generally dissipate soon after construction activites are complete.
3	Activities must be carried out in a competent manner. This includes	Bricks are collected mostly from the environment friendly auto brick kiln. Solid wastes such as brick refuse, metal refuse, wooden refuse and cement bags are mostly reused or recycled. There are barely any liquid waste	Contractor	Compliant	N/A
4	The processing, handling, movement and storage of materials and substances used to carry out the activity; and				N/A
5	The Treatment, Storage, Processing, Transport and Disposal of wastes generated by the				N/A

	activity.				
6	All plant and equipment installed at the premises or used in connection with the Environmental Clearance Activity;	All plant and equipment installed at the premises or used is operated in a proper and efficient manner	Contractor	Compliant	N/A
7	Must be maintained in a proper and efficient manner.				N/A
8	Must be operated in a proper and efficient manner.				N/A
9	Construction works shall be restricted to day time hours so as to avoid/mitigate the disturbance of local lives as well as implementation schedules of the works shall be notified in advance to nearby residents.	Construction works is restricted to day time hours so as to avoid/mitigate the disturbance of local lives.	Contractor	Compliant	N/A
10	Storage area for soils and other construction materials shall be carefully selected to avoid disturbance of the drainage	Soils and other construction materials are stored 500 m away from drainage area		Compliant	N/A
11	This shall be ensured that soil is	As all the roads are existing roads no tree is	Contractor	Partially Compliant	After completion

	obtained from nearby areas, which are free of invasive plants. Re-vegetation and replanting shall be undertaken if rehabilitation works involve extensive vegetation clearance.	found on the alignment to be cut except two packages.			of construction work.
12	Vegetation clearance shall be minimizing at the construction phase as to minimize soil erosion. Soils for embankments shall be properly compacted to ensure stability.	As all the roads are existing roads no tree is found on the alignment to be cut except two packages.	Contractor	Compliant	
13	Proper construction practices shall be followed that minimize loss of habitats and fish breeding, feeding & nursery sites.	No huge work involved in this project and proper construction practices is followed that minimize loss of habitats and fish breeding, feeding & nursery sites.	Contractor	Compliant	
14	Proper and adequate sanitation facilities shall be ensured in labor camps throughout the proposed project period	Proper and adequate sanitation facility is ensured in labor camps throughout the proposed project period	Contractor	Compliant	

15	In order to control noise pollution, vehicle & equipment shall be maintained regularly; working during sensitive hours and locating machinery close to sensitive receptor shall be avoided.	Maintenance works found satisfactory. All the machinery locations avoid the sensitive hours and receptor.	Contractor	Compliant	
16	No solid waste can be burnt in the project area. An environment friendly solid waste management should be in place during whole the period of the project in the field	As no huge work involve in this project, small amount of solid waste generate and will not burn in project area and proper solid waste management will be applied in the field	Contractor	Compliant	
17	Proper and adequate on-site precautionary measures shall be ensured so that no habitat of any flora and fauna would be demolished or destructed	Proper and adequate on-site precautionary measures is ensured so that no habitat of any flora and fauna is demolished	Contractor	Compliant	
18	All the required mitigation measures suggested in the Environmental Management Plan included in IEE are to be strictly implemented and kept functioning on	All the required mitigation measures suggested in the Environmental Management Plan included in IEE is implemented strictly	Contractor	Compliant	

	a continuous basis				
19	Any heritage sight, ecological area and other environmentally and/or religious sensitive places shall be avoided during project construction phase.	As all the roads are existing road so no heritage sight, ecological area and other environmentally and/or religious sensitive places are hampered.	Contractor	Compliant	
20	Resettlement plan should be properly implemented and people should be adequately compensated, where necessary	No land acquisition needed for the project. As all the roads are existing road.	Contractor	Compliant	
21	Construction material should be properly disposed of after the construction work is over.	Construction material will be properly disposed of after the construction work is over	Contractor	Complied	
22	The Environmental Management Plan included in IEE shall strictly be implemented and keep on a continuous basis	The Environmental Management Plan included in IEE will strictly be implemented and keep on a continuous basis	Contractor	Compliant	
23	The results of any monitoring required to be conducted by this clearance certificate must be recorded.	Air, Noise and Water quality is regularly being monitored. Results of monitoring in different packages are attached in annex.	Contractor	Complied	
24	The following				

	records must be kept in respect of any samples required to be collected for the purposes of this clearance certificate:				
25	The date(s) on which the sample was taken;				
26	The time(s) at which the sample was collected;				
27	The point at which the sample was taken; and				
28	The name of the person who collected the sample.				
29	Requirement to monitor concentration of pollutants discharged: For each monitoring, the clearance certificate holder must monitor (by sampling and obtaining results by	Air, Noise and Water quality is regularly being monitored. Results of monitoring in different packages are attached in annex.	Contractor	Compliant	

	analysis) the following parameters: air quality, water quality and Noise.				
30	Reporting Conditions: Environmental monitoring reports shall be made available simultaneously to Headquarters, Dhaka and respective divisional office of the Department of Environment on a quarterly basis during the whole period of the project.	Environmental monitoring reports are made available simultaneously to Headquarters, Dhaka and respective divisional office of the Department of Environment on a quarterly basis during the whole period of the project.	Contractor	Compliant	
31	Notification of environmental harm: The clearance certificate holder or its employee must notify the Department of Environment of incidents causing or threating material harm to the environment as soon as practicable after the person becomes aware of the incident.	No incidents causing or threating material harm to the environment is found	Contractor	Compliant	
32	Recording of	No objection found from		Compliant	

	pollution complaints: The certificate holder must keep a legible record of all complaints made to the certificate holder or any employee or agent of the certificate holder in relation to pollution arising from any activity to which this Environmental certificate applies. The record must include details of the following:	local people. The Authority will welcome the complaint letter issued from the individuals. The Authority will address the complaints through Grievance Redress Committee. The Authority will take immediate action against any delay or adverse effect.	Grievance Redress committee and PMU		
33	The date and time of the compliant;				
34	The method by which the complaint was made;				
35	Any personal details of the complaint which were provided by the complaint or, if no such details were provided, a note to that effect;				

36	The nature of the complaint;				
37	The action taken by certificate holder in relation to the complaint, including any follow-up contact with the complainant; and				
38	If no action was taken by the certificate holder, the reasons why no action was taken. The record of a complainant must be kept for at least 4 years after the complaint was made. The record must be produced to any authorized officer of the DoE who asks to see them.				

24. This section provides the compliance status of terms and condition addressed in the ECC given by the Department of Environment (DoE).

CHAPTER 5: ENVIRONMENTAL QUALITY MONITORING

I. Ambient Air Quality:

a. Methodology

25. A total of 176 samples of air quality data were collected at 41 Upazilas of 19 Districts locations within the proposed project alignment during the reporting period.

26. The air quality monitoring locations were selected based on the locations of settlements and receptors within the study area and as per guidance in the specification provided in the environmental BOQ. Logistical factors such as consent of villagers/community, mainly the house owners, power connection, accessibility, security, presence of sensitive environmental and social components and wind direction etc. were also taken into account in finalizing the monitoring stations. The key air quality parameters were monitored (PM2.5, PM10, SOx, NOx, CO, Pb, CO2). PM10 monitoring is accomplished with Respirable Dust Sampler. While PM2.5 is monitored using Fine Particulate Sampler. The sampling process was done as per rules specified in 'Air Pollution Control Rules 2022 (APCR 2022)'. Methods adopted for analyzing the air quality monitoring are as follows.

Table 7: Methodology for Analyzing Ambient Air Quality

SL#	Parameter	Analysis Procedure
1	PM_{10}	Gravimetric method
2	$PM_{2.5}$	Gravimetric method
3	SOx	West Geake
4	NOx	Jacob and Hochheiser
5	CO_2	Gas Monitor
6	CO	Multi-gas Meter
7	Pb	Multi-gas Meter

27. **Gravimetric:** Particulate matter monitoring is accomplished with Respirable Dust sampler, which is a vacuum type device that draws air with particulate matter through a filter paper. Particles within the range of 100 to 0.1 microns diameter are ordinarily collected on glass fiber filter. The instrument sucks the ambient air with a blower at a flow rate that allows suspended particles to pass to the filter surface. This sampling filter paper is dried up in the laboratory and the weight difference is the amount of PM10 or PM2.5, content measured in micro grams per cubic meter of air collected over a period of 24 hours as per rules specified in 'Air Pollution Control Rules 2022 (APCR 2022)'.

28. **Principle of West Geake Method:** This method is based on the absorption and stabilization of SO2 from air by a solution of Sodium tetrachloromercurate II to form the dichlorosulfitomercurate II complex. Quantitative determination is accomplished by adding acid bleached parasonaline HCI and formaldehyde to the sulfite complex and measuring the color intensity by a UV Spectrophotometer.

29. **Principle of Jacobs-Hochheiser Method:** Ambient NO2 is collected by bubbling Air through a solution of Sodium Hydroxide and Sodium Arsenite. The concentration of Nitrite ion produce during sampling is determined calorimetrically by reacting the Nitrite ion with Hydrogen Peroxide, Sulphanilamide, NEDA (N-(1-Naphthyl) Ethylenediamine di-hydrochloride) and measuring the Absorbance of highly colored azo dye at 540 nm.

Figure 2: Air Quality, Noise Quality and Water Quality sampling at selected locations of RCIP

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<td>Collection of Air Quality Sample (Pre-construction stage), Ramu Upazila of Cox'sBazar</td>
<td>Collection of Air Quality Sample (During-Construction stage) Ulipur Upazila of Kurigram</td>
</tr>
</table>

	
Collection of Air Quality Sample(Post-construction stage), Alfadanga Upazila of Faridpur	Collection of Air Quality Sample (During-Construction stage) Sapahar Upazila of Naogaon
	
At Pre-Construction stage, daytime noise sampling at Baliadangi Upazila of Thakurgaon under Package No. CW-213/RCIP/TKG	At Pre-Construction stage, Night time noise sampling at Baliadangi Upazila of Thakurgaon under Package No. CW-213/RCIP/TKG
	
Water Sampling at post-construction stage at Alfadanga, Faridpur	Ground Water Sampling Post-Construction phase at GodagariUpazila of Rajshahi

30. Sampling point coordinates of the environmental monitoring during July to December, 2024 have been shown in the following map:

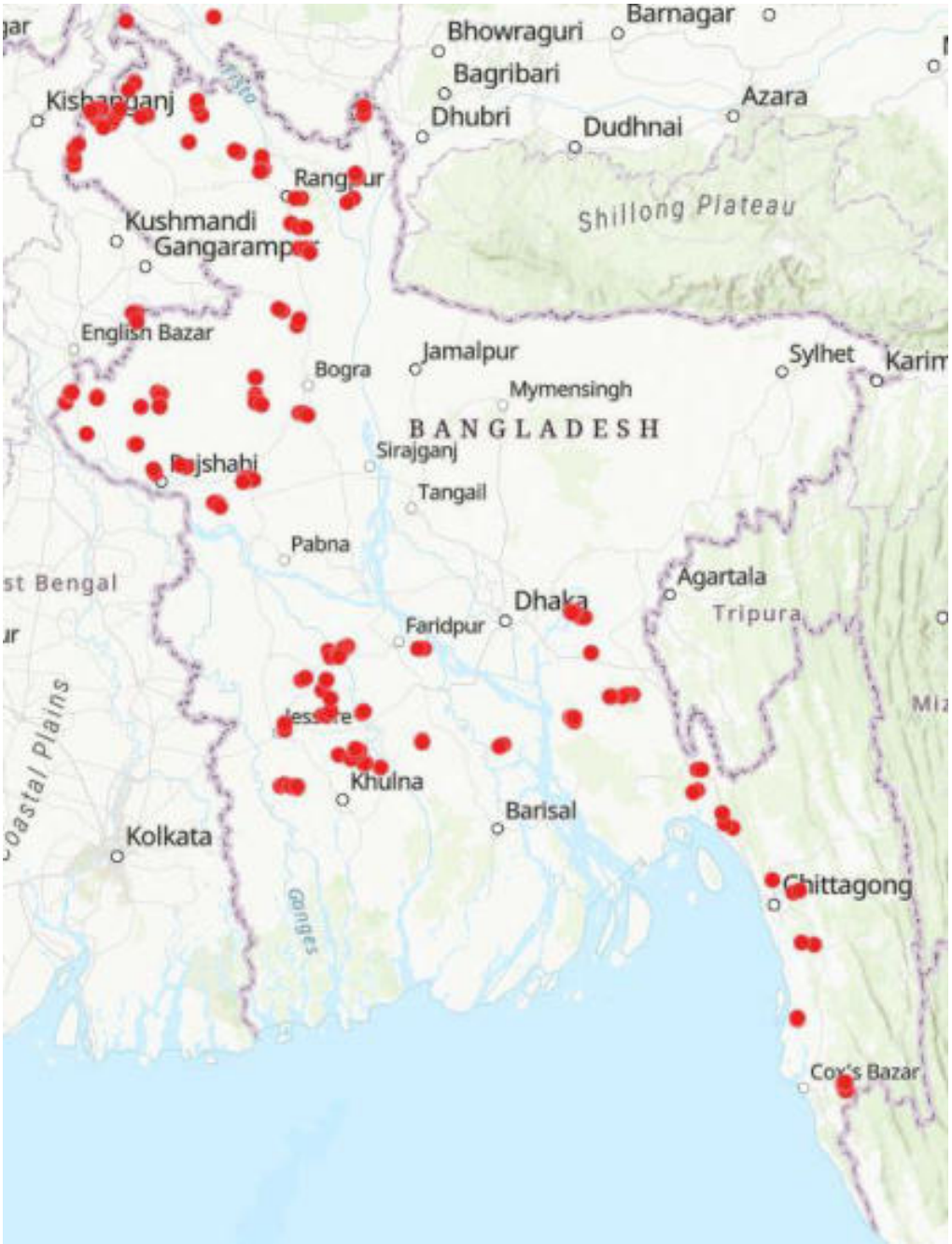

Figure 3: Map showing sampling point coordinates of environmental monitoring during July-December, 2024

Table 8: Ambient Air Quality Parameters in Project Influence Area

Latitude	Longitude	Upazila	District	$PM_{2.5}$	PM_{10}	SPM	SO_2	NO_x	CO	O_3	P_b
				µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	ppm	µg/m³	µg/m³
Pre-Construction Phase (0% Work Progress)											
N 24.27776921	E 88.89649546	Bagha	Rajshahi	27	64	108	6.3	12.5	0.69	7.1	BDL
N 24.26942203	E 88.89777141	Bagha	Rajshahi	18	51	94	5.9	9.2	0.46	6.3	BDL
N 24.27639223	E 88.87869695	Bagha	Rajshahi	33	69	132	6.7	9.4	0.71	5.6	BDL
N 24.25569841	E 88.91217479	Bagha	Rajshahi	36	71	134	6.8	9.7	0.82	5.3	BDL
N 24.4199458	E 88.56738524	Paba	Rajshahi	31	67	114	5.3	12.6	0.69	8.2	BDL
N 24.43633327	E 88.56171271	Paba	Rajshahi	26	58	107	5.3	11.9	0.82	6.4	BDL
N 24.44923423	E 88.73675362	Durgapur	Rajshahi	34	41	102	6.9	11.3	0.29	8.7	BDL
N 24.45342841	E 88.7072236	Durgapur	Rajshahi	28	44	109	6.2	9.3	0.75	8.1	BDL

N 24.607842	E 88.204440	Sadar	C. Nawabganj	26	57	102	5.8	9.1	0.36	8.4	BDL
N 24.753620	E 88.104627	Shibganj	C. Nawabganj	29	62	118	7.9	12.8	0.57	9.1	BDL
N 24.792478	E 88.117087	Shibganj	C. Nawabganj	27	56	99	6.3	10.4	0.4	8.2	BDL
N 24.809292	E 88.118419	Shibganj	C. Nawabganj	33	67	125	9.4	14.7	0.59	9.8	BDL
N 24.802675	E 88.130498	Shibganj	C. Nawabganj	30	61	108	8.7	11.9	0.43	7.4	BDL
N 24.80672047	E 88.58392254	Niamatpur	Naogaon	38	69	121	5.6	11.2	0.61	9.1	BDL
N 24.80044999	E 88.60429776	Niamatpur	Naogaon	24	51	98	5.1	8.3	0.46	7.2	BDL
N 24.78480398	E 88.59904879	Niamatpur	Naogaon	39	63	127	8.9	12.7	0.72	10.5	BDL
N 24.75106317	E 88.5888396	Niamatpur	Naogaon	27	58	106	6.3	8.4	0.92	7.4	BDL
N 24.73855507	E 88.59022782	Niamatpur	Naogaon	19	61	117	6.2	9.4	0.81	8.3	BDL

N 25.185183	E 88.470900	Shapahar	Naogaon	29	57	108	7.4	12.2	0.46	8.9	BDL
N 25.182055	E 88.446971	Shapahar	Naogaon	25	54	105	6.3	10.8	0.32	7.1	BDL
N 25.142660	E 88.468579	Shapahar	Naogaon	31	63	124	7.8	10.5	0.46	6.2	BDL
N 24.4009014	E 89.044049	Sadar	Natore	26	57	98	6.1	9.5	0.39	8.3	BDL
N 24.394927	E 89.061315	Sadar	Natore	35	69	128	9.7	14.6	0.64	9.2	BDL
N 24.389561	E 89.089676	Sadar	Natore	25	52	93	6.4	10.6	0.34	7.7	BDL
N 24.381995	E 89.029551	Sadar	Natore	28	54	101	7.4	11.8	0.49	8.5	BDL
N 24.795842	E 89.098948	Adamdighi	Bogura	34	61	118	5.3	10.7	0.5	8.2	BDL
N 24.780332	E 89.093969	Adamdighi	Bogura	28	57	96	4.9	9.1	0.38	7.3	BDL
N 24.758635	E 89.096864	Adamdighi	Bogura	39	68	131	7.6	13.4	0.68	9.2	BDL

N 24.750650	E 89.127107	Adamdighi	Bogura	25	52	94	4.3	8.8	0.29	6.1	BDL
N 24.872150	E 89.103791	Dhupchachia	Bogura	31	56	99	6.5	8.2	0.51	8.3	BDL
N 24.878508	E 89.103802	Dhupchachia	Bogura	27	51	104	7.2	7.9	0.37	10.4	BDL
N 24.708265	E 89.324429	Shajahanpur	Bogura	30	63	121	6.9	8.6	0.62	9.4	BDL
N 24.704718	E 89.349302	Shajahanpur	Bogura	24	49	91	5.3	7.2	0.32	7.5	BDL
N 24.699183	E 89.377536	Shajahanpur	Bogura	28	64	127	11.9	16.5	0.59	11.6	BDL
25°09'08.7"N	89°19'28.7"E	Gobindaganj	Gaibandha	29	57	108	6.1	9.2	0.37	9.7	BDL
25°11'56.2"N	89°14'34.1"E	Gobindaganj	Gaibandha	27	53	99	5.6	7.9	0.34	8.5	BDL
25°12'13.3"N	89°13'26.6"E	Gobindaganj	Gaibandha	31	60	103	6.2	9.1	0.56	9.4	BDL
25.127856 N	89.315213 E	Gobindaganj	Gaibandha	24	51	93	5.7	8.6	0.32	8.3	BDL
N 26.280468	E 88.465544	Atwari	Panchagarh	35	67	119	9.5	12.5	0.41	8.9	BDL

N 26.268956	E 88.460055	Atwari	Panchagarh	28	59	113	8.5	13.2	0.37	7.9	BDL
N 26.244958	E 88.426302	Atwari	Panchagarh	31	62	124	9.1	12.7	0.32	8.5	BDL
N 26.564979	E 88.414747	Tetulia	Panchagarh	24	53	97	6.8	7.4	0.39	5.6	BDL
N 26.588468	E 88.88.395241	Tetula	Panchagarh	31	64	109	7.8	11.4	0.35	5	BDL
N 23.000368	E 89.761666	Kalia	Narail	28	57	103	10.11	15.97	0.26	7.12	BDL
N 23.014948	E 89.681623	Kalia	Narail	29	59	107	13.53	16.16	0.28	7.71	BDL
N 23.020265	E 89.671690	Kalia	Narail	31	60	110	17.12	16.22	0.33	8.12	BDL
N 23.061521	E 89.537976	Sadar	Narail	24	52	97	8.45	14.33	0.48	8.95	BDL
N 23.247248	E 89.450078	Sadar	Narail	31	63	104	10.15	9.35	0.42	9.13	BDL
N 23.252278	E 89.477540	Sadar	Narail	29	59	101	5.66	10.41	0.46	8.36	BDL

N 23.267325	E 89.496537	Sadar	Narail	32	65	105	12.43	15.31	0.4	7.05	BDL
N 23.082870	E 89.653893	Kalia	Narail	27	56	98	11.19	17.81	0.31	9.08	BDL
N 23.041401	E 89.601593	Kalia	Narail	31	61	106	7.64	11.68	0.45	9.44	BDL
N 23.064749	E 89.623458	Kalia	Narail	29	58	98	9.33	14.13	0.41	11.79	BDL
N 23.092772	E 89.628472	Kalia	Narail	29	56	102	8.15	12.46	0.62	7.48	BDL
N 23.371769	E 89.446335	Sadar	Magura	31	53	88	8.2	9.6	0.83	1.3	BDL
N 23.335543	E 89.495773	Sadar	Magura	42	68	103	6.7	8.4	0.91	3.2	BDL
N 23.425394	E 89.469841	Sadar	Magura	21	39	78	5.3	8.2	0.73	3	BDL
N 23.419970	E 89.467926	Sadar	Magura	37	69	92	9.5	11.2	0.92	2.5	BDL
N 25.997937	E 88.749674 N	Sadar	Nilphamari	31	67	126	5.2	9.4	0.73	6.8	BDL

N 25.951390	E 89.011266	Kishoreganj	Nilphamari	26	68	129	5.6	8.4	0.53	5.2	BDL
N 25.955675	E 88.988367	Kishoreganj	Nilphamari	18	49	97	6.3	8.7	0.44	5.1	BDL
N 25.610079	E 89.286500	Mithapukur	Rangpur	26	63	98	6.5	8.1	0.39	7.1	BDL
N 25.594811	E 89.331924	Mithapukur	Rangpur	29	62	107	8.4	11.9	0.47	8.2	BDL
N 25.590369	E 89.359413	Mithapukur	Rangpur	31	66	115	7.2	9.8	0.35	9.4	BDL
N 25.730723	E 89.336266	Pirgacha	Rangpur	27	54	97	8.1	11.3	0.46	8.2	BDL
N 25.729044	E 89.307849	Pirgacha	Rangpur	30	61	111	9.8	13.6	0.43	7.4	BDL
N 25.864736	E 89.139575	Gangachara	Rangpur	29	62	101	7.6	8.4	0.53	7.5	BDL
N 25.895044	E 89.132977	Gangachara	Rangpur	36	69	126	9.5	14.8	0.58	8.4	BDL
N 25.929192	E 89.127852	Gangachara	Rangpur	28	57	96	7.4	10.1	0.36	7.3	BDL

N 25.860919	E 89.130528	Gangachara	Rangpur	26	59	104	6.5	9.3	0.4	6.1	BDL
N 25.862395	E 89.122438	Gangachara	Rangpur	32	64	117	8.6	11.9	0.48	7.3	BDL
N 25.489756	E 89.329624	Pirganj	Rangpur	31	64	109	8.5	12.7	0.36	7.2	BDL
N 25.488616	E 89.361159	Pirganj	Rangpur	34	67	118	7.8	11.2	0.39	8.1	BDL
N 25.472612	E 89.385792	Pirganj	Rangpur	28	61	112	8.9	12.3	0.41	8.6	BDL
N 25.472612	E 89.385792	Pirganj	Rangpur	29	58	102	6.7	10.1	0.35	7.4	BDL
N 25.82766	E 89.63526	Sadar	Kurigram	27	59	104	6.3	14.1	0.35	5.2	BDL
N 25.83941	E 89.62506	Sadar	Kurigram	23	49	87	9.1	8.4	0.76	7.5	BDL
N 25.84536	E 89.62346	Sadar	Kurigram	34	71	129	7.2	5.4	0.83	6.3	BDL
N 26°7'18.992	E 89°40'0.669"	Bhurungamari	Kurigram	46	57	124	5.1	17.3	0.44	9	BDL
N 26°8'11.604	E 89°40'0.543"	Bhurungamari	Kurigram	39	62	114	4.7	18.6	0.71	6.6	BDL

N 26°9'40.283	E 89°40'1.631"	Bhurungamari	Kurigram	37	42	95	5.9	11.4	0.26	8.1	BDL
N 25.728212	E 89.617595	Ulipur	Kurigram	23	54	97	4.9	9.6	0.32	4.4	BDL
N 25.713705	E 89.586932	Ulipur	Kurigram	26	58	105	5.1	10.3	0.47	4.1	BDL
N 26.084028	E 88.340803	Sadar	Thakurgaon	29	59	99	5.1	10.2	0.26	6.2	BDL
N 26.104236	E 88.348754	Sadar	Thakurgaon	26	53	95	6.4	7.5	0.54	7	BDL
N 26.130815	E 88.372357	Sadar	Thakurgaon	31	63	114	9.1	12.4	0.39	5.8	BDL
N 26.154354	E 88.387225	Sadar	Thakurgaon	27	67	98	6.3	10.1	0.53	6.2	BDL
N 26.122036	E 88.528948	Sadar	Thakurgaon	34	65	109	7.8	9.6	0.35	9.4	BDL
N 26.112500	E 88.498229	Sadar	Thakurgaon	29	58	97	5.1	7.6	0.46	8.2	BDL
N 25.892493	E 88.147014	Haripur	Thakurgaon	26	57	102	6.1	9.7	0.38	8.2	BDL

N 25.922871	E 88.146112	Haripur	Thakurgaon	29	62	118	6.9	8.7	0.34	8.1	BDL
N 25.970345	E 88.147386	Haripur	Thakurgaon	27	56	99	7.2	9.6	0.35	6.4	BDL
N 25.990124	E 88.162496	Haripur	Thakurgaon	33	67	125	7.4	9.7	0.29	6.2	BDL
N 26.105448	E 88.266862	Baliadangi	Thakurgaon	28	62	103	6.5	9.1	0.34	8.6	BDL
N 26.113891	E 88.248315	Baliadangi	Thakurgaon	26	57	109	7.1	9.4	0.36	8.2	BDL
N 26.131979	E 88.231535	Baliadangi	Thakurgaon	35	64	112	6.7	8.9	0.33	7.8	BDL
N 26.066577	E 88.298363	Baliadangi	Thakurgaon	27	59	101	6.8	10.4	0.42	6.5	BDL
N 26.152166	E 88.282092	Baliadangi	Thakurgaon	31	59	103	6.4	9.2	0.36	7.6	BDL
N 26.155462	E 88.253535	Baliadangi	Thakurgaon	29	58	99	6.8	9.3	0.32	7.4	BDL
N 26.140757	E 88.228239	Baliadangi	Thakurgaon	34	61	106	7.1	9.6	0.3	6.9	BDL

21°46'06.8"N	91°57'05.0"E	Chakaria	Cox's Bazar	55.4	82.12	145.53	19.72	26.34	1.4	38	BDL
21°46'56.0"N	91°57'09.4"E	Chakaria	Cox's Bazar	50.72	76.88	135.6	21.35	29.72	1.1	41	BDL
23°08'01.7"N	89°59'00.4"E	Rajoir	Madaripur	53.88	75.39	140.27	20.18	27.52	1.2	37	BDL
23°07'21.8"N	89°58'41.4"E	Rajoir	Madaripur	50.13	79.15	140.29	22.8	28.66	1.3	40	BDL
22°07'55.6"N	92°02'34.1"E	Satkania	Chattogram	52.3	80.77	144.58	22.46	30.45	1.2	40	BDL
22°08'52.2"N	91°58'39.8"E	Satkania	Chattogram	55.57	84.77	149.35	20.73	27.53	0.9	43	BDL
22°23'32.2"N	91°56'08.9"E	Boalkhali	Chattogram	52.13	75.08	138.68	19.52	29.48	1.6	39	BDL
22°24'03.2"N	91°57'49.2"E	Boalkhali	Chattogram	56.88	79.75	148.13	23.62	31.25	1.2	42	BDL
23°35'18.5"N	89°35'00.6"E	Madhukhali	Faridpur	55.36	88.14	151.01	16.23	21.16	0.5	39	BDL
23°34'32.0"N	89°33'30.3"E	Madhukhali	Faridpur	58.58	75.17	144.26	17.18	23.45	0.5	41	BDL
23°33'35.6"N	89°33'01.2"E	Madhukhali	Faridpur	56.7	75.98	143.19	23.88	26.28	0.6	31	BDL

23°32'55.3"N	89°32'30.1"E	Madhukhali	Faridpur	50.67	85.96	147.13	16.03	20.49	0.5	28	BDL
23.571	89.985	Char Bhadrasan	Faridpur	26	54	98	7.1	10.2	0.35	7.9	BDL
23.576	89.959	Char Bhadrasan	Faridpur	35	69	120	9.7	13.8	0.52	6.1	BDL
23°14'39.0"N	90°45'20.0"E	Chandpur Sadar	Chandpur	50.42	83.62	147.11	27.35	31.47	1.4	39	BDL
23°13'55.1"N	90°45'59.6"E	Chandpur Sadar	Chandpur	49.52	87.5	151.03	22.64	27.38	1.2	45	BDL
23°13'31.9"N	90°46'31.6"E	Chandpur Sadar	Chandpur	56.85	73.81	142.16	26.73	24.78	0.9	41	BDL
23°14'13.3"N	90°47'06.3"E	Chandpur Sadar	Chandpur	59.44	82.66	153.6	19.55	29.94	1.6	43	BDL
23°06'42.3"N	90°24'26.7"E	Damuddya	Shariatpur	57.33	85.04	126.81	19.35	28.96	1.3	40	BDL
23°06'17.0"N	90°22'48.4"E	Damuddya	Shariatpur	46.02	75.3	124.75	16.85	26.18	1.2	35	BDL
22°42'17.5"N	91°36'42.4"E	Mirsharai	Chattogram	67.47	87.8	162.67	29.35	28.57	1.3	43	BDL
22°43'39.6"N	91°34'10.6"E	Mirsharai	Chattogram	60.2	84.77	153.63	25.64	26.83	1.1	41	BDL

22°46'18.1"N	91°33'34.8"E	Mirsharai	Chattogram	66.81	77.82	154.63	28.73	27.46	1.4	44	BDL
23.354	91.087	Barura	Cumilla	29	59	101	7.1	9.6	0.33	7.2	BDL
23.349	91.058	Barura	Cumilla	28	54	98	7.4	9.1	0.37	7.6	BDL
23.342	91.029	Barura	Cumilla	34	67	118	6.5	8.7	0.35	8.1	BDL
23.344	90.98	Barura	Cumilla	30	59	106	6.9	8.2	0.34	7.8	BDL
23.34	90.962	Barura	Cumilla	28	57	102	7.9	8.6	0.41	8.3	BDL
21°25'27.9"N	92°13'02.4"E	Ramu	Cox’s Bazar	53.79	82.73	144.52	17.12	23.38	1.1	38	BDL
21°25'37.5"N	92°12'22.8"E	Ramu	Cox’s Bazar	56.9	80.89	145.79	13.48	20.83	1	20	BDL
21°26'54.5"N	92°11'36.4"E	Ramu	Cox’s Bazar	51.01	79.71	145.68	15.66	22.74	1	33	BDL
21°27'31.8"N	92°12'17.5"E	Ramu	Cox’s Bazar	55.36	88.14	151.01	15.13	26.4	1	31	BDL
23.84	90.901	Nabinagar	Brahmanbaria	26	54	103	8.2	9.3	0.35	7.1	BDL
23.84	90.876	Nabinagar	Brahmanbaria	29	59	114	9.4	13.6	0.45	9.2	BDL
22°26'52.76"N	91°49'34.148"E	Hathazari	Chattogram	28	40	72	58	53	0.02	24	BDL

23.4992	91.0195	Debidwar	Cumilla	31	57	100	7.2	9.8	0.34	7.6	BDL
23.525	91.0351	Debidwar	Cumilla	33	59	106	7.6	10.1	0.35	6.8	BDL
23.5572	91.0532	Debidwar	Cumilla	29	54	97	6.9	8.5	0.32	6.4	BDL
Construction Phase (25% Work Progress)											
N 24.554792	E 88.457897	Godagari	Rajshahi	32	63	98	5.9	8.6	0.35	7.6	BDL
N 24.553046	E 88.476533	Godagari	Rajshahi	34	66	121	8.3	14.7	0.57	6.9	BDL
N 24.733931	E 88.497526	Nachole	C. Nawabganj	26	57	103	6.9	9.2	0.38	7.6	BDL
N 24.789539	E 88.259135	Gomostapur	C. Nawabganj	31	63	124	7.3	10.8	0.49	8.5	BDL
N 24.781522	E 88.261060	Gomostapur	C. Nawabganj	34	67	129	8.3	14.2	0.39	7.1	BDL
N 23.207339	E 89.250651	Sadar	Jashore	31	61	109	11.96	14.35	0.68	9.05	BDL

N 23.178932	E 89.252742	Sadar	Jashore	26	52	95	8.45	11.92	0.58	7.93	BDL
N 23.212563	E 89.247937	Sadar	Jashore	28	59	96	6.87	9.79	0.39	9.14	BDL
N 22.909615	E 89.227572	Keshabpur	Jashore	32	60	104	12.34	14.41	0.46	9.01	BDL
N 22.915219	E 89.257261	Keshabpur	Jashore	29	58	99	6.76	10.97	0.53	7.53	BDL
N 22.904464	E 89.290150	Keshabpur	Jashore	27	56	94	11.87	13.47	0.38	7.98	BDL
N 22.896488	E 89.319737	Keshabpur	Jashore	27	56	97	10.18	12.01	0.53	11.67	BDL
N 22.907228	E 89.287374	Keshabpur	Jashore	29	58	103	13.56	16.92	0.55	11.96	BDL
N 22.911667	E 89.324195	Keshabpur	Jashore	31	62	102	8.32	10.85	0.43	7.95	BDL
N 23.559164	E 89.487396	Sreepur	Magura	23	44	80	5.2	6.7	0.76	4.4	BDL
N 23.528746	E 89.497604	Sreepur	Magura	40	64	103	9.3	7.5	0.89	4.5	BDL

N 23.425610	E 89.343758	Sadar	Magura	32	59	92	9.1	6.3	0.59	2.3	BDL
N 23.429218	E 89.366013	Sadar	Magura	25	53	99	4.4	6.2	0.7	4.2	BDL
N 26.122159	E 88.817142	Domar	Nilphamari	33	67	114	9.4	14.8	0.54	8.1	BDL
N 26.129726	E 88.809559	Domar	Nilphamari	24	51	98	7.9	9.1	0.42	6.3	BDL
N 26.16289	E 88.79691	Domar	Nilphamari	29	58	107	6.1	8.9	0.46	5.2	BDL
N 26.195198	E 88.795800	Domar	Nilphamari	32	61	116	8.4	11.3	0.59	6.8	BDL
23°35'17.2"N	89°34'59.6"E	Modhukhali	Faridpur	61.47	84.23	155.09	18.34	26.47	0.6	42	BDL
23°34'32.0"N	89°33'30.2"E	Modhukhali	Faridpur	55.33	80.4	142.74	16.11	22.36	0.9	36	BDL
23°33'12.7"N	89°32'53.2"E	Modhukhali	Faridpur	47.52	83.53	139.56	20.79	21.89	0.7	40	BDL
23°32'03.6"N	89°32'24.9"E	Modhukhali	Faridpur	47.84	79.42	136.18	19.5	27.35	0.5	34	BDL
N 23.73	90.812 E	Homna	Cumilla	30	63	109	7.6	13.4	0.46	6.9	BDL

N 23.726	90.833 E	Homna	Cumilla	26	59	98	8.7	11.4	0.36	8.7	BDL
N 23.558	90.872 E	Muradnagar	Cumilla	33	65	119	9.14	14.7	0.58	9.1	BDL
23°45'34.2"N	90°47'01.1"E	Bancharampur	Brahmanbaria	55.06	83.68	146.74	21.83	34.45	1.1	42	BDL
23°45'28.4"N	90°45'32.9"E	Bancharampur	Brahmanbaria	48.22	82.74	141.97	18.42	29.52	1.2	41	BDL
23°44'52.6"N	90°45'59.9"E	Bancharampur	Brahmanbaria	54.93	80.89	144.83	23.64	25.12	1.4	44	BDL
22°59'03.0"N	91°25'44.7"E	Sadar	Feni	53.23	82.79	137.33	19.47	26.56	1.2	39	BDL
22°59'29.6"N	91°26'52.9"E	Sadar	Feni	61.95	78.42	144.5	21.53	28.47	1.4	42	BDL
22°52'59.4"N	91°25'44.5"E	Sonagazi	Feni	55.89	85.59	159.29	17.82	27.72	1.3	41	BDL
22°52'28.2"N	91°24'41.4"E	Sonagazi	Feni	64.53	87.71	154	23.15	31.43	1.7	44	BDL
Construction Phase (75% Work Progress)											
23°15'35.5"N	89°39'53.3"E	Alfadanga	Faridpur	55.1	78.92	154.28	19.73	28.76	1.6	45	BDL
23°16'15.7"N	89°40'08.8"E	Alfadanga	Faridpur	49.96	75.05	151.2	22.47	24.82	1.2	42	BDL
Ambient Air Quality Standards (Schedule-1) of Air Pollution Control Rules, 2022				**65 (24 hours)**	**150 (24 hours)**	**-**	**80 (24 hours)**	**80 (24 hours)**	**5 (8 hours)**	**100 (8 hours)**	**0.5 (24 hours)**

b. Analysis of Air Quality results

31. Ambient air quality measurements were taken on different intervals at different construction stages of many packages following the methodology described in above as per DoE instructions.

32. The test results show that the local ambient air quality condition completely meets the national standard. Out of 176 samples, only two samples exceeded the national limits for $PM_{2.5}$. Some lab reports of the test results are shown in Appendix 2.

33. **Carbon monoxide (CO):** The readings recorded for CO were all within DoE standard for ambient air quality.

34. **Nitric oxide (NO) and Nitrogen dioxide (NO2):** Ambient NO2 concentrations in all the sampling points showed compliance with the DOE annual average standard.

35. **Sulfur dioxide (SO2):** Ambient SO2 concentrations in all the sampling points showed compliance with DOE annual standard.

36. **O3:** The readings for O3 at all the locations were within the DOE standards.

37. **PM10 and PM2.5:** The readings for PM2.5 and PM10 are withing limits in all samples but only two samples for $PM_{2.5}$, both at baseline (0%) phase at Mirsarai, Chattogram. The baseline phase exceedence of $PM_{2.5}$ shows that RCIP project activities did not cause the surge in pollution. It was obviously caused by local conditions.
38. The measurement results showed that concentrations of all air quality parameters are within allowable standards. Based on the ambient air quality standard of DoE, air quality in the study area can be stated as in good condition.

c. Statistical Analysis and Graphical Presentations

39. Following are the graphical presentations of the values of air quality parameters in the reporting period:

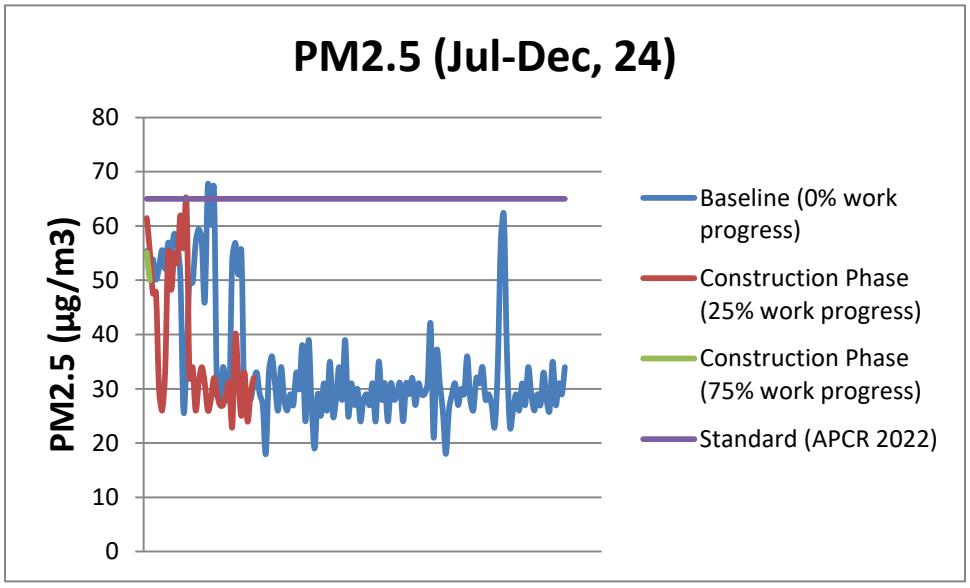

Figure 4: Graphical presentations of PM2.5 values during Jul-Dec, 2024

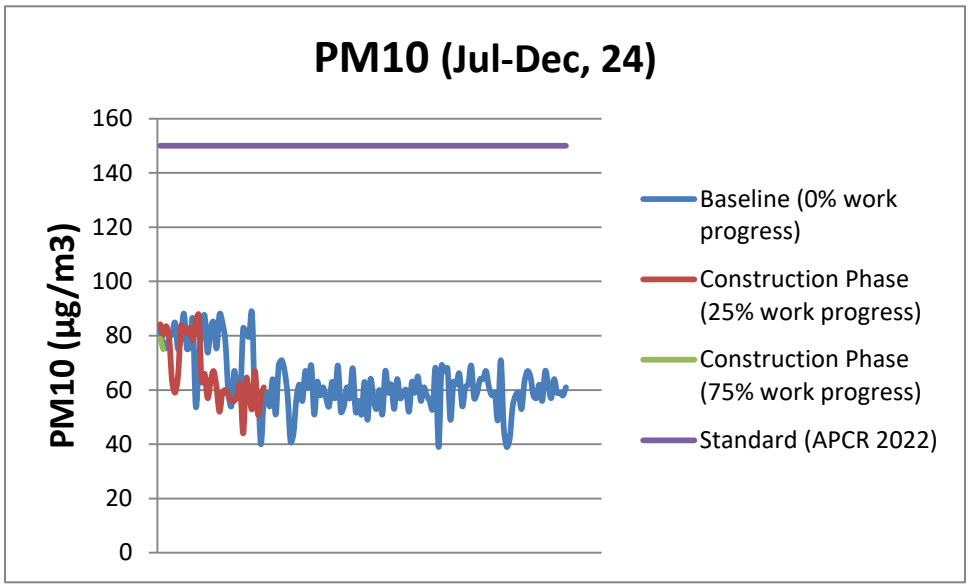

Figure 5: Graphical presentations of PM_{10} values during Jul-Dec, 2024

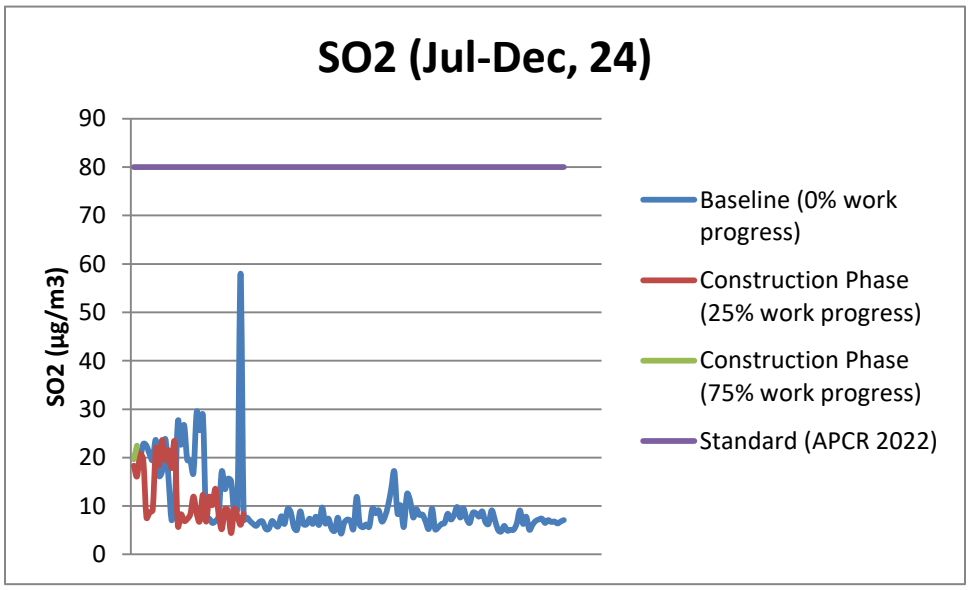

Figure 6: Graphical presentations of SO_2 values during Jul-Dec, 2024

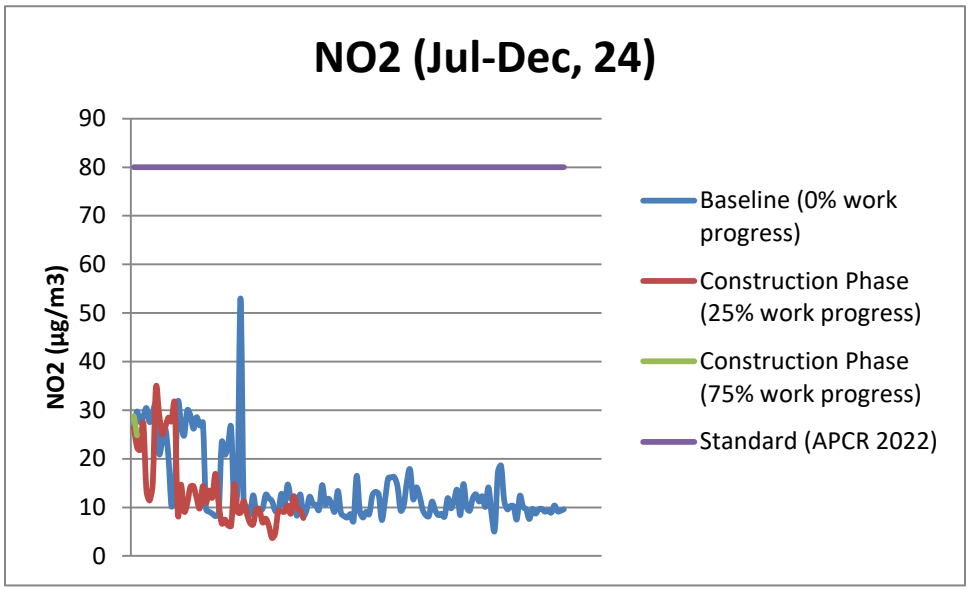

Figure 7: Graphical presentations of NO_2 values during Jul-Dec, 2024

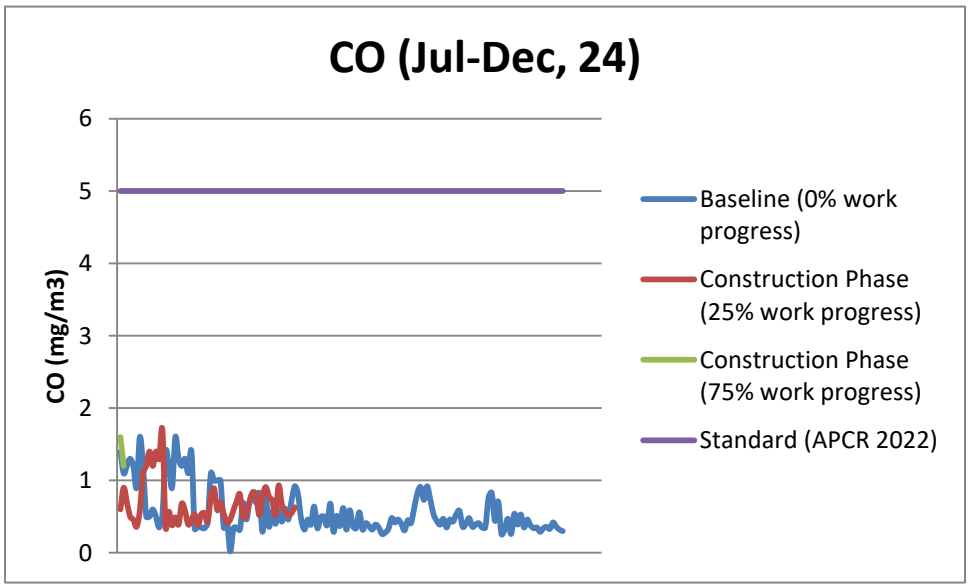

Figure 8: Graphical presentations of CO values during Jul-Dec, 2024

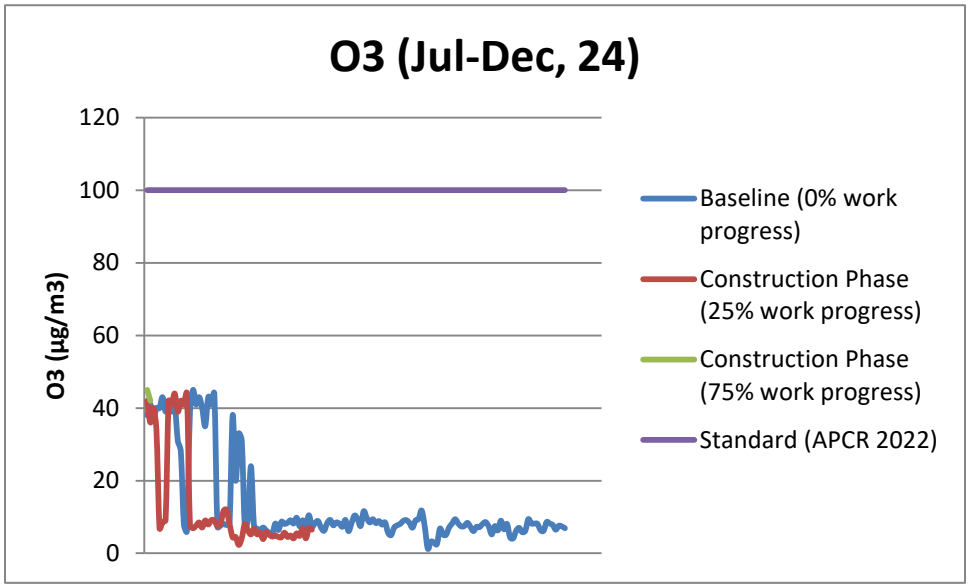

Figure 9: Graphical presentations of O_3 values during Jul-Dec, 2024

40. Following is the presentation of mean values of different air quality parameters at different construction phases averaging the values of the current reporting period (Jul-Dec, 2024) and the previous semi-annual periods (Jan-Jun, 24; Jul-Dec, 23; Jul-Dec, 23 and Jul-Dec, 22).

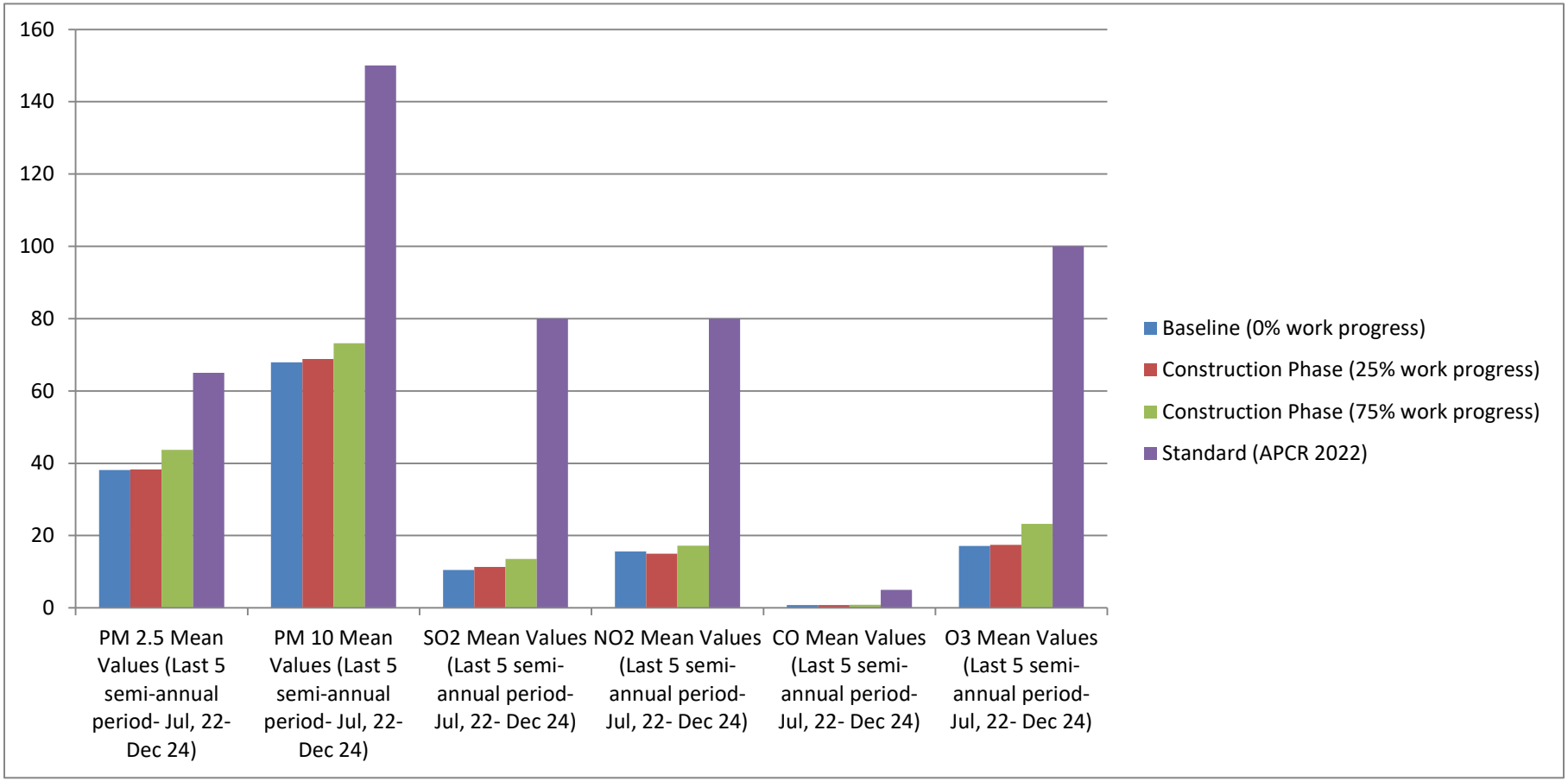

Figure 10: Presentation of mean values of all six air quality parameters in the last four semi-annual periods (July, 2022 – December, 2024)

II. Ambient noise levels

41. Noise is another potentially serious threat to the quality of an environment. Noise levels vary at the given locations according to ambient noise, including movement of road-traffic, industrial noise, and general community. According to World Health Organization's Guidelines for Community Noise (1999), daily sound pressure levels of 50 decibels (dB) or above can create discomfort for humans, while ongoing exposure to sound pressure levels over 85 dB is considered the critical level for at least temporary hearing damage.

42. Noise monitoring is generally conducted at day and night within the study area. The purpose of ambient noise level measurement was to determine the sound intensity at the monitoring locations. The noise measurements were taken at the known sensitive receptors, which are important for their ecological and social value. These locations are chosen in such a way that a representative data could be recorded all over the study area. Sound level measurements were taken using data logging sound level meter. Noise level was measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Usually, noise levels are measured for continuous 1 hour period to determine the noise level of the particular point on an area at a particular time (day or night).

43. The succeeding table presents the results of noise monitoring in numerous points along selected rural roads during the reporting period. The monitoring results are shown in the following table. Some sample noise level measurements lab reports are shown in Annex 2.

Table 9: Noise in dB (A) monitoring of Selected RCIP Roads

SL	Latitude	Longitude	Upazilla	District	**Noise in db (A) at day**	**Noise in db (B) Night**	Category of Area/Receptor	**DoE Standard Noise at Day in dB(a)**	**DoE Standard Noise at Night in dB(a)**
Pre- Construction Phase (0%)									
1	23°14'39.0"N	90°45'20.0"E	Chandpur Sadar	Chandpur	61.37	49.89	Mixed	60	50
2	23°13'55.1"N	90°45'59.6"E	Chandpur Sadar	Chandpur	62.09	50.85	Mixed	60	50

3	23°13'31.9"N	90°46'31.6"E	Chandpur Sadar	Chandpur	55.29	49.52	Residential	50	40
4	23°14'13.3"N	90°47'06.3"E	Chandpur Sadar	Chandpur	55.67	48.79	Mixed	60	50
5	21°25'27.9"N	92°13'02.4"E	Ramu	Cox’s Bazar	59.79	52.23	Residential	50	40
6	21°25'37.5"N	92°12'22.8"E	Ramu	Cox’s Bazar	58.02	50.51	Residential	50	40
7	21°26'54.5"N	92°11'36.4"E	Ramu	Cox’s Bazar	57.42	49.82	Mixed	60	50
8	21°27'31.8"N	92°12'17.5"E	Ramu	Cox’s Bazar	60.02	50.42	Mixed	60	50
9	23.840073	90.901335	Nabinagar	Brahmanbaria	65.6	44.04	Silent	50	40
10	23.840211	90.875951	Nabinagar	Brahmanbaria	51.91	39.55	Mixed	60	50
11	21°46'06.8"N	91°57'05.0"E	Chakaria	Cox's Bazar	58.43	44.5	Residential	50	40
12	21°46'56.0"N	91°57'09.4"E	Chakaria	Cox's Bazar	63.93	48.48	Mixed	60	50
13	23°35'18.5"N	89°35'00.6"E	Madhukhali	Faridpur	55.77	50.83	Residential	50	40
14	23°34'32.0"N	89°33'30.3"E	Madhukhali	Faridpur	55.86	48.99	Residential	50	40
15	23°33'35.6"N	89°33'01.2"E	Madhukhali	Faridpur	49.78	50.19	Residential	50	40
16	23°32'55.3"N	89°32'30.1"E	Madhukhali	Faridpur	50.42	50.44	Mixed	60	50
17	23°08'01.7"N	89°59'00.4"E	Rajoir	Madaripur	57.35	47.23	Residential	50	40
18	23°07'21.8"N	89°58'41.4"E	Rajoir	Madaripur	58.96	46.26	Residential	50	40
19	23.570705	89.985389	Char Bhadrasan	Faridpur	52.9	42.44	Silent	50	40
20	23.576085	89.959452	Char Bhadrasan	Faridpur	51.81	36.65	Silent	50	40
21	23°06'42.3"N	90°24'26.7"E	Damuddya	Shariatpur	59.46	52.55	Residential	50	40

22	23°06'17.0"N	90°22'48.4"E	Damuddya	Shariatpur	58.44	50.68	Residential	50	40
23	22°42'17.5"N	91°36'42.4"E	Mirsharai	Chattogram	58.82	42.48	Residential	50	40
24	22°43'39.6"N	91°34'10.6"E	Mirsharai	Chattogram	56.99	42.94	Mixed	60	50
25	22°46'18.1"N	91°33'34.8"E	Mirsharai	Chattogram	59.22	41.75	Mixed	60	50
26	22°07'55.6"N	92°02'34.1"E	Satkania	Chattogram	60.74	49.72	Residential	50	40
27	22°08'52.2"N	91°58'39.8"E	Satkania	Chattogram	58.42	48.05	Mixed	60	50
28	22°23'32.2"N	91°56'08.9"E	Boalkhali	Chattogram	55.43	48.21	Residential	50	40
29	22°24'03.2"N	91°57'49.2"E	Boalkhali	Chattogram	51.21	49.49	Mixed	60	50
30	23.354164	91.086841	Barura	Cumilla	65.5	48.14	Silent	50	40
31	23.348585	91.057578	Barura	Cumilla	54.01	42.65	Mixed	60	50
32	23.342203	91.029217	Barura	Cumilla	46.75	46.64	Silent	50	40
33	23.343963	90.980313	Barura	Cumilla	45.2	38.94	Silent	50	40
34	23.340079	90.961544	Barura	Cumilla	63.13	45.08	Silent	50	40
35	22°26'52.76" N	91°49'34.148"E	Hathazari	Chattogram	58.4	48	Mixed Area	60	50
36	23.414324	90.169203	Shibchar	Madaripur	57.36	43.14	Silent Area	50	40
37	23.278166	90.178748	Shibchar	Madaripur	52.81	36.65	Silent Area	50	40
38	23.2686	90.204336	Shibchar	Madaripur	51.91	38.15	Silent Area	50	40
39	23.499202	91.019545	Debidwar	Cumilla	63.01	43.14	Silent	50	40
40	23.525027	91.035077	Debidwar	Cumilla	61.71	46.85	Mixed	60	50
41	23.557163	91.05316	Debidwar	Cumilla	56.4	41.64	Silent	50	40
42	N 24.27776921	E 88.89649546	Bagha	Rajshahi	53.78	46.24	Silent	50	40
43	N	E 88.89777141	Bagha	Rajshahi	48.14	38.21	Silent	50	40

	24.26942203								
44	N 24.27639223	E 88.87869695	Bagha	Rajshahi	52.25	40.31	Silent	50	40
45	N 24.25569841	E 88.91217479	Bagha	Rajshahi	55.88	41.5	Silent	50	40
46	N 24.4199458	E 88.56738524	Paba	Rajshahi	55.28	45.14	Mixed	60	50
47	N 24.43633327	E 88.56171271	Paba	Rajshahi	49.54	38.8	Silent	50	40
48	N 24.44923423	E 88.73675362	Durgapur	Rajshahi	52.85	41.11	Silent	50	40
49	N 24.45342841	E 88.7072236	Durgapur	Rajshahi	55.78	42.3	Silent	50	40
50	N 24.607842	E 88.204440	Sadar	C. Nawabganj	54.02	42.21	Silent	50	40
51	N 24.753620	E 88.104627	Shibganj	C. Nawabganj	48.61	38.59	Silent	50	40
52	N 24.792478	E 88.117087	Shibganj	C. Nawabganj	52.35	42.85	Mixed	60	50
53	N 24.809292	E 88.118419	Shibganj	C. Nawabganj	59.68	42.11	Silent	50	40
54	N 24.802675	E 88.130498	Shibganj	C. Nawabganj	60.15	41	Silent	50	40
55	N 24.80672047	E 88.58392254	Niamatpur	Naogaon	57.18	43.55	Mixed	60	50
56	N 24.80044999	E 88.60429776	Niamatpur	Naogaon	49.01	40.69	Silent	50	40
57	N 24.78480398	E 88.59904879	Niamatpur	Naogaon	55.25	43.81	Silent	50	40
58	N 24.75106317	E 88.5888396	Niamatpur	Naogaon	61.38	43.45	Silent	50	40
59	N 24.73855507	E 88.59022782	Niamatpur	Naogaon	61.68	43.05	Mixed	60	50
60	N 25.185183	E 88.470900	Shapahar	Naogaon	54.64	41.91	Silent	50	40
61	N 25.182055	E 88.446971	Shapahar	Naogaon	49.51	40.05	Mixed	60	50
62	N 25.142660	E 88.468579	Shapahar	Naogaon	54.45	41.94	Silent	50	40
63	N 24.4009014	E 89.044049	Sadar	Natore	52.9	40.84	Silent	50	40

64	N 24.394927	E 89.061315	Sadar	Natore	49.81	38.95	Silent	50	40
65	N 24.389561	E 89.089676	Sadar	Natore	54.95	42.04	Mixed	60	50
66	N 24.381995	E 89.029551	Sadar	Natore	55.8	39.44	Silent	50	40
67	N 24.795842	E 89.098948	Adamdighi	Bogura	55.98	43.05	Silent	50	40
68	N 24.780332	E 89.093969	Adamdighi	Bogura	47.81	39.39	Mixed	60	50
69	N 24.758635	E 89.096864	Adamdighi	Bogura	53.75	43.61	Silent	50	40
70	N 24.750650	E 89.127107	Adamdighi	Bogura	59.58	43.95	Silent	50	40
71	N 24.872150	E 89.103791	Dhupchachia	Bogura	56.61	42.13	Silent	50	40
72	N 24.878508	E 89.103802	Dhupchachia	Bogura	51.31	39.49	Mixed	60	50
73	N 24.708265	E 89.324429	Shajahanpur	Bogura	56.85	43.11	Mixed	60	50
74	N 24.704718	E 89.349302	Shajahanpur	Bogura	59.58	41.22	Silent	50	40
75	N 24.699183	E 89.377536	Shajahanpur	Bogura	58.21	40.19	Silent	50	40
76	25°09'08.7"N	89°19'28.7"E	Gobindaganj	Gaibandha	52.9	45.74	Silent	50	40
77	25°11'56.2"N	89°14'34.1"E	Gobindaganj	Gaibandha	48.11	42.25	Mixed	60	50
78	25°12'13.3"N	89°13'26.6"E	Gobindaganj	Gaibandha	51.05	45.44	Silent	50	40
79	25.127856 N	89.315213 E	Gobindaganj	Gaibandha	60.1	39.54	Silent	50	40
80	N 26.280468	E 88.465544	Atwari	Panchagarh	53.32	41.61	Silent	50	40
81	N 26.268956	E 88.460055	Atwari	Panchagarh	50.21	37.59	Silent	50	40
82	N 26.244958	E 88.426302	Atwari	Panchagarh	51.81	36.49	Mixed	60	50
83	N 26.564979	E 88.414747	Tetulia	Panchagarh	60.68	46.1	Mixed	60	50
84	N 26.588468;	E 88.88.395241	Tetula	Panchagarh	54.81	39.29	Silent	50	40
85	N 23.000368	E 89.761666	Kalia	Narail	55.7	40.94	Silent	50	40
86	N 23.014948	E 89.681623	Kalia	Narail	58.25	38.14	Mixed	60	50
87	N 23.020265	E 89.671690	Kalia	Narail	59.25	35.14	Silent	50	40
88	N 23.061521	E 89.537976	Sadar	Narail	55.4	41.84	Silent	50	40

89	N 23.247248	E 89.450078	Sadar	Narail	52.15	48.04	Silent	50	40
90	N 23.252278	E 89.477540	Sadar	Narail	52.9	39.94	Silent	50	40
91	N 23.267325	E 89.496537	Sadar	Narail	52.9	37.44	Mixed	60	50
92	N 23.082870	E 89.653893	Kalia	Narail	57.3	40.74	Silent	50	40
93	N 23.041401	E 89.601593	Kalia	Narail	49.21	37.05	Mixed	60	50
94	N 23.064749	E 89.623458	Kalia	Narail	52.9	40.54	Silent	50	40
95	N 23.092772	E 89.628472	Kalia	Narail	56.25	45.14	Silent	50	40
96	N 23.371769	E 89.446335	Sadar	Magura	43.11	36.05	Silent	50	40
97	N 23.335543	E 89.495773	Sadar	Magura	46.04	38.06	Mixed	60	50
98	N 23.425394	E 89.469841	Sadar	Magura	39.03	32.96	Silent	50	40
99	N 23.419970	E 89.467926	Sadar	Magura	48.36	37.93	Silent	50	40
100	N 25.997937	E 88.749674 N	Sadar	Nilphamari	53.58	44.54	Mixed	60	50
101	N 25.951390	E 89.011266	Kishoreganj	Nilphamari	49.54	37.3	Silent	50	40
102	N 25.955675	E 88.988367	Kishoreganj	Nilphamari	53.95	39.41	Silent	50	40
103	N 25.610079	E 89.286500	Mithapukur	Rangpur	49.62	43.41	Mixed	60	50
104	N 25.594811	E 89.331924	Mithapukur	Rangpur	44.71	38.59	Silent	50	40
105	N 25.590369	E 89.359413	Mithapukur	Rangpur	53.55	42.15	Silent	50	40
106	N 25.730723	E 89.336266	Pirgacha	Rangpur	55.88	41.01	Silent	50	40
107	N 25.729044	E 89.307849	Pirgacha	Rangpur	57.25	39	Mixed	60	50
108	N 25.864736	E 89.139575	Gangachara	Rangpur	50.92	43.31	Mixed	60	50
109	N 25.895044	E 89.132977	Gangachara	Rangpur	49.11	38.79	Silent	50	40
110	N 25.929192	E 89.127852	Gangachara	Rangpur	52.65	43.45	Silent	50	40
111	N 25.860919	E 89.130528	Gangachara	Rangpur	57.58	39.01	Silent	50	40
112	N 25.862395	E 89.122438	Gangachara	Rangpur	59.05	41.3	Silent	50	40
113	N 25.489756	E 89.329624	Pirganj	Rangpur	53.42	45.71	Silent	50	40

114	N 25.488616	E 89.361159	Pirganj	Rangpur	48.11	41.19	Silent	50	40
115	N 25.472612	E 89.385792	Pirganj	Rangpur	50.75	43.05	Mixed	60	50
116	N 25.472612	E 89.385792	Pirganj	Rangpur	56.48	36.71	Silent	50	40
117	N 25.82766	E 89.63526	Sadar	Kurigram	57.08	46.15	Mixed	60	50
118	N 25.83941	E 89.62506	Sadar	Kurigram	46.44	38.89	Silent	50	40
119	N 25.84536	E 89.62346	Sadar	Kurigram	49.85	39.91	Silent	50	40
120	N 26°7'18.992	E 89°40'0.669"	Bhurungamari	Kurigram	52.68	44.04	Silent	50	40
121	N 26°8'11.604	E 89°40'0.543"	Bhurungamari	Kurigram	47.24	37.5	Silent	50	40
122	N 26°9'40.283	E 89°40'1.631"	Bhurungamari	Kurigram	51.25	39.81	Silent	50	40
123	N 25.728212	E 89.617595	Ulipur	Kurigram	49.68	38.55	Silent	50	40
124	N 25.713705	E 89.586932	Ulipur	Kurigram	47.74	37.59	Mixed	60	50
125	N 26.084028	E 88.340803	Sadar	Thakurgaon	57.08	44.58	Silent	50	40
126	N 26.104236	E 88.348754	Sadar	Thakurgaon	50.71	42.49	Silent	50	40
127	N 26.130815	E 88.372357	Sadar	Thakurgaon	56.45	44.35	Silent	50	40
128	N 26.154354	E 88.387225	Sadar	Thakurgaon	60.68	43.81	Silent	50	40
129	N 26.122036	E 88.528948	Sadar	Thakurgaon	56.82	46.15	Silent	50	40
130	N 26.112500	E 88.498229	Sadar	Thakurgaon	54.61	43.44	Silent	50	40
131	N 25.892493	E 88.147014	Haripur	Thakurgaon	55.52	42.71	Silent	50	40
132	N 25.922871	E 88.146112	Haripur	Thakurgaon	49.51	38.99	Silent	50	40
133	N 25.970345	E 88.147386	Haripur	Thakurgaon	52.75	43.15	Silent	50	40
134	N 25.990124	E 88.162496	Haripur	Thakurgaon	59.88	40.11	Silent	50	40
135	N 26.105448	E 88.266862	Baliadangi	Thakurgaon	55.92	43.61	Silent	50	40
136	N 26.113891	E 88.248315	Baliadangi	Thakurgaon	50.31	39.19	Silent	50	40
137	N 26.131979	E 88.231535	Baliadangi	Thakurgaon	52.95	42.85	Silent	50	40
138	N 26.066577	E 88.298363	Baliadangi	Thakurgaon	59.98	37.21	Silent	50	40

139	N 26.152166	E 88.282092	Baliadangi	Thakurgaon	54.72	44.61	Silent	50	40
140	N 26.155462	E 88.253535	Baliadangi	Thakurgaon	55.31	38.19	Silent	50	40
141	N 26.140757	E 88.228239	Baliadangi	Thakurgaon	52.95	43.35	Silent	50	40
Construction Phase (25%)									
140	23°45'34.2"N	90°47'01.1"E	Bancharampur	Brahmanbaria	52.34	49.87	Residential	50	40
142	23°45'28.4"N	90°45'32.9"E	Bancharampur	Brahmanbaria	51.54	51.31	Residential	50	40
144	23°44'52.6"N	90°45'59.9"E	Bancharampur	Brahmanbaria	50.42	50.76	Mixed	60	50
146	22°59'03.0"N	91°25'44.7"E	Sadar	Feni	57.75	49.59	Residential	50	40
148	22°59'29.6"N	91°26'52.9"E	Sadar	Feni	59.38	48.73	Residential	50	40
150	22°52'59.4"N	91°25'44.5"E	Sonagazi	Feni	55.23	50.47	Residential	50	40
152	22°52'28.2"N	91°24'41.4"E	Sonagazi	Feni	54.3	50.14	Residential	50	40
154	23°35'17.2"N	89°34'59.6"E	Modhukhali	Faridpur	59.84	47.09	Residential	50	40
156	23°34'32.0"N	89°33'30.2"E	Modhukhali	Faridpur	58.03	49.91	Residential	50	40
158	23°33'12.7"N	89°32'53.2"E	Modhukhali	Faridpur	60.41	48.31	Residential	50	40
160	23°32'03.6"N	89°32'24.9"E	Modhukhali	Faridpur	59.79	45.78	Mixed	60	50
162	23.729635	90.81193	Homna	Cumilla	65.6	44.84	Silent Area	50	40
164	23.725613	90.832511	Homna	Cumilla	53.01	41.05	Silent Area	50	40
166	23.557693	90.871923	Muradnagar	Cumilla	56.61	38.15	Silent Area	50	40
168	N 24.554792	E 88.457897	Godagari	Rajshahi	54.28	44.05	Silent	50	40
170	N 24.553046	E 88.476533	Godagari	Rajshahi	50.71	41.51	Silent	50	40
172	N 24.733931	E 88.497526	Nachole	C. Nawabganj	53.02	41.71	Silent	50	40
174	N 24.789539	E 88.259135	Gomostapur	C. Nawabganj	49.91	38.95	Silent	50	40
176	N 24.781522	E 88.261060	Gomostapur	C. Nawabganj	54.55	42.04	Mixed	60	50

178	N 23.207339	E 89.250651	Sadar	Jashore	54.15	46.14	Silent	50	40
180	N 23.178932	E 89.252742	Sadar	Jashore	59.4	43.64	Mixed	60	50
182	N 23.212563	E 89.247937	Sadar	Jashore	52.9	38.74	Silent	50	40
184	N 22.909615	E 89.227572	Keshabpur	Jashore	55.6	41.54	Mixed	60	50
186	N 22.915219	E 89.257261	Keshabpur	Jashore	52.25	46.34	Silent	50	40
188	N 22.904464	E 89.290150	Keshabpur	Jashore	56.9	39.44	Silent	50	40
190	N 22.896488	E 89.319737	Keshabpur	Jashore	56.1	42.14	Silent	50	40
192	N 22.907228	E 89.287374	Keshabpur	Jashore	52.9	39.74	Silent	50	40
194	N 22.911667	E 89.324195	Keshabpur	Jashore	53.5	39.44	Silent	50	40
196	N 23.559164	E 89.487396	Sreepur	Magura	46.93	35.63	Silent	50	40
198	N 23.528746	E 89.497604	Sreepur	Magura	46.11	36.11	Mixed	60	50
200	N 23.425610	E 89.343758	Sadar	Magura	43.31	34.77	Silent	50	40
202	N 23.429218	E 89.366013	Sadar	Magura	41.45	33.48	Silent	50	40
204	N 26.122159	E 88.817142	Domar	Nilphamari	56.38	43.54	Mixed	60	50
206	N 26.129726	E 88.809559	Domar	Nilphamari	47.64	38.5	Silent	50	40
208	N 26.16289	E 88.79691	Domar	Nilphamari	52.15	36.31	Silent	50	40
210	N 26.195198	E 88.795800	Domar	Nilphamari	48.88	40	Silent	50	40
Construction Phase (75%)									
211	23°15'35.5"N	89°39'53.3"E	Alfadanga	Faridpur	59.5	49.16	Residential	50	40
212	23°16'15.7"N	89°40'08.8"E	Alfadanga	Faridpur	57.19	44.88	Residential	50	40

44. Rational for Deviation of Noise Level to National Standard:

Noise level measurement results reveal that noise levels have exceeded the national standard at 76 out of 212 locations in total in all phases. Most of the violations were very minor and deviated from the standard very little as most violations were happened at Silent and Residential areas which have very stringent standards. These violations were indeed not from construction activities as most of these deviations happened in the baseline stage(0% work progress); rather during sampling obnoxious noise generated from crowd and market, diesel based water pump (shallow machine), loud voice generated from adjacent schools, tone of prayer (Azan), noise from vehicles passing by were the principal causes. However some noise due to temporary construction activities such as noise form construction vehicles etc. indeed contributed to the temporary noise level rise. Minor noise generated from construction vehicles is very temporary and not persistent. At Modhukhali, Faridpur (CW-134) during baseline (0%) study of the noise level nighttime noise level was found to be higher than daytime noise level. Investigation shows that this happened due to the start of a religious sermon (waz) nearby at night. As this happened during baseline stage (0%) when the project activity was not started it can be concluded that this was not caused by RCIP project activity.

Overall, construction activities are not contributing to any noise pollution and all minor violations are due to local causes.

45. **Statistical Analysis and Graphical Presentations:**

Following graphs represent the values of noise levels (decibels) at both daytime and nighttime at different phases of construction and at different area categories (Silent, Residential, Mixed and Commercial) during the reporting period (Jul-Dec, 2024).

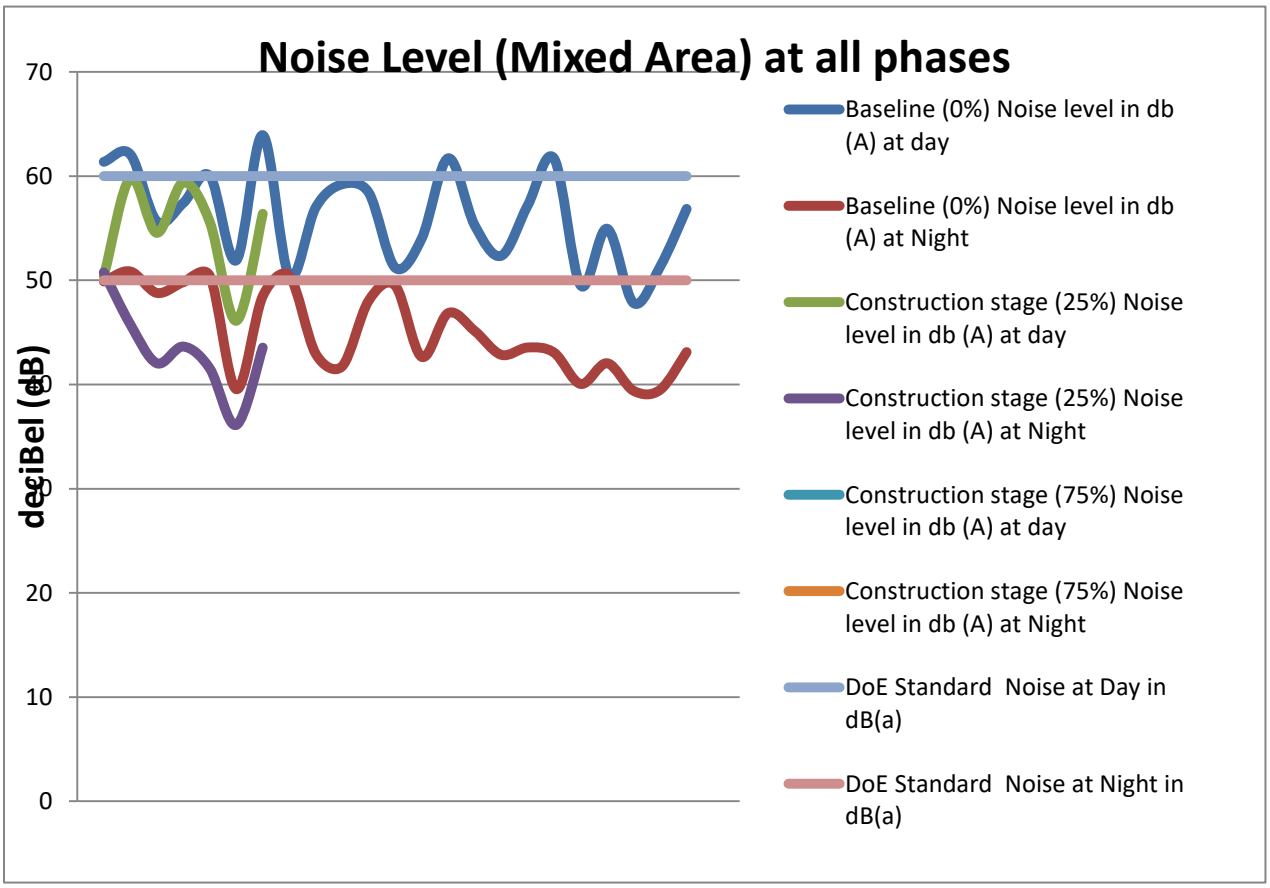

Figure 11: Mixed Area noise level at both daytime and nightime and at all phases during Jul-Dec, 2024

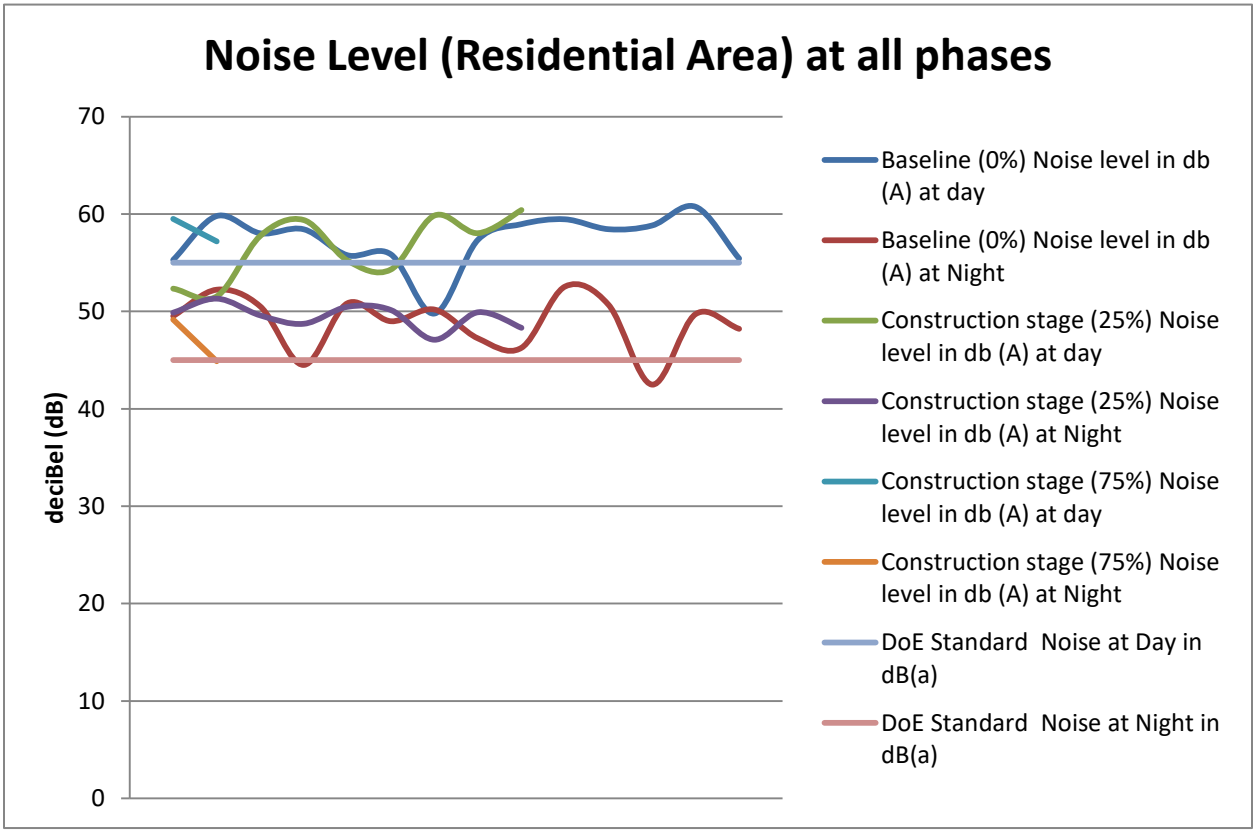

Figure 12: Residential Area noise level at both daytime and nighttime and at all phases during Jul-Dec, 2024

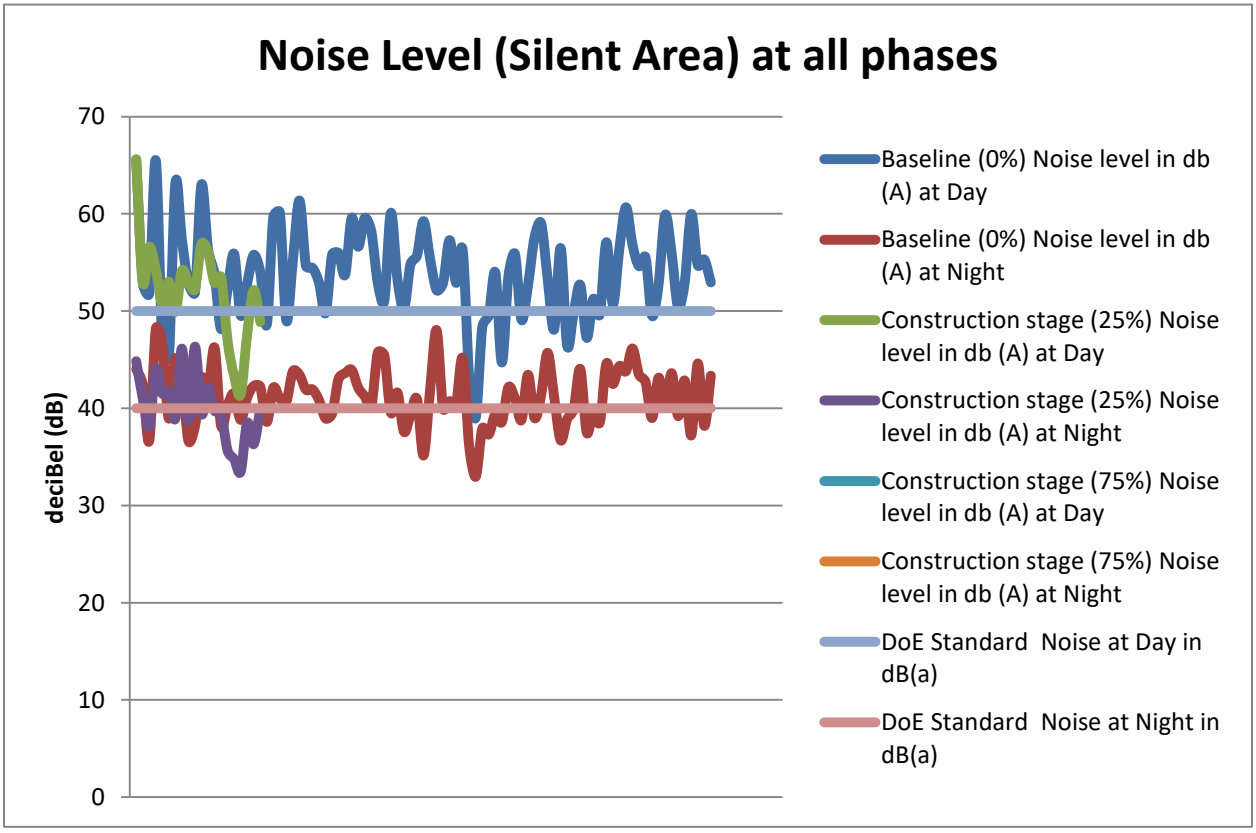

Figure 13: Silent Area noise level at both daytime and nightime and at all phases during Jul-Dec, 2024

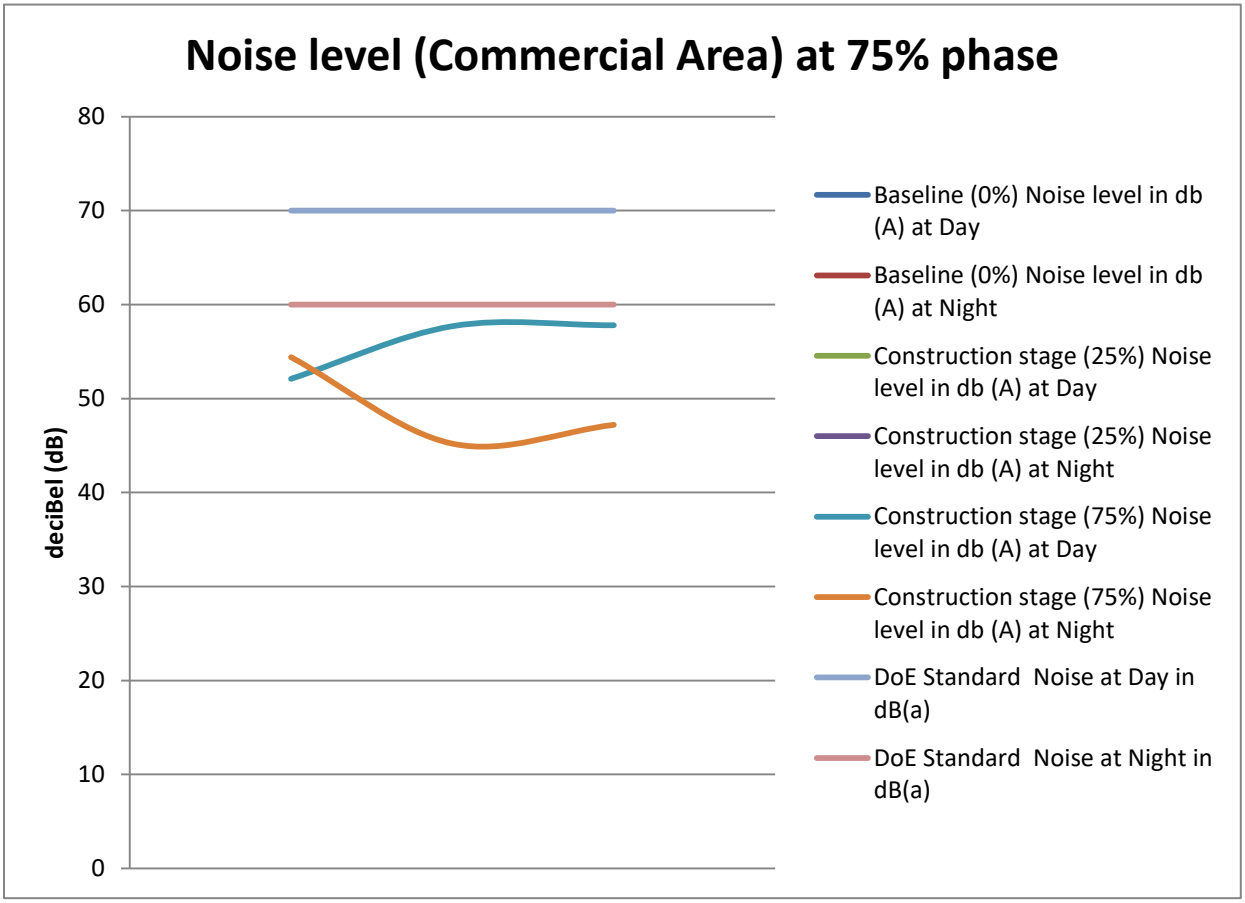

Figure 14: Commercial Area noise level at both daytime and nightime and at all phases during Jul-Dec, 2024

III. Ground Water Quality

46. Ground water sample was collected from subproject area's road side residence and labor camp of the project. Water sampling and analysis was undertaken to understand the overall water quality characteristics of the camp site drinking water as well as study area's ground water quality. After collecting the sample it was sent to the DPHE laboratory at Dhaka for further examination of the ground water parameters. The samples were analyzed for parameters covering physical, chemical and bacteriological characteristics within 24 hours after collection of water sample. Water samples were collected as grab water sample in pre-washed one-liter plastic bottles for water quality test. The samples were analyzed as per standard procedure/method given in Standard Method for Examination of Water and Wastewater Edition 20, published by APHA. The succeeding table presents the results of water quality monitoring in numerous points along selected rural roads. The monitoring results are shown in the following table. Some sample water quality analysis lab reports are shown in Annex 2.

Table 10: Results of water quality monitoring

SL.	Latitude	Longitude	Location	Alkalinity	As	Cl	EC	Fe	Pb	Mg mg/L	pH	Na mg/L	TDS mg/L	Zn mg/L	TC	FC
1	23°14'39.0"N	90°45'20.0"E	Modhu Road, Sadar	185	0.002	25	380	1.23	<0.01	30	7.6	15.3	190	0.03	4	0
2	23°13'55.1"N	90°45'59.6"E	Bodarkhula Bazar, Sadar	170	0.001	20	360	0.56	<0.01	26	7.5	10.2	180	0.03	0	0
3	23°13'31.9"N	90°46'31.6"E	Former Education Minister's House	165	0.001	20	370	0.52	<0.01	24	7.6	18.5	185	0.03	0	0
4	21°25'27.9"N	92°13'02.4"E	Hazipara Labour Camp	95	0.005	25	332	0.008	<0.01	8	7.4	16.8	166	0.03	8	1
5	21°25'37.5"N	92°12'22.8"E	Moddhom Hazipara	90	0.001	25	320	0.05	<0.01	9	7.6	10.5	160	0.03	-	-
6	21°26'54.5"N	92°11'36.4"E	Bottali	48	0.008	110	480	10.59	<0.01	15	5.7	16.8	240	0.03	-	-
7	21°27'31.8"N	92°12'17.5"E	Mazhirkata Primary School	50	0.004	20	100	14.13	<0.01	6	6.3	12.8	50	0.03	-	-

8	23.840073	90.901335	Shymagram Bonolata Bipin Girls' High School	215	0.001	620	2200	0.9	0.08	18	7.8	381	1100	0.03	0	0
9	23.840211	90.875951	Contractors Base Camp	155	0.003	30	310	0.22	0.03	10	7.3	26	156	0.03	0	0
10	23°08'01.7"N	89°59'00.4"E	Labour camp	638	0.035	50	1160	1.4	<0.01	35	7.3	6	580	0.03	0	0
11	23°07'21.8"N	89°58'41.4"E	Pukuria	123	0.001	35	360	0.36	<0.01	14	7.4	22	180	0.03	0	0
12	23.570705	89.985389	M.K Dangi Baitun Nur Jame Mosque	85	0.0001	50	660	0.09	0.002	20	8.2	38	330	0.03	-	-
13	23.576085	89.959452	Harirampur High School	40	0.001	35	310	0.07	0.001	9	8.3	22	156	0.03	-	-
14	23°06'42.3"N	90°24'26.7"E	Dahlibari more, Damuddya	115	0.001	330	1360	0.27	<0.01	15	7.8	277	680	0.03	10	1

15	23°06'17.0"N	90°22'48.4"E	Labour camp, Damuddya	125	0.001	220	1150	0.15	<0.01	10	7.9	218	575	0.03	0	0
16	22°42'17.5"N	91°36'42.4"E	Chotta Kamaldaha, Mirsharai	65	0.001	20	355	0.88	<0.01	11	8	20	177	0.03	-	-
17	22°43'39.6"N	91°34'10.6"E	Mayani Barurapara bazar, Mirsharai	70	0.001	20	353	0.72	<0.01	11	8.2	23.6	176	0.03	0	0
18	22°46'18.1"N	91°33'34.8"E	Kala Miar Dokhan, Mirsharai	-	-	-	-	-	<0.01	-	-	45	-	-	-	-
19	22°07'55.6"N	92°02'34.1"E	East Nalua	110	0.001	50	585	0.17	<0.001	28	7.8	-	292	0.03	-	-
20	22°08'52.2"N	91°58'39.8"E	Monshirpara	65	0.001	20	252	0.56	<0.001	22	7	-	125	0.03	-	-
21	22°23'32.2"N	91°56'08.9"E	Akubdondi, Boalkhali	70	0.005	20	260	2.87	<0.001	23	7.7	-	130	0.03	-	-
22	22°24'03.2"N	91°57'49.2"E	Khoder Hat, Boalkhali	85	0.001	20	360	0.81	<0.001	31	7.8	-	180	0.03	-	-

23	23.354164	91.086841	Boro Lakshmipur Jam-e Mosjid	89	0.124	76	531	1.86	0.001	29	7.3	78	364	0.02	-	-
24	23.348585	91.057578	Contractors Base Camp	150	0.156	30	440	2.46	0.001	26	7.8	37	220	0.03	4	0
25	23.342203	91.029217	North Shakpur R Ali Govt. Primary School	137	0.424	153	698	7.6	0.001	39	7.7	135	479	0.03	-	-
26	23.343963	90.980313	Adda Umedia High School	230	0.385	200	1035	11.22	0.001	41	7.8	108	516	0.03	-	-
27	23.340079	90.961544	Krisnopur Kharul Dakhil Madrasha	234	0.235	236	912	7.55	0.001	32	7.7	89	614	0.04	-	-
28	23.414324	90.169203	Puraton Jahajghata Jame Mosque	193	0.001	35	620	0.05	0.08	41	7.4	31	310	0.03	15	0

29	23.278166	90.178748	West Bashkandi Central Jame Mosque and Eidgah	200	0.001	380	1360	0.1	0.03	75	7.2	81	680	0.03	0	0
30	23.2686	90.204336	Tengramari Central Jame Mosque	212	0.045	20	570	0.41	0.12	45	7.3	8	285	0.03	0	0
31	23.499202	91.019545	174 No. Barkmta Jagoroni Govt Primary School	100	0.134	70	580	5.11	0.05	53	7.6	64	290	0.03	0	0
32	23.525027	91.035077	Contractors Base Camp	120	0.11	140	760	0.06	0.09	64	7.8	72	380	0.03	0	0
33	23.557163	91.05316	Fultali Chorerpara Jame Mosque	60	0.003	45	260	0.05	0.17	4	7.8	66	130	0.03	8	0
34	N 24.27776921	E 88.89649546	Bagha, Rajshahi	42	0.003	29	276	0.27	0.004	26	7.3	47	308	0.35	-	-
35	N 24.26942203	E 88.89777141	Bagha, Rajshahi	28	0.004	31	278	0.26	0.003	28	7.6	49	312	0.37	-	-
36	N 24.27639223	E 88.87869695	Bagha, Rajshahi	31	0.022	34	273	0.29	0.004	27	7.5	48	307	0.36	-	-

37	N 24.25569841	E 88.91217479	Bagha, Rajshahi	32	0.009	41	347	0.26	0.005	32	7.4	58	303	0.39	-	-
38	N 24.4199458	E 88.56738524	Paba, Rajshahi	41	0.006	33	275	0.28	0.001	29	7.3	38	304	0.19	-	-
39	N 24.43633327	E 88.56171271	Paba, Rajshahi	36	0.004	31	278	0.19	0.003	26	7.4	39	305	0.29	-	-
40	N 24.44923423	E 88.73675362	Durgapur, Rajshahi	26	0.03	34	284	0.17	0.006	29	7.5	38	307	0.29	-	-
41	N 24.45342841	E 88.7072236	Durgapur, Rajshahi	24	0.005	37	286	0.19	0.003	26	7.1	39	304	0.31	-	-
42	N 24.607842	E 88.204440	Sadar, C. Nawabganj	46	0.09	37	311	0.43	0.002	30	7.4	51	237	0.35	-	-
43	N 24.753620	E 88.104627	Sadar, C. Nawabganj	38	0.12	59	345	0.53	0.006	32	7.2	64	284	0.47	-	-
44	N 24.792478	E 88.117087	Sadar, C. Nawabganj	45	0.06	51	426	0.55	0.007	24	7.1	34	327	0.46	-	-
45	N 24.809292	E 88.118419	Sadar, C. Nawabganj	34	0.09	63	312	0.45	0.003	28	7.3	47	359	0.44	-	-
46	N 24.802675	E 88.130498	Sadar, C. Nawabganj	53	0.08	50	368	0.41	0.005	39	7.4	56	301	0.34	-	-
47	N 24.80672047	E 88.58392254	Sadar, C. Nawabganj	34	0.005	28	297	0.51	0.008	32	7.4	63	375	0.92	0	0
48	N 24.80044999	E 88.60429776	Niamatpur, Naogaon	36	0.04	29	251	0.48	0.003	31	7.1	49	283	0.64	0	0
49	N 24.78480398	E 88.59904879	Niamatpur, Naogaon	31	0.02	44	310	0.86	0.007	34	7.2	54	295	0.26	0	0

50	N 24.751063 17	E 88.588839 6	Niamatpur, Naogaon	37	0.00 3	46	298	0.67	0.00 5	33	7.1	58	312	0.86	0	0
51	N 24.738555 07	E 88.590227 82	Niamatpur, Naogaon	44	0.00 6	48	275	0.58	0.00 1	35	7.4	59	318	0.72	0	0
52	N 25.185183	E 88.470900	Niamatpur, Naogaon	34	0.08	67	359	0.49	0.00 5	25	7.3	55	309	0.41	0	0
53	N 25.182055	E 88.446971	Shapahar, Naogaon	38	0.1	56	249	0.65	0.00 4	31	7.1	59	338	0.24	0	0
54	N 25.142660	E 88.468579	Shapahar, Naogaon	29	0.07	61	398	0.52	0.00 4	34	7.4	68	301	0.69	0	0
55	N 24.400901 4	E 89.044049	Shapahar, Naogaon	28	0.09	52	454	0.35	0.00 3	21	7.4	59	304	0.5	0	0
56	N 24.394927	E 89.061315	Sadar, Natore	26	0.08	69	374	0.63	0.00 1	29	7.2	65	327	0.32	0	0
57	N 24.389561	E 89.089676	Sadar, Natore	34	0.12	48	290	0.57	0.00 5	34	7.5	52	301	0.49	0	0
58	N 24.381995	E 89.029551	Sadar, Natore	39	0.1	74	382	0.69	0.00 3	38	7.4	45	337	0.28	0	0
59	N 24.795842	E 89.098948	Sadar, Natore	31	0.00 4	26	291	0.4	0.00 7	33	7.1	69	371	0.51	-	-
60	N 24.780332	E 89.093969	Adamdighi , Bogura	39	0.03	37	322	0.47	0.00 4	31	7.2	46	296	0.32	-	-
61	N 24.758635	E 89.096864	Adamdighi , Bogura	38	0.01	37	315	0.71	0.00 6	32	7.4	48	294	0.34	-	-
62	N 24.750650	E 89.127107	Adamdighi , Bogura	34	0.00 2	31	326	0.83	0.00 3	34	7.3	47	310	0.42	-	-
63	N 24.872150	E 89.103791	Adamdighi , Bogura	46	0.07	50	398	0.54	0.00 5	26	7.3	44	309	0.48	-	-
64	N 24.878508	E 89.103802	Dhupchach ia, Bogura	67	0.04	47	309	0.56	0.00 3	22	7.4	64	298	0.36	-	-

65	N 24.708265	E 89.324429	Dhupchachia, Bogura	39	0.12	63	457	0.36	0.006	30	7.1	47	307	0.53	-	-
66	N 24.704718	E 89.349302	Shajahanpur, Bogura	28	0.09	36	384	0.32	0.002	31	7.5	68	374	0.24	-	-
67	N 24.699183	E 89.377536	Shajahanpur, Bogura	49	0.13	61	335	0.48	0.006	36	7.3	68	277	0.48	-	-
68	25°09'08.7"N	89°19'28.7"E	Shajahanpur, Bogura	56	0.07	47	472	0.46	0.006	42	7.5	53	462	0.34	0	0
69	25°11'56.2"N	89°14'34.1"E	Gobindaganj, Gaibandha	61	0.17	45	356	0.36	0.001	52	7.7	86	351	0.58	0	0
70	25°12'13.3"N	89°13'26.6"E	Gobindaganj, Gaibandha	42	0.13	63	462	0.21	0.003	38	7.4	59	462	0.33	0	0
71	25.127856 N	89.315213 E	Gobindaganj, Gaibandha	54	0.15	57	373	0.38	0.002	30	7.3	69	325	0.41	0	0
72	N 26.280468	E 88.465544	Gobindaganj, Gaibandha	63	0.06	61	317	0.39	0.012	31	7.5	58	294	0.2	0	0
73	N 26.268956	E 88.460055	Atwari. Panchagarh	71	0.09	56	348	0.32	0.002	37	7.8	49	324	0.4	0	0
74	N 26.244958	E 88.426302	Atwari. Panchagarh	63	0.07	45	361	0.41	0.04	42	8.1	41	376	0.05	0	0
75	N 26.564979	E 88.414747	Atwari. Panchagarh	37	0.08	29	367	0.32	0.002	30	7.3	64	260	0.48	0	0
76	N 26.588468;	E 88.88.395241	Tetulia. Panchagarh	29	0.13	38	301	0.36	0.004	29	7.1	48	297	0.56	0	0
77	N 23.000368	E 89.761666	Tetula. Panchagarh	57	0.17	75	526	0.45	0.001	36	7.2	31	346	0.03	0	0
78	N 23.014948	E 89.681623	Kalia, Narail	71	0.07	45	393	0.38	0.005	26	7.7	52	313	0.09	5	0

79	N 23.020265	E 89.671690	Kalia, Narail	39	0.2	68	517	0.61	0.003	17	7.4	49	487	0.02	0	0
80	N 23.061521	E 89.537976	Kalia, Narail	72	0.14	82	452	0.25	0.003	48	7.3	53	273	0.01	0	0
81	N 23.247248	E 89.450078	Sadar, Narail	58	0.07	35	364	0.36	0.002	34	7.4	47	472	0.03	8	0
82	N 23.252278	E 89.477540	Sadar, Narail	69	0.18	46	518	0.66	0.002	40	7.2	59	728	0.08	0	0
83	N 23.267325	E 89.496537	Sadar, Narail	82	0.14	79	462	0.47	0.001	17	7.7	69	526	0.02	0	0
84	N 23.082870	E 89.653893	Sadar, Narail	45	0.18	39	563	0.46	0.002	39	7.4	51	476	0.29	0	0
85	N 23.041401	E 89.601593	Kalia, Narail	76	0.08	45	547	0.38	0.04	16	7.5	93	236	0.27	0	0
86	N 23.064749	E 89.623458	Kalia, Narail	38	0.04	84	364	0.47	0.003	30	7.3	56	378	0.53	5	0
87	N 23.092772	E 89.628472	Kalia, Narail	75	0.014	65	453	0.62	0.001	39	7.4	45	278	0.37	0	0
88	N 23.371769	E 89.446335	Kalia, Narail	290	0.004	45	782	0.82	<0.002	41	7	31.2	390	0.03	0	0
89	N 23.335543	E 89.495773	Sadar, Magura	282	0.003	30	625	1.3	<0.001	36	7.1	24.6	312	0.03	0	0
90	N 23.425394	E 89.469841	Sadar, Magura	200	0.001	25	670	0.27	<0.002	43	7	27.1	336	0.03	0	0
91	N 23.419970	E 89.467926	Sadar, Magura	155	0.09	20	412	0.62	<0.001	19	7.1	27.4	206	0.03	0	0
92	N 25.997937	E 88.749674 N	Sadar, Magura	31	0.004	29	276	0.3	0.002	24	7.6	49	312	0.44	0	0
93	N 25.951390	E 89.011266	Sadar, Nilphamari	29	0.003	26	278	0.4	0.003	27	7.1	45	302	0.65	0	0
94	N 25.955675	E 88.988367	Kishoreganj, Nilphamari	36	0.002	46	276	0.53	0.003	38	7.5	67	271	0.39	0	0

95	N 25.610079	E 89.286500	Kishoreganj, Nilphamari	59	0.03	51	380	0.34	0.004	37	7.1	47	318	0.32	-	-
96	N 25.594811	E 89.331924	Mithapukur, Rangpur	49	0.08	31	268	0.39	0.003	24	7.5	50	301	0.42	-	-
97	N 25.590369	E 89.359413	Mithapukur, Rangpur	64	0.13	42	388	0.53	0.001	39	7.2	44	378	0.31	-	-
98	N 25.730723	E 89.336266	Mithapukur, Rangpur	42	0.09	63	427	0.65	0.004	26	7.3	52	304	0.45	-	-
99	N 25.729044	E 89.307849	Pirgacha, Rangpur	60	0.06	52	378	0.59	0.005	37	7.6	64	351	0.34	-	-
100	N 25.864736	E 89.139575	Pirgacha, Rangpur	57	0.05	48	345	0.57	0.001	34	7.2	46	289	0.27	-	-
101	N 25.895044	E 89.132977	Gangachara, Rangpur	38	0.08	57	421	0.49	0.004	29	7.5	50	308	0.42	-	-
102	N 25.929192	E 89.127852	Gangachara, Rangpur	46	0.12	63	269	0.32	0.004	36	7.2	48	356	0.39	-	-
103	N 25.860919	E 89.130528	Gangachara, Rangpur	43	0.03	51	356	0.42	0.002	23	7.3	65	303	0.46	-	-
104	N 25.862395	E 89.122438	Gangachara, Rangpur	37	0.06	61	388	0.63	0.004	39	7.5	54	362	0.48	-	-
105	N 25.489756	E 89.329624	Gangachara, Rangpur	61	0.06	59	342	0.37	0.002	34	7.6	53	365	0.03	-	-
106	N 25.488616	E 89.361159	Pirganj, Rangpur	57	0.03	61	294	0.38	0.015	32	7.9	66	312	0.07	-	-
107	N 25.472612	E 89.385792	Pirganj, Rangpur	68	0.05	51	297	0.42	0.006	29	8.4	53	381	0.09	-	-
108	N 25.472612	E 89.385792	Pirganj, Rangpur	56	0.07	64	371	0.33	0.005	36	7.2	58	337	0.01	-	-
109	N 25.82766	E 89.63526	Pirganj, Rangpur	36	0.003	29	310	0.27	0.002	26	7.3	59	274	0.61	0	0

110	N 25.83941	E 89.62506	Sadar, Kurigram	41	0.004	33	348	0.32	0.001	34	7.2	69	302	0.7	0	0
111	N 25.84536	E 89.62346	Sadar, Kurigram	29	0.03	41	274	0.25	0.001	29	7.4	63	294	0.33	0	0
112	N 26°7'18.992	E 89°40'0.669"	Sadar, Kurigram	39	0.002	26	272	0.2	0.001	23	7.4	48	309	0.32	0	0
113	N 26°8'11.604	E 89°40'0.543"	Bhurungamari, Kurigram	54	0.002	32	304	0.16	0.001	29	7.3	35	264	0.65	0	0
114	N 26°9'40.283	E 89°40'1.631"	Bhurungamari, Kurigram	38	0.001	47	362	0.43	0.003	34	7.1	62	304	0.3	0	0
115	N 25.728212	E 89.617595	Bhurungamari, Kurigram	29	0.002	24	297	0.3	0.003	34	7.2	62	376	0.41	0	0
116	N 25.713705	E 89.586932	Ulipur, Kurigram	37	0.004	32	319	0.27	0.001	28	7.4	41	290	0.32	0	0
117	N 26.084028	E 88.340803	Ulipur, Kurigram	29	0.002	22	244	0.39	0.005	30	7.2	46	308	0.23	0	0
118	N 26.104236	E 88.348754	Sadar, Thakurgaon	34	0.001	31	289	0.42	0.007	36	7.4	53	276	0.23	0	0
119	N 26.130815	E 88.372357	Sadar, Thakurgaon	28	0.005	37	301	0.34	0.002	32	7.3	49	378	0.54	0	0
120	N 26.154354	E 88.387225	Sadar, Thakurgaon	33	0.004	24	374	0.38	0.003	41	7.4	50	291	0.29	0	0
121	N 26.122036	E 88.528948	Sadar, Thakurgaon	32	0.001	30	298	0.31	0.003	34	7.3	39	311	0.38	0	0
122	N 26.112500	E 88.498229	Sadar, Thakurgao	27	0.005	36	302	0.37	0.004	23	7.1	32	358	0.29	0	0

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123	N 25.892493	E 88.147014	Sadar, Thakurgaon	49	0.12	37	328	0.53	0.006	32	7.2	61	231	0.39	0	0
124	N 25.922871	E 88.146112	Haripur, Thakurgaon	52	0.008	41	299	0.47	0.003	34	7.6	68	245	0.36	0	0
125	N 25.970345	E 88.147386	Haripur, Thakurgaon	57	0.12	44	281	0.49	0.007	29	7.3	58	365	0.31	0	0
126	N 25.990124	E 88.162496	Haripur, Thakurgaon	63	0.014	48	295	0.56	0.004	33	7.2	57	287	0.41	0	0
127	N 26.105448	E 88.266862	Haripur, Thakurgaon	43	0.008	39	361	0.59	0.007	38	7.4	65	326	0.31	0	0
128	N 26.113891	E 88.248315	Baliadangi, Thakurgaon	51	0.011	48	319	0.54	0.001	32	7.6	63	378	0.37	0	0
129	N 26.131979	E 88.231535	Baliadangi, Thakurgaon	49	0.006	54	298	0.47	0.005	41	7.1	54	367	0.35	0	0
130	N 26.066577	E 88.298363	Baliadangi, Thakurgaon	62	0.02	64	317	0.59	0.001	35	6.8	73	331	0.46	0	0
131	N 26.152166	E 88.282092	Baliadangi, Thakurgaon	29	0.07	22	244	0.26	0.001	38	7.2	56	308	0.03	0	0
132	N 26.155462	E 88.253535	Baliadangi, Thakurgaon	34	0.09	31	289	0.37	0.003	47	7.4	50	276	0.02	0	0
133	N 26.140757	E 88.228239	Baliadangi, Thakurgaon	28	0.05	37	301	0.4	0.002	67	7.3	34	378	0.03	3	0

25%																
134	23°45'34.2"N	90°47'01.1"E	Sofirkandi, Bancharampur	205	0.076	45	520	0.31	<0.01	18	7.1	13.8	260	0.03	-	-
135	23°45'28.4"N	90°45'32.9"E	Khushkandi, Bancharampur	120	0.001	32	350	0.52	<0.01	12	7.3	14.05	175	0.03	-	-
136	23°44'52.6"N	90°45'59.9"E	Kallanpur, Bancharampur	450	0.165	50	1000	2.6	<0.01	20	8.4	11	500	0.03	-	-
137	23°35'17.2"N	89°34'59.6"E	Megchami, Modhukhali	245	0.005	35	820	0.6	<0.01	46	7.8	21	410	0.03	0	0
138	23°34'32.0"N	89°33'30.2"E	Norkona, Modhukhali	215	0.003	110	1070	3.38	<0.01	40	7.6	100	535	0.03	0	0
139	23°33'12.7"N	89°32'53.2"E	Uttar Arpara, Modhukhali	338	0.002	80	960	0.79	<0.01	35	7.9	112	480	0.03	1	4
140	23°32'03.6"N	89°32'24.9"E	Kamarkhali, Modhukhali	190	0.001	30	780	0.48	<0.01	43	7.8	16	390	0.03	0	0
141	N 24.554792	E 88.457897	Godagari,	38	0.09	52	346	0.34	0.003	29	7.1	59	325	0.41	-	-
142	N 24.553046	E 88.476533	Godagari,	47	0.13	64	299	0.38	0.003	22	7.4	51	384	0.36	-	-

143	N 24.733931	E 88.497526	Nachole,	28	0.03	54	482	0.51	0.003	23	7.2	39	284	0.38	-	-
144	N 24.789539	E 88.259135	Gomostapur,	34	0.07	73	391	0.56	0.005	30	7.1	55	328	0.53	-	-
145	N 24.781522	E 88.261060	Gomostapur,	28	0.05	47	326	0.49	0.002	33	7.4	63	294	0.36	-	-
146	N 23.207339	E 89.250651	Sadar, Jashore	37	0.12	56	472	0.29	0.003	26	7.6	45	279	0.7	0	0
147	N 23.178932	E 89.252742	Sadar, Jashore	29	0.08	47	362	0.35	0.002	37	7.1	74	351	0.03	0	0
148	N 23.212563	E 89.247937	Sadar, Jashore	32	0.06	48	312	0.33	0.001	40	7.4	53	298	0.06	0	0
149	N 22.909615	E 89.227572	Keshabpur, Jashore	64	0.13	51	429	0.61	0.001	37	7.3	66	275	0.03	0	0
150	N 22.915219	E 89.257261	Keshabpur, Jashore	39	0.07	61	431	0.63	0.005	32	7.4	58	309	0.42	0	0
151	N 22.904464	E 89.290150	Keshabpur, Jashore	59	0.06	53	476	0.31	0.002	35	7.2	45	359	0.22	0	0
152	N 22.896488	E 89.319737	Keshabpur, Jashore	53	0.11	49	336	0.49	0.003	40	7.2	34	383	0.08	0	0
153	N 22.907228	E 89.287374	Keshabpur, Jashore	35	0.06	41	312	0.37	0.005	32	7.1	39	346	0.33	0	0
154	N 22.911667	E 89.324195	Keshabpur, Jashore	62	0.15	79	419	0.47	0.002	16	7.2	78	403	0.09	0	0
155	N 23.559164	E 89.487396	Sreepur, Magura	170	0.001	30	585	0.24	<0.002	32	7.1	32.1	292	0.03	0	0
156	N 23.528746	E 89.497604	Sreepur, Magura	150	0.005	26	485	0.84	<0.001	25	7.1	36.4	242	0.03	0	0
157	N 23.425610	E 89.343758	Sadar, Magura	495	0.001	55	860	0.27	<0.003	50	7	32.6	430	0.03	0	0
158	N 23.429218	E 89.366013	Sadar, Magura	412	0.002	50	792	0.45	<0.001	46	7.1	35	395	0.03	0	0

159	N 26.122159	E 88.817142	Domar , Nilphamari	43	0.09	51	378	0.32	0.004	37	7.1	58	302	0.29	0	0
160	N 26.129726	E 88.809559	Domar , Nilphamari	57	0.12	63	290	0.46	0.003	22	7.5	51	378	0.32	0	0
161	N 26.16289	E 88.79691	Domar , Nilphamari	37	0.06	51	323	0.45	0.001	32	7.3	49	334	0.38	0	0
162	N 26.195198	E 88.795800	Domar , Nilphamari	49	0.07	68	352	0.42	0.003	36	7.2	59	358	0.26	0	0
75%																
163	23°15'35.5"N	89°39'53.3"E	Bazra, Alfadanga	50	0.005	40	670	6.6	<0.01	24	7.3	23	335	0.03	0	0
164	23°16'15.7"N	89°40'08.8"E	Stock Yard, Alfadanga	56	0.014	25	340	0.15	<0.01	21	8	20	170	0.03	0	0
Method of Analysis				**Titrimetric**	**AAS**	**Titrimetric**	**Multimeter**	**AAS**	**AAS**	**AAS**	**PH meter**	**AAS**	**Gravimetric**	**AAS**	**-**	**-**
Bangladesh Standard				**-**	**0.05**	**150-600**	**-**	**0.3-1**	**0.05**	**30-35**	**6.5-8.5**	**200**	**1000**	**5**	**0/100 mL**	**0/100 mL**

47. Statistical Analysis and Graphical Representation:

Following graphs represent the concentrations of groundwater quality parameters at different phases of construction during the reporting period (Jul-Dec, 2024).

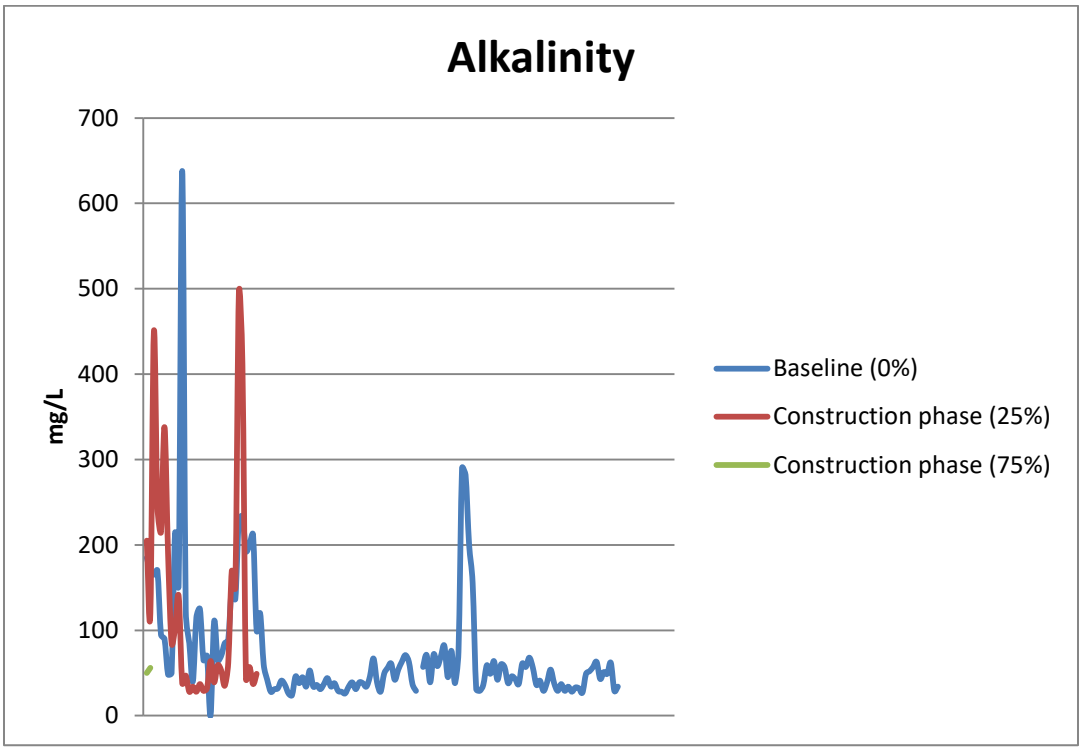

Figure 15: Alkalinity of groundwater at different phases of construction during Jul-Dec, 2024

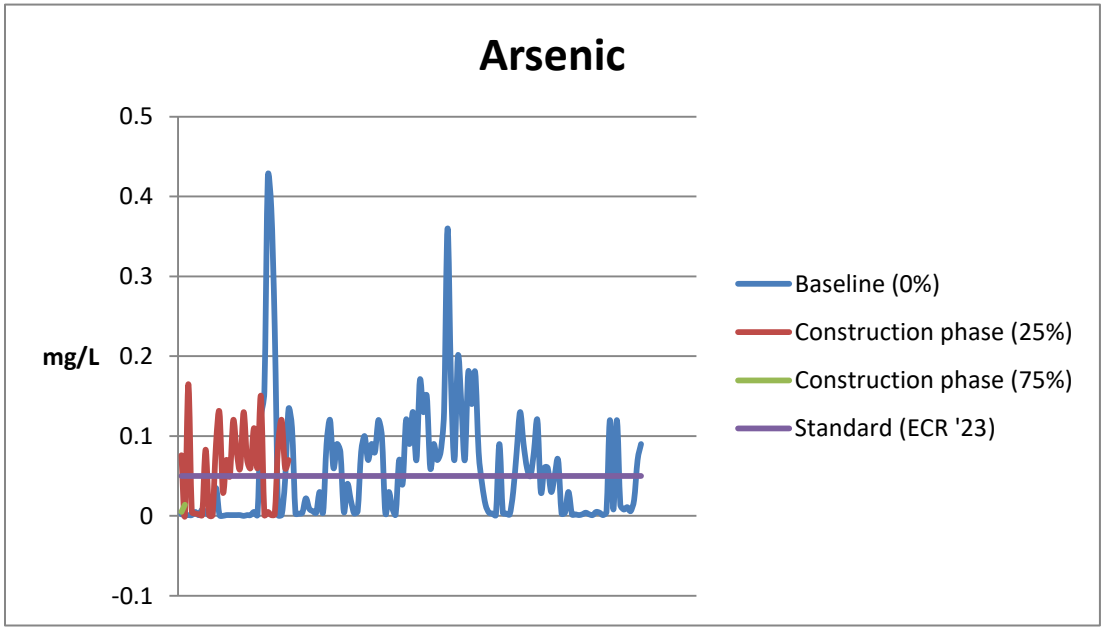

Figure 16: Arsenic (As) concentrations of groundwater at different phases of construction during Jul-Dec, 2024

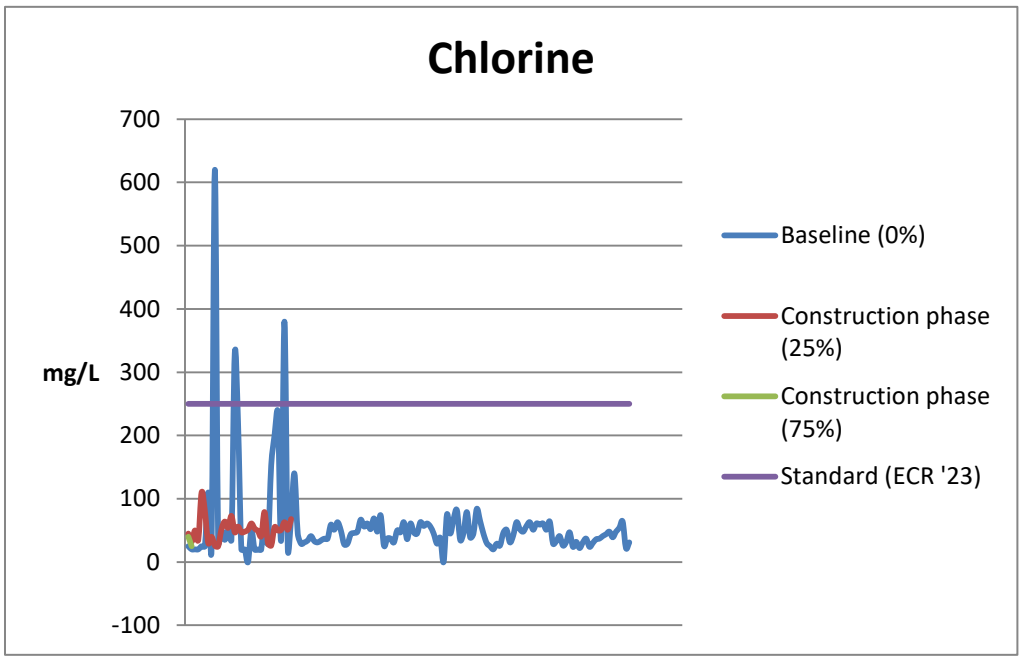

Figure 17: Chlorine (Cl) concentrations of groundwater at different phases of construction during Jul-Dec, 2024

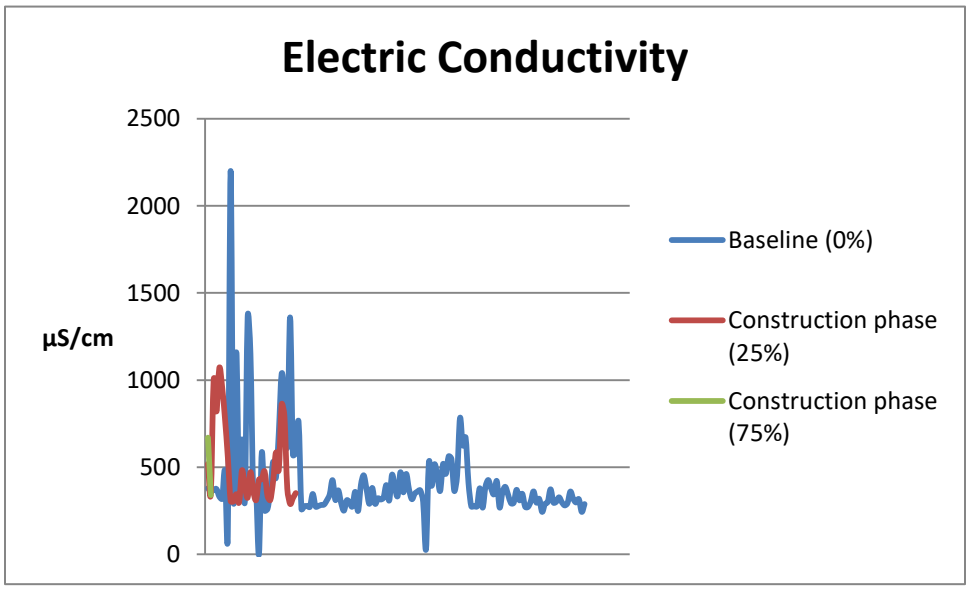

Figure 18: Electric Conductivity (EC) of groundwater at different phases of construction during Jul-Dec, 2024

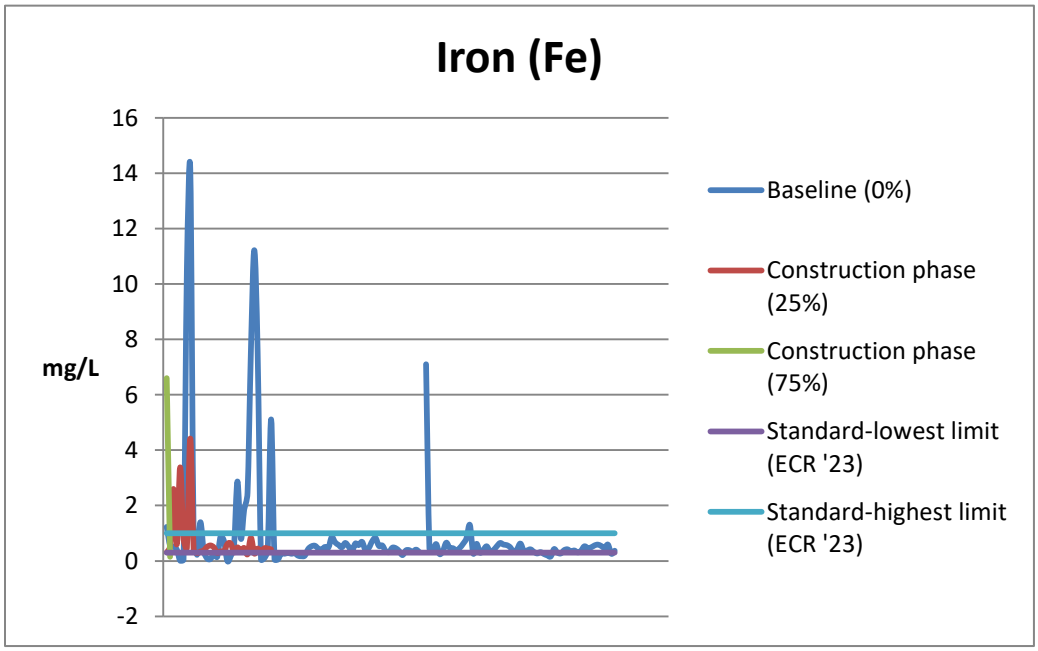

Figure 19: Iron (Fe) concentrations of groundwater at different phases of construction during Jul-Dec, 2024

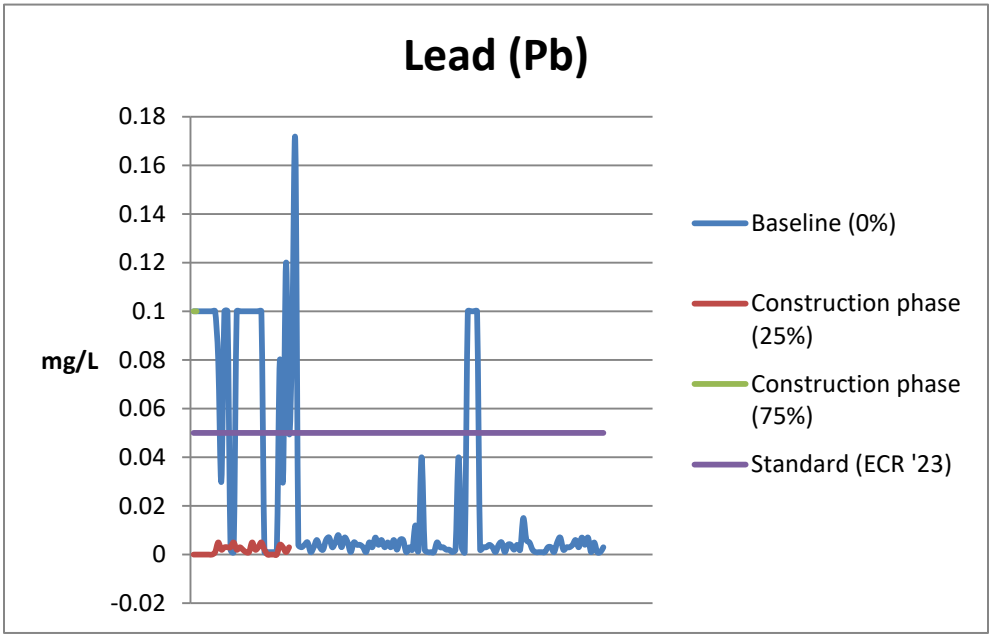

Figure 20: Lead (Pb) concentrations of groundwater at different phases of construction during Jul-Dec, 2024

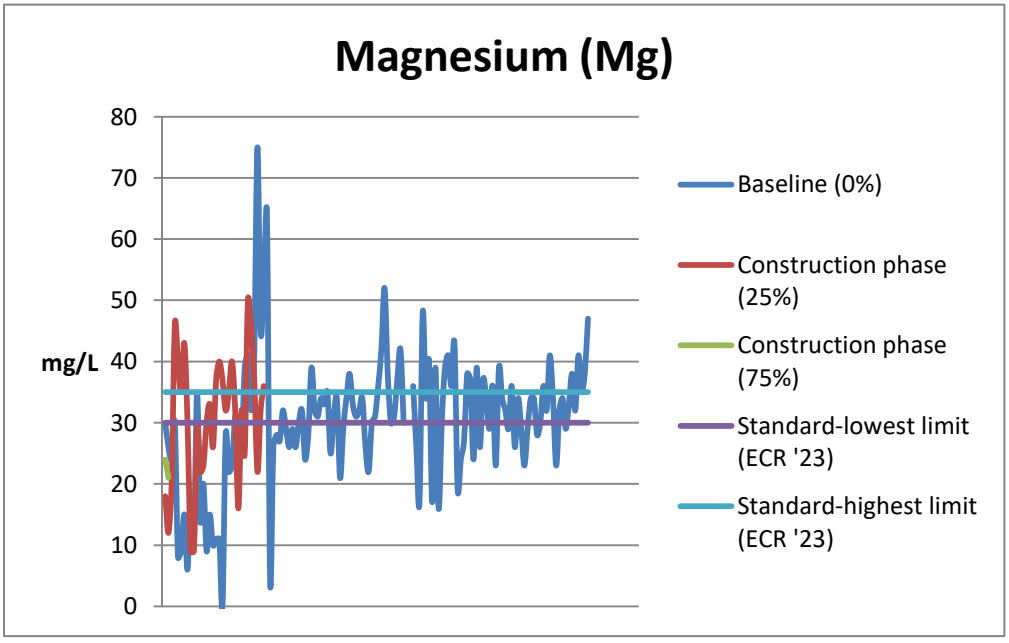

Figure 21: Manganese (Mn) concentrations of groundwater at different phases of construction during Jul-Dec, 2024

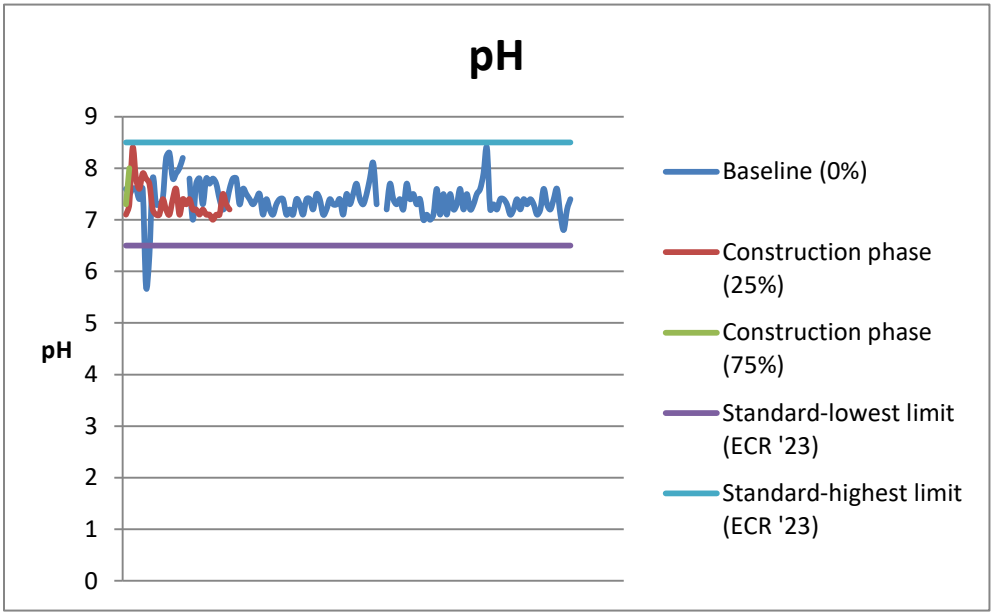

Figure 22: pH values of groundwater at different phases of construction during Jul-Dec, 2024

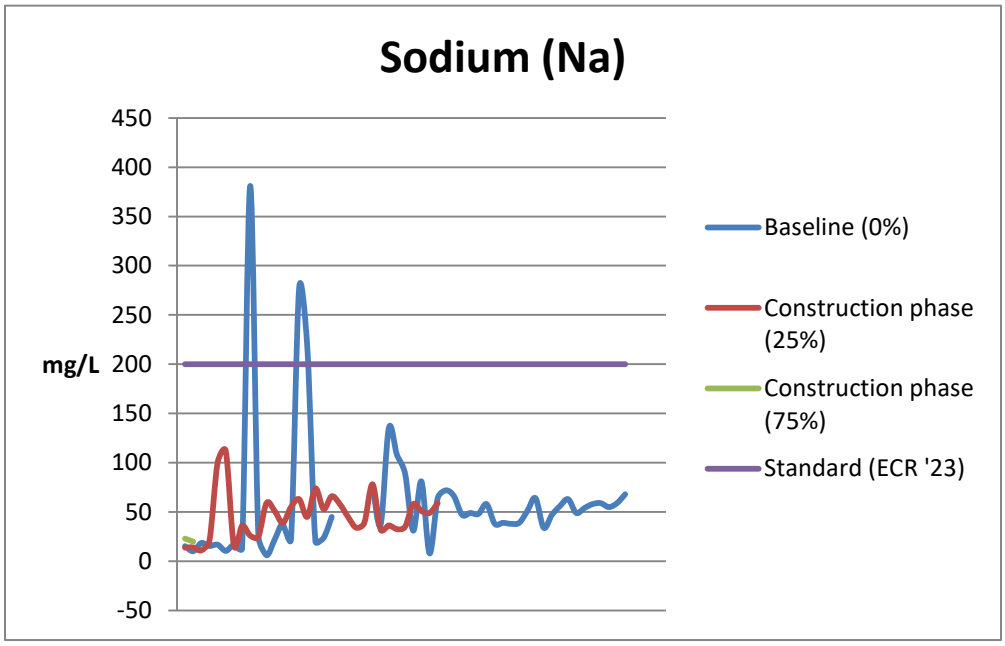

Figure 23: Sodium (Na) concentrations of groundwater at different phases of construction during Jul-Dec, 2024

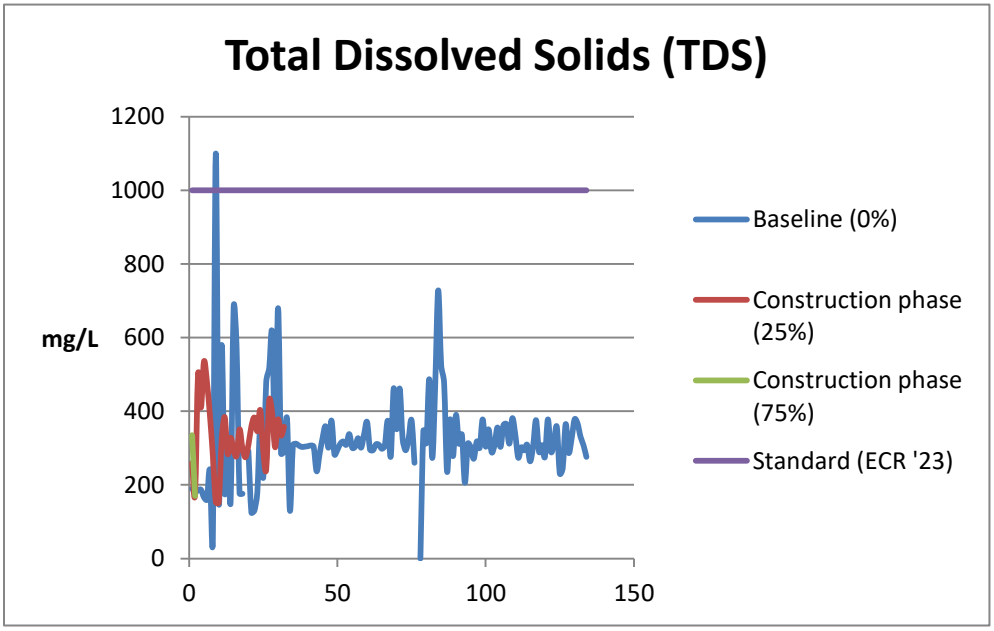

Figure 24: TDS concentrations of groundwater at different phases of construction during Jul-Dec, 2024

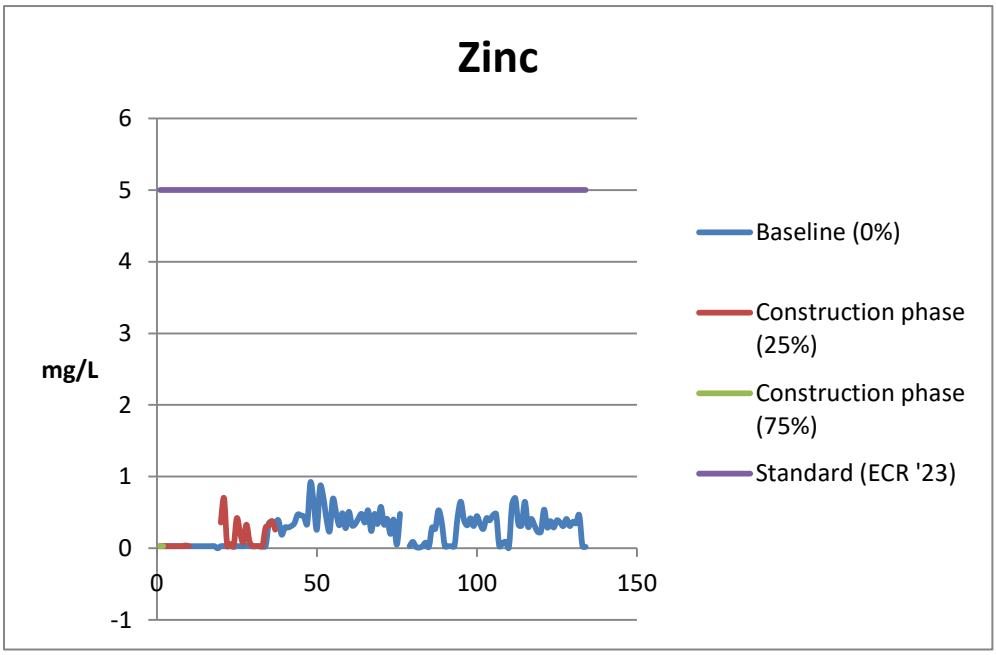

Figure 25: Zinc (Zn) concentrations of groundwater at different phases of construction during Jul-Dec, 2024

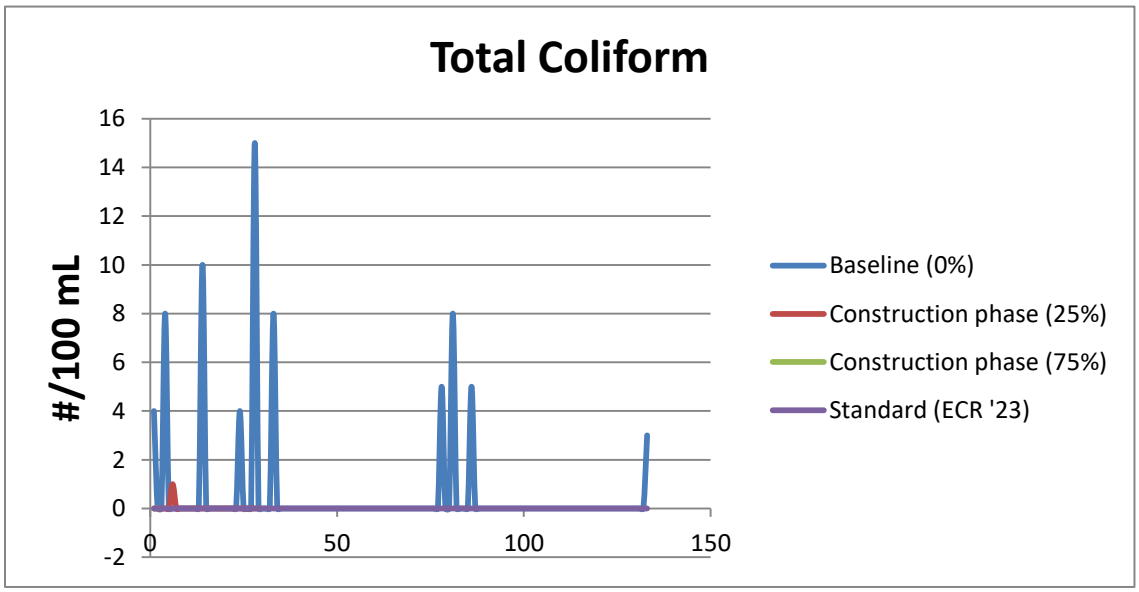

Figure 26: **Total Coliform (TC) concentrations of groundwater at different phases of construction during Jul-Dec, 2024**

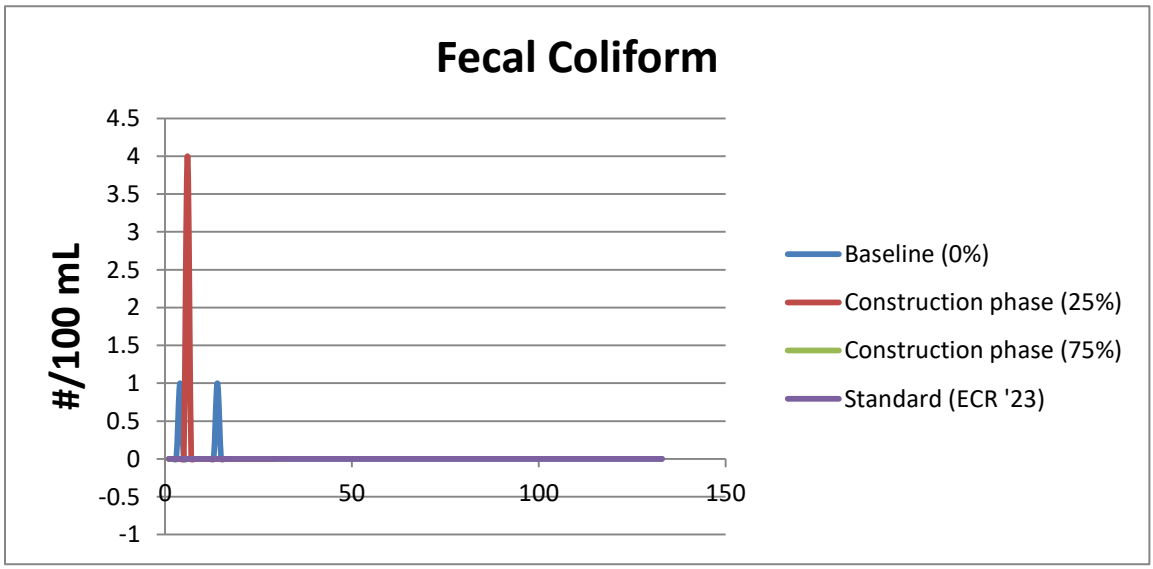

Figure 27: **Fecal Coliform (FC) concentrations of groundwater at different phases of construction during Jul-Dec, 2024**

Comments on Ground Water Results and Justification for deviation from allowable standards:

48. From the test results it can be seen that at several locations, Arsenic (As), Iron (Fe), Chlorine (Cl), Magnesium (Mg), Sodium (Na), Lead (Pb), Total Coliform (TC) and Fecal Coliform (FC) concentrations exceed the limits set by DoE. All of these three elements are found in varying concentrations in all over Bangladesh. Arsenic and Iron pollution problems of Bangladeshi groundwater are well known and this is known to occur due to natural conditions. For these reasons we can see that most of the deviations happened during baseline stage. Following are the explanation for natural phenomena that causes Arsenic, Iron and Magnesium pollution of Bangladeshi groundwater:

49. **Arsenic (As):** Arsenic contamination of groundwater in Bangladesh has been recognized as a major public problem. The arsenic contamination was first identified in the tubewell water in 1993 in a northern district of Bangladesh. Tubewells are the main source of drinking water in rural areas, and except hilly and terrace upland throughout the Bangladesh, the arsenic-contaminated tubewells are distributed. The source and method of arsenic entering the groundwater in Bangladesh is a controversial issue and has yet to be determined. But it is now widely believed that the high arsenic levels in the groundwater in Bangladesh have a natural geological source which may be due to abstraction water from quaternary confined and semi-confined alluvial or deltaic aquifers. A large number of diverse chemical and biological reactions, viz. oxidation, reduction, adsorption, precipitation, methylation and volatilization participate actively in the cycling of this toxic element in the groundwater table.

50. **Iron (Fe):** Iron in rural groundwater supplies is a common problem. The iron occurs naturally in the aquifer but levels in groundwater can be increased by dissolution of ferrous borehole and hand pump components. Iron-bearing groundwater is often noticeably orange in color, causing discoloration of laundry, and has an unpleasant taste, which is apparent in drinking and food preparation. For treatment for dissolved iron natural process of oxidation, through the use of aeration, i.e., injecting air into the water prior to the tap to precipitate iron could be good solution. Chlorine is also an effective oxidizer and will cause iron to precipitate, plus it provides protection from microbial contaminants. Removing iron from groundwater within water filters is also good and easy technic.

51. **Magnesium (Mg):** Magnesium is an alkaline earth metal that is generally one of the most abundant cations in groundwater. It is common in sedimentary rocks, particularly limestone, as well as in soils, and is essential in plant and animal nutrition. Dietary magnesium is also important to human health. However, magnesium contributes to water hardness; so high magnesium concentrations may make groundwater unacceptable for some domestic uses.

52. **Total Coliform (TC) and Fecal Coliform (FC):** TC and FC are found naturally in Bangladeshi groundwater. Ganguli et al in their paper titled "Groundwater Pollution in Bangladesh: A Review" (2021) wrote that:
Total coliform bacteria are very common in nature and a large group of bacteria are found. With some exceptions, most of them are harmless (USEPA, 2013). Bacteria known as faecal coliforms (FC) reside in the faeces, while Escherichia coli belong to FC (Karim et al., 2016). Escherichia coli and Fecal coliforms (FC) bacteria are important indicators detecting the level of health risk and potential water borne diseases in drinking water (Saha et al., 2019b). Presence of these microorganisms in water may cause several diseases like diarrhea, cholera, dysentery, gastroenteritis, typhoid fever, nausea, vomiting, headaches and fatigue (Okullo et al., 2017). Most study areas contained coliform bacteria and Escherichia coli were detected in Khulna, Barguna, Jessore and Narayangonj districts (Table 4). Islam et al., (2001) found the existence of microbial contamination in the deep way back at Chandpur district (Table 4). Also noteworthy, other groups reported bacterial presence in Jamalpur, Tangail, Netrokona, and Kishoreganj in 2018 as well as Rajshahi in 2020 and Narayunganj, Chittagong, Noakhali and Patuakhali in 2021.
Hossain et al (2023) found that Fecal Coliform contamination in Bangladeshi groundwater is widespread.

53. In conclusion there is no chemical or other process in the construction activities of RCIP that can contribute the groundwater pollution with Arsenic, Iron, Magnesium, Chlorine, Sodium, Lead, TC and FC. So, these problems are entirely due to natural conditions.

CHAPTER 6: ENVIRONMENTAL MANAGEMENT PLAN (EMP)

I. Objective and Cost

54. The EMP was prepared to mitigate environmental risks and impacts of the project. The EMP contains the agreement between LGED and ADB detailing the implementation of mitigation measures, monitoring program, cost estimates, and institutional arrangement to ensure that no significant adverse impacts results from the project intervention. The basic objectives of the EMP are:
    - establish the roles and responsibilities of all parties involved in the project's environmental management;
    - ensure implementation of recommended actions aimed at environmental management and its enhancement; and
    - Ensure that the environment and its surrounding areas are protected and developed to meet the needs of the local communities including other stakeholders and safeguard and the interests of the common people.

55. The total environmental management plan implementation is 0.6% of the total civil works cost. The following items have been incorporated in the BOQ for each sub-project.

Table 11: Items incorporated in the BOQ for each sub-project

Item	Description of Items	Unit	Quantity	Unit Rate, Taka
1	Providing and Maintaining adequate potable water supply as per instruction of EIC (Engineer-in-charge) water Supply Tube well 01 no.	Nos.	One per site	25000
2	Providing and maintaining adequate portable water supply, sanitation, and cleanliness facilities at camp site and work site to the entire satisfaction of EIC. Temporary Toilet: Construction of temporary toilets in work site/rest area complete as per design and specifications and approved by the EIC. There should be 1 camp in each site. In each camp, there should be 1 no of toilet for women and 1 no of toilet for men	Nos.	Two per site	13000
3	Dust suppression measures at unpaved road surface or any other place suspect to dust blowing	km	As per length of the road	2500
4	Air Quality: Periodic air quality monitoring during construction stage at construction sites, batching plants, crusher plants (if specifically established for	LS	As per sample required	36000

Item	Description of Items	Unit	Quantity	Unit Rate, Taka
	Project), at major settlement areas along project site. The parameters to be monitored are suspended particulate matter (SPM), respirable particulate matter (RPM), sulfur dioxide (SO_2) and oxides of nitrogen (NOx), carbon monoxide (CO), Lead (Pb). Each monitoring schedule shall be over duration of 24 hours (in 8 hour shifts) for three seasons per year. [As per the Environmental monitoring plan referred in the Environment Impact Assessment]			
5	Water Quality: Water quality monitoring during construction phase at locations. The sampling shall be carried out for three seasons per year and cover all parameters as per WHO's Guidelines for Drinking-Water Quality including heavy metals. [As per the Environmental monitoring plan referred in the Environment Impact Assessment]	LS	As per sample required	12000
6	Noise Quality: Noise quality monitoring at specified silent receptors along Project Road, at construction camp sites, batching plants, crusher plants (if specifically established for Project), and at major settlement areas along project road. Each monitoring schedule shall be over a duration of 12hours (6AM to 6PM) for three seasons per year. [As per the Environmental monitoring plan referred in the Environment Impact Assessment]	LS	As per sample required	4800
7	Maintain First Aid box at camp site to the entire satisfaction of the EIC.	LS	Two per site	6000

56. In each of the bidding documents of the signed contracts a general Environmental Management Plans (EMP) is included. The contractors are fully aware of their responsibilities and requirements for compliance to environmental safeguards.

II. EMP Implementation

57. Contractors are recruiting environmental focal persons and third party organizations for the preparation of the Site Specific Environmental Management Plan (SSEMP). Environment Focal Persons from PE and contactor and in co-ordination with DES have prepared SSEMP for the following packages listed in Table 15.

58. SSEMP describes how the contractors will mitigate all the site specific impacts properly following the EMP. The local representatives are helping them to monitor the compliance for taking action promptly. Contractors are bound to build the infrastructure as per the Specified Drawing & Design. The authority will entertain any complaint regarding any issue from the individuals and ready to redress the grievance in time through GRC.

Table 12: Summary of the SSEMP

Package Number/	**SSEMP submitted by the contractor?**		**SSEMP preparation under process?**	
Name	Y	N	Y	N
CW-03(a)/RCIP/RJS	√			
CW-03(b)RCIP/RJS	√			
CW-03(c)/RCIP/RJS	√			
CW-31(b)/RCIP/RJS	√			
CW-31(c)/RCIP/RJS	√			
CW-46(a)/RCIP/RJS	√			
CW-46(b)/RCIP/RJS	√			
CW-46(c)/RCIP/RJS	√			
CW-47(a)/RCIP/RJS	√			
CW-47(b)/RCIP/RJS	√			
CW-32(a)/RCIP/CNWB	√			
CW-32(b)/RCIP/CNWB	√			
CW-15/RCIP/ NTR	√			
CW-49(a)/RCIP/NTR	√			
CW-49(b)/RCIP/NTR	√			
CW-49(c)/RCIP/NTR	√			
CW-16/RCIP/BGR	√			
CW-50(a)/RCIP/BGR	√			
CW-50(b)/RCIP/BGR	√			
CW-50(c)/RCIP/BGR	√			
CW-50(d)/RCIP/BGR	√			
CW-14/RCIP/NAO	√			
CW-48(b)/RCIP/NAO	√			
CW-48(c)/RCIP/NAO	√			
CW-48(e)/RCIP/NAO	√			
CW-33/RCIP/JOY	√			
CW-04(a)/RCIP/DNJ	√			

CW-04(b)/RCIP/DNJ	√			
CW-36/ RCIP/DNJ	√			
CW-52(a)/RCIP/DNJ	√			
CW-52(b)/RCIP/DNJ	√			
CW-52(c)/RCIP/DNJ	√			
CW-52(d)/RCIP/DNJ	√			
CW-53(a)/RCIP/DNJ	√			
CW-53(b)/RCIP/DNJ	√			
CW-53(c)/RCIP/DNJ	√			
CW-37/RCIP/PAN	√			
CW-55(a)/RCIP/PAN	√			
CW-55(b)/RCIP/PAN	√			
CW-19(a)/RCIP/TKG.	√			
CW-19(b)/RCIP/TKG	√			
CW-54(a)/RCIP/TKG	√			
CW-54(b)/RCIP/TKG	√			
CW-54(c)/RCIP/TKG	√			
CW-54(d)/RCIP/TKG	√			
CW-20/RCIP/NIL	√			
CW-56(a)RCIP/NIL	√			
CW-56(b)/RCIP/NIL	√			
CW-56(c)/RCIP/NIL	√			
CW-18(a)/ RCIP/RNG	√			
CW-18(b)/ RCIP/RNG	√			
CW-18(c)/ RCIP/RNG	√			
CW-17(a)/RCIP/GBD	√			
CW-17(b)/RCIP/GBD	√			
CW-51(a)/RCIP/GBD	√			
CW-51(b)/RCIP/GBD	√			
CW-34/RCIP/LAL	√			
CW-35(a)/ RCIP/ KUR	√			
CW-35(b)/ RCIP/ KUR	√			
CW-35(c)/RCIP/ KUR	√			
CW-182/RCIP/RJS	√			
CW-183/RCIP/RJS	√			
CW-184/RCIP/RJS		√		

CW-185/RCIP/RJS	√			
CW-171/RCIP/CNWB	√			
CW-172/RCIP/CNWB	√			
CW-180/RCIP/NTR	√			
CW-181/RCIP/NTR	√			
CW-169/RCIP/BGR	√			
CW-170/RCIP/BGR	√			
CW-176/RCIP/NAO	√			
CW-177/RCIP/NAO	√			
CW-178/RCIP/NAO			√	
CW-179/RCIP/NAO	√			
CW-173/RCIP/JOY			√	
CW-174/RCIP/JOY			√	
CW-175/RCIP/JOY			√	
CW-186/RCIP/DNJ	√			
CW-187/RCIP/DNJ		√		
CW-188/RCIP/DNJ		√		
CW-189/RCIP/DNJ		√		
CW-190/RCIP/DNJ		√		
CW-191/RCIP/DNJ		√		
CW-200/RCIP/PAN	√			
CW-201/RCIP/PAN	√			
CW-202/RCIP/PAN			√	
CW-203/RCIP/PAN	√			
CW-204/RCIP/PAN			√	
CW-208/RCIP/TKG	√			
CW-209/RCIP/TKG	√			
CW-210/RCIP/TKG	√			
CW-211/RCIP/TKG	√			
CW-212/RCIP/TKG	√			
CW-213/RCIP/TKG	√			
CW-214/RCIP/TKG	√			
CW-198/RCIP/NIL	√			
CW-199/RCIP/NIL	√			
CW-205/RCIP/RNG	√			
CW-206/RCIP/RNG	√			

CW-207/RCIP/RNG	√			
CW-192/RCIP/GBD	√			
CW-196/RCIP/LAL		√		
CW-197/RCIP/LAL	√			
CW-35(d)/RCIP/KUR	√			
CW-193/RCIP/KUR	√			
CW-194/RCIP/KUR	√			
CW-195/RCIP/KUR		√		
CW-166/RCIP/NRL	√			
CW-167/RCIP/NRL	√			
CW-168/RCIP/NRL			√	
CW-155/RCIP/JSR		√		
CW-156/RCIP/JSR			√	
CW-157/RCIP/JSR			√	
CW-158/RCIP/JHN			√	
CW-159/RCIP/JHN			√	
CW-163/RCIP/MGR	√			
CW-164/RCIP/MGR			√	
CW-160/RCIP/KST		√		
CW-161/RCIP/KST		√		
CW-162/RCIP/KST			√	
CW-152/RCIP/CHU			√	
CW-153/RCIP/CHU			√	
CW-154/RCIP/CHU			√	
CW-165/RCIP/MHR		√		
CW-133/RCIP/FRD	√			
CW-134/RCIP/FRD	√			
CW-135/RCIP/FRD	√			
CW-136/RCIP/FRD	√			
CW-137/RCIP/FRD	√			
CW-138/RCIP/GPJ	√			
CW-139/RCIP/GPJ	√			
CW-140/RCIP/GPJ	√			
CW-141/RCIP/GPJ	√			
CW-101/RCIP/CTG	√			
CW-102/RCIP/CTG	√			

CW-109/RCIP/CTG	√			
CW-105/RCIP/CTG	√			
CW-106/RCIP/CTG	√			
CW-107/RCIP/CTG	√			
CW-108/RCIP/CTG	√			
CW-110/RCIP/COX	√			
CW-111/RCIP/COX	√			
CW-112/RCIP/COX	√			
CW-41(d)/RCIP/CUM	√			
CW-41(e)/RCIP/CUM	√			
CW-114/RCIP/CUM	√			
CW-118/RCIP/CUM	√			
CW-119/RCIP/CUM	√			
CW-121/RCIP/CUM	√			
CW-123/RCIP/CUM	√			
CW-61(c)/RCIP/BBR	√			
CW-61(d)/RCIP/BBR	√			
CW-91/RCIP/BBR	√			
CW-92/RCIP/BBR			√	
CW-93/RCIP/BBR			√	
CW-94/RCIP/BBR	√			
CW-96/RCIP/BBR			√	
CW-97/RCIP/CDP			√	
CW-98/RCIP/CDP	√			
CW-99/RCIP/CDP			√	
CW-26c/RCIP/FNI	√			
CW-26d/RCIP/FNI			√	
CW-125/RCIP/FNI	√			
CW-126/RCIP/FNI	√			
CW-127/RCIP/FNI	√			
CW-129/RCIP/LAX	√			
CW-144/RCIP/MAD	√			
CW-145/RCIP/MAD	√			
CW-142/RCIP/MAD	√			
CW-147/RCIP/MAD			√	
CW-149/RCIP/SRT	√			

CW-150/RCIP/SRT	√			

III. Summary of Quantitative and Qualitative Monitoring Data

59. In order to consolidate the overall safeguard compliance (qualitative and quantitative monitoring data) of all subproject packages are being implemented at 34 districts, activity wise a common checklist in line with project IEE, was provided to all Assistant Residential Engineers (AREs) to collect the EMP implementation status with the assistance of Field Supervision Engineer (FSEs) and contractor's environmental focal person. This data collection process were monitored and guided closely by the divisional environmental specialist. Further, photography of the environmental compliance and non-compliance issues were collected in the monitoring period. Identified non-compliance issues in the subproject area were considered for corrective measures which represent in the succeeding table.

Table 13: Summary of Quantitative and Qualitative Monitoring

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
Bogura	Dhunot, Sherpur&Sariakandi.	CW-16/RCIP/BGR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Shajahanpur	CW-50(a)/RCIP/BGR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Sonatola& Sadar Upazila	CW-50(b)/RCIP/BGR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Adamdighi	CW-50(c)/RCIP/BGR	Yes	Work completed	- NA	Contractor	FSE& ARE in coordination with DES
	Kahaloo	CW-50(d)/RCIP/BGR	Yes	Work completed	- NA	Contractor	FSE& ARE in coordination with DES
	Adamdigi	CW-169/RCIP/BGR	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Dhupchancia Shajahanpur	CW-170/RCIP/BGR	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
C. Nobabgonj	Gomastapur	CW-32(a)/RCIP/CNWB	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Nachol, Sadar	CW-32(b)/RCIP/CNWB	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar Shibganj	CW-171/RCIP/CNWB	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Gomostapur Nachole	CW-172/RCIP/CNWB	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
Jessore	Monirampur	CW-12/RCIP/JSR	No	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Chowgacha, Sadar&Jhikargacha	CW-21/RCIP/JSR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Monirampur	CW-43(a)/RCIP/JSR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
	Jhikargacha	CW-44(a)/RCIP/JSR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Bagharpara &Sarsha	CW-44(b)/RCIP/JSR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Bagherpara	CW-44(c)/RCIP/JSR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Sharsha	CW-155/RCIP/JSR	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-156/RCIP/JSR	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
	Keshabpur	CW-157/RCIP/JSR	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES

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						Implementation	Supervision
Jhenidaha	Kotchandpur	CW-27/RCIP/JHN	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Moheshpur	CW-27/RCIP/JHN	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Kaligonj	CW-27/RCIP/JHN	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-27/RCIP/JHN	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Harinakunda	CW-27/RCIP/JHN	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar & Horinakundo	CW-158/RCIP/JHN	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
	Kaliganj	CW-159/RCIP/JHN	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES

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						Implementation	Supervision
Narail	Kalia	CW-166/RCIP/NRL	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Kalia	CW-167/RCIP/NRL	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-168/RCIP/NRL	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
Thakurgoan	Sadar Baliadangi	CW-19a/RCIP/TKG	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-54c/RCIP/TKG	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Baliadangi.	CW-19b/RCIP/TKG	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES

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	Haripur	CW-54b/RCIP/TKG	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Pirganj Ranisankail	CW-54.d/RCIP/TKG	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Baliadangi	CW-54.a/RCIP/TKG	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-208/RCIP/TKG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-209/RCIP/TKG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-210/RCIP/TKG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Haripur	CW-	Yes	Environmental compliances have been	Regular monitoring of EMP	Contractor	FSE& ARE in

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
		211/RCIP/TKG		fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel		coordination with DES
	Baliadangi	CW-212/RCIP/TKG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Baliadangi	CW-213/RCIP/TKG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Baliadangi	CW-214/RCIP/TKG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
Magura	Mohammadpur	CW-28(a)/RCIP/MGR	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES

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	Salikha	CW-28(c)/RCIP /MGR.	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-163/RCIP /MGR	Yes	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring.	Contractor	FSE& ARE in coordination with DES
	Sadar & Sreepur	CW-164/RCIP /MGR	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
Joypurhat	Panchbibi Akkelpur Sadar Khetlal Kalai	CW-33/RCIP/JOY	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Akkelpur	CW-173/RCIP /JOY	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES

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	Sadar & Panchbibi	CW-174/RCIP/JOY	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
	Kalai	CW-175/RCIP/JOY	No	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring. Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
Chuadanga	Sador and Jibonnagor	CW-02/RCIP/CHU.	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Alamdanga	CW-45(a)/RCIP/CHU.	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Damurhuda	CW-45(b)/RCIP/CHU.	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Damurhuda	CW-45(c)/RCIP/CHU.	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Damurhuda & Jibannagar	CW-152/RCIP/CHU	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
				site. Cautionary road signs were found.	level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.		
	Alamdanga	CW-153/RCIP/CHU	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
	Alamdanga	CW-154/RCIP/CHU	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
Meherpur	Mujibnagar & Sadar	CW-165/RCIP/MHR	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
				found. First aid box found available at site. Cautionary road signs were found.	should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.		
Kushtia	Bharamara	CW-13cRcip/Kst	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Daulatpur	CW-13cRcip/Kst	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Khoksha	CW-13aRcip/Kst	Yes	Yes	Work completed	Contractor	FSE& ARE in coordination with DES
	Daulatpur & Mirpur	CW-160/RCIP/KST	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-161/RCIP/KST	No	Work has just started, labor shed not built yet & no sanitation facilities for the worker.	As soon as possible labor shed shall be constructed. Mitigation measures suggested in the EMP are to comply.	Contractor	FSE& ARE in coordination with DES

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	Khoksha	CW-162/RCIP/KST	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
Rangpur	Mithapukur	CW-18a/RCIP/RNG	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Pirganj Pirgacha	CW-18b/RCIP/RNG	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Badarganj Gangachara	CW-18c/RCIP/RNG	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Mithpukur Pirgacha	CW-205/RCIP/RNG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Gangachara	CW-206/RCIP/RNG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water	Regular monitoring of EMP Regular monitoring of EMP implementation ensuring that good practices are enduring.	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
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				found. First aid box found available at site. Cautionary road signs were found.			
	Pirganj	CW-207/RCIP/RNG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
Gaibandha	Sadullapur	CW-51a/RCIP/GBD	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar, Sundarganj	CW-51b/RCIP/GBD.	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Gobindagonj Saghata	CW-17a/RCIP/GBD	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES
	Saghata Palashbari	CW-17b/RCIP/GBD	Yes	Work completed	NA	Contractor	FSE& ARE in coordination with DES

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	Gobindaganj	CW-192/RCIP/GBD	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
Rajshahi	Godagari	CW-03(a)/RCIP/RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Godagari	CW-03(b)/RCIP/RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Godagari	CW-03(c)/RCIP/RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Bagha	CW-31(c)/RCIP/RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Charghat Putia	CW-31(b)/RCIP/RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Dugapur	CW-31(a)/RCIP/RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES

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	Paba Tanore	CW-46(a)/ RCIP / RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Tanore	CW-46(b)/ RCIP / RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Tanore	CW-46(c)/ RCIP / RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Tanore Mohonpur	CW-47(a)/ RCIP / RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Bagmara	CW-47(b)/ RCIP / RJS	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Godagari	CW-182/RCIP /RJS	Yes	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring.	Contractor	FSE& ARE in coordination with DES

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	Bagha	CW-183/RCIP/RJS	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Paba Durgapur	CW-185/RCIP/RJS	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Charghat	CW-184/RCIP/RJS	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
Naogaon	Atrai	CW-48(e)/RCIP/NAO	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Manda	CW-48(c)/RCIP/NAO	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
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	Atrai	CW-48(d)/RCIP/NAO	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Atrai	CW-48(a)/RCIP/NAO	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Mohadevpur Patnitala	CW-14/ RCIP/ NAO	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Niamotpur	CW-48(b)/ RCIP/ NAO	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Atrai	CW-176/RCIP/NAO	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Niamatpur	CW-177/RCIP/NAO	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Mohadevpur Patnitala	CW-178/RCIP/NAO	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
				sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.		
	Shapahar	CW-179/RCIP/NAO	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
Nilphamari	Jaldhaka Jaldhaka Dimla	CW-20/RCIP/NIL	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Domar	CW-56(a)RCIP/NIL	Yes	Work Completed	Contractor must submit Environmental Quality Monitoring Report (75%) as soon as possible.	NA	FSE& ARE in coordination with DES
	Sadar	CW-56(b)/RCIP/NIL	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Sayadpur	CW-56(c)/RCIP/NIL	Yes	Work Completed	Contractor must submit Environmental Quality Monitoring Report (75%) as soon as possible.	Contractor	FSE& ARE in coordination with DES

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						Implementation	Supervision
	Domar	CW-198/RCIP/NIL	Yes	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring.	Contractor	FSE& ARE in coordination with DES
	Sadar Kishoreganj	CW-199/RCIP/NIL	Yes	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring.	Contractor	FSE& ARE in coordination with DES
Panchagarh	Debiganj	CW-37 RCIP/PAN	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Atwari	CW-55(a) /RCIP/PAN	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Tetulia Sadar	CW-55(b)/ RCIP/PAN	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
	Sadar	CW-200/RCIP/PAN	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Atwari	CW-201/RCIP/PAN	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Atwari	CW-202/RCIP/PAN	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
	Tetulia	CW-203/RCIP/PAN	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
	Debganj Boda	CW-204/RCIP/PAN	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
Kurigram	Fulbari Nageshwari Bhurungamari	CW-35(a)/RCIP/KUR	No	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar Rajarhat	CW-35(b)/RCIP/KUR	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Rowmari	CW35(C)/RCIP/KUR	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-35(d)/RCIP/KUR	Yes	Environmental compliances have been fully complied. Labor shed with potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	Regular monitoring of EMP implementation ensuring that good practices are enduring.	Contractor	FSE& ARE in coordination with DES
	Bhurungamari	CW-193/RCIP	Yes	Environmental compliances have been fully complied. Labor shed with	Regular monitoring of EMP implementation ensuring that	Contractor	FSE& ARE in coordination

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
		/KUG		potable water and sanitation facilities, PPEs, first aid box, cautionary sign board found in order. Use of the PPEs at working site management is satisfactory;	good practices are enduring.		with DES
	Ulipur	CW-194/RCIP/KUG	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Rajarhat	CW-195/RCIP/KUG	No	Work has just started, labor shed not built yet & no sanitation facilities for the worker.	As soon as possible labor shed shall be constructed. Mitigation measures suggested in the EMP are to comply.	Contractor	FSE& ARE in coordination with DES
Natore	Bagatipara Singra	CW-15/RCIP/NTR	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Baraigram	CW-49.(a)/RCIP/NTR	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Gurudaspur	CW-49.(b)/RCIP/NTR	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Lalpur	CW-49(c)/RCIP/NTR	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
	Sadar	CW-180/RCIP/NTR	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Sadar Singra	CW-181/RCIP/NTR	No	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel Contractor must submit SSEMP and Environmental Quality Monitoring Report as soon as possible.	Contractor	FSE& ARE in coordination with DES
Dinajpur	Sadar	CW-04(a)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-04(b)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
	Khansama Chirirbandar	CW-36/ RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Fulbari Parbatipur	CW-52(a)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Fulbari	CW-52(b)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Nawabgonj	CW-52(c)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Parbatipur	CW-52(d)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Birgonj	CW-53(a)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
	Kaharol	CW-53(b)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Bochaganj	CW-53(c)/RCIP/DNJ	Yes	Work Completed	NA	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-186/RCIP/DNJ	Yes	Environmental compliances have been fully complied. Use of PPEs by the construction workers were found proper. Labor shed with adequate sanitation facilities and potable water found. First aid box found available at site. Cautionary road signs were found.	Regular monitoring of EMP implementation ensuring that good practices are enduring. To uphold the safeguard compliance at working site frequent field visit should be conducted by the field level technical personnel	Contractor	FSE& ARE in coordination with DES
	Birampur Nawabgonj	CW-187/RCIP/DNJ	No	Work has just started, labor shed not built yet & no sanitation facilities for the worker.	As soon as possible labor shed shall be constructed. Mitigation measures suggested in the EMP are to comply.	Contractor	FSE& ARE in coordination with DES
	Birganj	CW-188/RCIP/DNJ	No	Work has just started, labor shed not built yet & no sanitation facilities for the worker.	As soon as possible labor shed shall be constructed. Mitigation measures suggested in the EMP are to comply.	Contractor	FSE& ARE in coordination with DES
	Bochaganj	CW-189/RCIP/DNJ	No	Work has just started, labor shed not built yet & no sanitation facilities for the worker.	As soon as possible labor shed shall be constructed. Mitigation measures suggested in the EMP are to comply.	Contractor	FSE& ARE in coordination with DES
	Birol	CW-190/RCIP/DNJ	No	Work has just started, labor shed not built yet & no sanitation facilities for the worker.	As soon as possible labor shed shall be constructed. Mitigation measures suggested in the EMP are to comply.	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
	Birol	CW-191/RCIP/DNJ	No	Work has just started, labor shed not built yet & no sanitation facilities for the worker.	As soon as possible labor shed shall be constructed. Mitigation measures suggested in the EMP are to comply.	Contractor	FSE& ARE in coordination with DES

District	Upazila	Package No	SSEMP Status	Summary of Monitored Qualitative and Quantitative data	Comments	Responsible Party for	
						Implementation	Supervision
Cumilla	Debidwar	CW-41(d)/RCIP/CUM	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Chouddagram	CW-41(e)/RCIP/CUM	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

	Monohorganj	CW-114/RCIP/CUM	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Homna	CW-118/RCIP/CUM	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Muradnagar		Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Barura	CW-119/RCIP/CUM	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

	Debidwar	CW-121/RCIP/CUM	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.		
	Monohorganj & Laksham	CW-123/RCIP/CUM	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.		
Feni	Sadar	CW-26(c)/RCIP/FNI	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.		
	Sadar	CW-26(d)/RCIP/FNI	No	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.		

	Dagonbhuinyan	CW-125/RCIP/FNI	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Porshuram	CW-126/RCIP/FNI	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Sonagazi & Sadar	CW-127/RCIP/FNI	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
Laxmipur	Ramgoti & Komolnagar	CW-129/RCIP/LAX	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

Gopalganj	Sadar	CW 138/RCIP/GPJ	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Kashiani	CW 139/RCIP/GPJ	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Kotwalipara and Tungipara	CW 140/RCIP/GPJ	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Muksudpur	CW 141/RCIP/GPJ	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

Chandpur	Kachua and Shahrasti	CW-97/RCIP/CDP	No	No labor shed or toilets found. Wrokers are not wearing PPEs regularly. Dust management is poor. First aid boxes are present.	Contractor must submit SSEMP as soon as possible. ES, ARE and FSE will guide the contractor to follow EMP suggestions properly.	Contractor	FSE& ARE in coordination with DES
	Haziganj & Faridganj	CW-99/RCIP/CDP	No	No labor shed or toilets found. Wrokers are not wearing PPEs regularly. Dust management is poor. First aid boxes are present.	Contractor must submit SSEMP as soon as possible. ES, ARE and FSE will guide the contractor to follow EMP suggestions properly.	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-98/RCIP/CDP	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
Brahmanbaria	Nabinagar	CW-61(c)/RCIP/BBR	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

	Bancharampur	CW-61(d)/RCIP/BBR	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Brahmanbaria	CW-91/RCIP/BBR	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Bancharampur	CW-92/RCIP/BBR	No	No labor shed or toilets found. Wrokers are not wearing PPEs regularly. Dust management is poor. First aid boxes are present.	Contractor must submit SSEMP as soon as possible. ES, ARE and FSE will guide the contractor to follow EMP suggestions properly.	Contractor	FSE& ARE in coordination with DES
	Nabinagar	CW-94/RCIP/BBR	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

	Nasirnagar and Bijoynagar	CW-96/RCIP/BBR	No	No labor shed or toilets found. Wrokers are not wearing PPEs regularly. Dust management is poor. First aid boxes are present.	Contractor must submit SSEMP as soon as possible. ES, ARE and FSE will guide the contractor to follow EMP suggestions properly.	Contractor	FSE& ARE in coordination with DES
Madaripur	Shibchar	CW-142/RCIP/MAD	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-144/RCIP/MAD	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Sadar & Rajoir	CW-145/RCIP/MAD	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

Cox'sBazar	Chakaria	CW-110/RCIP/COX	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Ramu	CW-111/RCIP/COX	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-112/RCIP/COX	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
Chattogram	Satkania	CW-101/RCIP/CTG	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

	Boalkhali	CW-102/RCIP/CTG	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Mirsharai	CW-105/RCIP/CTG	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES
	Bashkhali	CW-106/RCIP/CTG	No	No labor shed or toilets found. Wrokers are not wearing PPEs regularly. Dust management is poor. First aid boxes are present.	Contractor must submit SSEMP as soon as possible. ES, ARE and FSE will guide the contractor to follow EMP suggestions properly.	Contractor	FSE& ARE in coordination with DES
	Hathazari	CW-108/RCIP/CTG	Yes	Labor shed with toilets found. Workers are wearing PPEs regularly. All environmental practices are being followed regularly.	Regular monitoring by DES, ARE and FSE should be conducted to maintain environmental compliance.	Contractor	FSE& ARE in coordination with DES

	Mirsharai	CW-109/RCIP/CTG	Yes	No labor shed or toilets found. Wrokers are not wearing PPEs regularly. Dust management is poor. First aid boxes are present.	Contractor must submit SSEMP as soon as possible. ES, ARE and FSE will guide the contractor to follow EMP suggestions properly.	Contractor	FSE& ARE in coordination with DES
Faridpur	Saltha	CW-133/RCIP/FRD	Yes	Labor shed with toilets are found. Workers are not wearing PPEs regularly. Dust management is not done regularly. First aid boxes are present.	Contractor must follow the EMP suggestions properly. Regular monitoring by ES, ARE and FSE must be done to make the contractor implement EMP properly.	Contractor	FSE& ARE in coordination with DES
	Nagarkanda	CW-133/RCIP/FRD	Yes	Labor shed with toilets are found. Workers are not wearing PPEs regularly. Dust management is not done regularly. First aid boxes are present.	Contractor must follow the EMP suggestions properly. Regular monitoring by ES, ARE and FSE must be done to make the contractor implement EMP properly.	Contractor	FSE& ARE in coordination with DES

	Modhukhali	CW-134/RCIP/FRD	Yes	Labor shed with toilets are found. Workers are not wearing PPEs regularly. Dust management is not done regularly. First aid boxes are present.	Contractor must follow the EMP suggestions properly. Regular monitoring by ES, ARE and FSE must be done to make the contractor implement EMP properly.	Contractor	FSE& ARE in coordination with DES
	Bhanga	CW-135/RCIP/FRD	Yes	Labor shed with toilets are found. Workers are not wearing PPEs regularly. Dust management is not done regularly. First aid boxes are present.	Contractor must follow the EMP suggestions properly. Regular monitoring by ES, ARE and FSE must be done to make the contractor implement EMP properly.	Contractor	FSE& ARE in coordination with DES
	Bhadrasan	CW-136/RCIP/FRD	Yes	Labor shed with toilets are found. Workers are not wearing PPEs regularly. Dust management is not done regularly. First aid boxes are present.	Contractor must follow the EMP suggestions properly. Regular monitoring by ES, ARE and FSE must be done to make the contractor implement EMP properly.	Contractor	FSE& ARE in coordination with DES

	Alfadanga	CW-137/RCIP/FRD	Yes	Labor shed with toilets are found. Workers are not wearing PPEs regularly. Dust management is not done regularly. First aid boxes are present.	Contractor must follow the EMP suggestions properly. Regular monitoring by ES, ARE and FSE must be done to make the contractor implement EMP properly.	Contractor	FSE& ARE in coordination with DES
Shariatpur	Bhedargonj	CW-149/RCIP/SRT	Yes	Labor shed with toilets are found. Workers are not wearing PPEs regularly. Dust management is not done regularly. First aid boxes are present.	Contractor must follow the EMP suggestions properly. Regular monitoring by ES, ARE and FSE must be done to make the contractor implement EMP properly.	Contractor	FSE& ARE in coordination with DES
	Sadar	CW-150/RCIP/SRT	Yes	Labor shed with toilets are found. Workers are not wearing PPEs regularly. Dust management is not done regularly. First aid boxes are present.	Contractor must follow the EMP suggestions properly. Regular monitoring by ES, ARE and FSE must be done to make the contractor implement EMP properly.	Contractor	FSE& ARE in coordination with DES

Rajbari	Kalukhali & Sadar	CW-147/RCIP/MAD	No	No labor shed or toilets found. Wrokers are not wearing PPEs regularly. Dust management is poor. First aid boxes are present.	Contractor must submit SSEMP as soon as possible. ES, ARE and FSE will guide the contractor to follow EMP suggestions properly.	Contractor	FSE& ARE in coordination with DES

FSE: Field Supervision Engineer, PISC
ARE: Assistant Residential Engineer, PISC
DES: Divisional Environmental Specialist, PISC
SSS: Senior Safeguard Specialist, PISC

IV. Summary of Key Issues and Remedial Actions:

Form July- December 2024 following key environmental management issues and their subsequent remedial actions with pictorial evidences are presented in the following table:

Package: CW-201/RCIP/PAN

Name of activities	Type of non-compliances recorded	Date of corrective action request (CAR)	Compliance Status at the Reporting Period	Photo before Rectification	Photo after Rectification
Road work	Lack of proper PPEs	12.11.2024	Compliant		

Package: CW-209/RCIP/TKG

Name of activities	Type of non-compliances recorded	Date of corrective action request (CAR)	Compliance Status at the Reporting Period	Photo before Rectification	Photo after Rectification
Road work	Lack of First Aid Box at working site	04.12.2024	Compliant		

Package: CW-156/RCIP/JSR

Name of activities	Type of non-compliances recorded	Date of corrective action request (CAR)	Compliance Status at the Reporting Period	Photo before Rectification	Photo after Rectification
Road work	Absence of Cautionary sign & signal man	30.10.2024	Compliant		

Package: CW-183/RCIP/RJS

Name of activities	Type of non-compliances recorded	Date of corrective action request (CAR)	Compliance Status at the Reporting Period	Photo before Rectification	Photo after Rectification
Road work	Absence of Dustbin	17.09.2024	Compliant		

Package: CW-134/RCIP/FRD

Environmental Aspect	Compliance Status at the Reporting Period	Type of non-compliances recorded	Corrective (CA) Actions Required	Date of corrective action request (CAR)	Photographic evidence	
Materials storage	Non-Compliant	Materials stored roadside blocking traffic	Remove stored materials from roadside and put in stackyard	22.09.24		

Package: CW-134/RCIP/FRD

Environmental Aspect	Compliance Status at the Reporting Period	Type of non-compliances recorded	Corrective (CA) Actions Required	Date of corrective action request (CAR)	Photographic evidence	
Dust Generation	Non-Compliant	Dust generated due to material spillage on the road during traffic movement	1.Regular water sprinkling on the road 2. Cover stockpiles of materials with tarpaulin during transportation	22.09.24		

Package: CW-135/RCIP/FRD

Environmental Aspect	Compliance Status at the Reporting Period	Type of non-compliances recorded	Corrective (CA) Actions Required	Date of corrective action request (CAR)	Photographic evidence	
Health and Safety	Non-Compliant	Road workers are not using PPEs	Proper usage of PPEs must be ensured	15.10.24		

V. Summary of accident/incident

Following table presents the summary of accident/incident from the period of July- December 2024:

Table 14: Accident/Incident Register

SI	Description	From July- December 2024	Till December 2024
	Fatal Accidents	0	0
	Lost Time Injury (LTI)	Not recorded	Not recorded
	Medical Treatment (MT)	0	0
	First Aid Cases (FAC)	05	69
	Health Incidents	0	0
	Fire/Explosion	0	0
	Security Incident	0	5
	Near Miss	0	35
	Environment (EN)	0	0
	Tool Box Talks	Every Workday Morning	Every Workday Morning

VI. Training on Health and Safety and Implementation of EMP

Informal Trainings

60. As part of field visit conducted for carrying out the compliance monitoring regular informal training sessions are arranged at the field. These informal trainings are generally conducted by the Divisional Environmental Specialists (DES). The PIU staff, site technical personnel, the contractor's representatives & labors remain present in these informal training sessions, where the following are taught:

(i) Environmental protection and pollution prevention; Compliance with the project Environmental Management Plan (EMP)
(ii) Health and safety Issues (wearing of PPE, hand washing, safe distancing norms etc.
(iii) Strict implication of "Health Safety Rules" (Covid respiratory hygiene) to break the chain of in the transmission of contagious Delta variant (use of non-contact infrared thermometer, immunization of tools & tackles, inoculation campaign etc.)
(iv) Development of healthy environment in the "Labor Shed" area, amid a spike in the mosquito borne disease.
(v) Gender parity to develop greater empathy which develops congenial working environment (masculine dominancy, discrimination, exclusion & injustice free wage structure and recruitment policy)

(vi) In the labor shed arrangement of potable water, proper waste disposal management, beds with social distancing, array of "isolation room" for labors irrespective of sex, should be there. Labor shed should be free from sexual violence.

61. The informal training sessions generally focus on the occupational health and safety issues at work place and at the labor sheds. Besides environmental impacts caused by the noise, dust, vibrations, variant of the Corona virus and other environmental concerns were also discussed. The mitigation
62. mechanism was taught to avert it. Formal Training program in a wider sphere will be arranged, soon after the pandemic wanes. One training for implementation of EMP at field level shall be arranged in each division involving the PIU staff, contactor technical person, PISC field level officials. Some photographs of conducted informal trainings at field level on EMP implementation and health and safety issues are shown in below.

63. The outcomes of the informal training sessions are as followed:

(i) The participants learned to be health cautious as the contagious Delta/Omicron variant is engulfing the hinterlands.

(ii) Not to defy the health safety issues for their own health protection.

(iii) Wearing of PPE, keeping social distancing, practicing of hand washing, use of immunized tools & tackles and practice to measure body temperature using the non-contact infrared thermometer (before leaving the labor shed & at work) is to be adopted for their own wellbeing.

(iv) In the work place female labors have the equal right in enrollment (gender balance) and in getting the wages. It should be liberated from discrimination, exclusion & injustice. The work site should be free from "masculine dominancy" for a higher productivity.

(vii) Labors have the fundamental right in the labor shed to have potable water, proper waste disposal management, beds with social distancing, array of isolation room etc.

(v) The labor shed should be an ideal place to reside after work, which is free from gender based violence.

64. Summary of informal trainings conducted during the reporting period are provided below.

Table 15: Summary of informal trainings conducted during the reporting period

Sl.	Training Title	Date	Venue/ Package name	Category of Participants	No. of Participant		
					Male	Female	Total
1	Environment, Health &	06.07. 2024	CW-182/RCIP/RJS	Contractor Representative	09	03	12

Sl.	Training Title	Date	Venue/ Package name	Category of Participants	No. of Participant		
					Male	Female	Total
	Safety			and Workers			
2	Environment, Health & Safety	10.07.2024	CW-179/RCIP/NAO	Contractor Representative and Workers	06	07	13
3	Environment, Health & Safety	21.07.2024	CW-170/RCIP/BGR	Contractor Representative and Workers	11	00	11
4	Environment, Health & Safety	06.03.2024	CW-170/RCIP/BGR	Contractor Representative and Workers	12	00	12
5	Environment, Health & Safety	29.08. 2024	CW-156/RCIP/JSR	Contractor Representative and Workers	07	00	07
6	Environment, Health & Safety	24.09.2024	CW-206/RCIP/RNG	Contractor Representative and Workers	08	04	12
7	Environment, Health & Safety	12.10.2024	CW-209/RCIP/ TKG	Contractor Representative and Workers	06	04	10
8	Environment, Health & Safety	17.11.2024	CW-164/RCIP/MGR	Contractor Representative and Workers	08	00	08
9	Environment, Health & Safety	27.11.2024	CW-186/RCIP/DNJ	Contractor Representative and Workers	03	02	05
10	Environment, Health & Safety	10.12.2024	CW-185/RCIP/RJS	Contractor Representative and Workers	07	00	07
11	Environment, Health & Safety	9.09.2024	CW-134/RCIP/FRD	Contractor Representative and Workers	15	6	21
12	Environment, Health & Safety	10.09.2024	CW-141/RCIP/GPJ	Contractor Representative and Workers	11	5	16
13	Environment, Health & Safety	11.09.2024	CW-138/RCIP/GPJ	Contractor Representative and Workers	5	2	7
14	Environment, Health & Safety	12.09.2024	CW-140/RCIP/GPJ	Contractor Representative and Workers	4	0	4
15	Environment, Health & Safety	17.09.2024	CW-145/RCIP/MDR	Contractor Representative and Workers	5	0	5
16	Environment, Health & Safety	18.09.2024	CW-144/RCIP/MDR	Contractor Representative and Workers	7	1	8
17	Environment, Health & Safety	19.09.2024	CW-149/RCIP/SRT	Contractor Representative and Workers	5	3	8

Sl.	Training Title	Date	Venue/ Package name	Category of Participants	No. of Participant		
					Male	Female	Total
18	Environment, Health & Safety	21.10.24	CW-147/RCIP/RAJ	Contractor Representative and Workers	10	3	13
19	Environment, Health & Safety	27.10.24	CW-101/RCIP/CTG	Contractor Representative and Workers	14	2	16
20	Environment, Health & Safety	28.10.24	CW-102/RCIP/CTG	Contractor Representative and Workers	11	3	14

Figure 28: Informal training on Health and Safety and EMP implementation at Work Sites

VII. Road Safety Awareness Campaign

65. RCIP has conducted many road safety awareness campaigns. Following are the details:

Table 16: **School Based Road Safety Awareness Campaign.**

Name of the Event	Number	Category of Participants	Number of Participants		
			Male	Female	Total
School Based Awareness Campaign on Road safety Programmed	07	Students, teachers, SMC members, Guardians, LGI representatives, Journalists	671	965	1636

Name of the Event	Number	Category of Participants	Number of Participants		
			Male	Female	Total
		and Civil Society representatives.			

66. Following school based road safety awareness programs were held throughout the project sites:

Table 17: Dates and Venues of Road safety awareness campaigns

Date	Venue	Guest and Resource persons
10 September 2022	Hasandondi Government Primary School in Chandanish Upazila of Chattogram District	Tofazzel Hossain, Suparentendent Engineer, LGED, Chattogram Region Mr. Akm Amiruzzaman, XEN, LGED, Chattogram District, Md. Mahbubur Rahman, XEN, LGED Divisional Office Chattogram, Alhaz Mohammad Abdul Zabbar, Upazila Chairman, Chandanish Upazila, Mohammad Monjur Rashid, Deputy Project Director, RCIP, LGED HQ, Nasreen Akter, UNO, Chandanish Upazila, and, Md. Shakawat Hossain, Upazila Primary Education Officer of Chandanish Upazila, Zuniad Absar Chowdhury, Upazila Engineer, LGED, Chandanish Upazila, Md. Zafrul Quddus, Training Specialist, RCIP, LGED HQ, Md. Arif Hossain, Media Officer, RCIP, LGED
28 September 2022	Satirpara Government Primary School in Bijoynagar Upazila of Brahmanbaria District	Shiraju Islam, Executive Engineer, LGED, Brahmanbaria district. Nasdima Mukai Ali, Upazila Chairman of Bijoynagar Upazila, AH Irfan Uddin, UNO, Bijoynagr Upazila, Md. Monsur Ali, DPD, RCIP, LGED HQ, Shahnewaz Parveen , Upazila Primary Education Officer, Bijoynagr Upazila, Md. Zafrul Quddus, Training Specialist, RCIP, LGED HQ, Akand Shahidul Alam, Social Safeguard and Gender Specialist, RCIP, LGED HQ
21 November 2022	Aghore Maloncha Govt. Primary School, Kahalu Upazila of Bogura District	In this awareness campaign, Md Sadrul Ilam, Executive Engineer, LGED, Bogura Region attended as Chief Gest. Mr. Md. Mansur Ali , Deputy Project Director, RCIP, Dhaka, Al Hasibul Hasasn, Upazula Parishad Chairman, Kahalu, Bogura,,Md. Motaher Hossain, Upazila Secondary Education Officer,Kahalu, Bogura, Mr. Md. Jahangir Alom, Upazil;a Primary Education Officer attended as Special Guest in this campaign programme. Flora Nasreen Nazu, Head Master, Aghore Maloncha Govt. Primary School and Mr. Md. Abu Hasan, Head Master, Aghore Maloncha High School attended and assisted the Programme. Mr. Sharid- Shahnewaz UPazila Engineer, Kahalu, Bogura Presided over the campaign programme.
17. January 2023	Mithapur Govt	Upazila Chairman of Madaripur Sadar attended the

Date	Venue	Guest and Resource persons
	Primray School, Madaripur Sadar	awareness campaign as Chief Gest. Md. Manjur Rashid, Deputy Project Director, RCIP, Dhaka, UNO, Madariour Sadar, Upazila Primary Education Officer and Upazila Engineer, LGED , Madaripur Sadar attended as Special Guest, Md . Zafrul Qudduus, Training Specialist, RCIP conducted the inaugural and working sessions.
07 September 2023	Kazolia Govt. Primary School and Kazolia United Academy, Gopp[alganj Sadatr	Executive Engineer of LGED Gopal Ganj District attended the awareness campaign as Chief Gest. Md. Manjur Rashid, Deputy Project Director, RCIP, Dhaka, Upazila Primary Education Officer, Upazila Secendary Education Officer attended as Special Guest. Principle of Kazolia United Academy Chaired the whole programme, Md. Zafrul Qudduus, Training Specialist, RCIP conducted the inaugural and working sessions
12 September 2023	Golokerhut Govt. Primary and High School, Mirsarai, Chattogram	Executive Engineer, LGED, Chattogram District attende the awareness campaign as Chief Gest. Md. Mansur Ali, Deputy Project Director, RCIP, Dhaka, UNO, Mirsarai Upazila, Upazila Primary Education Officer, Mirsarai attended as Special Guest, Upazila Engineer of LGED, Mirsari was Chaired the programme Md. Zafrul Qudduus, Training Specialist, RCIP conducted the inaugural and working sessions
25 September 2023	Ai- Hay Govt. Primary School and Ai- Hay High School, Godagari, Rajshahi	Mr. Mohammad Manjur Rashid, Deputy Project Director, RCIP, Dhaka, Upazila Primary Education Officer, Godagari, Upazila Secondery Education Officer, Godagari attended as Special Guest, Upazila Engineer of LGED, Godagari was Chaired the programme Md . Zafrul Qudduus, Training Specialist, RCIP conducted the inaugural and working sessions

Table 18: Photographs of Road safety Awareness Campaigns

	
Upazila Women Affairs Officer of Gomostapur conducted a training session	*Full plenary of the training programme*

	
Tofazzel Hossain, Superintending Engineer, LGED, Chattogram Region delivered his speech and inaugurated School-based Road Safety Awareness Campaign in Hasandondi, Chandanish.	*Alhaz Mohammad Abdul Zabbar, Upazila Chairman, Chandanish Upazila of Chattogram district delivered his speech as special guests of the programme*
	
Students of Hasandondi Government Primary School screening a video on road at Chandanish in Chattogram	*Students attended rally in Hasandandi Govt. Primary School*

CHAPTER 7: INFORMATION DISCLOSURE AND CONSULTATIONS

67. The construction work at the site is ongoing. Public consultation is an integral part of it. The community organizer from the Upazila office and the safeguard specialist from PISC will conduct the public consultation if necessary.
68. During the preparation of SSEMP by the contractors, stakeholders, local residents and nearby community of the relavent project are always consulted and all of these meetings are recorded by attendance sheet and pictures. Following are some sample pictures of consultation.

Figure 29: Community Consultation

69. Following are the details of consultation sessions held during the reporting period provided in **Table-16**. Sample attendance sheets of several meetings are provided in **Appendix-5**.

Table 19: Consultation meetings conducted during Jul-Dec, 2024

Package	Date of Consultation	Type of Consultation	No. of Participant		
			Male	Female	Total
CW-	18.11.2024	Informal Discussion	10	0	10

Package	Date of Consultation	Type of Consultation	No. of Participant		
			Male	Female	Total
213/RCIP/TKG					
CW-181/RCIP/NTR	05.09.2024	Informal Discussion	10	02	12
CW-110/RCIP/COX	06-07-2024	Informal Discussion	10	0	10
CW-145/RCIP/MDR	13-7-2024	Informal Discussion	10	0	10
CW-150/RCIP/SRT	11-09-2024	Informal Discussion	9	0	9
CW-111/RCIP/COX	07-07-2024	Informal Discussion	10	0	10
CW-111/RCIP/COX	08-07-2024	Informal Discussion	10	0	10
CW-61c/RCIP/BBR	25-08-2024	Informal Discussion	10	0	10
CW-108/RCIP/CTG	19-11-2024	Informal Discussion	9	0	9
CW-142/RCIP/MDR	31 October 2024	Informal Discussion	10	0	10
CW-121/RCIP/CUM	29-10-2024	Informal Discussion	10	0	10

CHAPTER 8: GRIEVANCE REDRESS MECHANISM (GRM)

70. A grievance redress mechanism has already been established to voice and resolve the social and environmental concerns linked to the project, which ensures greater accountability of the project authorities towards the affected persons. This mechanism is not intended to bypass the government's own legal process, but to provide a time-bound and transparent mechanism that is readily accessible to all segments of the affected people. All costs involved in resolving the complaints (meetings, consultations, communication and reporting/information dissemination) will be borne by the project.

71. The GRM is active as it is formed during the project design stage. No complaint has been received yet during this reporting period.

Field-Level Committee

- Head of Upazila Parishad (Chairperson),
- Representative of the Union Parishad
  Concerned LGED Upazila Engineer
- Project Implementation Support Consultant (PISC) field engineer
- Community Organizers
- Contractor's Environmental/Social Focal Person

District-Level Committee

- Executive Engineer PIU
- Concerned LGED Upazila Engineer
- Representative of concerned Upazila Parishad
- PISC Social Expert and Environment Expert
- Contractor's Environmental/ Social Focal Person
- Representatives designated by affected community

Project-Level Committee

- Project Director PMU
- Concerned LGED Executive Engineer
- Finance Representative
- PISC Environment Expert
- PISC Social Development Expert

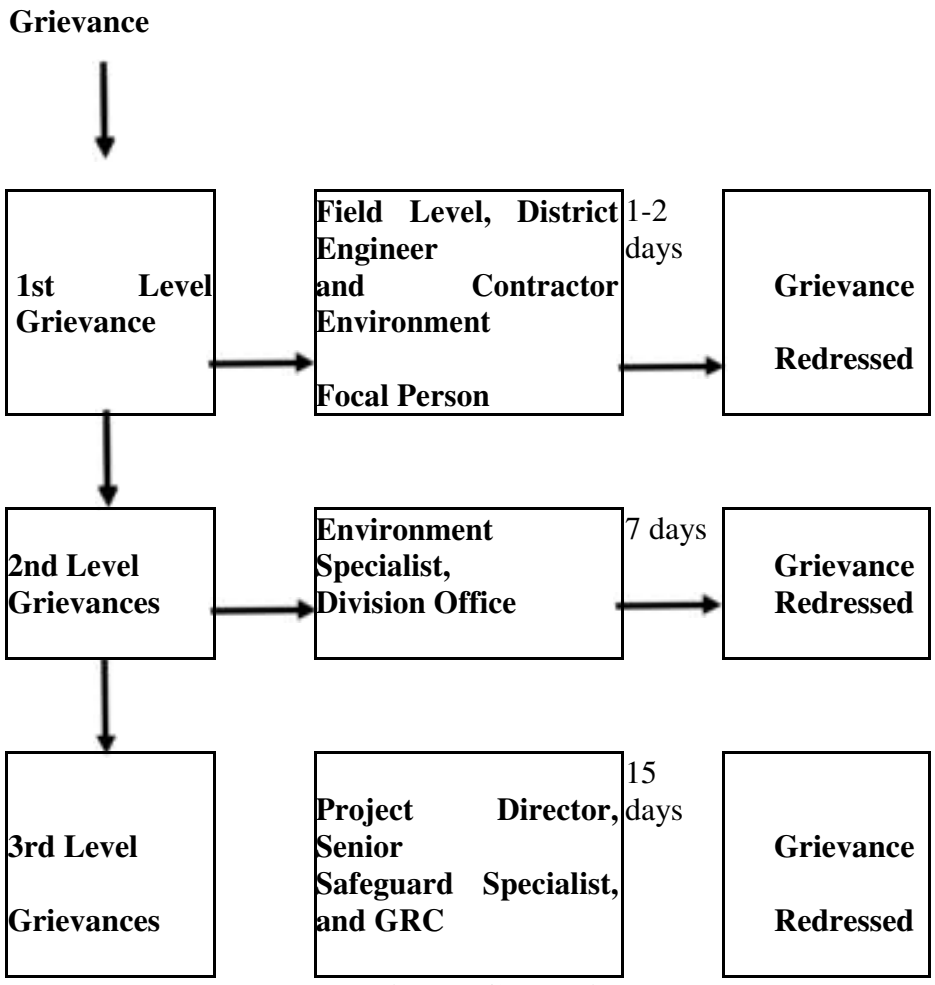

Figure: GRM Diagram

72. **Grievance Redress Mechanism (GRM) publication procedure and Complaint Process:**

Complaint form for GRM has been developed and disseminated in the project upazilla engineer offices. GRM boxes for dropping filled-up complaint forms are placed in every relevant upazilla engineer offices. Blank complaint froms are kept nearby these boxes. When people want to complain, they take these forms, fill them up and drop inside the boxes. The complaint boxes are checked periodically to collect dropped complaint forms. Additionally, PMU officials, AREs and contractor's representatives if faced with aggrieved people while visiting the sites; encourage them to complain through official GRM process. Following are the pictures of official GRM boxes placed in some upazilla LGED offices. GRM complaint forms are attached as **Appendix 3**.

	
GRM complaint boxes placed at Sadar, Thakurgaon	GRM complaint box placed at Sadar, Gopalganj

Figure 30: GRM Complaint Boxes

CHAPTER 9: TREE PLANTATION PROGRAM (TPP)

Total Tree Plantation length is 250 km (as per DPP) in RCIP and upto December 2024, 42.5 KM tree plantation is fully completed detail of which is given in below table. Tree plantation procedure is going slow because the price of trees and labour cost is increased so it has become difficult to implement tree plantaion in previous rate schedule. So PMU is working on new rate schedule for implementation of tree plantation program. Remaining tree plantation will be implemented in new rate schedule, PMU will execute it as soon as possible as per requirement by upazila or district office.
Following table provides detail on the progress in the Tree Plantation Program (TPP).

Table 20: Tree plantation program progress status

Packages	Tree Plantation Plan (Tpp) Prepared (Yes/No)	No. Of Trees Planned to Cut	Trees Planned to Replant As Per Tpp	No. Of Trees Removed	Trees Planted (As of December 2024)	Types Of Species Planted	Plantation Completion Status	Survival Status	Remarks
CW-69/RCIP/TP/CNWB	No	No	NA	0	1602	Herbal, Fruit, Timber	Completed	1492	-
CW-70/RCIP/TP/CNWB	No	No	NA	0	2401	Herbal, Fruit, Timber	Completed	2284	-
CW-71/RCIP/TP/CWNB	No	No	NA	0	2401	Herbal, Fruit, Timber	Completed	2282	-
CW-64(a)/RCIP/TP/RJS	No	No	NA	0	4000	Herbal, Fruit, Timber	Completed	3980	-
CW-64(b)/RCIP/TP/RJS	No	No	NA	0	4000	Herbal, Fruit, Timber	Completed	3970	-
CW- 64(c)/RCIP/TP/RJS	No	No	NA	0	4000	Herbal, Fruit, Timber	Completed	3984	-
CW- 65(a)/RCIP/						Herbal	Complete		

TP/RJS	No	No	NA	0	4000	, Fruit, Timber	d	3980	-
CW- 65(b)/RCIP/ TP/RJS	No	No	NA	0	4000	Herbal, Fruit, Timber	Completed	3964	-
CW- 65(c)/RCIP/ TP/RJS	No	No	NA	0	2806	Herbal, Fruit, Timber	Completed	2520	-
CW-63/ RCIP/TP/ RJS	No	No	NA	0	4000	Herbal, Fruit, Timber	Completed	3974	-
CW-72/RCIP/TP/JSR	No	No	NA	0	801	Herbal, Fruit, Timber	Completed	800	-

Note: Tree plantation has not been progressed in the last six months.

CHAPTER 10: HEALTH AND SAFETY

73. RCIP ensures occupational health and safety for all including workers, engineers, officials and other staff. Both male and female workers are provided with basic accommodation in workers'sheds. These worker's sheds are ensured to be in hygienic and livable condition by regular housekeeping. Separate male and female toilets are provided in each worker's shed.

74. Workers are also provided with potable drinking water facility. This is mainly ensured by having deep tubewell nearby the worker's shed. These tubewell are ensured to be free of pathogens. Drinking water samples are taken from workers sheds during environmental monitoring and tested for Total Coliforms (TC), Fecal Coliforms (FC) and heavy metals such as Arsenic (As) and Lead (Pb). TC, FC and heavy metal (As, Pb etc) test results are shown in **Chapter 5.** Laboratory result sheets for these tests are included in **Annexure 2.** From the results of TC and FC provided in Chapter 5, it can be seen that most of the drinking water samples TC and FC are within standard limits and thus are safe for drinking by the workers.

75. First aid kits are provided in each site. Portable first aid boxes are kept nearby where workers are working. These first aid boxes are provided with bandages, one-time bandages, anticeptic creams and liquid, cottons etc.

76. Workers sheds kitchen wastes are dumped properly in designated waste dumping area of that particular area.

77. Workers are provided with personal protective equipment (PPE) such as helmet, gumboot, gloves, and visible jacket as appropriate to ensure workplace safety. Wroksites are made safe for both workers and local people by barricading the working area with caution tapes.

78. Water is sprayed on the access roads regularly to suppress dust generation. Materials are either covered with tarpulins or sprinkled with water to supress dust generation. Materials are covered while being hauled by trucks to minimize release of dusts in the air and on the roads.

79. Temporary diversion of traffic with cautionary signs, barricades and flagmen are available if necessary.

80. **Checklists:** Contractors are now regulary maintaining following checklists at the site-

    i. Dust management checklist
    ii. Noise Control checklist
    iii. PPE inspection checklist
    iv. Accident/Incident Register
    v. Site Security checklist

Some sample filled-up checklists from different sites are attached in the **Appendix 4.**

81. Following are some pictures showing occupational health and safety management of RCIP in the reporting period:

	
Worker wear PPE at working site Atwari, Panchagarh	Site office with pure drinking water supply facilities at Bagha, Rajshahi
	
Worker wear PPE at working site Baliadangi, Thakurgaon	Use of proper cautionary sign at Sadar, Jashore
	
Cautionary sign and flagman available at Sadar, Thakurgaon	Separate Male & Female toilet at Adamdighi, Bogura

	
Available First Aid facilities at camp site Domar, Nilphamari	Base Camp/ Site office at Sadar, Jashore
	
Labor shed at Sadar, Jashore	First aid box at Modhukhali, Faridpur
	
Cautionary signbaords at Modhukhali, Faridpur	Flagman working beside heavy equipment at Modhukhali, Faridpur
	

Trained first-aider showing how use first aid box at Modhukhali, Faridpur	Workers wearing PPEs at Muksudpur, Gopalganj

Site Office and Labor Shed at CW-41(e), Cumilla

Figure 31: Occupational Health & Safety in Practice

Appendix 1

Government of the People's Republic of Bangladesh
Ministry of Environment, Forest and Climate Change
Department of Environment
Environment Clearance Section
www.doe.gov.bd

Record Number: 22.02.0000.018.72.068.18.49 Date: 03/07/2024

Subject: Renewal of Environmental Clearance Certificate for Rural Connectivity Improvement Project (RCIP) by Local Government Engineering Department (LGED).

Reference: Your Application dated 14/05/2024.

With reference to your above application, the Department of Environment hereby renews the Environmental Clearance in favor of Rural Connectivity Improvement Project (RCIP). Theterms and conditions stated in the Environmental Clearance of the above project issued on 27.05.2018 vide memo no. 22.02.0000.18.72.68.18.341 shall remain valid for the renewed period.

2. This renewal is valid until 26 May, 2025. For further renewal an application along with a) the renewal fees (as per the ECR, 2023) b) VAT on renewal fees (in separate Treasury Chalan) and c) all associated documents shall be submitted to the Head Office of DoE with a copy to Concerned Regional/Divisional Offices at least 30 days ahead of expiry date.

03-07-2024
Masud Iqbal Md Shameem
Director
222218342
direc@doe.gov.bd

Project Director, Rural Connectivity Improvement Project (RCIP), Local Government Engineering Department, Level-6, RDEC Bhaban, Agargaon Sher-E-Bangla Nagar, Dhaka.

Record Number: 22.02.0000.018.72.068.18.49/1 (2) Date: 03/07/2024

(Not in the order of seniority)

Copy for Kind Information and Necessary Action:

1. Department of Environment, Dhaka/ Chattogram Regional/ Khulna/ Rajshahi Divisional Office, Dhaka, Chattogram, Khulna, Bogura. and
2. Office of the Director General, Department of Environment, Head Office, Dhaka.

03-07-2024
Masud Iqbal Md Shameem
Director

APPENDIX 2

Air Quality Monitoring Lab Reports

Noise Quality Monitoring Lab Reports

Water Quality Monitoring Lab Reports

Drinking Water Quality Monitoring Lab Reports

Calibration Certificates

This annex has been provided as separate file named Appendix-2_Env. Quality Monitoring Report.

APPENDIX 3

GRM Complaint Forms

স্থানীয় সরকার প্রকৌশল অধিদপ্তর (এলজিইডি)

রুরাল কানেক্টিভিটি ইমপ্রুভমেন্ট প্রজেক্ট (আরসিআইপি)

অসন্তোষ/ অভিযোগ নিরসন নিবন্ধন ফর্ম

অসন্তোষ/ অভিযোগ নম্বর: তারিখ: সময়:

অভিযোগের বিষয়: _____

১. অভিযোগকারীর নাম: _____

২. পদবী/ পেশা: _____

৩. এনআইডি নম্বর: _____

৪. জেন্ডার: পুরুষ নারী (টিক দিন) ৫. বয়স: _____

৬. মোবাইল নং: _____ ৭. ই-মেইল: _____

৮. অভিযোগকারীর ঠিকানা (হোল্ডিং নং/ ওয়ার্ড নং/ রোড:) _____

৯. অভিযুক্তের নাম (পরিচয় হস্তাক্ষরে): _____

১০. অভিযুক্তের ঠিকানা (হোল্ডিং নং/ ওয়ার্ড নং/ রোড:) _____

১১. অসন্তোষ/ অভিযোগের বর্ণনা: _____

_____

_____

১২. আকাঙ্ক্ষিত ক্ষতিপূরণ বা সমাধানের বর্ণনা: _____

_____

_____

অভিযোগকারীর স্বাক্ষর:

অভিযোগকারীর নাম:

তারিখ: মোবাইল নম্বর:

স্থানীয় সরকার প্রকৌশল অধিদপ্তর (এলজিইডি)

রুরাল কানেক্টিভিটি ইমপ্রুভমেন্ট প্রজেক্ট (আরসিআইপি)

অফিসে ব্যবহার করার জন্য: **অসন্তোষ/ অভিযোগ নম্বর:**

০১. অফিস কর্তৃক গৃহীত পদক্ষেপ:

পদক্ষেপ ১	পদক্ষেপ ২	পদক্ষেপ ৩
সংক্ষিপ্ত বর্ণনা	সংক্ষিপ্ত বর্ণনা	সংক্ষিপ্ত বর্ণনা
পদক্ষেপ গ্রহণকারী কর্মকর্তার নাম: উপজেলা প্রকৌশলী (সংশ্লিষ্ট উপজেলা), এলজিইডি	পদক্ষেপ গ্রহণকারী কর্মকর্তার নাম: নির্বাহী প্রকৌশলী (সংশ্লিষ্ট জেলা), এলজিইডি	পদক্ষেপ গ্রহণকারী কর্মকর্তার নাম: প্রকল্প পরিচালক, আরসিআইপি এলজিইডি, ঢাকা।
অফিস: উপজেলা প্রকৌশলীর অফিস (সংশ্লিষ্ট উপজেলা), এলজিইডি	অফিস: নির্বাহী প্রকৌশলীর অফিস (সংশ্লিষ্ট জেলা), এলজিইডি	অফিস: প্রকল্প পরিচালকের অফিস, আরসিআইপি এলজিইডি, ঢাকা।
তারিখ:	তারিখ:	তারিখ:

০২. চূড়ান্ত প্রস্তাবনা:

০৩. জিআরএম ডেটাবেজে তথ্য লিপিবদ্ধকারী কর্মকর্তার নাম:	স্বাক্ষর:	তারিখ:

স্থানীয় সরকার প্রকৌশল অধিদপ্তর (এলজিইডি)

রুরাল কানেক্টিভিটি ইমপ্রুভমেন্ট প্রজেক্ট (আরসিআইপি)

শুনানীর তথ্য সংরক্ষণের ফর্ম

অভিযোগ গ্রহণের তারিখ: ..... শুনানীর তারিখ: .....

অভিযোগের বিষয়: ..... অভিযোগের ধরন: .....

অভিযোগকারীর নাম: ..... ওয়ার্ড/ হোল্ডিং নম্বর/ গ্রাম: .....

অভিযুক্ত ব্যক্তির নাম: ..... ওয়ার্ড/ হোল্ডিং নম্বর/ গ্রাম: .....

অকাঙ্ক্ষিত সমাধান/ ক্ষতিপূরণ: .....

শুনানির সময়ে গুরুত্বপূর্ণ মতামত:

ক) .....

খ) .....

গ) .....

ঘ) .....

ঙ) .....

শুনানিতে গৃহীত সিদ্ধান্ত: .....

.....

গৃহীত সিদ্ধান্ত নিয়ে অভিযোগকারীর সন্তুষ্টির স্তর:

ক) সন্তুষ্ট। খ) মোটামুটি গ্রহণযোগ্য। গ) অসন্তুষ্ট। ঘ) অগ্রহণযোগ্য (অনুগ্রহপূর্বক টিক দিন)।

উত্থাপিত অসন্তোষ/ অভিযোগের অবস্থা: .....

অভিযোগকারীর স্বাক্ষর: ..... অভিযুক্ত ব্যক্তির স্বাক্ষর: .....

নাম ও পদবি:..... নাম ও পদবি: .....

তারিখ: ..... তারিখ:.....

APPENDIX 4: SAMPLE CHECKLISTS FILLED UP AT DIFFERENT SITES

Dust Control Checklist

Package Name/Number	CW- 1B3/RCIP/DSS			
Road Name	[illegible] GC - Tomaltola GC			
Location	Jhenaidah			
Date	23/12/24			
Name and designation of the person checklist is being completed by	Engr. Md. Masum			Remarks/Corrective Actions
A dust management plan has been prepared and is up todate		✓ Yes	☐ No	
Dust discharges from stockpiles are controlled by water sprinkling or covering		✓ Yes	☐ No	
Dust discharges from access tracks/internal roads are controlled by periodic water sprinkling... If Yes how many times today (Please write in the Remarks column)		✓ Yes	☐ No	2/3/4 time is as per requirement
Dust discharges from exposed areas are controlled by water sprinkling		✓ Yes	☐ No	
No visible dust is observed at the site after control		✓ Yes	☐ No	
Site road access points are regularly cleaned to remove dust that may be a nuisance to neighbours		✓ Yes	☐ No	
Reviewed by (Name, designation and signature)	Md. [illegible] (AEE)			
Dates corrective actions completed	23/12/24			

Site Security Checklist

Package Name	CW-183/RCIP/P3S			
Package number				
Road Name	Digha CIC - Tomaltola Rd.			
Location	Jagsha			
Date	22/12/24			
Name and designation of the person checklist is being completed by	Engr. Md. Masum			Remarks/Corrective Actions
Is the whole site is surrounded with visible coloured tape so that unauthorized people cannot enter?		✓ Yes	□ No	
Are there warning signs about dangers in the construction site for the local people		✓ Yes	□ No	
Are drivers of unrecognized vehicles contacted and confirmed that they should be on the job-site?		✓ Yes	□ No	
Are there uniformed guards utilized to check vehicles entering and leaving the construction site?		✓ Yes	□ No	
Are there storage sheds or fenced areas provided for tools and equipment? • Heavy equipment should be placed in front of storage shed doors to enhance security. • Doors of storage containers facing toward the perimeter of the construction site so that they are easily observed.		✓ Yes	□ No	
Are all vehicles locked and ignition keys removed?		✓ Yes	□ No	
Are all large equipment and other machinery disabled? • Remove spark plugs or batteries • Install a hidden cutout switch		✓ Yes	□ No	
When not in use is equipment parked in a line or circle so that smaller equipment is secured by larger equipment on the ends or perimeter?		✓ Yes	□ No	
When not in use are blades and buckets of ground engaging equipment dropped to the ground to make it difficult to move?		✓ Yes	□ No	
Is the whole site is surrounded with visible coloured tape so that unauthorized people cannot enter?		✓ Yes	□ No	

Reviewed by (Name, designation and signature)	Md. Imamul Arefin (APE)
Dates corrective actions completed	22/12/24

22/12/24

Personal Protective Equipment [PPE] Checklist

PPE is personal and commentaries here must account for each and every individual worker who has to wear such equipment, e.g. body size for clothing; sight impairment for safety-glasses; facial hair for breathing apparatus

Date checklist completed	17/12/2024	Date for review	23/12/2024
Name of person completing checklist	Engr. Md. Mamun		

PPE Checklist	YES	NO
Selection of Personal Protective Equipment [PPE]		
1. Has a risk assessment been done to determine what PPE is required?	☑	☐
2. Have other control measures been implemented for the hazard identified (hierarchy of control) and what are they?	☐	☑
3. Have employees/workers been consulted in the process of selecting PPE for particular tasks?	☑	☐
4. Does the PPE fit properly and is comfortable to wear?	☑	☐
5. Are employees/workers trained in PPE procedures, such as the fit, use and maintenance of PPE?	☑	☐
6. Do employees/workers wear PPE in accordance with the instructions provided?	☑	☐
7. Is the PPE stored in a clean area where it will not be damaged or exposed to contaminants?	☑	☐
8. Is a maintenance program established for PPE and documented?	☑	☐
9. Have medical conditions or physical characteristics of employees/workers been taken into consideration?	☑	☐
Supervision		
10. Has suitable training and resources been provided to Supervisors to enable them to ensure the proper, selection, fit, use, cleaning and maintenance of PPE?	☑	☐
11. Are employees/workers aware of the disciplinary action to be taken if PPE procedures are not adhered to?	☑	☐
12. Has responsibility for supervision and enforcement of the organisations	☑	☐

PPE Checklist	YES	NO
PPE policy and procedures been allocated to a senior manager?	✓	
13. Are Supervisors provided disciplinary powers and appropriate support?	☑	☐
Potential Hazards Requiring PPE		
14. If there is a danger of cuts, or exposure to corrosives, chemicals or infectious materials are protective goggles, gloves, aprons or shields worn?	☑	☐
15. Are hard hats provided where there is a risk of falling objects?	☑	☐
16. Is footwear provided where there is a risk of foot injuries from hot or corrosive substances, crushing or penetrating objects?	☑	☐
17. Are safety glasses, goggles provided for eye protection where there is a risk of flying objects, sparks, and filaments?	☑	☐
18. Is respiratory protection provided in areas where there is exposure to dust, gases, chemicals	☑	☐
19. Is other appropriate PPE provided for hot work, work near traffic, vibration, moving parts?	☑	☐
List additional hazard and PPE identified:		
Signage		
20. Are signs posted in the workplace wherever it is necessary to wear PPE?	☑	☐
21. Is the signage in the mandatory format?	☑	☐
22. Is PPE provided in accordance with the relevant WHS legislation and Australian Standards and stamped accordingly?	☑	☐
Action Required:		

PPE Checklist	YES	NO

Date actions completed: : 23/12/24	
Name: Md. Imamul Arefin	Position: APE
Signature: 23/12/24	

Return completed form to:..... Position

Noise Control Checklist

Package Name/Number	CW - 183 / RCIP / PJS
Road Name	Dogha GC - Tomakhola GC.
Location	Baghia.
Date	22/12/24
Name and designation of the person checklist is being completed by	Engr. Md. Masum

Ask yourself:	**Y**	**N**
Do you need to raise your voice to be heard by a person less than 2m away?		✓
Does your machinery have a label indicating noise levels of 80dB or higher?		✓
Are you exposed to sudden loud noises such as hammer strikes?		✓
Are your colleagues exposed and likely to be adversely affected by the noise you are creating?		✓
Are any of your colleagues complaining of any hearing problems		✓
Do the Local people complain about the noise being created		✓

If you have answered YES to any of the above, you will need to take action:

a. Measure or assess the noise level: a. first identify the source of the noise

b. measure or assess the noise level.

i. do you need to raise your voice to be heard?

ii. identifying the noise levels from the data plate or operator's handbook

iii. measuring using an App downloaded to your phone (Note: these apps are to be used as a general indication only)

iv. employ a professional to assess the noise levels on your behalf.

The method used will depend on the complexity of your workplace, try to keep it as simple as possible.

Having identified you have an unacceptable level of noise; you must now do your best to reduce the level of exposure to an acceptable level. The following hierarchy can help:

Note: if you answer **No** to any of the questions move onto the next question. If you answer **YES**, then put controls in place and re-assess	**Y**	**N**	**Remarks/Corrective Actions**

the level of exposure. If it remains too high, continue down the checklist.		✓	
Remove the source of noise e.g., replace a diesel-powered machine with a battery powered one?		✓	
Separate the person from the noise – put noisy equipment in an acoustic room/chamber?		✓	
Soundproof noisy parts of a machine, keep engine covers/compartments closed?		✓	
Use screens or barriers in the workplace to deflect noise?		✓	
Control the amount of time workers are exposed to noise?		✓	
Design the workplace to separate noisy equipment and designate noise protection areas and enforce wearing ear protection?		✓	

If you have not succeeded to reduce the noise level/exposure to an acceptable level, you must now provide protective equipment.

When selecting and providing hearing protection (PPE) have you:	Y	N (If No then please write down the corrective actions taken)
Selected PPE with a suitable protection value, for more information	✓	
Ensured it is comfortable to wear.	✓	
Ensured it is compatible with other PPE i.e., hard hats, eyewear etc.	✓	
Ensured the PPE does not create extra hazards.	✓	

Reviewed by (Name, designation and signature)	Md. Mushfiqur Rahman Rabby Environmental Specialist
Dates corrective actions completed	22/12/24

CONSTRUCTION ACCIDENT/INCIDENT REGISTER

Use this form to report accidents, injuries, medical situations, first aid cases, traffic incidents hazardous chemical or fire/explosion incident. If possible, a report should be completed within 24 hours of the event.

Date of Report:

Package Name/Number	
Road Name	
Location	
Name and designation of the person checklist is being completed by	

1. PERSON INVOLVED

Full Name: Ashraful Alom

Address: Bagha, Rajshahi

Job Title: Site Manager

2. THE INCIDENT

Date of Incident:

Location: NA

Describe the Incident:

3. INJURIES

Was anyone injured? ☐ Yes ☑ No

If yes, describe the injuries:

4. WITNESSES

Were there witnesses to the incident? ☐ Yes ☑ No

If yes, enter the witnesses' names and contact info: NA

5. POLICE / MEDICAL SERVICES

Police Notified? ☐ Yes ☑ No If yes, was a report filed? ☐ Yes ☑ No

Was medical treatment provided? ☐ Yes ☑ No ☐ Refused

If yes, where was medical treatment provided? ☐ On site ☐ Hospital ☐ Other:

If first aid was provided onsite then describe details:

6. FOLLOW UP ACTIONS

What follow-up actions were taken to prevent reoccurrence of the incident? (Describe):

NA

7. PERSON FILING REPORT

Signature: Md. Morshed Kajal Date: 24/12/24
FSE, Baglan Upazila

OFFICE (ENVIRONMENTAL SPECIALIST) USE ONLY

Report received by: Md. Mustafizur Rahman Pabby Date: 26/12/2024

Follow-up action taken:

Action Taken (Description): NA

ADB

CONSTRUCTION ACCIDENT/INCIDENT REGISTER

Use this form to report accidents, injuries, medical situations, first aid cases, traffic incidents hazardous chemical or fire/explosion incident. If possible, a report should be completed within 24 hours of the event.

Date of Report:

Package Name/Number	CW-133/RCIP/FRD.
Road Name	1. Improvement of [illegible] Road ch. 00- [illegible] 2. Improvement of [illegible] Road ch. 00 – [illegible] m.
Location	Saltha, Nagarkanda.
Name and designation of the person checklist is being completed by	Mahadi Hasan (Manager)

1. PERSON INVOLVED

Full Name: Mahadi Hasan

Address: Manager.

Job Title:

2. THE INCIDENT

Date of Incident: N/A

Location:

Describe the Incident:

3. INJURIES

Was anyone injured? ☑Yes ☐No

If yes, describe the injuries:

Minor bruising in Right hand middle finger.

Shot on moto g(2)

4. WITNESSES

Were there witnesses to the incident? ☐Yes ☑No

If yes, enter the witnesses' names and contact info:

5. POLICE / MEDICAL SERVICES

Police Notified?☐Yes ☐NoIf yes, was a report filed? ☐Yes ☐No

Was medical treatment provided? ☐Yes ☐No ☐Refused N/A

If yes, where was medical treatment provided? ☐On site ☐Hospital☐Other:

If first aid was provided onsite then describe details:

6. FOLLOW UP ACTIONS

What follow-up actions were taken to prevent reoccurence of the incident? (Describe):

N/A.

7. PERSON FILING REPORT

Signature: _____ Date: 25/09/24

OFFICE (ENVIRONMENTAL SPECIALIST) USE ONLY

Report received by: Date:

Follow-up action taken:

Action Taken (Description):

Dust Control Checklist

Package Name/Number	EW-150/RCIP/SRT			
Road Name	Sliduli Kuna Bazar GC Nagar para GC Road			
Location	Damuddya – Shariatpur			
Date	5.10.24			
Name and designation of the person checklist is being completed by	Md. Riaj Uddin, Field Supervision Engineer			Remarks/Corrective Actions
A dust management plan has been prepared and is up todate		☑ Yes	☐ No	
Dust discharges from stockpiles are controlled by water sprinkling or covering		☑ Yes	☐ No	
Dust discharges from access tracks/internal roads are controlled by periodic water sprinkling... If Yes how many times today (Please write in the Remarks column)		☑ Yes	☐ No	Three to five Times per day
Dust discharges from exposed areas are controlled by water sprinkling		☑ Yes	☐ No	
No visible dust is observed at the site after control		☑ Yes	☐ No	
Site road access points are regularly cleaned to remove dust that may be a nuisance to neighbours		☑ Yes	☐ No	
Reviewed by (Name, designation and signature)	Reviewed 07.10.24 Md. Rafikul Islam Assistant Resident Engineer PISC,RCIP,LGED,Sharkatpur			
Dates corrective actions completed				

Noise Control Checklist

Package Name/Number	CW-150/RCIP/SRT
Road Name	Shidul Kura Bazar to Nagar Para
Location	Damuddya - Shariatpur
Date	5-10-2024
Name and designation of the person checklist is being completed by	Md. Rejuddin Site Supervision Engineer

Ask yourself:	Y	N
Do you need to raise your voice to be heard by a person less than 2m away?		✓
Does your machinery have a label indicating noise levels of 80dB or higher?		✓
Are you exposed to sudden loud noises such as hammer strikes?		✓
Are your colleagues exposed and likely to be adversely affected by the noise you are creating?		✓
Are any of your colleagues complaining of any hearing problems		✓
Do the Local people complain about the noise being created		✓

If you have answered YES to any of the above, you will need to take action:

a. Measure or assess the noise level : a. first identify the source of the noise
b. measure or assess the noise level.
i. do you need to raise your voice to be heard?
ii. identifying the noise levels from the data plate or operator's handbook
iii. measuring using an App downloaded to your phone (Note: these apps are to be used as a general indication only)
iv. employ a professional to assess the noise levels on your behalf.

The method used will depend on the complexity of your workplace, try to keep it as simple as possible.

Having identified you have an unacceptable level of noise; you must now do your best to reduce the level of exposure to an acceptable level. The following hierarchy can help:

Note: if you answer **No** to any of the questions move onto the next	Y	N	Remarks/Corrective Actions

question. If you answer **YES**, then put controls in place and re-assess the level of exposure. If it remains too high, continue down the checklist.	✓		
Remove the source of noise e.g., replace a diesel-powered machine with a battery powered one?	✓		
Separate the person from the noise – put noisy equipment in an acoustic room/chamber?	✓		
Soundproof noisy parts of a machine, keep engine covers/compartments closed?	✓		
Use screens or barriers in the workplace to deflect noise?	✓		
Control the amount of time workers are exposed to noise?	✓		
Design the workplace to separate noisy equipment and designate noise protection areas and enforce wearing ear protection?	✓		

If you have not succeeded to reduce the noise level/exposure to an acceptable level, you must now provide protective equipment.

When selecting and providing hearing protection (PPE) have you:	**Y**	**N (if No then please write down the corrective actions taken)**
Selected PPE with a suitable protection value, for more information	✓	
Ensured it is comfortable to wear.	✓	
Ensured it is compatible with other PPE i.e., hard hats, eyewear etc.	✓	
Ensured the PPE does not create extra hazards.	✓	

Reviewed by (Name, designation and signature)	27.10.24 Md. Rafikul Islam Assistant Resident Engineer PISC,RCIP,LGED,Sharatpur
Dates corrective actions completed	

Site Security Checklist

Package Name	CW-136/RCIP/ERD		
Package number	Char Bhadrasan Ha-Char Shib Mandir Road		
Road Name			
Location			
Date			
Name and designation of the person checklist is being completed by	MD. Nazmul Hasan Nishan Manager		
Is the whole site is surrounded with visible coloured tape so that unauthorized people cannot enter?		☑ Yes	☐ No
Are there warning signs about dangers in the construction site for the local people		☑ Yes	☐ No
Are drivers of unrecognized vehicles contacted and confirmed that they should be on the job-site?		☐ Yes	☐ No
Are there uniformed guards utilized to check vehicles entering and leaving the construction site?		☑ Yes	☐ No
Are there storage sheds or fenced areas provided for tools and equipment? • Heavy equipment should be placed in front of storage shed doors to enhance security. • Doors of storage containers facing toward the perimeter of the construction site so that they are easily observed.		☑ Yes	☐ No
Are all vehicles locked and ignition keys removed?		☑ Yes	☐ No
Are all large equipment and other machinery disabled? • Remove spark plugs or batteries • Install a hidden cutout switch		☑ Yes	☐ No
When not in use is equipment parked in a line or circle so that smaller equipment is secured by larger equipment on the ends or perimeter?		☑ Yes	☐ No
When not in use are blades and buckets of ground engaging equipment dropped to the ground to make it difficult to move?		☑ Yes	☐ No
Is the whole site is surrounded with visible coloured tape so that unauthorized people cannot enter?		☑ Yes	☐ No

Reviewed by (Name, designation and signature)	MD. A Jalil, FSE
Dates corrective actions completed	22-08-2024

APPENDIX 5: SAMPLE ATTENDANCE SHEETS OF FOCUSED GROUP DISCUSSION

Local Government Engineering Department

Rural Connectivity Improvement Project (RCIP)

Attendence of Local Participants in the Screening Exercise

Local Stakeholders and Community Members

Name of the Sub Project: RCIP

Package Name: CW-213/RCIP/TKG

Upazila: Baliadangi District: Thakurgaon

Date: 18-11-24

SL	Name	Gender	Social Status	Contact Number	Signature
1	মো: মানিক মিয়া	ছেলে	শিক্ষক	01919640090	Manik
2	অন্তু	ঐ	ছাত্র	01782343645	অন্তু
3	[illegible]	ঐ	ব্যবসা	01964470042	[illegible]
4	জিয়াউর রহমান	ঐ	প্রেসিডেন্ট	01823436 40	[illegible]
5	সুজন লেখা	ঐ	কৃষক	01360-41565	সুজন
6	পারভিনা খাতুন	মেয়ে	ছাত্রী	01920-77256	[illegible]
7	শিউলি বেগম	ঐ	শিক্ষিকা	01450-8221 88	শিউলি
8	আবু বক্কর	ছেলে	চালক	0164-15071 26	[illegible]
9	বাসু দেব	ঐ	মিস্ত্রী	01326-54137 80	বাসু
10	আনোয়ার	ঐ	ব্যবসা	01722-61997 92	[illegible]

Local Government Engineering Department

Rural Connectivity Improvement Project (RCIP)

Attendence of Local Participants in the Screening Exercise

Local Stakeholders and Community Members

Name of the Sub Project: RCIP

Package Name: ew - 181 / RCIP / NTR

Upazila: Sadar District: Natore

Date: 15-09-2024

SL	Name	Gender	Social Status	Contact Number	Signature
1	মো:আকবর হোসেন	পুরুষ	কৃষক	01721566463	
2	মো: খুরশিদ আলী	"	কৃষক	0172 8976930	
3	মো! আলী হোসেন	"	শিক্ষক	01821359462	
4	মো: কালেম মিয়া	"	ব্যবসা	01709189565	Kalam
5	মো: ইদ্রিস উদ্দীন	"	মিস্ত্রী	01712649210	
6	মো: ওসমান গনি	"	কৃষক	01946786420	
7	মো: আবু বক্কর সিদ্দীক	"	ব্যবসা	01731601950	
8	সাবিনা ইয়াসমিন	মহিলা	গৃহিনী	01740619216	
9	সাবরিন হাসান	"	গৃহী	01716432017	Sabrina
10	বর্ষা রানী	"	ব্যবসা	01789467210	Barsha

COX

Local Government Engineering Department
Rural Connectivity Improvement Project (RCIP)

Attendance of Local Participants In the Screening Exercise
Local Stakeholders and Community Members

Name of the subproject : Naikhongdhai Hnipara to BDR Camp Road. Union: Kachapia - 04,07

Package Name : CW-111/RCIP/COX

Upazila : Ramu

Date : 07-07-2024 Location: Balukhola more.

SL	Name	Gender	Social Status	Contact Number	Signature
1	Salim Bahadur	M	Business	01852451936	
2	Hafej Ahmed	M	"	0187[illegible]60197	
3	Sukmotullah	M	Farmer	01820069181	
4	Mizanur Rahman	M	Raj Mistry	01882686917	
5	Helal uddin	M	shopkeeper	01888255478	
6	Nurul Alam	M	Business	01812256053	
7	Balal uddin	"	Farmer	01856669469	
8	MD. Aminul	"	"	01819514963	
9	Jamnus	"	"	01826529167	
10	Abdur Rahim	"	Busd	01881032235	

COX

2nd Road

Local Government Engineering Department
Rural Connectivity Improvement Project (RCIP)

Attendance of Local Participants In the Screening Exercise
Local Stakeholders and Community Members

Name of the subproject: Gorjania – Beltali Road

Union: Gorjania - 06,07,08

Package Name : ew-III/RCIP/COX

Upazila : Ramu

Date : 08-07-2024 Location: Gorjania

Sl.	Name	Gender	Social Status	Contact Number	Signature
1	Md. Amanul haque	Male	Business	01813-714055	
2	Md. Nurul Alam	"	Business	01816-921707	
3	Zahiruddin	"	Service holder	01839-833539	
4	Ziaur Rahman	"	Business	01823692995	
5	Md. Khasan	"	–	01883[illegible]64335	
6	Hafij Ahmed	"	Farmer	01823-913204	
7	Ajij Moula	"	Driver	01689-428921	
8	Shahalam	"	Bisnes	–	
9	Shakor Ahmed	"	Farmer	01823-896525	
10	Abu sayed	"	"	01837-197472	

Road-1

Local Government Engineering Department

Rural Connectivity Improvement Project (RCIP)

Attendence of Local Participants in the Screening Exercise

Local Stakeholders and Community Members

Name of the Sub Project: RCIP

Package Name: CW-142/RCIP/MDR

Upazila: Shibchar District: Madaripur

Date: 31.10.2024

SL	Name	Gender	Social Status	Contact Number	Signature
1	মোরশেদ আলম	পুরুষ	অব. শিক্ষক	01317463230	
2	মো: করিম ফকির	"	কৃষক	01922778483	
3	মো: বাবু মোড়ল	"	ড্রাইভার	01710-278631	Thandu
4	সুলতান মোড়ল	"	কৃষক	01792159912	সুলতান
5	হাকেম মোড়েল	"	ফার্ম ব্যবসায়ী	01716140830	হাকেম
6	মো: আলাউদ্দিন	"	দোকানদার	01792257961	
7	জরিনা খাতুন	মহিলা	গৃহিনী	01986865830	জরিনা
8	বিলকিস বেগম	"	"	01750104380	বিলকিস
9	রুমা আক্তার	"	ছাত্রী	01531429521	Ruma
10	উম্মে হানি	"	ছাত্রী	01680791413	Honey

Local Government Engineering Department Road - 2

Rural Connectivity Improvement Project (RCIP)

Attendence of Local Participants in the Screening Exercise

Local Stakeholders and Community Members

Name of the Sub Project: RCIP

Package Name: CW-142/RCIP/MDR

Upazila: Shibchar District: Madaripur

Date: 31.10.2024

SL	Name	Gender	Social Status	Contact Number	Signature
1	মো: রেজাউল করিম	পুরুষ	ব্যবসায়ী	01301608945	Reaj
2	মো: হারুন-অর-রশিদ	,,	কৃষক	01910147958	হারুন
3	মো: লতিফ বেপারী	,,	,,	01796372594	লতিফ
4	আব্দুস সালাম	,,	শিক্ষক	01754379711	
5	আবুল কাশেম	,,	নাপিত	01970-915528	কাশেম
6	রহিমা বেগম	মহিলা	গৃহিণী	01320564289	রহিমা
7	কল্পনা সরকার	,,	চা দোকানদার	01754370715	কল্পনা
8	সুমাইয়া সালমা	,,	ছাত্রী	01680413790	Sumaya
9	সৌমুলি রেহনুমা	,,	শিক্ষক	01760840528	
10	সাথিনা খাতুন	,,	গৃহিণী	01917858396	সাথিনা

Local Government Engineering Department

Rural Connectivity Improvement Project (RCIP)

Attendence of Local Participants in the Screening Exercise

Local Stakeholders and Community Members

Name of the Sub Project: RCIP

Package Name: C10-G1(c)/RCIP/BBR

Upazila: Nabinagar District: B.Baria

Date: 25-08-2024

SL	Name	Gender	Social Status	Contact Number	Signature
1	[illegible]	[illegible]	[illegible]	01726799977	[illegible]
2	[illegible]	"	[illegible]	01845192424	[illegible]
3	[illegible]	"	[illegible]	01721566463	[illegible]
4	[illegible]	"	[illegible]	01645396274	[illegible]
5	[illegible]	"	[illegible]	01821353964	[illegible]
6	[illegible]	"	[illegible]	01963438499	[illegible]
7	[illegible]	[illegible]	[illegible]	01709189565	[illegible]
8	[illegible]	"	[illegible]	01773702765	[illegible]
9	[illegible]	[illegible]	[illegible]	01782343645	[illegible]
10	[illegible]	"	[illegible]	01721790235	[illegible]

Stakeholders Consultation

List of Participants

Location: Near Fategabad Ahmadia Govt. Primary School, Fategabad, Uthuzang, Cdg

Date & Time: 19.11.2024 11.45 AM

Sl. No.	Name of the Participants	Occupation	Mobile No.	Signature
1	ফজলুল করিম	কৃষক	01874518771	
2	মো: মতিউর রহমান	প্রবাসী	01751522049	
3	তুষার কান্তি	ব্যবসা	01824453345	
4	আবুল কাশেম	গৃহিণী	01830790584	আবুল
5	মো: সোবহান	কৃষক	নাই	
6	তাহমিনা আক্তার	কৃষক	01834369061	
7	মো: আনছার হোসেন	ব্যবসা	01830647836	
8	আব্দুল মালেক	ব্যবসা	01839 1811 94	
9	ইসমাত হোসেন	কৃষি	01845 190 319	
10				
11				
12				
13				
14				
15				