

Environmental Monitoring Report

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Loan Number: L3808/3809
Semestral Report (January - June 2021)
June 2021

Bangladesh: Second City Region Development Project

Prepared by Local Government Engineering Department for the Government of Bangladesh and the Asian Development Bank

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Executive Summary

I. Introduction

The City Region Development Project aimed at enhancing growth potential and improving environmental and economic sustainability of the target city regions through effective regional urban planning. The target city regions of the Project are Dhaka City Region and Khulna City Region. The Project supported the development of key urban infrastructure, focusing on urban environment and local economic development. The Project also supported the Government in its efforts to improve regional and urban planning, and to strengthen municipal management and the capacity for effective and sustainable urban development.

The Local Government Engineering Department (LGED) is the executing agency of the Project under the Ministry of Local Government, Rural Development and Cooperatives. Sub-projects are implemented by the project Implementing Units (PIUs). The PIUs are: Gazipur City Corporation, Khulna City Corporation, and the Pourashavas' as well as Executive Engineer's Office of LGED under the Project. Project Management and Co-ordination Unit (PMCU), based at the LGED Headquarters, is responsible for the overall management, co-ordination and implementation of the Project.

The scope of this report is to summarize and analyze the performance of the environmental works of the contracted subprojects, and to verify the environmental requirements that are specified in the contract documents are adequately address.

Environmental Category of Subprojects: The CRDP-2 The CRDP-2 improvement works have been divided into 38 subproject packages for the convenience of project implementation and the project is classified as category B (Orange B as per ECR'97) for the urban infrastructure improvement works and as category A (Red as per ECR'97 for the Solid Waste Management subproject in Khulna City Corporation. Among the 38 packages, 13 have been identified as readiness packages, likely to have minimum environmental impacts.

Utilization of Consultancy Services: In order to execute the necessary mitigation measures and to undertake monitoring activities, the PDS Consultant team is now fully in place. The procurement process for PDS-2 is in progress, and ICCD consultant has already been deployed.

Overall Project and Subproject Progress and Status: In readiness thirteen packages, there are 46 roads amounting 175.115 Kilometer (Km), 30 Drains amounting 42.13 Km, 15 Bridges having span 388 mete(m), 46 Culverts having Span 230.86 m and 8 Water control Structures. It may be noted that up to June 2021, total 25.808 Km of Reinforced Cement Concrete (RCC) Road, 4.460 Km of Box Drain, 25.320 Km of Pipe Drain, 25 Box Culverts and 6 Bridges have been completed. Initial Environmental Examinations (IEEs) for all subprojects under the readiness thirteen packages with their respective EMP template have been prepared considering all possible impacts due to implementation activities and their mitigation measures.

Gender Equity: In order to ensuring safe and comfortable mobility of women, elderly persons, children and specially able people, around 33 km of walkways has been provided in dense settlements areas out of 234 km designed roads of 13 readiness Packages despite the constraint of land availability.

II. Compliance Status with National Statutory Requirements

The DOE-issued Environmental Clearance Certificate to all subprojects with the exception of Red Category subprojects. All requirements of the Department of Environment related to environmental clearance/renewal are being met, and DOE does not require monitoring and reporting for CRDP-2 subprojects. Status on relevant GOB Permits: Since the subproject schemes will be constructed within the right-of-way (RoW) and will not involve any potential tree removal, no prior permission is to be obtained from the forest department. However, the details of acquiring permits and NOC have been discussed in the respective DDR reports.

III. Compliance Status with Environmental Loan Covenants

The covenants to the loan agreement with ADB requires that subprojects are designed, constructed, operated, and maintained in accordance with Borrower's Environmental Conservation Rule 1997, ADB's Safeguard Policy Statements (SPS, 2009) and EARF prepared for the Project and agreed between the Borrower and ADB. Other covenants written into the loan agreement related to disclosure, grievance redress and environmental safeguards and their status of compliances are described in a table of the main document.

IV. Compliance Status with the Environmental Management Plan

Environmental Safeguard Framework: EMPs and supporting criteria inclusive of environmental specifications for inclusion in construction contract tender documents provide the basis for monitoring compliance..

Initial Environmental Examination (IEE): Initial Environmental Examinations (IEEs) of 24 (twenty four) sub-projects have been prepared so far. Package-wise IEE Documentation status has been presented inside the main document.

Subproject Environmental Monitoring: The system for environmental monitoring consists of observations using a checklist for comparison with contractor performance that reflects the requirements of the construction specifications. As a part of the monitoring program, field visits were undertaken in the recent months at site of GCC W-01, Savar W-01, Savar Pour W-01 on 30/4/202 and Araihasar W-01/02 and Rupganj W-02 on 31/03/21. As regards the overall compliance with EMP, field observation demonstrate more or less satisfactory status of implementation.

V. Approach and Methodology for Environmental Monitoring of the Project

Environmental Performance: Environmental specifications reflect general construction requirements as identified in the subproject EMPs Though costs of implementation of the environmental works (as per environmental specification) are considered the responsibility of the contractor and are part of the overall bid price, a provisional sum to cover environmental works is included in the bid price.

Environmental Training / Capacity Building: Capacity building is aimed at orientation and training of PIU staff in ADB's safeguards policy and management. Training is conducted by the Environment and other PDS Consultants. A cumulative total of the training/orientation sessions/information exchange session conducted till date was 5 (five) and total participants were 209 (two hundred and nine) : the 1st one held on 22/10/2019 at Narayanganj District LGED Office Seminar Hall, the 2nd one on 12/11/2019 at Dhaka District LGED Office Seminar Hall, the 3rd one on 10/09/2020 at Narayanganj District LGED Office Seminar Hall, the 4th one on 28/11/2020 Seminar Room, Level-12, RDEC, LGED Bhaban, and the 5th one on 22/03/2021 at Regional Training Centre(RTC), LGED Dhaka

Consideration of Climate Change Effects in CRDP-2: A rapid assessment for the climate change effects in terms of a) Climate Adaptation Assessment (climate proofing) and b) Climate change reduction assessment (Emission Saving) from projects are being considered in the planning and design of the sub-project. Design Implementation and the construction materials used therein is expected to reduce substantial reduction to Greenhouse Gas

Emissions. In connection to the above context, it is worthwhile to point out that Solid Waste Management (SWM) shall reduce emission of 22092-ton CO₂ (carbon dioxide) /year. (Ref: Waste Concern Consultant, Design Consultant of the proposed Solid waste Management subproject at Khulna City Corporation)

VI. Monitoring of Environmental Impacts on Project Surroundings (Ambient Air, Water Quality and Noise Levels)

In order to assess the base environmental quality of subproject surroundings, analysis of the ambient air, water quality and noise levels were conducted. The analytical results of the tested environmental parameters are found more or less within the standard limit set by DoE and Bangladesh Noise Pollution (Control) Rules, 2006.

VII. Grievance Redress Mechanism

The GRM provides redress for grievance arising from resettlement, compensation and environmental impact during subproject implementation. The Grievance Redress Committees (GRC), formed on June 07, 2020, is progressively complying with all aspects related to the GRM. The GRM among the local people are discussed at the focal group discussion meeting. The measures considered to publicize the GRM among the local people reside in the project area have been outlined inside the main report.

VIII. Complaints Received during Subproject Implementation

No formal complaints were received from the community or from any individual of the community during the reporting period at the construction site. However, it is to note that in almost all the monitored sites, there were instances of informal complaints that are related to dust pollution at the construction-site adjacent built-up areas.

IX. Summary of Key Issues and Remedial Actions

No formal written complaints were received from the community or from any individual of the community at the construction site. However, in almost all the monitored sites, there were instances of unceremonious/casual complaints lodged by the people of the locality with respect to poor initiative in suppressing dust pollution by spraying plentiful water on dry surfaces of construction sites. Taking into consideration the community's concern with dust generation, a non-compliance report (NCR) for concerned site was served to the contractor's site engineer/supervisor to rectify the flaws of environmental management, and subsequent follow-up actions against CAR after stipulated time have demonstrated rectification of the dust pollution issue.

X. Project strategy against COVID-19 H&S Guidelines

Project strategy against COVID-19 H&S Guidelines that have been shared by ADB during TPRM held on June 2020 and Status of COVID-19 guidelines implementation. To ensure the proper implementation of the recommended COVID-19 H&S protocols, staffs have been assigned both from PMU and from contractors. They are monitoring the COVID-19 H&S issues, using a template provided by BRM of ADB, in the construction sites. Some examples of monitoring records and photographs on preventive measures practicing at the worksite against spread of COVID-19 infection are displayed at the end of the report.

XI. Conclusions and Recommendations

Environmental mitigation measures related to subprojects are being implemented in line with the Environmental Safeguard Framework; by and large performance is generally fair. Contractors are required to mitigate environmental adverse impacts, and monitoring is being conducted by the environmental specialists and PIU staff. Where mitigation measures are lacking, contractors are urged to progressively improve their performance. The GRM has been outlined for being implemented with GRCs formed at local level. The Environmental specialist will continue to work with PIUs and contractors to pursue improvement in subproject works. The time bound corrective action plan (CAP) with recommendation for further improvement have been spelled out inside the main text.

I. INTRODUCTION

A. Purpose of the Report

1. **Loan effectiveness and PDS inception.** ADB Loan was effective from 19 November 2019. PDS inception from 4 July 2017. Implementation consultants joined the project in the beginning of 2020. Safeguard specialist was hired directly by the PMCU towards the beginning of 2019.

2. The Local Government Engineering Department (LGED) is the executing agency of the Project under the Ministry of Local Government, Rural Development and Cooperatives. Sub-projects are implemented by the project Implementing Units (PIUs). The PIUs are: Gazipur City Corporation, Khulna City Corporation, and the Pourashavas' as well as Executive Engineer's Office of LGED under the Project. Project Management and Co-ordination Unit (PMCU), based at the LGED Headquarters, is responsible for the overall management, co-ordination and implementation of the Project.

3. The ADB's Safeguard Policy Statement (SPS 2009) in respect to information disclosure related to project safeguard documentation, where it has been stated that the borrower/client will submit semi-annual monitoring reports during construction for projects/subprojects likely to have significant adverse environmental and social and resettlement impacts, ”

4. This semi-annual report compiles environmental monitoring results to comply with the spirit of ADB policy to “enhance stakeholders’ trust in and ability to engage with ADB, and thereby increase the development impact *of projects+” in which disclosure of safeguard monitoring is a prominent aspect.

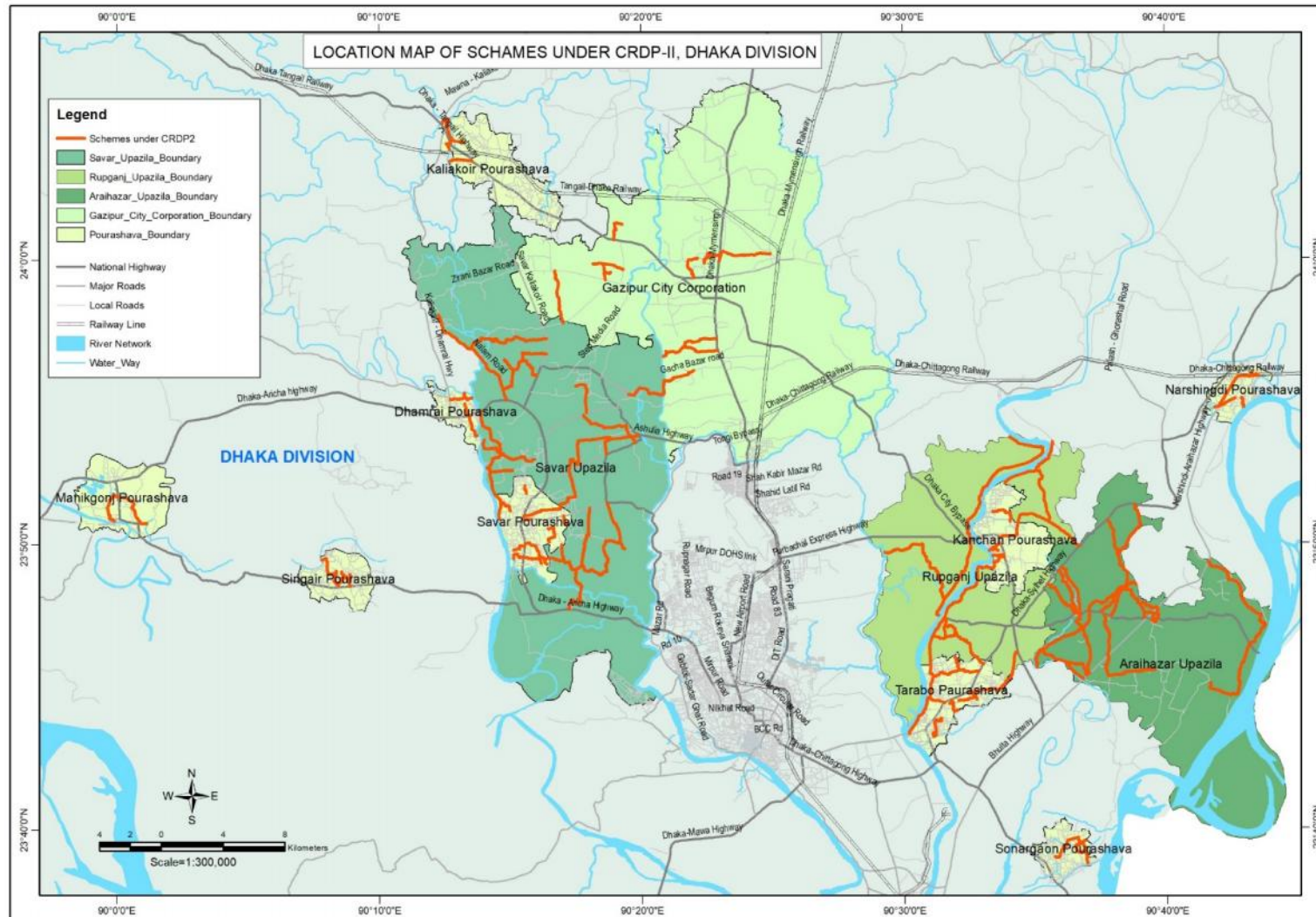
Scope of Monitoring Report: The scope of this report is to summarize and analyze the performance of the environmental works of the contracted subprojects, and to verify the environmental requirements that are specified in the contract documents are adequately address

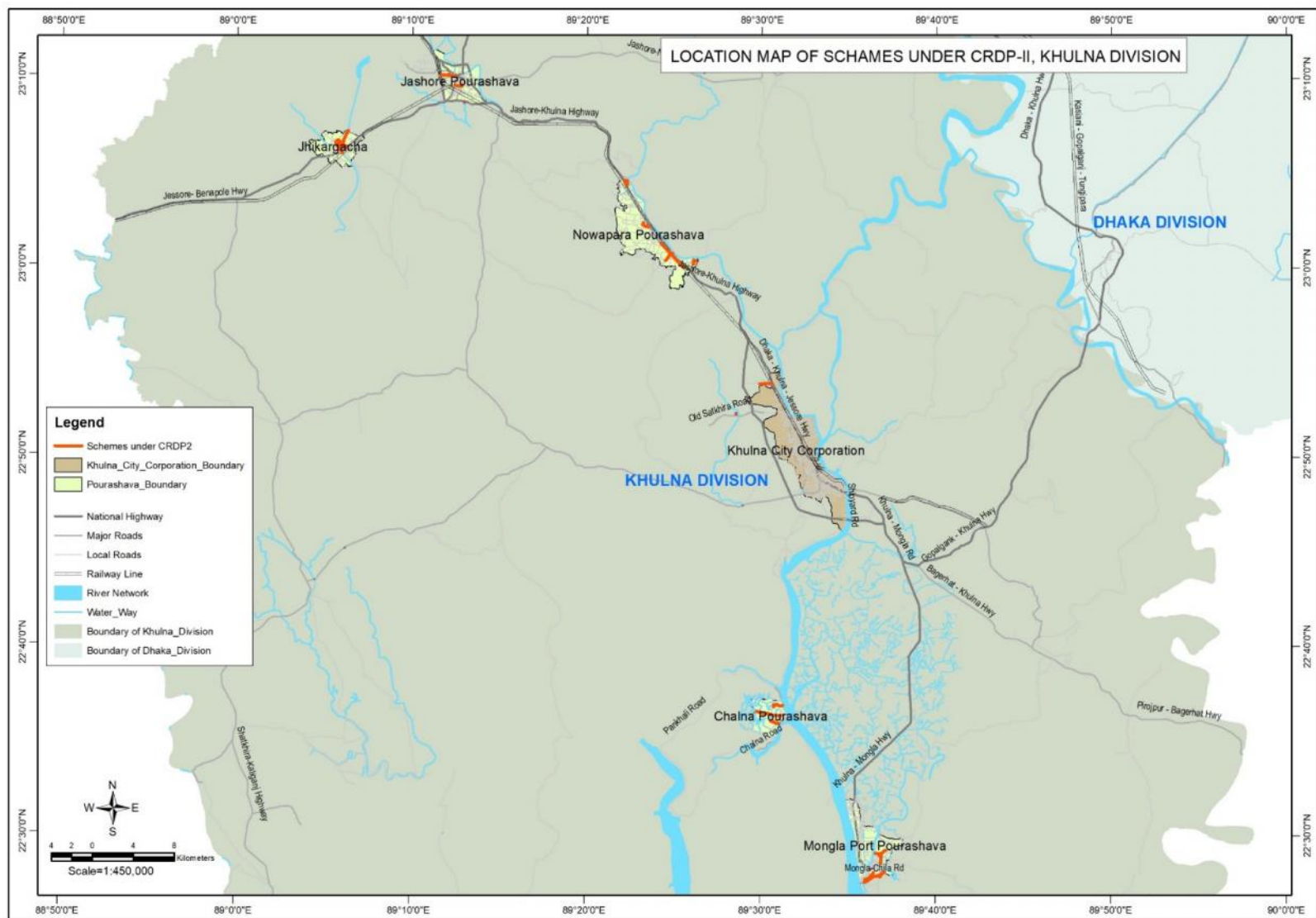
Reporting Period: 1st January to 30th June 2021

Purpose of Monitoring: The purpose of monitoring is to ensure that environmental requirements specified in the contract documents are adequately performed,

Project Location: The Project location map showing all contract packages are presented here below in **Figure 1**.

Figure 1: Location map showing CRDP-2 contract packages





Progress status on implementation of Environmental management activities: The Progress status on implementation of environmental management activities including environmental monitoring reports along with sampling and testing of environmental parameters are shown in the table below:

Table 1: Progress status on implementation of environmental management activities

Sl.no	Environmental Management Activities	Progress Status
.1	Preparation of Initial Environmental Examination (IEE)	24 (twenty four) IEE Reports and 1 (one) Draft EIA Report of SWM in KCC have been prepared and forwarded to PMCU for finalization
2.	Renewal of Environmental Clearance Certificate (ECC)	ECC renewal application has been processed and finalized, accordingly DoE has renewed the subject ECC, and this renewal is valid up to February 9, 2022. (Ref: Memo No. DoE/clearance/5194/2013/61; dated 24/03/2021) (Appendix 1&2).
3	Field monitoring to check EMP compliance at construction sites	Undertake field visit for monitoring EMP compliance at least once in every month
4.	Capacity Development: <ul style="list-style-type: none"> - Community capacity strengthening - Orientation Session on Environmental Safeguard Issues for PIU staff, contractors and concerned others - Consultation Workshop on Solid Waste Management (SWM) of Khulna City Corporation (KCC) 	<ul style="list-style-type: none"> - 8 Community consultation meetings on the subproject IEEs held at subproject level (details of these are included in respective IEE Reports of Pourashavas for their Package W-01 program) - 1 Orientation Session on Environmental Safeguard Issues was held on March 22, 2021 at LGED Seminar Hall room, Agargaon, Dhaka - 1 Consultation Workshop was held on March 9, 2021 at KCC Hall room, Khulna (Detail of this is included in the 1st Draft of EIA Report on SWM in KCC)
5	Monitoring of ambient Air, Water (surface & ground water Quality And Noise Levels) <ul style="list-style-type: none"> - Sample collection - Analysis and analytical results 	<ul style="list-style-type: none"> - Sample collected from 5 (five) selected subproject sites (Savar/w-01, Savar /W-02, Savar/W-04, Rugganj/W-01 and Araihasar/W-01) - Analysis of the selected environmental parameters have been completed and their analytical results have been discussed and presented inside the report
6	Monitoring Reporting <ul style="list-style-type: none"> a) Monthly Progress Report b) Quarterly Progress Report c) Semi-annual Environmental Monitoring Report 	<p>The followings are the output of Monitoring reports (for period January - June, 2021):</p> <ul style="list-style-type: none"> a) 6 nos. monthly progress reports b) 2 nos. Quarterly Progress reports c) 1 no. Semi-annual Environmental report

B. Environmental Category of subprojects

5. The project CRDP-2 is classified as category B for environmental safeguards as per ADB Safeguard Policy Statement (SPS), 2009, consequently the subprojects under the project are considered Category B. No category A type of works as per ADB SPS, 2009 are anticipated. As per environmental assessment and review framework (EARF) and subproject selection criteria no subprojects classified as category A per ADB SPS, 2009 will be considered for implementation under the project.

6. Requirements of the Government of Bangladesh are set out in the Environmental Conservation Act and Rules (1995 and 1997), which classifies subprojects as Green, Orange A and B and Red Categories. Accordingly DOE issued an Environmental Clearance Certificate for Second CRDP subprojects (up through Orange B) involving construction and rehabilitation of roads and associated drainage subprojects in Dhaka region by means of a letter No. DOE/ Clearance/5194/2013/ (clearance Certificate Number 53)/issue Date 10/02/2019 (**Appendix 1**). As the period of validity of this ECC has been expired, DoE has made consequent renewal of the ECC vide Memo No. DoE/clearance/5194/2013/61; dated 24/03/2021, and this renewal is valid up to February 9, 2022. (**Appendix 2**). Construction and Rehabilitation of Roads and associated drainage improvements of targeted subproject packages are categorized as Orange B category subprojects, and are exempt from further review requirements under DOE rules.

C. Utilization of Consultancy Services

7. There are four categories of consultants under the Project. These are: (1) Preparation, Design and Supervision (PDS) Consultants, (2) Second Preparation, Design and Supervision (PDS-2) Consultants, (3) Institutional Capacity and Community Development (ICCD) Consultants and (4) Individual Consultants. The PDS Consultant team is now fully in place. The procurement process for PDS-2 is in progress, and ICCD consultant has already been deployed. The composition of the project safeguards Team is outlined in **Table 2** below:

Table 2: Project Safeguards Team

Name	Designation/Office	Email Address	Contact	Roles
1. <u>PMU</u> Md. Shahabul Islam	Sr. Assistant Engineer, LGED, Dhaka	Shahabul@lged.gov.bd	+8801714225344	Liaise with the various Government agencies on environmental and other regulatory matters pertaining to implementation of the subprojects;
2. <u>PIUs</u> a) Md. Abdul Aziz Sikder (Dhaka PIU)	Assistant Engineer, LGED, Dhaka	ae.dhaka@lged.gov.t.bd	+8801758999111	Liaise with the Contractors and Consultants on the implementation of the Environmental management measures proposed in the IEE/EMP; including the implementation of the environmental monitoring plan outlined in the IEE.
b) Mala Begum (Narayanganj PIU)	Assistant. Engineer, LGED, Narayanganj	ae.narayanganj@lged.gov.bd	+8801712623112	
c) Md. Alam Miah (Savar Pourashava PIU)	Assistant Engineer, Savar Pourashava, Savar	Alammiah327@gmail.com	+8801712507060	
d) Mydul Islam (GCC PIU)	Assistant Engineer, Gazipur City Corporation	mydulislam80@gmail.com	+8801612104080	

Name	Designation/Office	Email Address	Contact	Roles
3. Consultant Dr. Md, Nurul Islam	Environmental Specialist	nuruldhaka24@gmail.com	+8801760602194	Assist PMCU in ensuring compliance of Second CRDP and its subprojects with all relevant national laws; Interact with the sector specialists and integrate environmentally sound practices into the detailed design of project components; oversees all environmental safeguard issues

D. Overall Project Description and Objectives

8. The Second City Region Development Project (CRDP-2) is the second phase of impact-oriented urban development program using the integrated city region approach to improve spatial and inter-sectoral connectivity as means for accelerating broad-based economic growth. In the City Region Development Project (CRDP), the city region concept is operationalized to include a major city (like Dhaka or Khulna) with its surrounding municipalities and non-municipal urban centers. The experience of CRDP and project preparation activities of CRDP-2 points to the necessity of broadening the spatial coverage of the city region concept to include rural-to-urban connectivity in addition to urban-to-peri-urban linkages as such areas are naturally interlinked and warrant immediate intervention to enhance connectivity.

9. The objective of the Project is to improve the mobility, Climate Resilience and solid waste management in the Project areas within the Dhaka and Khulna city regions. The outputs of the Project will include: Output 1: Urban infrastructure in project areas of Dhaka and Khulna regions improved and made climate-resilient; Output 2: Institutional and Community Development

E. Description of Subprojects

10. Activities of Output -1: Urban infrastructure in project areas improved and made climate-resilient

I. Improvement of Roads in Dhaka City Region:

- Improvement of road: 312 km
- Construction of bridges/culverts: 1714m
- Construction of drain: 91km

II. Improvement of Drainage in Pourashavas:

- Construction of drain: 62km
- Improvement of road: 45 km
- Re-excavation/dredging of Khal/Canal: 20 km
- Slope Protection: 10 km
- Improvement of Bus Terminal: 1 no.

III. Solid waste management:

- Composting plant and associated facilities constructed and operational in KCC: 1 no.

11. Activities of Output -2: Institutional and community capacities strengthened

- Future priority urban investments of at least \$100 million identified and detailed engineering design reports prepared by LGED;

- Detailed feasibility study including gender, social and environmental assessment and engineering design for integrated waste management facilities in KCC prepared;
 - Drainage master plans for 13 pourashavas prepared or updated;
 - O&M plans including annual budget allocation for all subprojects prepared by all project pourashavas and city corporations with LGED support;
 - 50 staff (including 15 female staff) of project pourashavas and city corporations report enhanced knowledge on integrated urban planning, sustainable service delivery, and O&M of urban infrastructure; and
 - May be awareness raising of 200,000 people (at least 50% women) covered under awareness campaigns on reducing, reusing, and recycling solid waste in KCC and 80% report increased awareness.
12. **Project Locations:** Dhaka City Region and Khulna City Region. The Project Area includes the following:
- Dhaka city region:**
- City Corporation:* Gazipur City Corporation
- Pourashavas:* Savar, Dhamrai, Narsingdi, Kanchon, Kaliakoir, Singair, Sonargaon, Tarabo and Manikganj
- Upazila:* Savar, Araihaazar and Rupganj
- Khulna city region:**
- City Corporation:* Khulna City Corporation
- Pourashavas:* Nowapara, Mongla, Chalna, Jhikargacha and Jashore
13. **Implementation Period of the Project:** i) Date of Commencement: January 2019 and
ii) Date of Completion: June 2024
14. **Improvement of Roads in Dhaka City Region:**
Progress achieved up to June, 2021
- (i) **Gazipur City Corporation (GCC):** There are 2 packages (W-01 & W-02) for civil works in GCC. Total physical progress is 44.15%.
 - (ii) **LGED-Narayanganj (Rupganj Upazila):** There are 3 packages (W-01, W-02 & W-03) for civil works in Rupganj Upazila under Narayanganj District. Total physical progress is 23.40%.
 - (iii) **LGED-Narayanganj (Araihaazar Upazila):** There are 3 packages (W-01, W-02 & W-03) for civil works in Araihaazar Upazila under Narayanganj District. Total physical progress is 42.63%.
 - (iv) **LGED-Dhaka (Savar Upazila):** There are 4 packages (W-01, W-02, W-03 and W-04) for civil works in Savar upazila under Dhaka District. Total Physical progress is 32.80%.
 - (v) **Savar Pourashava:** There is only 1 package for civil works in SavarPourashava. Total physical progress is 74.83%.
15. **Improvement of Drainage in Pourashavas:** The design drawing of drain for around 145.80 Km has been completed out of 153 Km and 12.5 Km khal has been completed out of 20 Km. Preparation of drainage master plan for Pourashava under the project area is in progress.
16. **Solid waste management:** The Draft EIA Report of Solid Waste Management in Khulna City Corporation has been revised and updated, and submitted to PMCU for finalization.

F. Personnel Responsible for Environmental Monitoring

17. Monitoring of mitigation measures during construction are the responsibility of the PIU Environmental Management Officer, supported by the PMCU Environmental Specialists. The monitoring system involves a Monitoring Checklist (**Appendix-1**), which reflects the requirements of the EMP and Special Conditions. The checklist is filled in quarterly by the PIU and PMCU Environmental Specialists.

G. Subproject Implementation Progress and Status

18. The overall subproject implementation progress and status is displayed in the **Table 3** below.

Table 3: Subproject progress and status (up to June 2021)

Gazipur City Corporation (GCC):

Package No.	Description	Quantity Of Road(km)	Contract Amount (Lakh Tk.)	Contract Signing Date	Contractor	Completion Time	Physical Progress up to June 2021
1	2	3	4	5	6	7	8
W-01	Construction Of Road And Drain At Gazipur City Corporation	12.53	7,693.93	18 November 2019	RAB-RC (Pvt.) Ltd & Hossain Construction (Pvt.) Ltd.	500 days	33.64 %
W-02	Construction Of Road And Drain At Gazipur City Corporation	7.24	3,780.00	13 November 2019	RAB-RC (Pvt.) Ltd & Hossain Construction (Pvt.) Ltd.	500 days	65.54 %
Total		19.77	114,73.93				44.15 %

Rupganj Upazila:

Package No.	Description	Quantity Of Road(k m)	Contract Amount (Lakh Tk.)	Contract Signing Date	Contractor	Completion Time	Physical Progress up to June 2021
1	2	3	4	5	6	7	8
W-01	Construction Of Road And Drain Under Rupganj Upazila	13.78	14300.00	31 August 2020	JV NDE-TBL	12-feb-22	24.05 %
W-02	Construction Of Road And Drain Under Rupganj Upazila	15.89	5,477.66	27 October, 2019	JV of NCEL-PDL	22-Mar-2021	17.55 %
W-03	Construction Of Road And Drain Under Rupganj Upazila	18.77	3,970.05	22 January, 2020	JV of NCEL-PDL	19- June-2021	31.20 %
Total		48.43	23,747.71				23.40 %

Araihazar Upazila:

Package No.	Description	Quantity Of Road(k m)	Contract Amount (Lakh Tk.)	Contract Signing Date	Contractor	Completion Time	Progress up Physical Progress up to June 2021
1	2	3	4	5	6	7	8
W-01	Construction Of Road And Drain Under Araihazar Upazila	13.56	2,361.02	15 September, 2019	MEC Engineers & Construction Ltd.	5-feb-2021	72.04 %
W-02	Construction Of Road And Drain Under Araihazar Upazila	12.17	3,965.11	27 October, 2019	JV of NCEL-PDL	24 Mar-2021	52.73 %
W-03	Construction Of Road ,Bridge and Culvert Under Araihazar Upazila	13.50	3199.00	10 November, 2020	Rezvi Construction-MD.Eunus Al mamun-KK Enterprise-JV	25 Mar,2022	8.41 %
Total		39.23	9,525.13				42.63 %

Savar Upazila:

Package No.	Description	Quantity Of Road(km)	Contract Amount (Lakh Tk.)	Contract Signing Date	Contractor	Completion Time	Physical Progress up to June 2021
1	2	3	4	5	6	7	8
W-01	Construction Of Road ,drain And Bridge -Culvert Under Savar Upazila	12.06	4046.725	8 November, 2020	M. M. Builders & Engineers Ltd-Fast Build JV	23 Mar-22	35.03 %
W-02	Construction Of Road ,drain And Bridge -Culvert Under Savar Upazila	26.24	6709.20	3 rd February, 2021	SEL-UDC JV	2 -Jul-22	19.32 %
W-03	Construction Of Road And Drain Under Savar Upazila	9.98	4,761.46	04 November, 2019	Modern Structures Ltd.	12 mar-21	42.06 %
W-04	Construction Of Road And Drain Under Savar Upazila	13.29	3,081.64	16 March, 2020	M. M. Builders & Engineers Ltd-Fast Build JV	5-July-21	44.93 %
Total		35.33	7843.10				32.80 %

Savar Pourashava:

Package No.	Description	Quantity Of Road(km)	Contract Amount (Lakh Tk.)	Contract Signing Date	Contractor	Completion Time	Physical Progress up to June 2021
1	2	3	4	5	6	7	8
W-01	Construction of road and drain under Savar Pourashava	6.11	3515.42	10 February, 2020	Toma Shikder JV	8-july-21	74.83 %
Total		6.11	3515.42				74.83 %

H. Overall Scenario Of Subproject Implementation

19. Contract has been signed for 13(Thirteen) Packages amounting contract value Taka=66861.2 lac. Overall Physical Progress achieved is 31% while time elapsed for project is 35 %. Overall payment made against civil work is Taka= 13141 lac resulting financial progress 20 %.

20. In readiness thirteen packages, there are 46 roads amounting 175.17 Kilometer (Km), 30 Drains amounting 42.09 Km, 15 Bridges having span 388 meter(m), 46 Culverts having Span 151.78 m and 8 Water control Structures. It may be noted that up to June 2021, total 25.808 Km of Reinforced Cement Concrete (RCC) Road, 4.46 Km of Box Drain, 25.32 Km of Pipe Drain, 1.582 Km of Bituminous Road and 25 Box Culverts have been completed.

I. Gender Equity

21. The project is ensuring safe and comfortable mobility of women, elderly persons, children and specially able people in designing and constructing the subprojects under it. Around 33 km of walkways has been provided in dense settlements areas out of 234 km designed roads in different Packages despite the constraint of land availability. Road Safety Signs for all pedestrians are considered in all road design. Provision of separate women toilets, breast feeding corner are also considered in the design of Solid Waste Management (SWM) plant in Khulna City Corporation (KCC). Gender Action Plan (GAP) is being followed regular basis. Initiative will be taken to ensure women's effective participation in project planning, implementation, monitoring and evaluation.

II. COMPLIANCE STATUS WITH NATIONAL STATUTORY ENVIRONMENTAL REQUIREMENTS

22. The DOE-issued Environmental Clearance Certificate (ECC) (**Appendix 1**) referred to in Sec. I.B covered all subprojects with the exception of Red Category subprojects, and attached no special conditions therewith.

23. As the period of validity of this ECC has been expired, DoE has made consequent renewal of the ECC vide Memo No. DoE/clearance/5194/2013/61; dated 24/03/2021, and this renewal is valid up to February 9, 2022. (**Appendix 2**).

24. **Status on relevant GOB Permits:** The subproject improvement works will not involve any potential tree removal as the subproject schemes are to construct within the right of way. Thus, no permission is required from the forest department. Since our construction is to be carried out on government property, we shall not require any NOCs related to land and property; also, NOCs related to other line departments are not required, the only such event in which an NOC related to line departments may be required, is an event in which we would have to shift any electric pole. However, such a measure (NOC) is not necessary as the electricity department does the shift themselves if applied to with the required amount of fees. However, the details of acquiring permits and NOC have been discussed in subproject respective DDR reports.

25. All requirements of the Department of Environment, related to environmental clearance/renewal, are being met, and DOE does not require monitoring and reporting for CRDP-2 subprojects. There is no other regulation of the Government of Bangladesh related to environmental management applicable to CRDP-2.

III. COMPLIANCE STATUS WITH ENVIRONMENTAL LOAN COVENANTS

26. The covenants to the loan agreement with ADB requires that subprojects are designed, constructed, operated, and maintained in accordance with Borrower's Environmental Conservation Rule 1997, ADB's Safeguard Policy Statements (2009) and EARF prepared for the Project and agreed between the Borrower and ADB. Other covenants written into the loan agreement related to disclosure, grievance redress and environmental safeguards are listed in **Table 4**, and the status of compliance is described in the table.

Table 4: Compliance Status with Environmental Loan Covenants

COVENANTS	Reference in the Loan/Grant Agreement	Status of Compliance (As of June 2021)
Particular Covenants:		
<p><u>Environment</u></p> <p>1. <i>Schedule 5. Para. 7.</i> The Borrower shall ensure or cause LGED and Project Implementing Agencies to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project, each Subproject 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; (c) the EARF; and (d) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</p>	<p>Schedule 5 to the Ordinary Operations Loan Agreement</p>	<p><u>Complied with.</u></p> <p>All requirements describe in Schedule 5. Para. 7 with regard to all applicable laws and regulations concerning overall environmental safeguards and environmental safeguards monitoring are being satisfactorily met</p>
<p><u>Human and Financial Resources to implement safeguards Requirement</u></p> <p>2. <i>Schedule 5. Para. 11.</i> The borrower shall make available or caused LGED and the project implementing agencies to make available necessary budgetary and human resources to fully implement the EMPs and the RPs.</p>		<p><u>Complied with</u></p> <p>Sufficient funds are being allocated in the project costs for hiring consultants, and to fully implement the environmental safeguards, EMPs and RPs.</p>

<u>Safeguards - Related Provisions in Bidding Documents and Works Contracts</u>	Schedule 5 to the Ordinary Operations Loan Agreement	<u>Complied with.</u>
<p>3. <i>Schedule 5. Para. 12.</i> The Borrower shall ensure or cause LGED and the Project Implementing Agencies to ensure that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <ul style="list-style-type: none"> (a) comply with the measures relevant to the contractor set forth in the IEEs, the EMPs, and the RPs (to the extent they concern impacts on affected (b) make available a budget for all such environmental and social measures; (c) provide the Borrower with a written notice of any unanticipated environmental or resettlement risks or impacts that arise during (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; (e) reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction. 		<p>All requirements set forth in Schedule 5. Para. 12 with regard to safeguards related provision in Bidding Documents and Works Contracts are being adequately met</p>

COVENANTS	Reference in the Loan/Grant Agreement	Status of Compliance (As of June 2021)
<p><u>Safeguards Monitoring and Reporting</u></p> <p>4. <i>Schedule 5. Para. 13.</i> The Borrowers shall cause LGED to do the following:</p> <p>(a) submit semiannual safeguard Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission ;</p> <p>(b) 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 IEEs, the EMPs or the RPs promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMPs promptly after becoming aware of the breach</p>	<p>Schedule 5 to the Ordinary Operations Loan Agreement</p>	<p><u>Being complied with.</u></p> <p>All requirements lay down in Schedule 5. Para. 13 with regard to safeguards Monitoring and Reporting are being met satisfactorily</p>

COVENANTS	Reference in the Loan/Grant Agreement	Status of Compliance (As of June 2021)
<p><u>Safeguards Monitoring and Reporting</u></p> <p>5. <i>Schedule 5. Para. 13.</i> The Borrowers shall cause LGED to do the following:</p> <p>(a) submit semiannual safeguard Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission ;</p> <p>(b) 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 IEEs, the EMPs or the RPs promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMPs promptly after becoming aware of the breach</p>	<p>Schedule 5 to the Ordinary Operations Loan Agreement</p>	<p><u>Being complied with.</u></p> <p>All requirements lay down in Schedule 5. Para. 13 with regard to safeguards Monitoring and Reporting are being met satisfactorily</p>

IV. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT PLAN

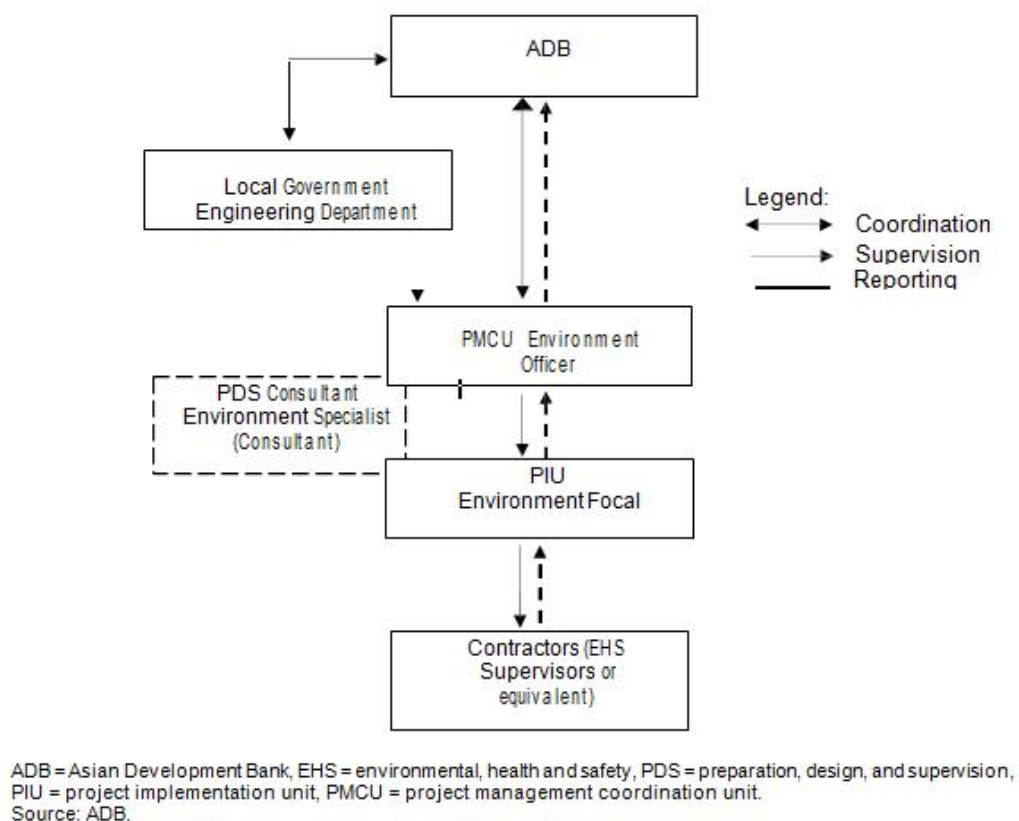
A. Environmental Safeguard Framework

26. The Environmental Assessment and Review Framework (EARF) has been developed in accordance with ADB SPS, 2009 and Government of Bangladesh environmental laws and regulations to guide subproject selection, screening and categorization, environmental assessment, and preparation and implementation of safeguard plans of subprojects and to facilitate compliance with the requirements specified in ADB SPS, 2009. The EARF (i) describes the proposed subprojects including safeguards criteria that are to be used in selecting subprojects and/or components; (ii) explains the general anticipated environmental impacts of the subprojects; (iii) specifies the requirements in subproject screening and categorization, assessment, and planning; (iv) arrangements for meaningful consultation with affected person and other stakeholders and information disclosure requirements; (v) PMCU capacity to implement national laws and ADB's requirements and needs for capacity building; (vi) specifies implementation procedures and institutional arrangements; (vii) specifies monitoring and reporting requirements; and (viii) describes the respective responsibilities of PMCU, PIUs, and ADB in relation to the preparation, implementation, and progress review of environment safeguards compliance of the project. The EARF will be reviewed regularly and, if necessary, updated during implementation when (i) new types of unanticipated impacts are identified requiring review of applicability and relevance, and/or (ii) when there is any change in legal and regulatory framework. None of the provisions of EARF will be relaxed or lowered in the subsequent revisions and updates. The most important compliance requirements are:

- (i) Compliance with the exclusion and subproject selection criteria;
- (ii) Meeting meaningful consultation and disclosure requirements;
- (iii) ADB approval of IEE prior to invitation of bids; and
- (iv) obtaining all necessary regulatory clearances and approvals prior to award of contract

27. The IEEs, which include the environmental management plans (EMPs) will be prepared for each subproject in accordance with ADB SPS, 2009 and EARF. The IEEs will also include environmental compliance audit of existing facilities that will be rehabilitated or expanded under the project, and due diligence of associated facilities as defined in ADB SPS, 2009. The IEEs will form part of the bid and contract document. No works can commence until final IEEs are approved by ADB, and if required, will be further updated for ADB's review during the implementation. In the event of unanticipated impact and/or any design change and/or non-compliance during project implementation, the IEE will be updated to include (i) assessment of the unanticipated impact and corresponding mitigation measures, and/or (ii) information on the design change and assessment of associated environmental impacts, if any, and/or (iii) corrective actions, associated cost and schedule; respectively. All IEEs will be disclosed on ADB, executing, and implementing agencies websites. Environmental Safeguard Implementation Arrangement is shown in the following figure.

Figure 2: Environmental Safeguard Implementation Arrangement



B. Initial Environmental Examination (IEE)

Initial Environmental Examination (IEE) of 5 (five) sub-projects namely, Singair Pourashava (W-01), Mongla Pourashava (W-01), Jashore Pourashava (W-01), Jhikargacha Pourashava (W-01) and Noapara Pourashava (W-01) have been prepared in this reporting quarter. A total of 24 (twenty four) IEEs has so far been completed. The status of the IEEs in different packages under different Project Implementation Unit (PIU) up to June 2021 is presented below in **Table 5**.

Table 5: Status of IEEs for Subprojects of different packages

Sl. No.	Name of PIU and Package	Status of IEE June 2021	Remarks
1	Gazipur City Corporation: GCC (W-01)	Completed	Approved by ADB
2	Gazipur City Corporation: GCC (W-02)	Completed	Approved by ADB
3	AraihazarUpazila: Araihazar (W-01)	Completed	Approved by ADB
4	AraihazarUpazila: Araihazar (W-02)	Completed	Approved by ADB
5	AraihazarUpazila: Araihazar (W-03)	Completed	Approved by ADB
6	SavarUpazila: Savar (W-01)	Completed	Approved by ADB
7	SavarUpazila: Savar (W-02)	Completed	Approved by ADB
8	SavarUpazila: Savar (W-03)	Completed	Approved by ADB
9	SavarUpazila: Savar (W-04)	Completed	Approved by ADB
10	RupganjUpazila: Rupganj (W-01)	Completed	Approved by ADB
11	RupganjUpazila: Rupganj (W-02)	Completed	Approved by ADB
12	RupganjUpazila: Rupganj (W-03)	Completed	Approved by ADB
13	SavarPourashava: SavarPourashava (W-01)	Completed	Approved by ADB

Sl. No.	Name of PIU and Package	Status of IEE June 2021	Remarks
14	Construction of Composting Plant and Associated Facilities for KCC	Completed	Approved by ADB
15	Manikganj Pourashava: (W01)	Completed	Approved by ADB
16.	Gazipur City Corporation: GCC (W-03)	Completed	ADB Approval To Receive
17.	Dhamrai Upazila: Dhamrai (W-01)	Completed	ADB Approval To Receive
18.	Sonargaon Pourashava (W-01)	Completed	ADB Approval To Receive
19.	Narasingdi Pourashava (W-01)	Completed	ADB Approval To Receive
20	Singair Pourashava (W-01)	Completed	ADB Approval To Receive
21	Mongla Pourashava (W-01)	Completed	ADB Approval To Receive
22	Jashore Pourashava (W-01)	Completed	ADB Approval To Receive
23	Jhikargacha Pourashava (W-01)	Completed	ADB Approval To Receive
24	Noapara Pourashava (W-01)	Completed	ADB Approval To Receive

Table 6: Package-wise IEE Documentation Status

Package Number	Final IEE based on Detailed Design			Site-specific EMP (or Construction EMP) approved by Project Director? (Yes/No)	Remarks
	Not yet due (detailed design not yet completed)	Disclosed on project website (provide Link)	Final IEE provided to Contractor/s (Yes/No)		
Gazipur City Corporation: GCC (W-01)	Detailed Design Complete	Cleared by ADB, disclosed on http://oldweb.lged.gov.bd/ProjectLibrary.aspx?projectID=867	Yes	Yes	All statutory clearance/s, no-objection certificates, permit/s, etc. have been obtained prior to award of contract/s. (Refer Appendix 2 & 3 : all Environmental clearance obtained)
Gazipur City Corporation: GCC (W-02)	Detailed Design Complete	As above	Yes	Yes	
AraihazarUpazila: Araihazar (W-01)	Detailed design Complete	As above	Yes	Yes	
AraihazarUpazila: Araihazar (W-02)	Detailed design Complete	As above	Yes	Yes	
AraihazarUpazila: Araihazar (W-03)	Detailed design Complete	As above	Yes	Yes	
SavarUpazila: Savar (W-01)	Detailed design Complete	As above	Yes	Yes	
SavarUpazila: Savar (W-02)	Detailed design Complete	As above	Yes	Yes	
SavarUpazila: Savar (W-03)	Detailed design Complete	As above	Yes	Yes	
SavarUpazila: Savar (W-04)	Detailed design Complete	As above	Yes	Yes	
RupganjUpazila: Rupganj (W-01)	Detailed design Complete	As above	Yes	Yes	
RupganjUpazila: Rupganj (W-02)	Detailed design Complete	As above	Yes	Yes	
RupganjUpazila: Rupganj (W-03)	Detailed design Complete	As above	Yes	Yes	
SavarPourashava: SavarPourashava (W-01)	Detailed design Complete	As above	Yes	Yes	
Construction of Composting Plant and Associated Facilities for KCC	Detailed design Complete	As above	Yes	Yes	
Manikganj Pourashava: (W01)	Detailed design Complete	As above	Yes	Yes	

Package Number	Final IEE based on Detailed Design			Site-specific EMP (or Construction EMP) approved by Project Director? (Yes/No)	Remarks
	Not yet due (detailed design not yet completed)	Disclosed on project website (provide Link)	Final IEE provided to Contractor/s (Yes/No)		
Gazipur City Corporation: GCC (W-03)	Detailed design Complete	Cleared by PMCU and submitted to LGED for disclosure on lged web	yes	yes	
Dhamrai Upazila: Dhamrai (W-01)	Detailed design Complete	As above	Not yet contracted	yes	
Sonargaon Pourashava (W-01)	Detailed design Complete	As above	Not yet contracted	yes	
Narasingdi Pourashava (W-01)	Detailed design Complete	As above	Not yet contracted	yes	
Singair Pourashava (W-01)	Detailed design Complete	As above	Not yet contracted	yes	
Mongla Pourashava (W-01)	Detailed design Complete	As above	Not yet contracted	yes	
Jashore Pourashava (W-01)	Detailed design Complete	As above	Not yet contracted	yes	
Jhikargacha Pourashava (W-01)	Detailed design Complete	As above	Not yet contracted	yes	
Noapara Pourashava (W-01)	Detailed design Complete	As above	Not yet contracted	yes	
Chalna Pourashava (W-01)	Detailed design Complete	As above	Not yet contracted	yes	

Table 7: Package-wise Contractor/s' Nodal Persons for Environmental Safeguards

Package Name	Contractor	Nodal Person	Email Address	Contact Number
Araihazar W-01	MEC Engineers & Construction Ltd	Md. Rezaul Karim	Mecitd64@gmail.com	+8801753579385
Araihazar W-02	JV of NCEL-PDL	Shaikh Shahanur Alam	pdl11@hip.prangroup.com	+8801704130188
Araihazar W-03	Rezvi Construction-Md. Eunus Al Mamun-KK Enterprise JV Mamun	Md. Saiful Islam Khan	Saiful Khan9381@gmail.com	+8801741589747
Rupganj W01	JV NDE-TBL	Faruk Ahmed	Lged-01@ndebd.com.bd	+8801729052571
Rupganj W-02	JV of NCEL-PDL	Md. Sultan Mahmud	pdl293@prangroup.com	+8801704130201
Rupganj W-03	JV of NCEL-PDL	Md. Masud	pdl292@prangroup.com	+8801704130291
GCC W-01	RAB-RC(pvt) Ltd & HossainConstruction (Pvt) Ltd	Md. Atik Hasan	Atikhasan0073@gmail.com	+8801313122865
GCC W-02	RAB-RC(pvt) Ltd & HossainConstruction (Pvt) Ltd	Md. Azad Sarwar	Azadsarwar538@gmail.com	+8801716173306
Savar W-01	MM Builders & Engineers Ltd-Fast Build JV	Sheikh Abu Zafor	Engrsheikhabuzafor289@gmail.com	+8801732124935
Savar W-03	Modern Structure Ltd.	Md. Altaf Hossain	Mahmae12@gmail.com	+8801719608136
Savar W-04	M.M Builders & Engineers Ltd-Fast Build JV	Sonjoy Kumer debnath	sonjoyqm@gmail.com	+8801742555760
Savar Poura W-01	Toma Shikder JV	Md. Hasan Hiru	Mdhasanheru444@gmail.com	

Table 8: Summary of Environmental Monitoring Activities (for the Reporting Period)

Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring
Design Phase						
Impacts (listed from IEE) documented in the table below.	Mitigation measures (listed from IEE) documented in the table below	Impacts, issues, concerns and mitigation measures during the design phase are illustrated in Sec. V of the corresponding Subproject IEE Report.	The system for environmental monitoring consists of observations using a checklist for comparison with design performance that reflects the requirements of the construction specifications.	Monitoring was conducted at the design section of the office before making field visit	Before making field visit at site of GCC W--01, Savar W-04 Savar Pour W-01 on 30/4/21 and Araihaazar W-01/02 and Rupganj W-02 on 31/03/21	Dr. Md. Nurul Islam (Environ.I Consultant), Md. Samsuzzaman (Social Consult) and Md Abdullah AIFaruk (C0mmunity Dev Consultant)
Construction Phase						
Impacts (List from IEE)	Mitigation Measures (List from IEE)	Parameters Monitored (As a minimum those identified in the IEE should be monitored)	Method of monitoring	Location of Monitoring	Date of Monitoring Conducted	Name of Person Who Conducted the Monitoring
For the sake of brevity, the list of impact due to subproject construction is not included here (EMP Table provided in the IEE Report may be consulted)	For the sake of brevity, mitigation measures against the identified impacts due to the subproject construction are not listed here (EMP Table may be consulted)	Impacts, issues, concerns and mitigation measures during the construction phase are illustrated in Sec. V of the corresponding Subproject IEE Report may be consulted. Subproject activities are not large enough to produce any significant impact on the physical resources (air quality, noise level and surface & ground water quality of the subprojects). Dept. of soil, water & environment of Dhaka University has been engaged to undertake the environmental quality tests of above parameters. These test results and their interpretation has	The system for environmental monitoring consists of observations using a checklist for comparison with construction performance that reflects the requirements of the construction specifications.	Monitoring was conducted at the subproject construction sites and its surroundings	Field Monitoring was conducted at site of GCC W--01, Savar W-04 Savar Pour W-01 on 30/4/21 and Araihaazar W-01/02 and Rupganj W-02 on 31/03/21 For the sake of briefness, 2 (two) sample filled-in EMP compliance monitoring checklists have been included in Appendix 4 . Field monitoring findings have been précised in Appendix 5 .	Dr. Md. Nurul Islam (Environ.I Consultant), M. Samsuzzaman (Urban Dev. Specialist) and Md Abdullah AIFaruk (Community Dev Consultant)
For further detail, the table below may be seen	For further detail, the table below may be seen					

		been in the Sec. VI				
Operational Phase						

Impacts (List from IEE)	Mitigation Measures (List from IEE)
Design phase	
Road accidents	Ensure to include in the design the following: (i) road signages in critical areas or curves, (ii) speed limiters such as humps, (iii) barricades or similar structures in accident-prone areas, and (iv) pedestrian crossing lanes, among others.
Disruption of utility services;	<ul style="list-style-type: none"> • Avoid alignments that will run over trees and utilities such as electric poles, etc. • Avoid placing alignment near heritage buildings and religious structures
Impacts to qualities of ambient air, surface water, groundwater, and land.	<ul style="list-style-type: none"> • Ensure all bid and contract documents prepared and finalized have copy of the IEE as attachment
Inappropriate location for construction camps will impact the general welfare and health and safety of the workers	<ul style="list-style-type: none"> • Identify construction camp sites that are strategically located relative to the work sites. • Ensure these camp sites can be easily provided with the basic amenities for the workers.
Construction phase	
Trenching and excavation, run-off from stockpiled materials and chemical contamination from fuels and lubricants may result to silt-laden runoff during rainfall, which may cause siltation and reduction in the quality of adjacent bodies of water.	<ul style="list-style-type: none"> • Reuse excess spoils and materials • Disposal site in designated areas. • Earthworks during dry season • Stockyards at least 300m away from watercourses. • Fuel and other petroleum products stored at storage areas away from water drainage and protected by impermeable lining and bunded 110%. • Take precautions to minimize the overuse of water • Prevent wastewater into water sources. • Ensure safe water diversion. • No obstruction in flowing water.
Work at the dry season and transporting construction materials may increase dust, carbon, monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons in air environment	<ul style="list-style-type: none"> • Use of physical controls, sprays, covers, compaction, screening, enclosure, windbreakers, binders and road surfacing • Cover delivery trucks during transport. • Construction vehicle's speed limited to 30kph. • Use of vehicles with government registration and complying with Bangladesh vehicle emission standards. • Prohibition of open burning of solid waste. • Minimize stockpile height.
Temporary increase in noise level and vibrations by excavation equipment, and the transportation of materials, equipment and people.	<ul style="list-style-type: none"> • Prepare work schedule with community consultation and local administration • Overtime work restricted • Use of low noise generating equipment. • Minimize drop heights • No use of horns unless necessary • Use modern vehicles and machinery with low noise emissions • Maintain low noise levels • Warning signs in noise hazard areas. Require workers to wear ear plugs while in these areas. • Identify vibration risk to nearby structures. Take caution working in such areas.
Potential cutting of trees along road alignments	<ul style="list-style-type: none"> • Tree cutting will be avoided, or minimized if total avoidance is not possible, for this subproject. • In case of unavoidable tree cutting, replacement of 10 trees per tree cut and follow the LGED tree plantation program to implement this measure (see Appendix 7 for the LGED Manual).

<p>Potential road closures due to construction activities. Hauling of construction materials and operation of equipment on-site can cause traffic problems</p>	<ul style="list-style-type: none"> • Implement the Traffic Management Plan • Prepare suitable transportation routes • Safe passage for vehicles and pedestrians • Schedule material deliveries on low traffic hours. • Erect and maintain barricades if required • Inform through display board about nature, duration of construction and contact for complaints • Complete the work quickly in nearby institution, place of worship, business, hospitals, and schools. • Consult with business and institutions for work schedules. • Restore damaged properties and utilities
<p>Construction works will impede the access of residents and business in limited cases. Construction works will raise danger to community people</p>	<ul style="list-style-type: none"> • Restrict work force in designated areas. • Identify stockyard areas in consultation with local administration • Work on private land requires written permission of landowners. • Prefer small mechanical excavator for trenching • Prohibit alcohol and drugs on site • Prevent excessive noise; • Code of conduct for workers includes restricting workers in designated areas, no open defecation, no littering, no firewood collection, no fire except designated places, no trespassing, no residence at construction sites, and no obligation to potentially dangerous work • Follow international best practices on community health and safety such as those in Section 4.3 of World Bank Environmental Health and Safety (EHS) Guidelines on Construction and Decommissioning Activities • Maintain a complaint logbook in workers camp and take action promptly of complaints
<p>There is invariably a safety risk when construction works such as excavation and earthmoving are conducted in urban areas. Workers need to be mindful of the occupational hazards, which can arise from working at height and excavation works.</p>	<ul style="list-style-type: none"> • Comply with Bangladesh Labor Act 2006. • Follow international best practices on occupational health and safety such as those in Section 4.2 of World Bank EHS Guidelines on Construction and Decommissioning Activities. • Train all site personnel on environmental health and safety • Exclude public from worksites • Provide personal protective equipment to workers and ensure their effective usage • Document procedures to be followed for site activities. • Maintain accident reports and records. • Make first aid kits readily available. • Maintain hygienic accommodation in work camps. • Ensure uncontaminated water for drinking, cooking and washing. • Ensure clean eating areas. • Ensure sanitation facilities are readily available. • Provide medical insurance coverage for workers. • Provide orientation for guest visitors. • Ensure that visitors do not enter hazard areas unescorted. • Require workers to wear high visibility clothes. • Ensure moving equipment is outfitted with audible backup alarms. • Chemical and material storage areas need to be marked clearly. • Hearing protection equipment enforced in noisy environment.

Table 9: Overall Compliance with CEMP/ EMP

Sub-Project Name	EMP/ CEMP Part of Contract Documents(Y/N)	CEMP/ EMP Being Implemented (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required
GCC W-01 Savar W-04 Savar Pour W-01 Araihazar W-01 Araihazar W-02 & Rupganj W-02	Yes	Yes	Implementation of subprojectworks is progressing amid COVID-19. Under this crisis, field observation and environmental performance demonstrate more or less satisfactory status of implementation. 3 sample filled-in EMP compliance monitoring checklist has been included in Appendix 4 and summary of findings from field visits is included in Appendix 5 . In order to demonstrate the overall environmental safeguard compliances at subproject construction site, some photographs from the sites are displayed below the said Appendix.	Proposed actions and additional measures needed for the smooth implementation of the subproject have been discussed in the field with the concerned engineering and other staff while making routine field visit at construction site

V. APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

A. Environmental Performance

29. Environmental monitoring occurs at the subproject level by observing performance during the construction phase. Environmental specifications reflect general construction requirements identified in the subproject environmental management plans (EMPs). A provisional sum to cover environmental mitigation is included in the bid price where needed; though costs for implementing the general requirements of the environmental specification are considered the responsibility of the contractor and are part of the overall bid price.

B. Subproject Environmental Monitoring

30. The system for environmental monitoring consists of observations using a checklist for recording the EMP Compliance status with contractor performance that reflects the requirements of the construction specifications. The standard EMP Checklist is displayed in **Appendix 1**. During field visit, the environmental specialist discusses the results with the site supervision engineer, and then document the subproject EMP compliance status, and then document the subproject EMP compliance status. It is worth pointing out that the recorded compliance status yielded yes to the compliances with the site-specific EMP of all subproject.

C. Capacity Building

31. Capacity building is aimed at orientation and training of PIU staff in ADB's safeguards policy and management. Training is conducted by the Environment Specialist and covers integration of environmental considerations into project implementation and procedures for monitoring and reporting. Details of the orientation and training have been provided under the heading "Institutional and community capacities strengthened"-Community Consultations, Consultation Workshop and Orientation Session.

Institutional and community capacities strengthened:

32. ***Community Consultations on the subproject IEEs:*** In finalizing the subproject IEEs of, Sonargaon Pourashava (W-01), Narasingdi Pourashava (W-01), Singair Pourashava (W-01), Mongla Pourashava (W-01), Jashore Pourashava (W-01), Jhikargacha Pourashava (W-01), Noapara Pourashava (W-01) and Chalna Pourashava (W-01), Consultation Meetings at different time and space were conducted with concerned community and stakeholders at the respective subproject area. To be brief, the details of these consultations are purposely excluded here. For the details of these consultations, the respective IEE reports may be consulted. The main objectives of community consultation was to disseminate information about subproject interventions related to road and drainage improvement under the subproject. And further to i) Evaluate the existing situation of road & drainage condition and identify the issues, ii) find way forward to address the identified issues through planning process and public consultation, and iii) introduce second CRDP among the stakeholders, and iv) listen to the stakeholders about their experiences, and recommendations

33. ***Consultation Workshop on Solid Waste Management (SWM) in KCC:*** A Consultation Workshop was held on 9th March 2021 at Khulna City Corporation (KCC) on Solid Waste Management (SWM) Plant to be implemented under KCC. Mayor, Khulna City Corporation, Community and Stakeholders within Khulna City Corporation attended the workshop. The Objective of workshop was to disseminate information about Solid Waste Management Plant, explore recommendation and participation of stakeholders in planning process to create a sense of ownership among them. A total of 48 Participants attended in Consultation Workshops of which 8 were female (16.7%). The list of the Participants attended the workshop is enclosed in **Appendix 7**.

Photographs from Consultation Workshop



**Consultation Workshop on Solid Waste Management (SWM) in KCC
(9/03/2021)**



**Consultation Workshop on Solid Waste Management (SWM) in KCC
(9/03/2021)**

34. ***Orientation Session on Environmental Safeguard Issues:*** An Orientation Session on Environmental Safeguard Issues was held on March 22, 2021 at LGED Seminar Hall room, Agargaon, Dhaka. . The objective of this Session was to share experience and information, and to provide detailed guidance to all staff of Project Implementation Unit (PIU), Contractors and concerned others on issues related to implementation with particular emphasis on contractual and safeguards issues. The

objective also included highlighting specific responsibilities and activities of staff under PIU LGED, contractor and Preparation, Design and Supervision Consultants (PDS). A total of 32 Participants attended in Orientation Session of which 2 were female (6.3%). The list of the Participants attended the Orientation Session is enclosed in **Appendix 6**. The details of training and capacity building programs conducted during reporting period is given in the table below:

Training and Capacity Building Activities

Date	Name of the Training (i.e EMP, Social safeguard, H&S etc.)	Trainers Details	No. of Participants
22/03/2021	a) Legal bases of environmental safeguards implementation; EMP (anticipated environmental impacts & mitigation measures; construction good practices, mitigation and monitoring and monitoring b) Health & safety issues with particular emphasis on COVID-19 health & safety monitoring guidelines	1) Dr. Md. Nurul Islam, Environmental Safeguard Consultant, CRDP-2 2) Mr. Md. Shamsuzzaman, Urban Development Consultant, CRDP-2 and 3) Mr. Md. Mayen Uddin Tazim, Social Safeguard Consultant, CRDP-2	Total participants= 32 (6.3% female)
Including the above, a cumulative total of the training/orientation sessions/information exchange session conducted till date was 5 (five) and total participants were 209 (two hundred and nine) : the 1 st one held on 22/10/2019 at Narayanganj District LGED Office Seminar Hall, the 2 nd one on 12/11/2019 at Dhaka District LGED Office Seminar Hall, the 3 rd one on 10/09/2020 at Narayanganj District LGED Office Seminar Hall, the 4 th one on 28/11/2020 Seminar Room, Level-12, RDEC, LGED Bhaban, and the 5 th one on 22/03/2021 at Regional Training Centre(RTC), LGED Dhaka.			

Photographs from Orientation Session





**Orientation Session on Environmental Safeguard Issues
(22-03-2021)**

Environmental and social issues discussed in consultation/focus group discussions meetings

35. The orientation-cum-training programme conducted for city corporation, upazilas and pourashavas covered the following:

- Discussed the uniqueness of the CRDP-2 project that has new construction as well as rehabilitation works belonging to various sectors viz. road and drainage improvement and solid waste management, city beautification, etc.
- Explained the need of safeguard documents and implementation of safeguard measures in the project in light of the loan covenants, GOB and ADB requirements...
- Discussed the safeguard issues related with various stages of the project and explain the relationship of safeguard issues and project cycles.
- Discussed the various social issues in the participating *Pourashavas* by safeguard team during implementation of the various Sub-projects. Mitigation measures suggested and implemented in various city corporation/*Pourashavas* was also discussed.
- Specific issues of safeguard measures discussed included issues of the Design Stage and Construction stage.

Consideration of Climate Change Effects in CRDP-2

36. A rapid assessment for the climate change effects in terms of a) Climate Adaptation Assessment (climate proofing) and b) Climate change reduction assessment (Emission Saving) from projects are being considered in the planning and design of the sub-project. Design Implementation and the construction materials used therein is expected to reduce substantial reduction to Greenhouse Gas Emissions. In connection to the above context, it is worthwhile to point out that Solid Waste Management (SWM) shall reduce emission of 22092-tonCO₂(carbon dioxide)/year. (Ref. Waste Concern Consultant, Design Consultant of the proposed solid waste management subproject in Khulna City Corporation).

VI. MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS (AMBIENT AIR, WATER QUALITY AND NOISE LEVELS)

37. In the case of the CRDP-2 subprojects development, environmental impacts during construction phase will not be severe because:

- a) Most of the component works are relatively small and involve straight forward construction, so impacts will be mainly localized and not greatly significant;
- b) Most of the predicted impacts are associated with the construction process, and are produced because of the invasive nature of excavation activities and earth movements; and
- c) Being located in the built-up area of the rural and urban areas, will not cause direct impact on biodiversity values.

Identified general condition of surroundings at the project site	Action taken
(a) Though not severe, noted prominent dust generation at the subproject construction site and in its surrounding areas	The contractor was found to manage this dust pollution by i) taking excavation and construction activities segment-wise i.e 100m - 200m per segment and ii) spraying water intermittently over the dust generating loose soil surfaces.
(b) No muddy water was found to escaping site boundaries or any muddy tracks could be seen at road adjacent areas.	Requires no special attention
(c) No noticeable erosion and sedimentation issue encountered at construction site	Requires no special attention
(d) Secured stockyard was found to exist.	Appended Photographs and EMP compliance monitoring sample checklists and at the end of this report may be seen for overall appraisal of environmental safeguard compliances - items (d) to (j) (Appendix 7)
e) Noticed more or less proper stocking and management of construction materials.	
(f) Noticed adequate provision of sanitation and water supply facilities at labor camp/site office.	
(g) Noticed installation of safety barrier/barricade alongside the vertical cut and excavation of the road under improvement,	
(h) Noticed installation of regulatory safety /warning signs and signals at the construction sites to avoid risk of accident, and signalman was found to controlling the traffic	
(i) Noticed installation of diversions/dedicated pathways for pedestrians.	
(j) Noticed erection/installation signboard with subproject contract details.	
(k) Subprojects construction activities are reported to undertake within the stipulated time space of 8.00 am to 6.00 pm.	

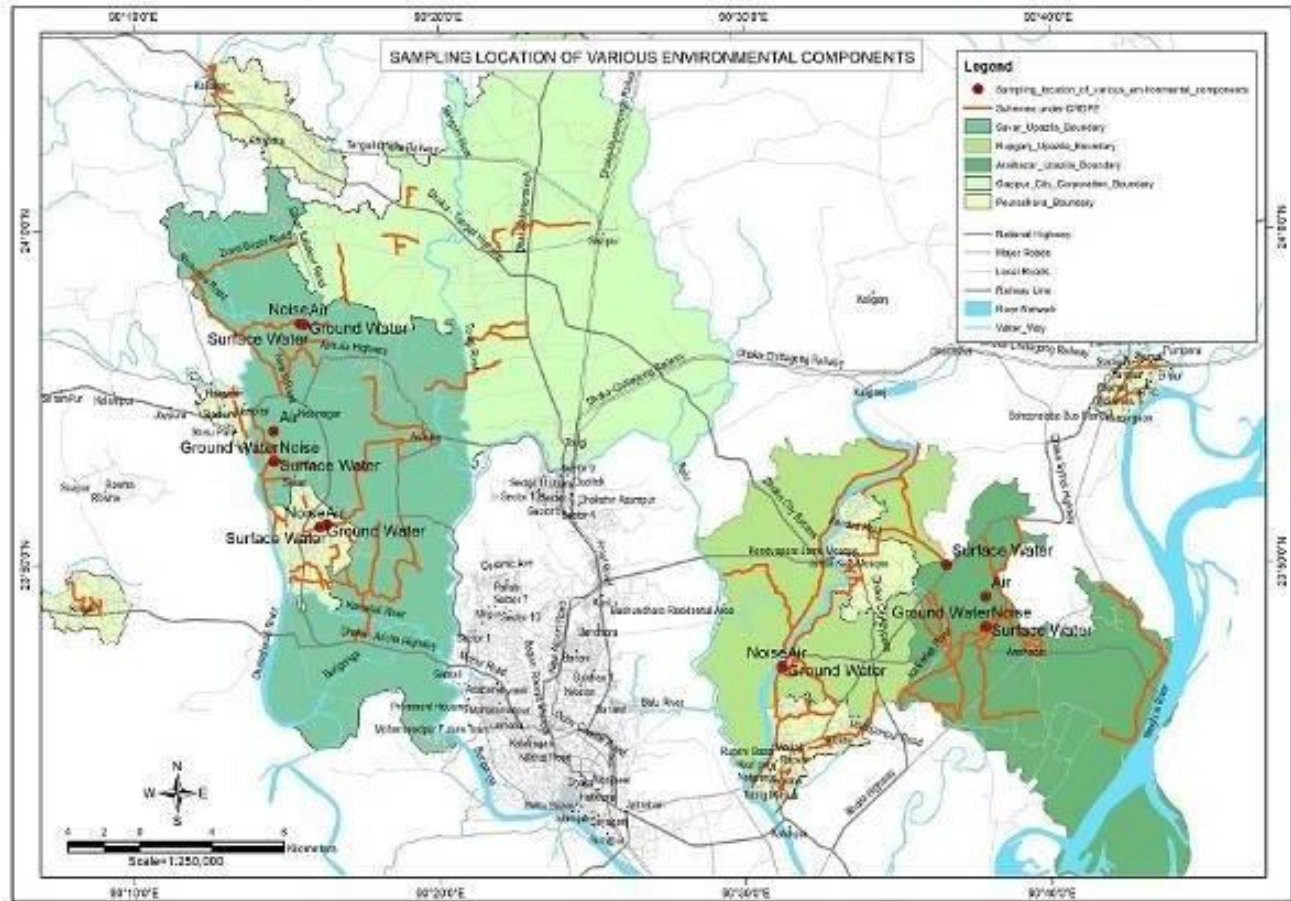
39. As per IEE report and SEMR Template (provided as Appendix in IEE Report) and agreed upon with ADB, the environmental monitoring parameters shall include ambient air, water (both surface- & ground-water) and noise level. According to contract document, at the start of the construction, subproject contractors are required to conduct the environmental quality tests for ambient air, surface- & ground-water quality and noise levels of subproject surroundings for assessing the baseline environmental quality of the subproject surrounding areas. With the progress of the construction works of the subproject, the environmental quality will require to be tested two further times (one at the middle and the other at the end of the construction period). These tested results will then be compared with the baseline data in order to assess the impact of construction works on project surroundings (ambient air, water quality and noise level). For the purpose of environmental baseline data, sampling and analysis of the required environmental parameters of 5 (five) subprojects has been done.. The details of sampling date and location are provided in the table here under:

Sampling Date and Location of various environmental components of subproject Roads				
Subproject Road and Name of Package	Date & Sampling Locations (Coordinates) of various Parameters for Environmental Quality Test			
	Air	Noise	Surface Water	Ground Water
Dhaka-Aricha HWY at Savar Bus Stand Bazar-Kolma via Savar UP Road (Savar/W-01)	(19/11/2020) 23° 51'8.24"N 90°1 6'4.43"E	(19/11/2020) 23° 51'8.24"N 90°1 6'4.43"E	(19/11/2020) 23°51'13.24"N 90°16'18'35"E	(19/11/2020) 23°51'8.56"N 90°16'6.04"E
Balivadhra GC - Dhamshona UP Simuria Up road (Savar /W-04)	(18/11/2020) 23°57'12"N 90°15'33"E	(18/11/2020) 23°57'13.45"N 90°15'26.03"E	(18/11/2020) 23°57'11.56"N 90°15'33.14"E	(18/11/2020) 23° 57' 12.22"N 90°15' 32.54"
Rupshi GC- Kanchan GC via Murapara GC Road (Rupganj/W-01)	15/11/2020 23°46'55"N 90°31'11"E	15/11/2020 23°46'55.77"N 90°31'12.26"E	15/11/2020 23°49'57.34"N 90°36'35.18"E	15/11/2020 23°46'56.68"N 90°31'11.47"E
Binairchar to Kamrangirchar Road (Araihazar/W-01)	(14/11/2020) 23°48'60"N 90°37'52"E	(14/11/2020) 23°48'6.01"N 90°37'51.47"E	(14/11/2020) 23°48'5.88"N 90°37'51.38"E	(14/11/2020) 23°48'5.71"N 90°37'50.03"E
Nayarhat GC to Savar GC (Savar/W-02)	(20/03/2021) 23°53'60"N 90°14'34"E	(20/03/2021) 23°53'5.61"N 90°14'34.16"E	(20/03/2021) 23°53'5.32"N 90°14'34.30"E	(20/03/2021) : 23°53'5.82"N 90°14'35.51"E

Sampling location map showing monitoring sites are displayed in the **Figure 3** below:

For the sake of brevity, not all the lab test results for ambient air and water quality and noise level are included in this report. As sample, only the test results of 3 (three) subprojects is included at the end of this report.

Figure 3: Location of the monitoring sites of environmental parameters



Analytical results and analysis of the ambient air, water quality and noise levels

a) Air quality

Ambient Air Quality Monitoring Technique:

40. **SPM, PM10 and PM2.5:** Particulate matters (SPM, PM10 and PM2.5) were determined with a real time particle mass counters instrument AEROCET, Model 531, USA. Portable laser particle counters (Dylos, Made: UK) were also used for the comparison of the particulate matters (PM10 and PM2.5). High Volume Air Sampler Method was also employed for the collection of SPM. Direct measurement of NO_x, SO_x and CO etc. was conducted on a spot over a period of 8-hrs by using an instrument named Aeroquel Gas Analyser equipped with NO_x, SO_x and CO sensors (Model: 500, New Zealand).

To assess the base data (at the start of the subproject construction) of the ambient air quality, certain air pollutant parameters of the selected subproject sites were tested. The results of air quality parameters including the time average of each standard are presented in **Table 10** and reference for the amended air quality standard of ECR 1997 are presented below the table.

Table 10: Air Quality Test Results at and around the proposed subproject site

Parameter	Unit	Concentrations of Ambient Air Quality at subproject site															DOE- ECR 1997 (Urban Standard)	DoE Duration (time average)	WHO Guidelines
		Savar/W-01)			Savar/W-02			Savar/W-04			Rupganj/W-01			Araihazar/W-01					
		Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg			
CO	ppm	0.011	0.018	0.012	0.012	0.036	0.023	0.003	0.016	0.014	0.026	0.031	0.019	0.000	0.001	0.001	35 ppm 9 ppm	1 hr 8 hr	10 µg/m ³
CO ₂	ppm	639	645	640				639	678	658	483	730	670	639	651	645			
NO _x (NO+NO ₂)	ppm	0.040	0.053	0.048	0.041	0.044	0.043	0.006	0.041	0.039	0.040	0.091	0.052	0.019	0.100	0.051	0.053 ppm	Annual	40 µg/m ³ (1 hr)
SO ₂	ppm	0.010	0.040	0.021	0.018	0.032	0.021	0.011	0.019	0.016	0.009	0.056	0.028	0.010	0.023	0.019	0.14 ppm	24 hr	20 µg/m ³ (24 hr)
SPM	µg/m ³	66	102	90	97	112	105	60	98	79	99	233	166	88	103	96	200 µg/m ³	Annual	
PM 2.5	µg/m ³	42	86	48	51	69	57	28	56	46	26	76	42	36	45	39	65 µg/m ³	24 hr	25 µg/m ³ (24 hr)
PM 10	µg/m ³	51	89	68	87	98	93	54	90	62	53	110	86	66	78	63	150 µg/m ³	24 hr	50 µg/m ³ (Annual)
Pb	µg/m ³	bdl	bdl	bdl	bdl	bdl	bdl	bdl	bdl	bdl	0.0	0.0	0.0	bdl	bdl	bdl	0.5 µg/m ³ (annual)	Annual	-

bdl: beyond detection limit

Reference for the amended air quality standard of ECR 1997

Description of Parameters	Unit	Concentration of Ambient Air Quality Parameters			DoE ECR 1997 (Urban Standards)	DoE Duration time average	WHO guidelines (µg/m ³)
		Min	Max	Avg.			
Carbon Monoxide (CO)	ppm	0.026	0.031	0.019	35 ppm	1 hour	-
					9 ppm	8 hours	
Carbon Dioxide (CO ₂)	ppm	483	730	670	-		-
Nitrogen Dioxide (NO ₂)	ppm	0.040	0.091	0.052	0.053 ppm	Annual	40 (1 hr)
Sulphur Dioxide (SO ₂)	ppm	0.009	0.056	0.028	0.14 ppm	(24 hr)	20 (24 hr)
					0.03 ppm	Annual	
Suspended Particulate Matter (SPM)	µgm ⁻³	99	233	166	200 µgm ⁻³	Annual	
Particulate Matter (PM ₁₀)	µgm ⁻³	53	110	86	150 µgm ⁻³	24 hours	50 (Annual)
Particulate Matter (PM _{2.5})	µgm ⁻³	26	76	42	65 µgm ⁻³	24 hours	25 (24 hrs)
Lead (Pb)	µgm ⁻³	nil	nil	nil	0.5 µgm ⁻³	Annual	-
Temperature	°c	28	31	29	-	-	-
Relative Humidity	%	53	60	55	-	-	-

Ambient air quality standards for Bangladesh and WHO Guideline

Pollutant	Bangladesh standard	WHO Guideline	Averaging time
Carbon Monoxide (CO) (mg/m ³)	10 (9 ppm)	10	8 hour(a)
	40 mg m ³ / (35 ppm)	30	1 hour(a)
Oxides of Nitrogen (NO _x) (µg/ m ³)	100 µg/ m ³ (0.053 ppm)	5	Annual
Particulates (PM10) (µg/ m ³)	50 µg/ m ³	15	Annual(b)
	150 µg/ m ³	50	24 hours(c)
Fine Particulates (PM2.5) (µg/ m ³)	15 µg/ m ³	10	Annual
	65 µg/ m ³	25	24 hours
Ozone (O ₃) (µg/ m ³)	235 µg m ³ / (0.12 ppm)	-	1 hour(d)
	157 µg/ m ³ (0.08 ppm)	100	8 hours
Sulfur dioxide (SO ₂) (µg/ m ³)	80 µg/ m ³ (0.03 ppm)	-	Annual
	365 µg/ m ³ (0.14 ppm)	20	24 hours(a)

41. It is found, by comparing with the standard limit set by the DOE, that values for SPM, PM 2.5 and PM 10 are within permissible limits. The gaseous pollutant such as CO remain well within permissible limit, and the recorded values of SO₂ and NO_x are within the DoE's standard.

a) Surface and Groundwater Water quality

Sampling procedure including sample preservation and transportation process, lab information in brief:

42. Surface water samples were collected from nearby ponds/inland water bodies and Groundwater samples were collected from nearby tubewell of each subproject site. The depth of tubewells was in the range of 100-150m. Sample bottles were preconditioned with 5% nitric acid and rinsed with distilled deionized water. Each sample was collected in acid-washed 500 mL plastic bottle. Duplicate samples were taken per each sampling. Sample location was marked on the bottle and suitable preservatives were added for storage till completion of quantitative chemical analysis. The bottle was filled to the brim with water taking care that no air bubble was trapped within the water sample. Samples were transferred to the laboratory in coolers containing ice to reduce the degradation of samples before analysis. Immediately after collection, samples were transferred to the laboratory.

43. Considering the risks of pollution from subproject construction related activities, tests of existing surface water and groundwater have been performed on important parameters to verify their present qualities. A total of five surface water samples collected from seven different nearby ponds from subproject sites, and another five ground water samples collected from five different nearby drinking water tubewell from subproject sites to test their existing quality. These data will constitute the baseline information, which can be referred to in the construction and post-construction monitoring at the subproject sites. The indicated surface and ground water test results are presented below in the **Tables 11 & 12** respectively.

Surface Water

44. The test results show that the levels of pH, DO, BOD, 20°C (5 days) levels and total Coliform count of collected surface water samples are within the standard set by ECR-97(Schedule 3A), and the parameters COD, Fe, Mn, As, NO³-N, and Chloride are also found to be within acceptable the limits as per ECR standards, 1997 (Schedule 10).

Table 11: Surface Water quality test results at the proposed subproject sites

Subproject Site/areaa	pH	Ec μS/cm	DO mg/l	BOD ^{5d} mg/l	COD (mg/l)	TSS mg/L	TDS mg/L	Fe mg/l	Mn mg/l	As ppb	Turbi- dity NTU	NO3-N mg/l	Cl- mg/l	Tota Coliform cfu/100ml
Savar/W-01)	7.20	152.8	4.78	1.46	10.92	6.21	221	<0.20	<0.10	2.57	14.90		31.29	6.0 x10 ³
Savar/W-02	7.16	101.7	5.20	0.53	3.18	7.12	136.6	<0.20	<0.20	4.52		4.84	8.22	1.2x 10 ²
Savar/W-04	7.51	162.7	4.95	1.78	14.18	5.22	253	<0.20	<0.10	4.52	10.5	7.38	21.64	4.5x10 ²
Rupganj/W-01	7.48	94.6	5.68	0.44	6.18	6.22	133	<0.20	<0.10	2.00	7.22	3.87	11.32	<1.0
Araihazar/W-01	7.42	127.6	5.08	1.12	22.18	6.21	192	<0.20	<0.10	3.99	8.28	7.76	11.92	54
Standard per ECR,1997 (Schedule 3A)	6.5-8.5		5 Or above	6 or less	NYS			NYS	NYS	NYS		NYS	NYS	5000 or less
Standard per ECR,1997 (Schedule 10)	6-9		4.5-8	50	200			2	5	20		10	600	NYS

Ground Water

45. As per documented results, the tested parameters pH, DO, BOD, 20°C (5 days), As, chloride, Fe and TDS values agrees well with the set standard of ECR, 1997. Further, on the basis of BOD levels (Banerji, 1997 & Biney, 1982), it may be mentioned that all the groundwater samples fall under the category unpolluted (BOD < 4 mg/l). DO values of groundwater samples are more or less within the DoE's standard limit.

Table 12: Ground Water quality test results of the proposed subproject sites

Subproject Site/areaa	pH	DO (mg/l)	BOD ^{5d} (mg/l)	COD (mg/l)	EC (μS/Cm)	Fe (mg/l)	Mn (mg/l)	As (ppb)	NO3-N (mg/l)	Chlo- ride (mg/l)	TSS (mg/l)	TDS (mg/l)
Savar/W-01)	6.93	7.22	< 0.1	0.86	134.4	<0.20	0.27	3.61	2.08	14.24	0.0	186
Savar/W-02	7.06	7.12	< 0.1	1.02	99.8	<0.20	<0.20	3.12	0.0	6.58	0.0	99.5
Savar/W-04	7.05	7.0	< 0.1	1.12	170.8	<0.20	<0.10	3.62	1.86	22.19	0.0	264
Rupganj/W-01	7.00	7.10	< 0.1	0.0	329.44	<0.20	0.25	2.79	1.48	33.55	0.0	297
Araihazar/W-01	7.35	7.44	< 0.1	0.0	168.9	<0.20	0.24	3.10	1.14	12.07	0.0	201
Standard per ECR,1997 (Schedule 3B)	6.5-8.5	6.0 or above	0.2	4.0	NYS	0.3-1.0	0.1	50.0	10.0	150-600		1000

Noise level***Sampling procedure including monitoring duration, instrument etc.:***

46. The current noise levels along the proposed subproject sites have been measured during day (8am – 9am, 12am – 1pm & 6pm – 7pm) time to identify existing noise level in the subproject area. A sound level meter/noise level meter was used to quickly determine the ambient noise level in the road construction site. The specification of sound level meter was: TES 1350A; Range: Low 35-100dB, High 65-130dB.

47. Noise is another potentially threat to the quality of an environment. Noise levels vary at the given locations according to ambient noise. The background noise level at the subproject area is primarily due to the movement of road traffic. The noise level will vary depending on the traffic volume, vehicle type, road surface conditions, and other factors. However, the noise level is likely to become higher after the improvement of the proposed subproject roads and bridges since the movement of increased number of motorized vehicular traffic will take effect.

48. The current noise levels along the proposed subproject sites have been measured during day (8am – 9am, 12am – 1pm & 6pm – 7pm) time to identify existing noise level in the subproject area and results are given in the **Table 13** here below. According to the result of noise level, it is observed that the measured levels of noise at subproject sites (mixed areas- used as residential, commercial and industrial purposes) are more or less within the standard limit set by DoE and Bangladesh Noise Pollution (Control) Rules, 2006. According to WHO Guidelines, human tolerance limit for comfortable hearing is at noise level 75 dBA. In this context, it can be mentioned that the proposed subproject sites are seemingly free from noise disturbances at present. The tested noise level data can be used as a benchmark of noise level, and can be referred to in the construction and post-construction monitoring.

Table 13: Tested noise level data of subproject sites & DoE standard for Noise Level

Subproject sites	Time						DoE Standard for Noise Level (Schedule # 4, Rule # 12: ECR 1997)	
	0800 - 0900		1200 -1300		1800 - 1900		Residential Area	Mixed Area
	Min dBA	Max dBA	Min dBA	Max dBA	Min dBA	Max dBA		
Savar/W-01)	44.6	62.4	46.4	68.3	49.4	72.8	50 dBA at Day Time and 40 dBA at Night Time	60 dBA at Day Time and 50 dBA at Night Time
Savar/W-02	48.5	59.7	52.4	69.2	50.4	67.0		
Savar/W-04	42.5	58.7	47.4	72.8	47.4	69.0		
Rupganj/W-01	42.6	64.2	48.7	70.0	46.4	67.5		
Araihazar/W-01	41.6	56.2	45.7	67.8	52.4	70.5		-

Note: According to the Bangladesh Noise Pollution (Regulation and Control) Rules, 2006, acceptable sound levels are 55 decibels (dBA) for day time (6 am to 9 pm), and 45 dBA for night time (9 pm to 6 am) in residential areas; 50 dBA for day time and 40 dBA for night in quiet places; 60 dBA for day time and 50 dBA for night in mixed areas; 70 dBA for day time and 60 dBA for night in commercial areas; and 75 dBA for day time and 70 dBA for night in industrial areas.

49. It is sensible to point out here that Nighttime noise measurement has purposely excluded, as the movement of motorized vehicular traffics in the nighttime is very limited in the subproject area, and in consequent, nighttime traffic will not cause any significant noise pollution.

50. The area largely belongs to the residential category. According to ECR, 1997, the maximum standard for residential areas is 50 dBA in the daytime and 40 dBA in the night time. According to the Bangladesh Noise Pollution (Regulation and Control) Rules, 2006, the acceptable sound levels are 55 decibels (dBA) for day time (6 am to 9 pm) and 45 dBA for night time (9 pm to 6 am) in residential areas. Now, the results of the day time measured noise level in the subproject areas range between Min 41.6 and Max 72.8 dBA (as per Leq calculation, measured sound level is almost equivalent to continuous sound level 50 dBA at DayTime), and this agrees well with DoE's recommended noise level for residential area. Thus, the subproject area/s appears to be free from noise disturbances at present.

Sample Pictorial evidence for air, noise and water quality sampling undertaken at subproject site:



Monitoring Air Quality at Nayanhat to Savar GC Road(23°53'60"N - 90°14'34"E)



Noise Level Monitoring at Nayanhat to Savar GC Road(23°53'5.61"N - 90°14'34.16"E)



Collecting Surface water sample From a Pond nearby Nayanhat to Savar GC Road(23°53'5.32"N - 90°14'34.30"E)



Collecting Groundwater sample from submersible tubewell at Nayanhat to Savar GC Road(23°53'5.82"N-90°14'35.51"E)

VII. GRIEVANCE REDRESS MECHANISM

51. Within 12 months after the Effective Date, LGED shall prepare a Grievance Redress Mechanism, acceptable to ADB, and establish a special committee to receive and resolve complaints/grievances or act upon reports from stakeholders on misuse of funds and other irregularities, including grievances due to resettlement. The special committee shall (i) make public of the existence of this Grievance Redress Mechanism, (ii) review and address grievances of stakeholders of the Project, in relation to either the Project, any of the service providers, or any person responsible for carrying out any aspect of the Project; and (iii) proactively and constructively responding to them.

52. Second CRDP has adopted the grievance redress mechanism (GRM) as that of the first CRDP. The GRM will be implemented in three levels (for details, IEE Report may be consulted). Exercising this participatory process/mechanism, all views of the people/stakeholders are adequately reviewed and suitably incorporated in the project design. The GRM provides redress for grievance arising from resettlement, compensation and environmental impact during subproject implementation. Other aspects of the GRM are being progressively complied with.

53. The Grievance Redress Committees (GRC) have been formed on June 07, 2020 vide memo no.46.068.005.00.00.018.2020-455 in local governments where subprojects are under construction. This Office order in Bangla (**Appendix 3**) outlines the composition and capacity of GRC to address project-related issues/complaints.

Measures undertaken to publicize the GRM among the local people reside in the project area:

54. The measures undertaken to publicize the GRM among the local people reside in the project area are as follows:

- The contact numbers of key personnel of project Safeguard Team (consists personnel from PMCU, PIU and Consultants) who are assigned to safeguarding project issues, will be posted in the project areas and at PMCU and PIU notice boards.
- All grievances will be documented, with full information of the affected person, in a register. The register will kept/available at the project site.
- The project signboards shall contain the necessary contact information (i.e. email address, contact number, etc) of the nodal person responsible for assisting grievance readdressing for the project
- The GRM among the local people are discussed at the focal group discussion meeting

Prepared Sample grievance redress form for the project has been included in the **Appendix 8**. The IEE report of subproject also include this Sample grievance redress form.

VIII. COMPLAINTS RECEIVED DURING SUBPROJECT IMPLEMENTATION

55. No formal complaints were received from the community or from any individual of the community during the reporting period at the construction site. However, it is to note that in almost all the monitored sites, there were instances of informal complaints that are related to dust pollution at the construction-site adjacent built-up areas.

IX. SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

56. No formal written complaints were received from the community or from any individual of the community at the construction site. However, in almost all the monitored sites, there were instances of unceremonious/casual complaints lodged by the people of the locality with respect to poor initiative of spraying plentiful water on dry surfaces of construction sites in order to suppress dust pollution. Taking into consideration the community's concern with dust generation, a non-compliance report (NCR) for concerned site was served to the contractor's site engineer/supervisor during monitoring of environmental management works to rectify the flaws of environmental management, and subsequent follow-up actions against CAR after stipulated time have demonstrated rectification of the dust pollution issue.

The follow-up actions against corrective action report issued during field visit are as follows:

Table 14: Follow up actions for suggested actions against registered non-compliances

Sl. no	Name of Subproject (where non-compliances recorded)	Type of non-compliances recorded	Date of corrective action request (CAR)	Follow up status of compliances
1	GCC W-01	poor initiative of spraying plentiful water on dry surfaces of construction sites	30/4/2021 (reported non-compliances to be rectified within 5 days of CAR)	Complied with
2	Savar W-01, Savar Pour W-01	poor initiative of spraying plentiful water on dry surfaces of construction sites	30/4/2021 (reported non-compliances to be rectified within 5 days of CAR)	Complied with
3	Araihazar W-01 Araihazar W-02 Rupganj W-02	poor initiative of spraying plentiful water on dry surfaces of construction sites	31/03/2021 (reported non-compliances to be rectified within 5 days of CAR)	Complied with

Considering the recommendation of ADB Mission with regard to environmental safeguard, an action plan has been prepared and presented in the Sec XI.

X. PROJECT STRATEGY AGAINST COVID-19 H&S GUIDELINES

57. Project strategy against COVID-19 H&S Guidelines that have been shared by ADB during TPRM held on June 2020 and Status of COVID-19 guidelines implementation.

58. The PMCU assisted the contractors to prepare 'Site Specific H&S Plans' to resume the construction works which had been stopped from March 2020 due to the emergence of COVID-19 crisis. Various government issued circulars and guidance were reviewed in preparing these "Site-specific COVID-19 Health & Safety Plans" and they are line with them. Consultations with relevant officials were done with public health advisory from the government. In addition to national circulars, guidelines and public health advisory guidelines and checklists of various international organizations such as, World Health Organization (WHO), Centers for Disease Control and Prevention (CDC), International Finance Corporation (IFC), International Labor Organization (ILO), Pan American Health Organization (PAHO) and UNOPS, International Safety and Health Construction Coordinators Organization (ISHCCO), Construction Federation of Isle of Man and Construction Industry Council (CIC), UK were reviewed and adopted in preparation of these "Site-specific COVID-19 Health & Safety Plans". 'Site Specific H&S Plans' of eight packages were shared with ADB on 22nd July 2020 and all plans have been approved by ADB on 3rd August 2020.

59. Meanwhile BRM of ADB transmitted Health and Safety Guidance on COVID-19 prior to works resumption to the project to the project on 28th July 2020 and these documents have been handed over to the contractors and to the relevant project staff.

60. Before reopening the construction sites during August 2020 the prerequisites suggested by ADB guideline and the recommendations of Site Specific COVID 19 H& S Plans have been followed by the contractors. To ensure the proper implementation of the recommended COVID-19 H&S protocols, staffs have been assigned both from PMU and from contractors. They are monitoring the COVID-19 H&S issues in the construction sites according with the guidance of the concerned PMCU staff and consultants. The BRM of ADB provided template have been adopted by the project to monitor and record the COVID-19 H&S issues in the work sites. The adopted template and some examples of monitoring records have been included in **Appendix 11**. Some photographs on preventive measures practicing at the worksite against spread of COVID-19 infection are displayed at the end of the said Appendix.

61. CONCLUSIONS AND RECOMMENDATIONS

61. Environmental mitigation measures related to subprojects are being implemented in line with the Environmental Safeguard Framework; by and large performance is generally fair. Environmental review through use of IEEs is done in conjunction with subproject design. Contractors are required to mitigate environmental impacts, and monitoring is being conducted by the environmental specialists and PIU staff towards that end. Where mitigation measures are lacking, contractors are urged to progressively improve their performance. The GRM has been outlined for being implementation with GRCs formed at local level.

62. Active areas for improvement for subprojects under implementation include the following:

- Overall improvement of environmental performance need to be ensured on most contracts through strict adherence to site-specific environmental health & safety plan.
- Workers need to be well equipped and adapted with Personal Protective Equipment (PPE) at all times within the construction work sites, as it was found that workers were negligent in using PPE in instances.
- Housing and sanitary facilities for workers are not up-to-standard in few contracts, whereas at other locations these facilities are found satisfactory.
- Due to the small size of subproject, formal public consultation is not warranted; affected parties can and do directly approach site supervisors to remedy a particular problem or inconvenience.
- PIUs need to post notices regarding the grievance redress mechanism and the ability of an affected party to seek redress on an environmental issue.
- Some community safety issues are sometimes only partially addressed by contractors. At some locations improved barricades need to be erected around open excavations where the public has frequent access.
- Temporary access to homes and businesses need to be constructed firmly for subprojects under implementation.
- Require posting of adequate number of regulatory signs/signals and flagmen as these are deficient in few construction sites. These elements shall assist safe traffic flow and pedestrian.
- Wind-blown dust and mud/gravel on road surfaces is common at many sites. Contractors need to remove stockpiled materials that are no longer in use from the jobsite; and reduce material losses from trucks hauling sand and spoil by covering loads and by removing materials from tires and truck underbodies before transport. Contractors need to be more willing to dedicate labor time for cleaning roadway surfaces.

63. The PMCU has been making sincere efforts in improving environmental awareness of the need for mitigation measures among the PIUs and construction contractors. The Environmental Specialist has all along been striving to impress upon the contractors about the urgency of compliance of environmental safeguard requirements. Environmental specialist will continue to work with PIUs and contractors to pursue improvement in the areas set out in Paragraphs above. As regards the time bound action plan (CAP) for further improvement, the recommendations are outlined in **Table 15** below:


Table 15: Recommended Action Plan with Time frame

Sl.	Recommendation	Responsibility	Timeline
1	Ensure strict supervision and regular thorough monitoring and control to ensuring quality and timely implementation of urban infrastructure improvement works	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Throughout the construction period</i>
2	Make it mandatory for the construction workforce to using PPE when at work	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Throughout the construction period</i>
3	Construct proper barricade/safety barrier around excavated sites to avoid accident/injury	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>At the time of work around the excavated section</i>
4	Ensure proper arrangements for water spraying periodically at construction sites during construction to suppress dust pollution	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Throughout the construction period</i>
5	Stockpiles of construction materials, specially sands, brick chips and stone chips are to be covered with polyethylene sheets to avoid being airborne	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Throughout the construction period</i>
6	Provide key information and create	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Before commencement of intervention work</i>
7	Site facilities to be established at a safe distance from communities	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Before commencement of intervention work</i>
8	Contractor to prepare and implement Traffic Management Plan (TMP) to confirm minimal hindrance to local communities and commuters	Contractor's Site Engineer/Supervisor/ Environmental H&S Supervisor	<i>Throughout the construction period</i>
9	Proper arrangements of firefighting equipment at workforce camp and site office	Contractor's Site Engineer/Supervisor/ Environmental H&S Supervisor	<i>Throughout the construction period</i>
10	Ensure strong measures to minimizing the potential risk of COVID-19 infection among the field workforce so that construction work can continue safely	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Throughout the construction period</i>
11	Prepare Hand washing and social distancing posters and to be displayed at work sites and labor camps	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Throughout construction period during COVID-19 calamity</i>
12	Provide regular information about the risk of COVID-19 using official sources, such as national Health Organizations and WHO	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Throughout construction period during COVID-19 calamity</i>
13	Periodic meetings to be held between the construction representative/s and local elite to avoid possible social conflict/disruption	PMCU, PIU, PDSC, Contractor's Environmental H&S Supervisor	<i>Throughout the construction period</i>

As regards the compliance status with corrective action plan suggested during last EMR (July-December, 2020), the status of compliance is described in the table below:

Sl.	Recommendation (suggested during the last EMR)	Compliance status
1	Ensure strict supervision and regular thorough monitoring and control to ensuring quality and timely implementation of urbaninfrastructure improvement works	Complied with
2	Make it mandatory for the construction workforce to using PPEwhen at work	Complied with
3	Construct proper barricade/safety barrier around excavatedsites to avoid accident/injury	Complied with
4	Ensure proper arrangements for water spraying periodically at construction sites during construction to suppress dust pollution	Complied with
5	Stockpiles of construction materials, specially sands, brick chips and stone chips are to be covered with polyethylene sheets to avoid being airborne	Complied with
6	Provide key information and create awareness a	Complied with
7	Site facilities to be established at a safe distance from communities	Complied with
8	Contractor to prepare and implement Traffic Management Plan (TMP) to confirm minimal hindrance to local communities and commuters	Complied with
9	Proper arrangements of firefighting equipment at workforce camp and site office	Complied with
10	Ensure strong measures to minimizing the potential risk of COVID-19 infection among the field workforce so that construction work can continue safely	Complied with
11	Prepare Hand washing and social distancing posters and to be displayed at work sites and labor camps	Complied with
12	Provide regular information about the risk of COVID-19 using official sources, such as national Health Organizations andWHO	Complied with
13	Periodic meetings to be held between the construction representative/s and local elite to avoid possible social conflict/disruption	Complied with

Appendix 1: Environmental Clearance Certificate For CRDP-2

<p>Government of the People's Republic of Bangladesh Department of Environment Head Office, Paribesh Bhavan D-16 Agargaon, Dhaka-1207 www.doe.gov.bd</p>	
Memo No: DOE/Clearance/5194/2013/53	Date: 4 th /12/2019
Subject: Environmental Clearance for City Region Development Project-II (CRDP-II).	
Ref: Your application on 30/08/2018 and 27/12/2018.	
<p>Please refer to your letter and the captioned subject mentioned above, I have the pleasure to convey the approval of Environmental Clearance for City Region Development Project-II (CRDP-II).</p> <p>A copy of the said Environmental Clearance Certificate is attached herewith for your kind information and necessary action at your end.</p> <p style="text-align: right;"> 16.12.2019 (Syed Nazmul Ahsan) Director (Environmental Clearance) Phone # 8181673</p>	
<p>Project Director City Region Development Project-II (CRDP-II) Local Government Engineering Department RDUC LGED Bhutan (Level-4), Agargaon, Sher-e-Bangla Nagar, Dhaka.</p> <p><u>Care Forwarded to:</u></p> <ol style="list-style-type: none">1) PS to Secretary, Ministry of Environment, Forest and Climate Change, Bangladesh Secretariat, Dhaka.2) Director, Department of Environment, Dhaka Regional Office, Dhaka.3) Assistant Director, Office of the Director General, Department of Environment, Head Office, Dhaka.	

Government of the People's Republic of Bangladesh
Department of Environment
 Paribesh Bhavan, E-16, Agrapara
 Sher-e-Bangla Nagar, Dhaka-1207
www.doe.gov.bd

Environmental Clearance Certificate
 Section 12 of the Environment Conservation Act, 1995 (Amended 2010)

Clearance Certificate Number: 5/3
 File number: DOE/Clearance/5184/2013/
 Clearance Certificate Issue Date: 16 February 2014
 Renewal date not later than: 16 February 2020

A. Clearance Certificate Type

Environmental Clearance Certificate

B. Clearance Certificate Holder

Project Director
 City Region Development Project-II (CRDP-II)
 Local Government Engineering Department
 RDC, LGED Bhawan (Level-4), Agrapara, Sher-e-Bangla Nagar, Dhaka.

C. Premises to which this Clearance Certificate Applies

Construction and Rehabilitation of Roads and associated Drainage subprojects in Dhaka region comprise 9 roads in Gazipur City Corporation, 31 roads in Savar Upazila and Municipality, 10 roads in Bugganj Upazila and 23 roads in Ardhazur Upazila of Narayanganj District.

D. Activities for which this Clearance Certificate Authorizes and Regulates

Construction and Rehabilitation of Roads and associated Drainage Network. These roads and associated drainage subprojects in Dhaka region comprise 9 roads in Gazipur City Corporation, 31 roads in Savar Upazila and Municipality, 10 roads in Bugganj Upazila and 23 roads in Ardhazur Upazila of Narayanganj District.

E. Terms and Conditions for Environmental Clearance Certificate

1. **Limit Condition for Discharges to Air and Water:** The Environmental Clearance Certificate must comply with schedule 2 and 10, rule 12 of the Environment Conservation Rules, 1997.
2. **Noise Limit:** The Environmental Clearance Certificate must comply with the Noise Pollution (Control) Rules, 2008.



In case of non-coverage of ECR 1997 the World Bank Environment, Health and Safety Guidelines shall be adhered to:

3. Operating conditions:

- 3.1 Activities must be carried out in a competent manner. This includes:
 - (a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
 - (b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.
- 3.2 All plant and equipment installed at the premises or used in connection with the Environmental Clearance activity:
 - (a) must be maintained in a proper and efficient condition; and
 - (b) must be operated in a proper and efficient manner.
- 3.3 Construction works shall be restricted to day-time hours so as to avoid/negligible the disturbance of local lives as well as implementation schedules of the works shall be notified in advance to nearby residents.
- 3.4 Storage area for soils and other construction materials shall be carefully selected to avoid disturbance of the natural drainage.
- 3.5 This shall be ensured that soil is obtained from nearby areas, which are free of invasive plants. Re-vegetation and replanting shall be undertaken if rehabilitation works involve extensive vegetation clearance.
- 3.6 Vegetation clearance shall be minimizing at the construction phase as to minimize soil erosion. Soils for embankments shall be properly tested and compacted to ensure stability.
- 3.7 Proper construction practices shall be followed that minimize loss of habitats and fish breeding, feeding & nursery sites.
- 3.8 Proper and adequate sanitation facilities shall be ensured in labor camps throughout the proposed project period.
- 3.9 In order to control noise pollution, vehicles & equipment shall be maintained regularly; working during sensitive hours and locating machinery close to sensitive receptor shall be avoided.
- 3.10 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.
- 3.11 Proper and adequate on-site precautionary measures and safety measures shall be ensured so that no habitat of any flora and fauna would be demolished or destructed.
- 3.12 All the required mitigation measures suggested in the IEE report are to be strictly implemented and kept operative/functioning on a continuous basis.
- 3.13 Any heritage sight, ecological critical area, and other environmentally and/or religious sensitive places shall be avoided during project construction phase.
- 3.14 Resettlement plan should be properly implemented and people should be adequately compensated, where necessary.
- 3.15 Construction material should be properly disposed off after the construction work is over.
- 3.16 The Environmental Management Plan included in the IEE report shall strictly be implemented and kept functioning on a continuous basis.

4.1 Monitoring and Recording conditions:

4.1.1 The results of any monitoring required to be conducted by this Clearance Certificate must be recorded.

4.1.2 The following records must be kept in respect of any samples required to be collected for the purposes of this Clearance Certificate:

- (a) the date(s) on which the sample was taken;
- (b) the time(s) at which the sample was collected;
- (c) the point at which the sample was taken; and
- (d) the name of the person who collected the sample.

4.2 Requirement to monitor concentration of pollutants discharged

For each monitoring, the Clearance Certificate holder must monitor (by sampling and obtaining results by analysis) the following parameter: air quality, water quality and Noise.

5. Reporting Conditions: Environmental Monitoring Reports shall be made available simultaneously to Head quarters and respective Regional office of the Department of Environment on a quarterly basis during the whole period of the project.

6. Notification of environmental harm: The Clearance Certificate holder or its employees must notify the Department of Environment of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident.

7. Recording of 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:

- (a) the date and time of the complaint;
- (b) the method by which the complaint was made;
- (c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- (d) the nature of the complaint;
- (e) the action taken by the certificate holder in relation to the complaint, including any follow-up contact with the complainant; and
- (f) if no action was taken by the certificate holder, the reasons why no action was taken.



The record of a complaint 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.

6. **Validity of the Clearance Certificate**

This Environmental Clearance is valid for one year from the date of issuance and Project Director shall apply for renewal to the Dhaka Regional Office with a copy to Head Office of DOE in Dhaka at least 30 days ahead of expiry.

Violation of any of the above conditions shall render this clearance void.

This Environmental Clearance Certificate has been issued with the approval of the appropriate authority.


18.02.2019

(Syed Nazmul Alam)
Director (Environmental Clearance)
Phone # 8181671

**Appendix 2: Application for Renewal for Environmental Clearance Certificate (ECC)
For CRDP-2**

Government of the People's Republic of Bangladesh
Department of Environment
Head Office, Paribesh Bhavan
E-16 Agargaon, Dhaka-1207
www.doe.gov.bd

Memo No: DoE/Clearance/5194/2013/61


Date: 24/03/2021

Subject: Renewal of Environmental Clearance Certificate for "Second City Region Development Project (CRDP-2), Local Government Engineering Department, LGED Bhaban, Agargaon, Sher-E-Bangla Nagar, Dhaka"

Ref: Your application dated 24/02/2021.

With reference to your above application, the Department of Environment hereby renews the Environmental Clearance Certificate in favor of the Second City Region Development Project (CRDP-2) subject to fulfilling the terms and conditions stated in Environmental Clearance Certificate issued on 10.02.2019 vide memo no. DoE/Clearance/5194/2013/53.

2. This renewal is valid upto 09 February, 2022. An application for further renewal along with a) the renewal fees (as per the ECR, 1997) 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 Dhaka Regional/Khulna Divisional Office at least 30 days ahead of expiry date.


(Masud Iqbal Md. Shameem)
Director (Environmental Clearance)
Phone: 8181673

Project Director
Second City Region Development Project (CRDP-2)
Local Government Engineering Department,
LGED Bhaban, Agargaon
Sher-E-Bangla Nagar, Dhaka.

Copy Forwarded to :

- 1) PS to Secretary, Ministry of Environment, Forest and Climate Change, Bangladesh Secretariat, Dhaka.
- 2) Director, Department of Environment, Dhaka Regional Office, Dhaka.
- 3) Director, Department of Environment, Khulna Divisional Office, Khulna.
- 4) Assistant Director, Office of the Director General, Department of Environment, Head Office, Dhaka.

Appendix 3: Grievance Redress Committees (GRC) – Office Order

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়
স্থানীয় সরকার বিভাগ
উন্নয়ন ২ শাখা
www.lgd.gov.bd

শেখ হাসিনার মূলনীতি
গ্রাম শহরের উন্নতি

স্মারক নং- ৪৬.০৬৮.০০৫.০০.০০.০২৮.২০২০-৪৫৫

তারিখ: ২৪ জৈষ্ঠ ১৪২৭
০৭ জুন ২০২০

অফিস আদেশ

স্থানীয় সরকার প্রকৌশল অধিদপ্তর কর্তৃক বাস্তবায়নধীন “দ্বিতীয় নগর অঞ্চল উন্নয়ন” প্রকল্পের আওতায় পৌরসভা, সিটি কর্পোরেশন ও এলজিইডি পর্যায়ে অভিযোগ নিরসন কার্যক্রম দ্রুত ও নিয়মানুগভাবে বাস্তবায়নের লক্ষ্যে নিম্নরূপ অভিযোগ নিরসন কমিটি (Grievance Redress Committee) গঠন করা হলো:

(১) পৌরসভা পর্যায়ে:

অভিযোগ নিরসন কমিটি ও নিষ্পত্তি প্রক্রিয়া:

অভিযোগ নিরসন প্রক্রিয়া ৩টি স্তরে বাস্তবায়িত হবে। পৌরসভা পর্যায়ে প্রাথমিক ও দ্বিতীয় স্তরে এবং প্রকল্প পর্যায়ে তৃতীয় স্তর।

প্রথম স্তর:

প্রাথমিক স্তরে থাকবে অভিযোগকারীর সহজে যোগাযোগের সুযোগ ও অভিযোগসমূহ দ্রুত সমাধানের ব্যবস্থা। এ স্তরে PIU-প্রধান (পৌরসভার মেয়র) সংশ্লিষ্ট PIU এর একজন কর্মকর্তাকে ফোকাল পার্সন হিসেবে নিয়োজিত করবেন। ফোকাল পার্সন ক্ষতিগ্রস্তের অভিযোগ গ্রহণ এবং দ্রুত নিরসনের উদ্যোগ গ্রহণ করবেন। ক্ষতিগ্রস্তদের যোগাযোগের সুবিধার জন্য ফোকাল পার্সনের মোবাইল নম্বর উপ-প্রকল্প এলাকার গুরুত্বপূর্ণ স্থানে কুলিয়ে দিতে হবে। ক্ষতিগ্রস্ত ব্যক্তি/ব্যক্তিবর্গের কাছ থেকে লিখিত অভিযোগ প্রাপ্তির পর ফোকাল পার্সন বিষয়টি অবিলম্বে প্রাথমিক স্তরে গঠিত কমিটিতে (কমিটির কার্যপরিধির ২নং দায়িত্বের নিরিখে) উপস্থাপন করবেন।

প্রথম স্তরের স্থানীয় অভিযোগ নিরসন কমিটি:

(১) নির্বাহী প্রকৌশলী/সহকারী প্রকৌশলী, সংশ্লিষ্ট পৌরসভা ----- সভাপতি

(২) সিআরডিপি-২ প্রকল্পের কনসালটেন্ট (সেভগার্ড এন্ডপার্ট) ----- সদস্য

(৩) পরিবেশ/সামাজিক সুরক্ষা ফোকাল কর্মকর্তা, সংশ্লিষ্ট পৌরসভা ----- সদস্য-সচিব

প্রথম স্তরের স্থানীয় অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) ক্ষতিগ্রস্ত ব্যক্তির অভিযোগ গ্রহণ এবং পারস্পরিক আলোচনার ভিত্তিতে তা নিরসন করা,
- (২) অভিযোগকারীর অভিযোগ গ্রহণের ৭ দিনের মধ্যে অভিযোগ নিষ্পত্তিকরণের ব্যবস্থা করা,
- (৩) ভূমি এবং/অথবা অবকাঠামো (Structures) অধিগ্রহণ, জীবিকা অর্জনের ওপর প্রভাব, প্রাপ্য ক্ষতিপূরণ (Entitlements) এবং বিভিন্ন সহযোগিতা সম্পর্কে ক্ষতিগ্রস্তদের অবহিত করা,
- (৪) অভিযোগকারী ব্যক্তির অভিযোগ সংক্রান্ত যাবতীয় তথ্যাবলী লিপিবদ্ধ করা,
- (৫) অভিযোগ নিষ্পত্তি সংক্রান্ত যাবতীয় রেকর্ড ও সভার কার্যবিবরণী যথাযথভাবে সংরক্ষণ এবং মেয়র এর মাধ্যমে প্রকল্প পরিচালককে অবহিত করা।

দ্বিতীয় স্তর:

প্রাথমিক স্তরে কোনো অভিযোগ অসমীমাংসিত থাকলে প্রাথমিক স্তরে গঠিত কমিটির সদস্য-সচিব (ফোকাল পার্সন) মেয়রের মাধ্যমে পৌরসভায় গঠিত দ্বিতীয় স্তরের স্থানীয় অভিযোগ নিরসন কমিটি-এর নিকট অভিযোগটি সত্তর লিখিতভাবে জানাবেন। মেয়রের লিখিত পত্র প্রাপ্তির পর দ্বিতীয় স্তরের অভিযোগ নিরসন প্রক্রিয়া শুরু হবে।

দ্বিতীয় স্তরের স্থানীয় অভিযোগ নিরসন কমিটি:

(১) প্রধান নির্বাহী কর্মকর্তা/ সচিব, সংশ্লিষ্ট পৌরসভা----- সভাপতি

(২) পৌরসভা মেয়র এর প্রতিনিধি, সংশ্লিষ্ট পৌরসভা----- সদস্য

(৩) ক্ষতিগ্রস্ত ব্যক্তিবর্গের প্রতিনিধি, সংশ্লিষ্ট পৌরসভা ----- সদস্য

(৪) স্থানীয় ভূমি রেজিস্ট্রি দপ্তরের প্রতিনিধি----- সদস্য

(৫) পরিবেশ অধিদপ্তরের বিভাগীয় দপ্তরের প্রতিনিধি ----- সদস্য

(৬) নগর পরিকল্পনাবিদ, সংশ্লিষ্ট পৌরসভা----- সদস্য

(৭) পরিবেশ/সামাজিক সুরক্ষা ফোকাল কর্মকর্তা, সংশ্লিষ্ট পৌরসভা----- সদস্য-সচিব

চলমান-২

দ্বিতীয় স্তরের স্থানীয় অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) এ পর্যায়ে প্রকল্পে ক্ষতিগ্রস্ত ব্যক্তিদের সম্পদ অধিগ্রহণে (স্থায়ী/অস্থায়ীভাবে) ক্ষতির পরিমাণ (শুধুমাত্র ভৌত পরিমাণ- Physical Quantity) নির্ধারণ এবং ক্ষতিপূরণ প্রাপ্তিতে সহযোগিতা করা,
- (২) ক্ষতিগ্রস্ত ব্যক্তির অভিযোগ পুনর্বাসন নীতিমালার আওতাভুক্ত হলে প্রকল্প কর্তৃপক্ষের মাধ্যমে ক্ষতিপূরণ প্রাপ্তিতে সহযোগিতা করা,
- (৩) ক্ষতিগ্রস্তদের অভিযোগসমূহ ধরণ অনুযায়ী বিন্যাস করে অগ্রাধিকার ভিত্তিতে এক মাস সময়ের মধ্যে সমাধান করা,
- (৪) অভিযোগকারীর অভিযোগ বিষয়ে অগ্রগতি এবং কমিটির সিদ্ধান্ত অভিযোগকারীকে অবহিত করা,
- (৫) অভিযোগকারীর অভিযোগ বিষয়ে অগ্রগতি এবং নিরসন কমিটির সিদ্ধান্তসমূহ মেয়র, পৌরসভা -এর মাধ্যমে প্রকল্প পরিচালককে অবহিত করা,
- (৬) অভিযোগ নিরসন কমিটি মাসে কমপক্ষে ২ বার সভায় বসবে। অমীমাংসিত অভিযোগের সংখ্যার ভিত্তিতে এবং প্রকল্প পরিচালকের সাথে আলোচনা করে মাসিক সভার সংখ্যা হ্রাস বা বৃদ্ধি করা যাবে।

তৃতীয় স্তর:

দ্বিতীয় স্তর পর্যায়ে স্থানীয় অভিযোগ নিরসন কমিটি-তে কোনো অভিযোগ অমীমাংসিত থেকে গেলে প্রকল্প ব্যবস্থাপক (মেয়র) বিষয়টি দ্রুত প্রকল্প পরিচালক-কে অবহিত করবেন। প্রকল্প পরিচালক স্থানীয় অভিযোগ নিরসন কমিটির প্রতিবেদন ও সুপারিশসমূহের ভিত্তিতে PIU-প্রধান (মেয়র) এর সাথে আলোচনা করে প্রকল্প পর্যায়ে গঠিত তৃতীয় স্তরের অভিযোগ নিরসন কমিটির কার্যক্রম শুরু করবেন।

তৃতীয় স্তরের প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটি:

- (১) প্রকল্প পরিচালক, সিআরডিপি-২- ----- সভাপতি
- (২) প্রতিনিধি, ভূমি মন্ত্রণালয় ----- সদস্য
- (৩) প্রতিনিধি, পরিবেশ অধিদপ্তর----- সদস্য
- (৪) পরিবেশ/সামাজিক সুরক্ষা ফোকাল কর্মকর্তা, সংশ্লিষ্ট পৌরসভা ----- সদস্য
- (৫) প্রকল্পে ক্ষতিগ্রস্ত ব্যক্তিবর্গের প্রতিনিধি-----সদস্য
- (৬) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা, সিআরডিপি-২ -----সদস্য-সচিব

তৃতীয় স্তরের প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা অভিযোগ ও পূর্ববর্তী স্তরের সিদ্ধান্তসমূহ, প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটিতে উপস্থাপন করবেন,
- (২) প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটি অভিযোগ গ্রহণের ৭ দিনের মধ্যে সভা আহ্বান করবে,
- (৩) প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটি ১৫ দিনের মধ্যে সিদ্ধান্ত প্রদান করবে,
- (৪) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির সভার সিদ্ধান্তসমূহ লিপিবদ্ধ করবেন এবং সভার কার্যবিবরণী জারি করবে,
- (৫) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির সিদ্ধান্ত বাস্তবায়নের অগ্রগতি পর্যালোচনাপূর্বক প্রয়োজনীয় ব্যবস্থা গ্রহণ করবে।

(ii) সিটি কর্পোরেশন পর্যায়ে:

অভিযোগ নিরসন কমিটির প্রয়োজনীয়তা:

দ্বিতীয় নগর অঞ্চল উন্নয়ন প্রকল্প (সিআরডিপি-২) বাস্তবায়নের জন্য সম্পদ (স্বাবর/ অস্থাবর) ক্ষতিগ্রস্ত হলে এবং ক্ষতিগ্রস্তদের পক্ষ থেকে কোন অভিযোগ উত্থাপিত হলে তা নিরসনের জন্য সিটি কর্পোরেশনে 'অভিযোগ নিরসন কমিটি' গঠনের বাধ্যবাধকতা রয়েছে। সিটি কর্পোরেশন এ উপ-প্রকল্পের কাজ বাস্তবায়নে কোনও ক্ষতিগ্রস্তের অভিযোগ উত্থাপিত হলে গঠিত 'অভিযোগ নিরসন কমিটি' অভিযোগ গ্রহণ ও নিষ্পত্তির ক্ষেত্রে কার্যকর ভূমিকা রাখবে। অভিযোগ নিষ্পত্তি প্রক্রিয়া প্রকল্পের সুরক্ষা (Safeguard) সংক্রান্ত শর্ত বাস্তবায়নের অংশ হিসেবে বিবেচিত হবে। এ প্রক্রিয়ায় ক্ষতিগ্রস্ত ব্যক্তি বা ব্যক্তিবর্গের অভিযোগ স্বচ্ছ এবং যথাসম্ভব স্বল্প সময়ের মধ্যে নিরসন করতে হবে। প্রক্রিয়াটি জেডার সংবেদনশীল ও সাংস্কৃতিক বৈষম্যহীনভাবে বাস্তবায়ন করতে হবে। এ ব্যবস্থা ক্ষতিগ্রস্ত জনগণ যেন সহজে গ্রহণ করতে পারে এবং এর জন্য যাতে তাদের কোনও অর্থ ব্যয়ের প্রয়োজন না হয় তা নিশ্চিত করতে হবে। অভিযোগ নিরসন প্রক্রিয়া সম্পর্কে ক্ষতিগ্রস্তদের যথাসময়ে সঠিক ও বিস্তারিতভাবে অবহিত করতে হবে।

চলমান পৃষ্ঠা-৩

অভিযোগ নিরসন কমিটি ও নিষ্পত্তি প্রক্রিয়া:

অভিযোগ নিরসন প্রক্রিয়া ৩টি স্তরে বাস্তবায়িত হবে। সিটি কর্পোরেশন পর্যায়ে প্রাথমিক ও দ্বিতীয় স্তর এবং প্রকল্প পর্যায়ে তৃতীয় স্তর।

প্রাথমিক স্তর:

প্রাথমিক স্তরে থাকবে অভিযোগকারীর সহজে যোগাযোগের সুযোগ ও অভিযোগসমূহ দ্রুত সমাধানের ব্যবস্থা। এ স্তরে PIU-প্রধান সংশ্লিষ্ট PIU-এর একজন কর্মকর্তাকে ফোকাল পার্সন হিসেবে নিয়োজিত করবেন। ফোকাল পার্সন ক্ষতিগ্রস্তের অভিযোগ গ্রহণ এবং দ্রুত নিরসনের উদ্যোগ গ্রহণ করবেন। ক্ষতিগ্রস্তদের যোগাযোগের সুবিধার জন্য ফোকাল পার্সনের মোবাইল নম্বর উপ-প্রকল্প এলাকার গুরুত্বপূর্ণ স্থানে স্থলিয়ে দিতে হবে। ক্ষতিগ্রস্ত ব্যক্তি/ব্যক্তিগণের কাছ থেকে লিখিত অভিযোগ প্রাপ্তির পর ফোকাল পার্সন বিষয়টি অবিলম্বে প্রাথমিক স্তরে গঠিত কমিটিতে (কমিটির কার্যপরিধির ২নং দায়িত্বের নিরিখে) উপস্থাপন করবেন।

প্রথম স্তরের স্থানীয় অভিযোগ নিরসন কমিটি:

- (১) নির্বাহী প্রকৌশলী/সহকারী প্রকৌশলী, সংশ্লিষ্ট সিটি কর্পোরেশন ----- সভাপতি
- (২) সিআরডিপি-২ প্রকল্পের কনসালটেন্ট (সেভগার্ড এক্সপার্ট) ----- সদস্য
- (৩) পরিবেশ/সামাজিক সুরক্ষা ফোকাল কর্মকর্তা, সংশ্লিষ্ট সিটি কর্পোরেশন ----- সদস্য-সচিব

প্রথম স্তরের স্থানীয় অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) ক্ষতিগ্রস্ত ব্যক্তির অভিযোগ গ্রহণ এবং পারস্পরিক আলোচনার ভিত্তিতে তা নিরসন করা,
- (২) অভিযোগকারীর অভিযোগ গ্রহণের ৭ দিনের মধ্যে অভিযোগ নিষ্পত্তিকরণের ব্যবস্থা করা,
- (৩) ভূমি এবং অবকাঠামো (Structures) অধিগ্রহণ, জীবিকা অর্জনের ওপর প্রভাব, প্রাপ্য ক্ষতিপূরণ (Entitlements) এবং বিভিন্ন সহযোগিতা সম্পর্কে ক্ষতিগ্রস্তদের অবহিত করা,
- (৪) অভিযোগকারী ব্যক্তির অভিযোগ সংক্রান্ত যাবতীয় তথ্যাবলী লিপিবদ্ধ করা,
- (৫) অভিযোগ নিষ্পত্তি সংক্রান্ত যাবতীয় রেকর্ড ও সভার কার্যবিবরণী যথাযথভাবে সংরক্ষণ এবং প্রকল্প ব্যবস্থাপক (PIU-প্রধান) এর মাধ্যমে প্রকল্প পরিচালক-কে অবহিত করা।

দ্বিতীয় স্তর:

প্রাথমিক স্তরে কোনো অভিযোগ অমীমাংসিত থাকলে প্রাথমিক স্তরে গঠিত কমিটির সদস্য-সচিব (ফোকাল পার্সন) প্রকল্প ব্যবস্থাপক (PIU-প্রধান) - এর মাধ্যমে সিটি কর্পোরেশনে গঠিত দ্বিতীয় স্তরের স্থানীয় অভিযোগ নিরসন কমিটি-এর নিকট অভিযোগটি লিখিতভাবে জানাবেন। মেয়রের লিখিত পত্র প্রাপ্তির পর দ্বিতীয় স্তরের অভিযোগ নিরসন প্রক্রিয়া শুরু হবে।

দ্বিতীয় স্তরের স্থানীয় অভিযোগ নিরসন কমিটি:

- (১) প্রধান নির্বাহী কর্মকর্তা/সচিব, সংশ্লিষ্ট সিটি কর্পোরেশন ----- সভাপতি
- (২) মেয়র এর প্রতিনিধি, সংশ্লিষ্ট সিটি কর্পোরেশন -----সদস্য
- (৩) ক্ষতিগ্রস্ত ব্যক্তিগণের প্রতিনিধি, সংশ্লিষ্ট সিটি কর্পোরেশন -----সদস্য
- (৪) স্থানীয় ভূমি রেজিস্ট্রি দপ্তরের প্রতিনিধি-----সদস্য
- (৫) পরিবেশ অধিদপ্তরের বিভাগীয় দপ্তরের প্রতিনিধি -----সদস্য
- (৬) নগর পরিকল্পনাবিদ, সংশ্লিষ্ট সিটি কর্পোরেশন----- সদস্য
- (৭) পরিবেশ/সামাজিক সুরক্ষা ফোকাল কর্মকর্তা, সংশ্লিষ্ট সিটি কর্পোরেশন ----- সদস্য-সচিব

দ্বিতীয় স্তরের স্থানীয় অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) এ পর্যায়ে প্রকল্পে ক্ষতিগ্রস্ত ব্যক্তিদের সম্পদ অধিগ্রহণে (স্থায়ী/অস্থায়ী ভাবে) ক্ষতির পরিমাণ (শুধুমাত্র ভৌত পরিমাণ-Physical Quantity) নির্ধারণ এবং ক্ষতিপূরণ প্রাপ্তিতে সহযোগিতা করা,
- (২) ক্ষতিগ্রস্ত ব্যক্তির অভিযোগ পুনর্বাসন নীতিমালার আওতাভুক্ত হলে প্রকল্প কর্তৃপক্ষের মাধ্যমে ক্ষতিপূরণ প্রাপ্তিতে সহযোগিতা করা,
- (৩) ক্ষতিগ্রস্তদের অভিযোগসমূহ ধরণ অনুযায়ী বিন্যাস করে অগ্রাধিকার ভিত্তিতে ১ মাস সময়ের মধ্যে সমাধান করা,
- (৪) অভিযোগকারীর অভিযোগ বিষয়ে অগ্রগতি এবং কমিটির সিদ্ধান্ত অভিযোগকারীকে অবহিত করা,
- (৫) অভিযোগকারীর অভিযোগ বিষয়ে অগ্রগতি এবং নিরসন কমিটির সিদ্ধান্তসমূহ সিদ্ধান্তসমূহ প্রকল্প ব্যবস্থাপক (PIU-প্রধান), সিটি কর্পোরেশন এর মাধ্যমে প্রকল্প পরিচালক-কে অবহিত করা,
- (৬) অভিযোগ নিরসন কমিটি মাসে অন্তত: ২ বার সভায় বসবে। অমীমাংসিত অভিযোগের সংখ্যার ভিত্তিতে এবং প্রকল্প পরিচালকের সাথে আলোচনা করে মাসিক সভার সংখ্যা হ্রাস বা বৃদ্ধি করা যাবে।

চলমান পৃষ্ঠা-৪

তৃতীয় স্তর:

দ্বিতীয় স্তর পর্যায়ে স্থানীয় অভিযোগ নিরসন কমিটি-তে কোনো অভিযোগ অমীমাংসিত থেকে গেলে প্রকল্প ব্যবস্থাপক (PIU-প্রধান) বিষয়টি দ্রুত প্রকল্প পরিচালক-কে অবহিত করবেন। প্রকল্প পরিচালক স্থানীয় অভিযোগ নিরসন কমিটির প্রতিবেদন ও সুপারিশসমূহের ভিত্তিতে PIU-প্রধান এর সাথে আলোচনা করে প্রকল্প পর্যায়ে গঠিত তৃতীয় স্তরের অভিযোগ নিরসন কমিটির কার্যক্রম শুরু করবেন।

তৃতীয় স্তরের প্রকল্প পর্যায়ের অভিযোগ নিরসন কমিটি:

- (১) প্রকল্প পরিচালক, সিআরডিপি-২-----সভাপতি
- (২) প্রতিনিধি, ভূমি মন্ত্রণালয়-----সদস্য
- (৩) প্রতিনিধি, পরিবেশ অধিদপ্তর-----সদস্য
- (৪) পরিবেশ/সামাজিক সুরক্ষা ফোকাল কর্মকর্তা, সংশ্লিষ্ট সিটি কর্পোরেশন-----সদস্য
- (৫) প্রকল্পে ক্ষতিগ্রস্ত ব্যক্তিবর্গের প্রতিনিধি-----সদস্য
- (৬) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা, সিআরডিপি-২-----সদস্য-সচিব

তৃতীয় স্তরের প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা অভিযোগ ও পূর্ববর্তী স্তরের সিদ্ধান্তসমূহ, প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটিতে উপস্থাপন করবেন,
- (২) প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটি অভিযোগ গ্রহণের ৭ দিনের মধ্যে সভা আহ্বান করবে,
- (৩) প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটি ১৫ দিনের মধ্যে সিদ্ধান্ত প্রদান করবে,
- (৪) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির সভার সিদ্ধান্তসমূহ লিপিবদ্ধ করবে এবং সভার কার্যবিবরণী জারি করবে,
- (৫) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির সিদ্ধান্ত বাস্তবায়নের অগ্রগতি পর্যালোচনাপূর্বক প্রয়োজনীয় ব্যবস্থা গ্রহণ করবে।

(iii) এলজিইডি পর্যায়ে:

অভিযোগ নিরসন কমিটির প্রয়োজনীয়তা:

দ্বিতীয় নগর অঞ্চল উন্নয়ন প্রকল্প (সিআরডিপি-২) বাস্তবায়নের জন্য সম্পদ (স্বাবর/অস্বাবর) ক্ষতিগ্রস্ত হলে এবং ক্ষতিগ্রস্তদের পক্ষ থেকে কোন অভিযোগ উত্থাপিত হলে তা নিরসনের জন্য 'অভিযোগ নিরসন কমিটি' গঠনের বাধ্যবাধকতা রয়েছে। প্রকল্পের আওতায় উপ-প্রকল্পের কাজ বাস্তবায়নে কোনও ক্ষতিগ্রস্তের অভিযোগ উত্থাপিত হলে গঠিত 'অভিযোগ নিরসন কমিটি' অভিযোগ গ্রহণ ও নিষ্পত্তির ক্ষেত্রে কার্যকর ভূমিকা রাখবে। অভিযোগ নিষ্পত্তি প্রক্রিয়া প্রকল্পের সুরক্ষা (Safeguard) সংক্রান্ত শর্ত বাস্তবায়নের অংশ হিসেবে বিবেচিত হবে। এ প্রক্রিয়ায় ক্ষতিগ্রস্ত ব্যক্তি বা ব্যক্তিবর্গের অভিযোগ স্বচ্ছ এবং যথাসম্ভব স্বল্প সময়ের মধ্যে নিরসন করতে হবে। প্রক্রিয়াটি জেডার সংবেদনশীল ও সাংস্কৃতিক বৈষম্যহীনভাবে বাস্তবায়ন করতে হবে। এ ব্যবস্থা ক্ষতিগ্রস্ত জনগণ যেন সহজে গ্রহণ করতে পারে এবং এর জন্য যাতে তাদের কোনও অর্থ ব্যয়ের প্রয়োজন না হয় তা নিশ্চিত করতে হবে। অভিযোগ নিরসন প্রক্রিয়া সম্পর্কে ক্ষতিগ্রস্তদের যথাসময়ে সঠিক ও বিস্তারিতভাবে অবহিত করতে হবে।

অভিযোগ নিরসন কমিটি ও নিষ্পত্তি প্রক্রিয়া:

অভিযোগ নিরসন প্রক্রিয়া তিনটি স্তরে বাস্তবায়িত হবে। উপজেলা পর্যায়ে প্রাথমিক স্তর ও দ্বিতীয় স্তর এবং প্রকল্প পর্যায়ে তৃতীয় স্তর।

প্রথম স্তর:

এলজিইডি'র উপজেলা পর্যায়ে প্রাথমিক স্তরে থাকবে অভিযোগকারীর সহজে যোগাযোগের সুযোগ ও অভিযোগসমূহ দ্রুত সমাধানের ব্যবস্থা। এ স্তরে উপজেলা প্রকৌশলী তার দপ্তরের একজন উপ-সহকারী প্রকৌশলীকে ফোকাল পার্সন হিসেবে নিয়োজিত করবেন। ফোকাল পার্সন ক্ষতিগ্রস্তের অভিযোগ গ্রহণ এবং দ্রুত নিরসনের উদ্যোগ গ্রহণ করবেন। ক্ষতিগ্রস্তদের যোগাযোগের সুবিধার জন্য ফোকাল পার্সনের মোবাইল নম্বর উপ-প্রকল্প এলাকার গুরুত্বপূর্ণ স্থানে কুলিয়ে দিতে হবে। ক্ষতিগ্রস্ত ব্যক্তি/ব্যক্তিবর্গের কাছ থেকে লিখিত অভিযোগ প্রাপ্তির পর ফোকাল পার্সন বিষয়টি অবিলম্বে প্রাথমিক স্তরে গঠিত কমিটিতে (কমিটির কার্যপরিধির ২নং দায়িত্বের নিরিখে) উপস্থাপন করবেন।

প্রথম স্তরের স্থানীয় অভিযোগ নিরসন কমিটি:

- (১) উপজেলা প্রকৌশলী/ উপজেলা সহকারী প্রকৌশলী, সংশ্লিষ্ট উপজেলা ----- সভাপতি
- (২) সিআরডিপি-২ প্রকল্পের কনসালটেন্ট (সেভগার্ড এক্সপার্ট)----- সদস্য
- (৩) পরিবেশ/সামাজিক সুরক্ষা ফোকাল কর্মকর্তা, সংশ্লিষ্ট উপজেলা ----- সদস্য-সচিব

চলমান পৃষ্ঠা-৫

প্রথম স্তরের স্থানীয় অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) ক্ষতিগ্রস্ত ব্যক্তির অভিযোগ গ্রহণ এবং পারস্পরিক আলোচনার ভিত্তিতে তা নিরসন করা,
- (২) অভিযোগকারীর অভিযোগ গ্রহণের ৭ দিনের মধ্যে অভিযোগ নিষ্পত্তিকরণের ব্যবস্থা করা,
- (৩) ভূমি এবং / অথবা অবকাঠামো (Structures) অধিগ্রহণ, জীবিকা অর্জনের ওপর প্রভাব, প্রাপ্তব্য ক্ষতিপূরণ (Entitlements) এবং বিভিন্ন সহযোগিতা সম্পর্কে ক্ষতিগ্রস্তদের অবহিত করা,
- (৪) অভিযোগকারী ব্যক্তির অভিযোগ সংক্রান্ত যাবতীয় তথ্যাবলী লিপিবদ্ধ করা,
- (৫) অভিযোগ নিষ্পত্তি সংক্রান্ত যাবতীয় রেকর্ড ও সভার কার্যবিবরণী যথাযথভাবে সংরক্ষণ এবং উপজেলা প্রকৌশলী কর্তৃক নির্বাহী প্রকৌশলী, এলজিইডি, সংশ্লিষ্ট জেলা - এর মাধ্যমে প্রকল্প পরিচালক-কে অবহিত করা।

দ্বিতীয় স্তর:

প্রাথমিক স্তরে কোনো অভিযোগ অমীমাংসিত থাকলে উপজেলা প্রকৌশলী উপজেলা পর্যায়ে গঠিত দ্বিতীয় স্তরের স্থানীয় অভিযোগ নিরসন কমিটি-এর নিকট অভিযোগটি দ্রুত লিখিতভাবে জানাবেন। উপজেলা প্রকৌশলীর লিখিত পত্র প্রাপ্তির পর দ্বিতীয় স্তরের অভিযোগ নিরসন প্রক্রিয়া শুরু হবে।

দ্বিতীয় স্তরের স্থানীয় অভিযোগ নিরসন কমিটি:

- (১) উপজেলা নির্বাহী কর্মকর্তা, সংশ্লিষ্ট উপজেলা ----- সভাপতি
- (২) উপজেলা নির্বাহী কর্মকর্তা এর প্রতিনিধি, সংশ্লিষ্ট উপজেলা ----- সদস্য
- (৩) ক্ষতিগ্রস্ত ব্যক্তিবর্গের প্রতিনিধি, সংশ্লিষ্ট উপজেলা ----- সদস্য
- (৪) স্থানীয় ভূমি রেজিস্ট্রি দপ্তরের প্রতিনিধি ----- সদস্য
- (৫) পরিবেশ অধিদপ্তরের বিভাগীয় দপ্তরের প্রতিনিধি ----- সদস্য
- (৬) এলজিইডি'র নির্বাহী প্রকৌশলীর দপ্তরের প্রতিনিধি, সংশ্লিষ্ট জেলা ----- সদস্য
- (৭) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা, সংশ্লিষ্ট উপজেলা ----- সদস্য-সচিব

দ্বিতীয় স্তরে স্থানীয় অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) এ পর্যায়ে প্রকল্পে ক্ষতিগ্রস্ত ব্যক্তিদের সম্পদ অধিগ্রহণে (স্থায়ী/অস্থায়ীভাবে) ক্ষতির পরিমাণ (শুধুমাত্র ভৌত পরিমাণ- Physical Quantity) নির্ধারণ এবং ক্ষতিপূরণ প্রাপ্তিতে সহযোগিতা করা,
- (২) ক্ষতিগ্রস্ত ব্যক্তির অভিযোগ পুনর্বাসন নীতিমালার আওতাভুক্ত হলে প্রকল্প কর্তৃপক্ষের মাধ্যমে ক্ষতিপূরণ প্রাপ্তিতে সহযোগিতা করা,
- (৩) ক্ষতিগ্রস্তদের অভিযোগসমূহ ধরণ অনুযায়ী বিন্যাস করে অগ্রাধিকার ভিত্তিতে ১ মাস সময়ের মধ্যে সমাধান করা,
- (৪) অভিযোগকারীর অভিযোগ বিষয়ে অগ্রগতি এবং কমিটির সিদ্ধান্ত অভিযোগকারীকে অবহিত করা,
- (৫) অভিযোগকারীর অভিযোগ বিষয়ে অগ্রগতি এবং নিরসন কমিটির সিদ্ধান্তসমূহ উপজেলা নির্বাহী কর্মকর্তা- এর মাধ্যমে প্রকল্প পরিচালক-কে অবহিত করা,
- (৬) অভিযোগ নিরসন কমিটি মাসে অন্তত: ২ বার সভায় বসবে। অমীমাংসিত অভিযোগের সংখ্যার ভিত্তিতে এবং প্রকল্প পরিচালকের সাথে আলোচনা করে মাসিক সভার সংখ্যা হ্রাস বা বৃদ্ধি করা যাবে।

তৃতীয় স্তর:

দ্বিতীয় স্তর পর্যায়ে স্থানীয় অভিযোগ নিরসন কমিটি-তে কোনো অভিযোগ অমীমাংসিত থেকে গেলে নির্বাহী প্রকৌশলী, সংশ্লিষ্ট জেলা বিষয়টি দ্রুত প্রকল্প পরিচালককে অবহিত করবেন। প্রকল্প পরিচালক স্থানীয় অভিযোগ নিরসন কমিটির প্রতিবেদন ও সুপারিশসমূহের ভিত্তিতে নির্বাহী প্রকৌশলীর সঙ্গে আলোচনা করে প্রকল্প পর্যায়ে গঠিত তৃতীয় স্তরে অভিযোগ নিরসন কমিটির কার্যক্রম শুরু করবেন।

তৃতীয় স্তরের প্রকল্প পর্যায়ের অভিযোগ নিরসন কমিটি:

- (১) প্রকল্প পরিচালক, সিআরডিপি-২ ----- সভাপতি
- (২) প্রতিনিধি, ভূমি মন্ত্রণালয় ----- সদস্য
- (৩) প্রতিনিধি, পরিবেশ অধিদপ্তর ----- সদস্য
- (৪) পরিবেশ/সামাজিক সুরক্ষা ফোকাল কর্মকর্তা, সংশ্লিষ্ট উপজেলা ----- সদস্য
- (৫) প্রকল্পে ক্ষতিগ্রস্ত ব্যক্তিবর্গের প্রতিনিধি ----- সদস্য
- (৬) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা, সিআরডিপি-২ ----- সদস্য-সচিব

চলমান পৃষ্ঠা-৬

তৃতীয় স্তরের প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির কার্যপরিধি:

- (১) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা অভিযোগ ও পূর্ববর্তী স্তরের সিদ্ধান্তসমূহ প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটিতে উপস্থাপন করবেন,
- (২) প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটি অভিযোগ গ্রহণের সাত দিনের মধ্যে সভা আহ্বান করবে, প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটি পনেরো দিনের মধ্যে সিদ্ধান্ত প্রদান করবে,
- (৩) প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটি পনেরো দিনের মধ্যে সিদ্ধান্ত প্রদান করবে,
- (৪) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির সভার সিদ্ধান্তসমূহ লিপিবদ্ধ করবেন এবং সভার কার্যবিবরণী জারি করবে,
- (৫) পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা প্রকল্প পর্যায়ে অভিযোগ নিরসন কমিটির সিদ্ধান্ত বাস্তবায়নের অগ্রগতি পর্যালোচনাপূর্বক প্রয়োজনীয় ব্যবস্থা গ্রহণ করবে।

৯/৬/২০২০
(জেসমিন পারভীন)
উপসচিব
ফোন: ৯৫৭৫৫৬৭

বিতরণ (কার্যার্থে):

- ১। সচিব, ভূমি মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা (একজন উপযুক্ত প্রতিনিধি প্রেরণের অনুরোধসহ);
- ২। মহাপরিচালক, পরিবেশ অধিদপ্তর, আগারগাঁও, ঢাকা (বিভাগীয় কার্যালয়ের একজন উপযুক্ত প্রতিনিধি সংশ্লিষ্ট অভিযোগ নিরসন কমিটিতে প্রেরণের অনুরোধসহ);
- ৩। প্রধান প্রকৌশলী, স্থানীয় সরকার প্রকৌশল অধিদপ্তর, আগারগাঁও, ঢাকা;
- ৪। প্রধান নির্বাহী কর্মকর্তা/সচিব,-----সিটি কর্পোরেশন-----;
- ৫। পরিচালক, বিভাগীয় কার্যালয়, পরিবেশ অধিদপ্তর,-----বিভাগ;
- ৬। মেয়র,-----পৌরসভা-----জেলা (একজন উপযুক্ত প্রতিনিধি প্রেরণের অনুরোধসহ);
- ৭। প্রকল্প পরিচালক, সিআরডিপি, এলজিইডি, আগারগাঁও, ঢাকা;
- ৮। উপজেলা নির্বাহী অফিসার,-----উপজেলা,-----জেলা;
- ৯। প্রধান নির্বাহী কর্মকর্তা/সচিব,-----পৌরসভা,-----জেলা;
- ১০। নির্বাহী প্রকৌশলী/সহকারী প্রকৌশলী,-----সিটি কর্পোরেশন,-----;
- ১১। পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা,-----সিটি কর্পোরেশন,-----;
- ১২। নগর পরিকল্পনাবিদ,-----সিটি কর্পোরেশন,-----;
- ১৩। নির্বাহী প্রকৌশলী/সহকারী প্রকৌশলী,-----পৌরসভা,-----জেলা;
- ১৪। সেভ গার্ড এক্সপার্ট, এমডিএস কনসালটেন্ট;
- ১৫। পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা,-----পৌরসভা,-----জেলা;
- ১৬। সাব-রেজিস্ট্রার, স্থানীয় ভূমি রেজিস্ট্রি দপ্তর (একজন উপযুক্ত প্রতিনিধি প্রেরণের অনুরোধসহ);
- ১৭। নগর পরিকল্পনাবিদ,-----পৌরসভা,-----জেলা;
- ১৮। পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা,-----সিটি কর্পোরেশন,-----;
- ১৯। প্রকল্প ক্ষতিগ্রস্ত ব্যক্তিবর্গের একজন প্রতিনিধি;
- ২০। পরিবেশ/পুনর্বাসন সুরক্ষা কর্মকর্তা, সিআরডিপি, এলজিইডি, আগারগাঁও, ঢাকা;
- ২১। পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা,-----সিটি কর্পোরেশন,-----;
- ২২। উপজেলা প্রকৌশলী/সহকারী প্রকৌশলী,-----উপজেলা,-----জেলা;
- ২৩। পরিবেশ/সামাজিক সুরক্ষা কর্মকর্তা,-----উপজেলা,-----জেলা।

স্মারক নং- ৪৬.০৬৮.০০৫.০০.০১৮.২০২০-৪৫৫

তারিখ: ২৪ জ্যৈষ্ঠ ১৪২৭
০৭ জুন ২০২০

অনুলিপি:

- ১। মাননীয় মন্ত্রীর একান্ত সচিব, স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
- ২। সিনিয়র সচিব মহোদয়ের একান্ত সচিব, স্থানীয় সরকার বিভাগ, বাংলাদেশ সচিবালয়, ঢাকা।
- ৩। অফিস কপি/মাষ্টার কপি।

৯/৬/২০২০
(জেসমিন পারভীন)
উপসচিব

English Translation of GRC Formation Office Order

Peoples Republic of Bangladesh
Local Government, Rural Development & Cooperatives Ministry
Local Government Division
Development 2 Branch
www.lgd.gov.bd

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Jaistha, 1427

Ref: 46.068.005.00.018.2020.455

Date:-----

07 June, 2020

Office Order

Under the Second City Region Development Project, where LGED is the implementing/executing agency, Grievance Redress Committees (GRCs) have been formed at Pourashava, City Corporation and LGED levels to redress the reported grievances resulting from the subproject implementation. These Committees are to redress the reported grievances in a procedural basis and it is being done in a quick and timely fashion.

(i) At Pourashava Level:

Grievance Redress Committee (GRC) and Grievance Redress Mechanism (GRM):

The GRM will be implemented in three levels. First and Second Levels shall involve at Pourashava and the Third at Project Level.

First Level: The first level and most accessible and immediate venue for the fastest resolve of grievances is the PIU. At this level, PIU Head (Mayor of Pourashava) shall appoint/nominate an Officer from the concerned PIU as Focal Person. The Focal Person will document the grievances of the affected persons and will take initiative for quick resolution. The contact cell phone number of the Focal Person will be posted at important places of the project areas. After receiving the written complaints from the project affected person/s, the Focal Person shall immediately place it to the First Level Committee (as per committee's work-clause No. 2).

First Level Grievance Redressal committee (at Local Level):

- 1) Executive Engineer/Assistant Engineer of concerned PIU-----Chairman
- 2) Consultant of CRDP-II (Safeguard Expert/Specialist-----Member
- 3) Environmental/Social Safeguard Focal Officer of concerned PIU-----Member Secretary

Scope of Work of First Level Grievance Redressal Committee (at Local Level)

- 1) Document the grievances of affected persons (AP) and resolved these through continuous interactions,
- 2) Once the grievances of AP is received/reported, these to be resolved within 7 (seven) days of receipt of the complaint,
- 3) Make aware the APs regarding land acquisition, structures acquisition, livelihood impacts, entitlements, and various assistances related to the above,
- 4) All grievances will be documented with full information of the person and issue,
- 5) Resolved grievances and other related records and minutes of meeting are to preserve properly, and make the Project Director aware this through the Mayor.

Second Level: If the grievance remains unresolved at First Level of Pourashava, the Member Secretary (Focal Person/Officer) of the First Level, through the Mayor, shall refer the case/issue with written documentation to the Second Level GRC formed at Pourashava Level. The Mayor, after receiving a written letter containing the above fact, shall activate the Second Level of the GRM.

Second Level Grievance Redressal committee (at Local Level):

- 1) Chief Executive Officer/Secretary of concerned Pourashava-----Chairman
- 2) Representative of the Mayor of concerned Pourashava-----Member
- 3) Representative of Affected Persons of concerned Pourashava -----Member
- 4) Official Representative of the land registry department-----Member
- 5) Official Representative of the DOE Divisional Office-----Member

- 6) Town planner of the Pourashava or City Corporation-----Member
- 7) Environmental/social safeguard Focal Officer of concerned Pourashava-----Member

Scope of Work of Second Level Grievance Redressal Committee (at Local Level)

- 1) Provide support to affected persons on problems arising from land acquisition (temporary or permanent), asset acquisition and eligibility for entitlements, compensation and assistance,
- 2) If any affected person's claim of loss is valid under the context of statutory laws pertaining to relocation, the committee must help the complainant in being recompensed by the project authority,
- 3) Record grievances of affected persons, categorize and prioritize them and provide solutions within 30 days from receipt of grievance from the first level,
- 4) Report to the aggrieved parties about developments regarding their grievances and decisions of the GRC,
- 5) The progress of resolve and decisions made by GRC related to the grievances of the complainant must be informed to the PD through the Mayor of the Pourashova,
- 6) The GRC must hold at least two meetings a month. The number of meetings held may be increased or decreased based on the existing number of unresolved cases and making discussion with the PD.

Third Level: Should the grievance still remain unresolved, the Project Manager (the Mayor) of concerned Pourashava will activate the third level of the GRM by informing quickly the Project Director who will, based on review of the local GRC minutes and consultation with the local GRC Chair (the Mayor), activate the Third Level GRC.

Third Level Grievance Redressal committee (at Project Level):

- 1) Project Director, CRDP-II Secretary of concerned Pourashava-----Chairman
- 2) Representative from Land Ministry -concerned Pourashava-----Member
- 3) Representative from Department of Environment (DOE)-----Member
- 4) Environmental/social safeguard Focal Officer of concerned Pourashava-----Member
- 5) Representative of Affected Persons of concerned Pourashava-- ----- Member
- 6) Environmental/social safeguard Focal Officer from CRDP-II-----Member Secretary

Scope of Work of Third Level Grievance Redressal Committee at Project Level

- 1) The Environmental and/or Social Safeguards Officer of the PMCU will be responsible for processing and placing all papers related to the grievances and earlier decisions before the Project Level GRC
- 2) A meeting shall be convened within 7 (seven) days just after receiving the complaint at the Project Level,
- 3) The GRC at Project Level will conveyed decision within 15 (fifteen) days of the receipt of the complaint,
- 4) Environment/Social Safeguard Officer at Project Level shall record the decisions taken at the GRC meeting and issuing minutes of the meeting/s,
- 5) Environment/Social Safeguard Officer at Project Level, after discussion with, shall take necessary actions regarding the progress of the implementation of the decisions taken by the GRC

(ii) At City Corporation Level:

Necessity of Grievance Redressal Committee (GRC)

During the implementation of CRDP-II, if any private property/asset (temporary/permanent) gets damaged and if any grievances are raised by the affected persons, then in order to resolve such issues, it becomes mandatory/ compulsory to form a GRC at City Corporation Level. The formed GRC would play an effective role in receiving and resolving the grievances/complaints raised by the affected persons that may cause from the implementation of projects and subprojects of the City

Corporation. The process of resolving so and so complaints would be considered as a part of policies relating to safeguard of the project. In this process, the grievances of aggrieved person or persons must be addressed and resolved in a transparent and timely manner. The process to be implemented should not be gender sensitive and should be free from any cultural biases. It should be ensured that in this form of resolve, the affected persons can easily accept the process of achieving the resolve and they do not require spending any money for it. The affected persons must gradually be given accurate and elaborate information on this process of grievances redressing.

Grievance Redressal Committee and Settlement Process

The grievances redress process will be implemented at 3 (three) levels. The First and Second Levels will be addressed at City Corporation Level and the Third at Project Level.

First Level: At the First Level, the complainant/AP shall have easy accessibility to the venue and a fastest resolve of grievances system. In this stage, the PIU Head shall appoint an Officer of the concerned PIU as a focal person of the project. The focal person will receive complaints from the victims and make an effort for prompt grievance redress. In order to provide ease of communication, the focal person's mobile number needs to be put up in an important place of the project area. Upon receipt of a written complaint/s from the victim or persons, the Focal Person shall immediately refer the matter to the committee formed at the primary level (as per scope of work no. 2 of the Committee in terms of responsibility)

First Level Local Grievance Redressal committee

- 1) Executive Engineer/Assistant Engineer of concerned City Corporation-----Chairman
- 2) Project Consultant (Safeguard Expert) of CRDP-II-----Member
- 3) Environmental/Social Safeguard Focal Person of concerned City Corporation----- Member Secretary

Scope of work of the First Level Grievance Redressal Committee (at Local Level)

- 1) Upon receipt of the complaints from the affected/aggrieved person, grievances are being resolved through discussions
- 2) Once the grievances of AP is received/reported, these are to be resolved within 7 (seven) days of receipt of the complaint,
- 3) Inform the affected persons about land acquisition, structures acquisition, livelihood impacts, entitlements, and about various assistance/collaboration,
- 4) All the information related to the complaint of the complainant is recorded,
- 5) To preserve properly all records and minutes of meetings related to grievance redressal and inform the Project Director through the Project Manager (Head of PIU).

Second Level: If the grievance remains unresolved at First Level, the Member Secretary (Focal Person/Officer) of the First Level, through the Project Manager (Head of PIU) shall refer the case/issue with written documentation to the Second Level GRC formed at City Corporation Level. The Mayor, after receiving a written letter containing the above fact, shall activate the Second Level of the GRM.

Second Level Grievance Redressal committee (at Local Level):

- 1) Chief Executive Officer/Secretary of concerned City Corporation -----
Chairman
- 2) Representative of the Mayor of concerned City Corporation -----
Member
- 3) Representative of Affected Persons of concerned City Corporation-----
Member
- 4) Official Representative of the land registry department-----
Member
- 5) Official Representative of the DOE Divisional Office-----
Member
- 6) Town planner of the Pourashava or City Corporation-----
Member

- 7) Environmental/social safeguard Focal Officer of concerned City Corporation -----
Member

Scope of Work of Second Level Grievance Redressal Committee (at Local Level)

- 1) Provide support to affected persons on problems arising from land acquisition (temporary or permanent), asset acquisition and eligibility for entitlements, compensation and assistance,
- 2) If any affected person's claim of loss is valid under the context of statutory laws pertaining to relocation, the committee must help the complainant in being recompensed by the project authority
- 3) Record grievances of affected persons, categorize and prioritize them and provide solutions within 30 days from receipt of grievance from the first level
- 4) Report to the aggrieved parties about developments regarding their grievances and decisions of the GRC.
- 5) The progress of resolve and decisions made by GRC related to the grievances of the complainant must be informed to the PD through the Project Manager (Head of PIU) of City Corporation.
- 6) The GRC must hold at least two meetings a month. The number of meetings held may be increased or decreased based on the existing number of unresolved cases and making discussion with the PD.

Third Level: Should the grievance still remain unresolved at second level, the Project Manager (Head of PIU) will inform the Project Director quickly. The Project Director will activate the third level of the GRC at the project level based on review of the local GRC minutes and consultation with the Head of PIU.

Third Level Grievance Redressal committee (at Project Level):

- 1) Project Director, CRDP-II -----Chairman
- 2) Representative from Land Ministry -----Member
- 3) Representative from Department of Environment (DOE)-----Member
- 4) Environmental/social safeguard Focal Officer of concerned Pourashava-----Member
- 5) Representative of Affected Persons ----- Member
- 6) Environmental/social safeguard Focal Officer from CRDP-II-----Member Secretary

Scope of Work of Third Level Grievance Redressal Committee at Project Level

- 1) The Environmental and/or Social Safeguards Officer of the PMCU will be responsible for processing and placing all papers related to the grievances and earlier decisions before the Project Level GRC
- 2) A meeting shall be convened within 7 (seven) days just after receiving the complaint at the Project Level,
- 3) The GRC at Project Level will conveyed decision within 15 (fifteen) days of the receipt of the complaint,
- 4) Environment/Social Safeguard Officer at Project Level shall record the decisions taken at the GRC meeting and issuing minutes of the meeting/s,
- 5) Environment/Social Safeguard Officer at Project Level, after discussion with, shall take necessary actions regarding the progress of the implementation of the decisions taken by the GRC

(iii) At LGED Level:

Necessity of Grievance Redressal Committee (GRC)

During the implementation of CRDP-II, if any private property/asset (temporary/permanent) gets damaged and if any grievances are raised by the affected persons, then in order to resolve such issues, it becomes mandatory/ compulsory to form a GRC. The formed GRC would play an effective role in receiving and resolving the grievances/complaints raised by the affected persons that may cause from the implementation of projects and subprojects. The process of resolving so and so

complaints would be considered as a part of policies relating to safeguard of the project. In this process, the grievances of aggrieved person or persons must be addressed and resolved in a transparent and timely manner. The process to be implemented should not be gender sensitive and should be free from any cultural biases. It should be ensured that in this form of resolve, the affected persons can easily accept the process of achieving the resolve and they do not require spending any money for it. The affected persons must gradually be given accurate and elaborate information on this process of grievances redressing.

Grievance Redressal Committee and Settlement Process

The grievances redress process will be implemented at 3 (three) levels. The First and Second Levels will be addressed at Upazila Level and the Third at Project Level.

First Level: At the First Level, the complainant/AP shall have easy accessibility to the venue and a fastest resolve of grievances system. In this stage, the Upazila Engineer shall appoint a Sub Assistant Engineer of the concerned PIU as a focal person of the project. The focal person will receive complaints from the victims and make an effort for prompt grievance redress. In order to provide ease of communication, the focal person's mobile number needs to be put up in an important place of the project area. Upon receipt of a written complaint/s from the victim or persons, the Focal Person shall immediately refer the matter to the committee formed at the primary level (as per scope of work no. 2 of the Committee in terms of responsibility)

First Level Local Grievance Redressal committee

- 1) Executive Engineer/Assistant Engineer of concerned City Corporation-----Chairman
- 2) Project Consultant (Safeguard Expert) of CRDP-II-----Member
- 3) Environmental/Social Safeguard Focal Person of concerned City Corporation-----Member-Secretary

Scope of work of the First Level Grievance Redressal Committee (at Local Level)

- 1) Upon receipt of the complaints from the affected/aggrieved person, grievances are being resolved through discussions,
- 2) Once the grievances of AP is received/reported, these are to be resolved within 7 (seven) days of receipt of the complaint,
- 3) Inform the affected persons about land acquisition, structures acquisition, livelihood impacts, entitlements, and about various assistance/collaboration,
- 4) All the information related to the complaint of the complainant is recorded,
- 5) To preserve properly all records and minutes of meetings related to grievance redressal and inform the Project Director by the Upazila Engineer through the Executive Engineer, LGED, of concerned district.

Second Level: If any complaint is unresolved at the primary level, the Upazila Engineer will report the complaint in writing to the second level local grievance redressal committee formed at the upazila level. After receiving the written letter from the Upazila Engineer, the second level grievance redressal process will start.

Second level local grievance redressal committee

- 1) Upazila Nirbahi (Executive) Officer-----Chairman
- 2) Representative of Upazila Nirbahi (Executive) Officer of concerned Upazila-----Member
- 3) Representative of aggrieved/affected person of concerned City Corporation-----Member
- 4) Representative of the local Land Registry Office-----Member
- 5) Representative of Divisional DOE Office-----Member
- 6) Representative of Office of Executive Engineer of concerned District-----Member
- 7) Environmental/Social Safeguard Officer of concerned District-----Member Secretary

Scope of the second level local grievance redressal committee

- 1) At this stage, it is to assess the amount of loss (physical quantity only) in the acquisition of assets (permanent / temporary) of the affected persons in the project, and to assist in obtaining compensation
- 2) To assist in obtaining compensation from the project authorities, if the victim's complaint is covered by the Rehabilitation Policy,
- 3) To resolve the grievances of the victims/AP on priority basis by sorting them according to type within 1 month,
- 4) To inform the complainant about the progress of the complaint and the decision of the committee,
- 5) To inform the Project Director through the Upazila Nirbahi (Executive) Officer about the progress of the complainant's complaint and the decisions of the Redressal Committee.
- 6) The grievance redressal committee will meet at least twice a month. The number of monthly meetings can be reduced or increased based on the number of unresolved complaints and in consultation with the Project Director.

Third Level: In the second stage, if any grievance remains unresolved in the local grievance redressal committee, the Executive Engineer of concerned District will immediately inform the project director. The Project Director will initiate the activities of the third level grievance redressal committee formed at the project level in consultation with the Executive Engineer on the basis of the report and recommendations of the local grievance redressal committee.

Third level local grievance redressal committee

- 1) The Project Director of CRDP-II -----
Chairman
- 2) Representative of Land Ministry-----
Member
- 3) Representative of Department of environment-----
Member
- 4) Environmental/Social Safeguard Focal Person, concerned Upazila-----Member
- 5) Representative of Project Affected Persons-----
Member
- 6) Environmental/Social Safeguard Focal Person, CRDP-II-----Member-Secretary

Scope of the Third Level local grievance redressal committee

- 1) The Environment / Social Safeguard Officer will present the grievances and previous level decisions to the grievance redressal committee.
- 2) At the Project Level, the grievance redressal committee will convene a meeting within 7 days of receiving the grievance
- 3) At the Project Level, the grievance redressal committee will provide decision within 15 days
- 4) The Environment / Social Safeguard Officer, at the Project Level, will record the decisions of the grievance redressal committee meeting and issue the minutes of the meeting.
- 5) The Environmental / Social Safeguard Officer, at the Project Level, will take necessary steps after discussing the progress of implementation of the decision of the grievance redressal committee.

Signature

(Jesmin Parvin)
Deputy Secretary
Phone: 9575567

Distribution (in action)

- 1) Secretary, Land Ministry, Bangladesh Secretariate, Dhaka (With a request to send a suitable representative)
- 2) Director General, Department of Environment, Agargaon, Dhaka (With the request to send a suitable representative of the Divisional Office to the concerned grievance redressal committee)
- 3) Chief Engineer, Local Government Engineering Department, Agargaon, Dhaka
- 4) Chief Executive Officer/Secretary, ----- City Corporation-----
- 5) Director, Divisional Office, Department of Environment, -----Division
- 6) Mayor,-----Pourashava-----District (With a request to send a suitable representative)
- 7) Project Director, CRDP-II, Local Government Engineering Department, Agargaon, Dhaka
- 8) Upazila Nirbahi Officer, -----Upazila-----District
- 9) Chief Executive Officer/Secretary, -----Pourashava-----District
- 10) Executive Engineer/Assistant Engineer-----City Corporation-----
-
- 11) Environmental/Social Safeguard Officer-----City Corporation-----
-
- 12) Urban Planner,-----City Corporation-----
-
- 13) Executive Engineer/Assistant Engineer-----Pourashava-----District
- 14) Safeguard Expert, MDS Consultant
- 15) Environmental/Social Safeguard Officer-----Pourashava-----District
- 16) Sub Register, Local Land Registry Office (With a request to send a suitable representative)
- 17) Urban Planner-----Pourashava-----District
- 18) Environmental/Social Safeguard-----City Corporation-----
- 19) Representative from project affected persons
- 20) Environmental/Resettlement Safeguard Officer, CRDP-II, LGED, Dhaka
- 21) Environmental/Social Safeguard Officer-----City Corporation-----
- 22) Upazila Engineer/Assistant Engineer-----Upazila-----District
- 23) Environmental/Social Safeguard Officer-----Upazila-----District

Reference no.-46.068.005.00.00.018.2020.455

Date: 24 Jaistha 1427
07 June 2020

Copy to :

1. Private Secretary to the Hon'ble Minister, Ministry of Local Government, Rural Development and Cooperatives, Bangladesh Secretariat, Dhaka
2. Private Secretary to Senior Secretary, Department of Local Government, Bangladesh Secretariat, Dhaka
3. Office Copy / Master Copy

Signature

(Jesmin Parvin)
Deputy Secretary

Appendix 4: 1. Sample Filled-in EMP compliance monitoring checklist

Savar Pou W-01 (EMP Checklist)

Table: Site-specific EMP Compliance Status
EMP Compliance Checklist

Second City Region Development Project (CRDP-II) : CRDP-II/LGED/SAVAR/POU/NCB/2018/W-01

(Date: 30/04/2021)

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
1.	Construction camps	• Obtaining approval	✓			
		• Erection of signboard in Bangla and English with project details	✓			
		• Install accommodation facilities for workers	✓			
		• Drainage channels installation	✓			
		• Supply of safe drinking water	✓			
		• Supply of adequate sanitation	✓			
2.	Deployment of Environment and Safety Supervisor	• Deployment one full-time Environment health and Safety officer by the contractor to oversee and comply environmental safeguards	✓			
3	Fuel storage areas	• Install hardstand/raised platform with polyethylene on the top	✓			
		• Firefighting equipment installation	✓			
		• Regular checks on physical condition	✓			
4	Access road construction	• Obtaining approval	✓			
		• Construction of culverts if needed	✓			

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
5	Earthworks	• Agreeing on disposal of spoil earth/soils	✓			
		• Prevention of erosion/dust due to transporting /carrying earth	✓			
106	Workers' Health and safety	• Development of Health and Safety Plan	✓			
		• Train all staff in health and safety	✓			
		• Considering prevention and control of COVID-19 at worksite	✓			
		• Provision of PPE (gloves, masks, helmets, gum boots, goggles etc.) and ensuring their use	✓			
		• Installation of first aid facilities at work site/camps with adequate stock				
		• Provide separate sanitation facilities for male & female if needed	✓			
		• Provision of safe drinking water to work force (arsenic free)	✓			
7	Public Safety	• Notify the community people about the construction activities in the areas	✓			
		• Installation of dedicated pathways for pedestrians	✓			
		• Installation of Regulatory safety signs and signals	✓			
		• Limitation of construction vehicles at public roads during peak hours.	✓			
8	Protection of Cultural//Archaeological Properties	• Providing measures to protect cultural properties	✓			
9	Water Supply	• Providing construction camps /site office with potable water through installing tube wells	✓			
		• Ensuring that there are no tube wells sitting near any sanitation facilities as to avoid water pollution.	✓			
		• Maintaining the distance of water source (ground /surface water from a soak pit at minimum 15m.	✓			
		Maintaining the drainage from the tube well diverting into the drainage system of	✓			

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
		the camp area.				
10	Sanitation	<ul style="list-style-type: none"> • Providing suitable sanitation facilities for the workforce. • Ensuring the location plan of the latrine at least 50 meter away from the accommodation facility. • Providing separate latrines for the use of women. • Installing treatment facilities (i.e. septic tank, soak pits etc.) for sewerage of toilet and camp site wastes. • Arranging disposal of wastewater from washrooms, kitchens, s, etc. via the camp area's drainage system. 	✓			
11	Waste	• Provision of containers to store separately non-hazardous/hazardous solid waste	✓			
		• Proper disposal of generated wastes at approved disposal sites	✓			
12	Dust Control	• Covering or wetting of dusty materials	✓			
		• Dust suppression by wetting surfaces			✓	
		• Impose speed limits	✓			
13	Water and Hydrology	• Preventing wastes, soil, etc. entering in the water system by waste collection, revegetation and dust suppression etc.	✓			
14	Flora and Fauna	• Agreeing with local authorities on tree felling	✓			
		• Avoid/prevent un-necessary tree/vegetation cutting and clearing	✓			
		• Ensuring sufficient free flow in the construction work for fish migration	✓			
		• Prevent disturbance of animals	✓			

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
15	Complaints and Environmental Incidents	<ul style="list-style-type: none"> Complaints received from the public or other stakeholders will be registered and recorded and be brought to the attention of the Site Engineer. 	✓			
		<ul style="list-style-type: none"> All environmental incidents occurring on the site will be recorded and be brought to the attention of the Site Engineer. 	✓			
		<ul style="list-style-type: none"> Action will be taken within 7 working days. 	✓			

2. Sample Filled-in EMP compliance monitoring checklist

Savar UZ W-04 (EMP Checklist)

Table: Site-specific EMP Compliance Status

EMP Compliance Checklist Second City Region Development Project (CRDP-II) : CRDP-II/LGED/DHAKA/SAVAR/NCB/2018/W-04	Date: 30/04/2021
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SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
1.	Construction camps	• Obtaining approval	✓			
		• Erection of signboard in Bangla and English with project details	✓			
		• Install accommodation facilities for workers	✓			
		• Drainage channels installation	✓			
		• Supply of safe drinking water	✓			
		• Supply of adequate sanitation	✓			
2.	Deployment of Environment and Safety Supervisor	• Deployment one full-time Environment health and Safety officer by the contractor to oversee and comply environmental safeguards	✓			
3.	Fuel storage areas	• Install hardstand/raised platform with polyethylene on the top	✓			
		• Firefighting equipment installation	✓			
		• Regular checks on physical condition	✓			
4.	Access road construction	• Obtaining approval	✓			
		• Construction of culverts if needed	✓			
5.	Earthworks	• Agreeing on disposal of spoil earth/soils	✓			
		• Prevention of erosion/dust due to transporting /carrying earth	✓			

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
6.	Workers' Health and safety	• Development of Health and Safety Plan	✓			
		• Train all staff in health and safety	✓			
		• Considering prevention and control of COVID-19 at worksite	✓			
		• Provision of PPE (gloves, masks, helmets, gum boots, goggles etc.) and ensuring their use	✓			
		• Installation of first aid facilities at work site/camps with adequate stock	✓			
		• Provide separate sanitation facilities for male & female if needed	✓			
		• Provision of safe drinking water to work force (arsenic free)	✓			
7.	Public Safety	• Notify the community people about the construction activities in the areas	✓			
		• Installation of dedicated pathways for pedestrians	✓			
		• Installation of Regulatory safety signs and signals	✓			
		• Limitation of construction vehicles at public roads during peak hours.	✓			
8.	Protection of Cultural//Archaeological Properties	• Providing measures to protect cultural properties	✓			
9.	Water Supply	• Providing construction camps /site office with potable water through installing tube wells	✓			
		• Ensuring that there are no tube wells sitting near any sanitation facilities as to avoid water pollution.	✓			
		• Maintaining the distance of water source (ground /surface water from a soak pit at minimum 15m.	✓			
		Maintaining the drainage from the tube well diverting into the drainage system of the camp area.	✓			


SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
10.	Sanitation	<ul style="list-style-type: none"> • Providing suitable sanitation facilities for the workforce. • Ensuring the location plan of the latrine at least 50 meter away from the accommodation facility. • Providing separate latrines for the use of women. • Installing treatment facilities (i.e. septic tank, soak pits etc.) for sewerage of toilet and camp site wastes. • Arranging disposal of wastewater from washrooms, kitchens, s, etc. via the camp area's drainage system. 	✓			
11.	Waste	• Provision of containers to store separately non-hazardous/hazardous solid waste	✓			
		• Proper disposal of generated wastes at approved disposal sites	✓			
12.	Dust Control	• Covering or wetting of dusty materials	✓			
		• Dust suppression by wetting surfaces			✓	
		• Impose speed limits	✓			
13.	Water and Hydrology	• Preventing wastes, soil, etc. entering in the water system by waste collection, revegetation and dust suppression etc.	✓			
14.	Flora and Fauna	• Agreeing with local authorities on tree felling	✓			
		• Avoid/prevent un-necessary tree/vegetation cutting and clearing	✓			
		• Ensuring sufficient free flow in the construction work for fish migration	✓			
		• Prevent disturbance of animals	✓			
15.	Complaints and Environmental Incidents	• Complaints received from the public or other stakeholders will be registered and recorded and be brought to the attention of the Site Engineer.	✓			

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
		<ul style="list-style-type: none"> All environmental incidents occurring on the site will be recorded and be brought to the attention of the Site Engineer. 	✓			
		<ul style="list-style-type: none"> Action will be taken within 7 working days. 	✓			

Certified that the furnished information is correct and the quality of work as per good practice


 PDS Consultant Site Supervision Engineer


 Environmental Officer (PIU)


 Contractor's Health & Safety Officer

3. Sample Filled-in EMP compliance monitoring checklist

GCC W-01 (EMP Checklist)

Table: Site-specific EMP Compliance Status

EMP Compliance Checklist Second City Region Development Project (CRDP-II):	CRDP-II/LGED/DHAKA/GCC/NCB/2018/W-01	Date: 30/04/2021
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SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
1.	Construction camps	• Obtaining approval	✓			
		• Erection of signboard in Bangla and English with project details	✓			
		• Install accommodation facilities for workers	✓			
		• Drainage channels installation	✓			
		• Supply of safe drinking water	✓			
		• Supply of adequate sanitation	✓			
2.	Deployment of Environment and Safety Supervisor	• Deployment one full-time Environment health and Safety officer by the contractor to oversee and comply environmental safeguards	✓			
3.	Fuel storage areas	• Install hardstand/raised platform with polyethylene on the top	✓			
		• Firefighting equipment installation	✓			
		• Regular checks on physical condition	✓			
4.	Access road construction	• Obtaining approval			✓	
		• Construction of culverts if needed			✓	
5.	Earthworks	• Agreeing on disposal of spoil earth/soils	✓			
		• Prevention of erosion/dust due to transporting /carrying earth	✓			

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
6.	Workers' Health and safety	• Development of Health and Safety Plan	✓			
		• Train all staff in health and safety	✓			
		• Considering prevention and control of COVID-19 at worksite	✓			
		• Provision of PPE (gloves, masks, helmets, gum boots, goggles etc.) and ensuring their use	✓			
		• Installation of first aid facilities at work site/camps with adequate stock	✓			
		• Provide separate sanitation facilities for male & female if needed	✓			
		• Provision of safe drinking water to work force (arsenic free)	✓			
7.	Public Safety	• Notify the community people about the constructions activities in the areas	✓			
		• Installation of dedicated pathways for pedestrians			✓	
		• Installation of Regulatory safety signs and signals	✓			
		• Limitation of construction vehicles at public roads during peak hours.	✓			
8.	Protection of Cultural//Archaeological Properties	• Providing measures to protect cultural properties			✓	
9.	Water Supply	• Providing construction camps /site office with potable water through installing tube wells	✓			
		• Ensuring that there are no tube wells sitting near any sanitation facilities as to avoid water pollution.	✓			
		• Maintaining the distance of water source (ground /surface water from a soak pit at minimum 15m.	✓			
		Maintaining the drainage from the tube well diverting into the drainage system of the camp area.	✓			

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
10.	Sanitation	<ul style="list-style-type: none"> • Providing suitable sanitation facilities for the workforce. • Ensuring the location plan of the latrine at least 50 meter away from the accommodation facility. • Providing separate latrines for the use of women. • Installing treatment facilities (i.e. septic tank, soak pits etc.) for sewerage of toilet and camp site wastes. • Arranging disposal of wastewater from washrooms, kitchens, s, etc. via the camp area's drainage system. 	✓			
11.	Waste	• Provision of containers to store separately non-hazardous/hazardous solid waste	✓			
		• Proper disposal of generated wastes at approved disposal sites	✓			
12.	Dust Control	• Covering or wetting of dusty materials	✓			
		• Dust suppression by wetting surfaces	✓			
		• Impose speed limits	✓			
13.	Water and Hydrology	• Preventing wastes, soil, etc. entering in the water system by waste collection, revegetation and dust suppression etc.			✓	
14.	Flora and Fauna	• Agreeing with local authorities on tree telling			✓	
		• Avoid/prevent un-necessary tree/vegetation cutting and clearing	✓			
		• Ensuring sufficient free flow in the construction work for fish migration	✓			
		• Prevent disturbance of animals	✓			
15.	Complaints and Environmental Incidents	• Complaints received from the public or other stakeholders will be registered and recorded and be brought to the attention of the Site Engineer.	✓			

SI No.	Environmental Issues / Aspects	Activity / Inspection items	Status of compliance (Tick ✓)			Remarks (i.e. specify location, site conditions, problem observed, possible cause of nonconformity and / or proposed corrective/ preventative actions)
			Yes	No	N/A	
		<ul style="list-style-type: none"> All environmental incidents occurring on the site will be recorded and be brought to the attention of the Site Engineer. 	✓			
		<ul style="list-style-type: none"> Action will be taken within 7 working days. 	✓			

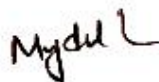
Certified that the furnished information is correct and the quality of work as per good practice

Certified that the furnished information is correct and the quality of work as per good practice



Md. Rakibul Hasan

PDS Consultant/Site Supervision Engineer



Md. Mydul Islam

Environmental Officer (PIU)



Abdul Kaium

Contractor's Health & Safety Officer

Appendix 5: Summary of Findings from Field Visits

Summary of Findings from Field Visits on EMP Issues & EMP Compliance Status

Visited Field sites (ContractPackage no./ Scheme)	Important EMP Issues/ Environmental Attributes	Major observations fromField visits/monitoring against EMP issues	EMP Compliance Status
Visited the randomly selected schemes under thefollowing contract packages:	<ul style="list-style-type: none"> Multilayer, strong safety barriers at excavation or deep cut construction works 	Was found to secure the excavated/deep cut construction site with multilayer safetytape/barrier	EMP Complied
<u>Visited on 30/04/2021</u>	<ul style="list-style-type: none"> Planned stock piles for construction material 	Stack yard with fence around was found at the site	EMP Complied
GCC W-01 Savar W-04 Savar Pou W-01	<ul style="list-style-type: none"> Preventive Measures against COVID 	Use of PPE/temperature recording/ hand washing at worksite are in practice to prevent COVID-19 infection	EMP Complied
<u>Visited on 31/03/2021</u>			
Araihasar W-01/02 Rupganj W-02	<ul style="list-style-type: none"> Water Supply and Sanitation Facility(Gender Segregated) 	Water supply and sanitationfacilities seem to be adequate	EMP Complied
	<ul style="list-style-type: none"> Labor Shed 	Noticed to provide hygienic labor shed at construction site	EMP Complied
	<ul style="list-style-type: none"> Diversion Road 	Was found to construct diversion road at placewhere required	EMP Complied
	<ul style="list-style-type: none"> Warning/Regulatory Sign at Construction work 	Warning/Regulatory sign atthe construction site was found to post for the safe movement of vehicles/pedestrian	EMP Complied
	<ul style="list-style-type: none"> Use of Personal Protective Equipment (PPE) 	Workers were found to usePPE at construction sites	EMP Complied
	<ul style="list-style-type: none"> Dust Suppression 	Noticed initiative of dust suppress by spraying wateron dry surfaces of construction site.	EMP Complied
	<ul style="list-style-type: none"> Waste management at Campsite 	Trashes generated at campsite was found.to collect in the bins	EMP Complied
	<ul style="list-style-type: none"> First-aid Facility at campsite 	Health safety measures including first-aid facilities are found OK at the worksite	EMP Complied
	<ul style="list-style-type: none"> Base environmental data of the subproject site for ambient air, water and noise (sound) quality of the site 	Tested results of base environmental data confirm the permissible level of theirquality	EMP Complied

Photographs from field monitoring sites

In order to demonstrate the overall environmental safeguard compliances at subproject construction site, some photographs from the sites are displayed here below.





CRDP-2/LGED/GCC/NCB/2018/W-01
Organized stackyard



CRDP-2/LGED/GCC/NCB/2018/W-01
Temporary Crossover facility at pipe laying site



CRDP-2/LGED/GCC/NCB/2018/W-01
Project signboard at construction site



CRDP-2/LGED/Savar/NCB/2018/W-03
Secured bridge construction site with fencing



CRDP-2/LGED/Savar/NCB/2018/W-04
Warning sign at construction site



CRDP-2/LGED/GCC/NCB/2018/W-01
Diversion road sign at construction site



CRDP-2/LGED/GCC/NCB/2018/W-01
Planned stock yard for construction materials and CC block construction yard



CRDP-2/LGED/Savar/NCB/2018/W-04
Dust control by watering road under construction









Appendix 6: Participants List for the meeting/training/workshop






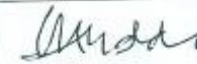




a) Orientation Session on Environmental Safeguard Issues (on 22-03-2021)

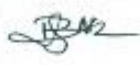






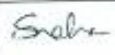
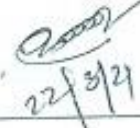

Local Government Engineering Department (LGED) Second City Region Development Project
Orientation Session on Safeguard Issues
Venue: Conference Room, LGED, Dhaka


ATTENDANCE

Date: 22-03-2021

Sl.no	Name & Designation	E-mail Address & Cell Phone No.	Signature
1	Nabila Binte Wadud AE, XEN Office, Dhaka (JPCP)	nabilawadud@gmail.com	Nabila
2	Md. Moazzam Hossain XEN, LGED Dhaka	01711-394180	
3	PETER DAWES TL. PDS.	01772 365265 peterdawes@hotmail.com	
4	M. Shamsuzzaman UDS, CRPP	0174166674	
5	Dr. Md. Nurul Islam Environmental Consultant CRAP-2, LGED	01760602194	
6	MURID HUSSAIN PNS CRAP 2 LGED	01716932675	
7	Pabesh Baran Dhar AE (e-GP), LGED Dhaka	01779-729850	
8	Mohammed Masud Rehman Mollah S/AE, Dhaka	0172 8060775	
9	Saleh Hasan Pramanik UE, Savan	01737377967	

Sl.no	Name & Designation	E-mail Address & Cell Phone No.	Signature
10	Md. Ashur Rashid FE-22 Savar 01712-017595		
11	Md. Mostafizur Rahman FE-23	mrahman6714@gmail.com 01710870606	
12	Md. Saikat Rahman SAE, Savar	Saikat Rahman 1982@gmail.com 01718241562	
13	Md. Alabbur Hossain SAE, Savar	alabbur_77@yahoo.com 01711582502	
14	Md. Shahinur Islam	Shahinurcib@gmail.com 01724022987	 22/03/2021
15	MAYEN UDDIN TAZIM Social Safeguards	01715108687	
16	Md. Kamrul Islam SAE, Savar	01711-145967 itipv70@yahoo.com	
17	M.A.A. FARUK CDS, CRDP II	01717135853 md.abdullah.mfaruk.bd@gmail.com	
18	DASHARATH CHANDRA DEY SAE, XEN Office, Dhaka	01712140595	 24/3/21
19	Md. Jahangir Akbar Work Assit. Dharmrai Power Share	01719655562	 22.03.21
20	Md. Mahadi Hasan Draftsman Dharmrai Power Share Dhaka	mahadi.hasan78@gmail.com 01712-503518	 22.03.21

Sl.no	Name & Designation	E-mail Address & Cell Phone No.	Signature
21	Beauty akter Sub. Asst. Engineer (Civil) Dhamrai pourashava, Dhaka	eng.beautyakter@gmail.com 01718-674760	
22	Engr. Kestud Fazlul Haque Asstt. Engr. Dhamrai Pourashava	kmshane22@gmail.com 01712-141473, 01843985022	
23	Md. Hamidul Haque PD, CRDP-L	pd.crdpl@gmail.com 01711404652	
24	Mohammad Mahfuz Uddin Khan Sr. AE, CRDP-2	mahfuzged07@yahoo.com 01712729045	
25	Md. Anzad Hossain w.A., Xero's Office Rged. Dist: Dhaka	01717054626	
26	Sargul Chandra Biswas Office Manager, PDE Second CRDP	sebiswas.hrfab@gmail.com 01610007207	 22/03/2021
27	Md. Delwar Hossain Surveyor Dhamrai pourashava	Md. Delwar Hossain 74@gmail.com 01711-902079	 22/03/2021
28	Md. Ruhul Amin SAE	01748574013	
29	SS Rabika Rahman AE (GDP-4)	01673387189 ssrosneha@gmail.com	 22/03/2021
30	Ud. Shafiqul Islam SAE, XERO official Dhaka.	01772-85491	 22/3/21
31	MD. ABDUR RAHIM SAE, SAVAR DHAKA.	01789 969584	 22/3/2021

Sl.no	Name & Designation	E-mail Address & Cell Phone No.	Signature
32	A.K.M. Nazimul Chowdhury DPD, CRDP-2	nazimul69@gmail.com 01716794070	 22.03.2021
33			
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Appendix 7: Participants List for the meeting/training/workshop

b) Consultation Workshop on Solid Waste Management (SWM) in KCC (on 9-03-2021)



কুমিল্লা সিটি কর্পোরেশন
কম্পোস্টিং প্ল্যান্ট
প্রকল্প-০১

উন্নয়ন নগর
১ম ওয়ার্ডের কুমিল্লা

আমরা ইতিমধ্যে ০৯/০৩/২১ খ্রি: তারিখ বেলা ০৯ ঘটিকায় কুমিল্লা সিটি কর্পোরেশনের শহীদ আলহাজ্ব মিলনায়তনে রাসমীট মেয়র জনাব আব্দুল কাদের মাহোমদ এর সভাপতিত্বে অনুষ্ঠিত Solid Waste Management Sub-Project (Composting Plant and associated Facilities in KCC including approach road at KUET) under second city Region Development Project" শীর্ষক পরামর্শক সভায় উপস্থিত সম্মানিত সদস্যবৃন্দের যাকব্ব।

ক্র. নং	নাম ও পদবী	মোবাইল নম্বর	ই-মেইল	স্বাক্ষর
১	আব্দুল মাজিদ চৌধুরী সিনিয়র ইঞ্জিনিয়ার কুমিল্লা সিটি কর্পোরেশন	০১৭৬৫৭২৪৯৪২	61164204@gmail.com	21/3/21
২	মো: জাহিদুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১৬-১৫৫৭৭	13911950@gmail.com	21/3/21
৩	শ্রীমতী জাহিদা বেগম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭০২৭৯৩২৩	shahida.zebeduzzeem@gmail.com	21/3/21
৪	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১২-৪০৩৫২৩	shahidulislam13@gmail.com	21/3/21
৫	শ্রীমতী জাহিদা বেগম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৭৭৭	shahida.zebeduzzeem@gmail.com	21/3/21
৬	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
৭	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
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২০	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
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২২	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
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২৪	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
২৫	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
২৬	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
২৭	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
২৮	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
২৯	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
৩০	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
৩১	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21
৩২	মো: মো: সাইফুল ইসলাম কম্পোস্টিং প্ল্যান্ট কুমিল্লা সিটি কর্পোরেশন	০১৭১১৭৩৩০১৬	shahidulislam13@gmail.com	21/3/21



খুলনা সিটি কর্পোরেশন

প্রকৌশলী দপ্তর
ফোন-১

উন্নয়নের দপ্তর
সেবা প্রতিষ্ঠান কুলনা

তারিখ: ০৯/০৩/১৯ প্রি: তারিখ: ০৯/০৩/১৯ খুলনা সিটি কর্পোরেশনের শহীদ আবুল কালাম মিলাদবার্ষিকে জনস্বার্থ মেয়র জনাব আবুল কালাম আবুল খালেক মহোদয়ের এর দক্ষাধীনতায় অধিষ্ঠিত Solid Waste Management Sub-Project (Composting Plant and associated Facilities in KCC including approach road at KUET) under second city Region Development Project" শীর্ষক প্রকল্পের কাজের উপস্থিতি সম্বন্ধীত সভাসম্মেলনের প্রাক্কর :-

ক্রম সং.	নাম ও পদবী	মোবাইল নম্বর	ই-মেইল	স্বাক্ষর
২০	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
২১	সিদ্ধান্ত দায়িত্ব আবুল কালাম	০১৭১২২৭৭ ৬৪০৩	shahidip: ১১@gmail.com	Bahman
২২	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
২৩	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
২৪	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
২৫	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
২৬	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
২৭	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
২৮	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
২৯	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩০	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩১	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩২	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩৩	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩৪	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩৫	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩৬	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩৭	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩৮	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৩৯	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid
৪০	জনস্বার্থ মেয়র শহীদ আবুল কালাম আবুল খালেক	০১৭১৫৫৫৫৫১	shahidip: ১১@gmail.com	Shahid

[illegible]

Appendix 8: Sample Grievance Redress Form

(To be available in Bangla and Other Local Language, if any)

The _____ Project welcomes complaints, queries, queries and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing ***(CONFIDENTIAL)*** above your name. Thank you

Date		Place of registration			
Contact Information/Personal Details					
Name		Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female	Age	
Home Address					
Village / Town					
District					
Phone no.					
E-mail					
Complaint/Suggestion/Comment/Question Please provide the details (who, what, where and how) of your grievance below: If included as attachment/note/letter, please tick here:					
How do you want us to reach you for feedback or update on your comment/grievance?					

FOR OFFICIAL USE ONLY

Registered by: (Name of Official registering grievance)	
Mode of communication: <input type="checkbox"/> Note/Letter <input type="checkbox"/> E-mail <input type="checkbox"/> Verbal/Telephonic	
Reviewed by: (Names/Positions of Official(s) reviewing grievance)	
Action Taken:	
Whether Action Taken Disclosed:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Means of Disclosure:	

Appendix 9: Environmental Management Implementation Schedule

(For Period July 2021 – December 2021)

Activity	Frequency and/or Implementation Time Frame (6 months)
	(July 2021 through December 2021)
1. Preparation of IEE Reports of subproject packages (to be included in the Tender Documents that will be floated for contract award)	Throughout 6 months period
2. Routing supervision and monitoring of construction works and proper implementation of environmental mitigation/safeguard measures, including implementation of EMP.	Throughout construction period at least monthly
3. Issue corrective action request to the contractor or his representative against registered non-compliance of EMP, and conduct follow-up inspections and evaluation of corrective actions.	As needed throughout construction period
4. Reporting: <ul style="list-style-type: none"> a) Monthly Progress Report b) Quarterly Progress Report c) Semi-annual Environmental Monitoring Report 	<ul style="list-style-type: none"> a) In every month b) In every 3rd month (in March and June) c) In the 6th month (in July)

Appendix 10: Sample accident/incident/ near miss report Form

(Reporting by Contractor to PDS Environmental Consultant and PIU & PMCU Environmental Consultant)

(Attach Photograph of the accident/incident Site)

Name of the Contractor or his Representative:

Contact no.

Project Name:	
Subproject/ Scheme Name:	
Place of Occurrence	
Date of occurrence	
Details of what happened	
cause of incident	
Lessons Learned	

Appendix 11: COVID-19 Health & Safety Plan Monitoring Checklist
(EHS COVID-19 Response Guidance, ADB Bangladesh Resident Mission template)

Package Name & Road Name: **CRDP-II/LGED/SAVAR/POU/NCB/2018/W-01**

Month / Year: April 2021

A. Environmental Health and Safety Checklist					
Sl.	Checklist	Number/Quantity		Remarks	
1	Number of workers & employees available at site	110 Person			
2	Health checkup/screening completed for all workers/employee/visitors	110 Person			
3	Washbasin, sanitizer dispenser at site	10 nos			
4	Stock of soap, sanitizer, disinfectants, PPEs (masks, hand gloves, boots) available at site	200 Set			
5	Number of cleaning staff employed	12 person			
6	Number of covered bins with COVID sign at the site	10 nos			
B. Daily Monitoring: COVID -19 protocols (worksite and campsite)					
Sl.	Checklist	Observation		Corrective Action Plan	Time frame to comply
		Yes	No		
1	Medical professional is available on call	√			
2	Contractor's EHS officer is available at site	√			
3	Entrance protocol: 6 ft distance maintained?	√			
4	Disinfectant spray used at site entry at hands and under shoes	√			
5	Workers & employees are using mask, gloves and shoes	√			
6	Workers & employees are washing their hands	√			
7	Used PPEs (masks, gloves) are disposed in covered bin	√			
8	Social distancing: workers & employees maintaining social distancing all the time	√			
9	Vehicle protocol: vehicle disinfection protocol followed	√			
10	Tools/machinery: wiped to disinfect before and after sharing/working	√			
11	Disinfecting work area (worksite/ common surfaces, toilets etc.) are disinfected i) before worksite opened in the morning, ii) before lunch and iii) after closing for the day	√			
12	Trash bins are covered and used for disposal of PPEs (masks, gloves)	√			

*Attach photos, additional information as required

COVID-19 Health & Safety Plan Monitoring Checklist
(EHS COVID-19 Response Guidance, ADB Bangladesh Resident Mission template)

Package Name & Road Name: **CRDP-II/LGED/DHAKA/SAVAR/NCB/2018/W-04**

Month / Year: April 2021

A. Environmental Health and Safety Checklist					
Sl.	Checklist	Number/Quantity		Remarks	
1	Number of workers & employees available at site	295 Person			
2	Health checkup/screening completed for all workers/employee/visitors	295 Person			
3	Washbasin, sanitizer dispenser at site	30 nos			
4	Stock of soap, sanitizer, disinfectants, PPEs (masks, hand gloves, boots) available at site	300 Set			
5	Number of cleaning staff employed	20 person			
6	Number of covered bins with COVID sign at the site	25 nos			
B. Daily Monitoring: COVID -19 protocols (worksite and campsite)					
Sl.	Checklist	Observation		Corrective Action Plan	Time frame to comply
		Yes	No		
1	Medical professional is available on call	√			
2	Contractor's EHS officer is available at site	√			
3	Entrance protocol: 6 ft distance maintained?	√			
4	Disinfectant spray used at site entry at hands and under shoes	√			
5	Workers & employees are using mask, gloves and shoes	√			
6	Workers & employees are washing their hands	√			
7	Used PPEs (masks, gloves) are disposed in covered bin	√			
8	Social distancing: workers & employees maintaining social distancing all the time	√			
9	Vehicle protocol: vehicle disinfection protocol followed	√			
10	Tools/machinery: wiped to disinfect before and after sharing/working	√			
11	Disinfecting work area (worksite/ common surfaces, toilets etc.) are disinfected i) before worksite opened in the morning, ii) before lunch and iii) after closing for the day	√			
12	Trash bins are covered and used for disposal of PPEs (masks, gloves)	√			

*Attach photos, additional information as required

COVID-19 Health & Safety Plan Monitoring Checklist
(EHS COVID-19 Response Guidance, ADB Bangladesh Resident Mission template)

Package Name: CRDP-II/LGED/GCC/NCB/2018/W-01

Road Name: Improvement of Road from Bhabanipur Primary School to Mother Textile via Latifupur Road. (ch.0-3600m)

Month / Year: February, 2021

A. Environmental Health and Safety Checklist					
Sl.	Checklist	Number/Quantity		Remarks	
1	Number of workers & employees available at site	410 person			
2	Health checkup/screening completed for all workers/employee/visitors	410 person			
3	Washbasin, sanitizer dispenser at site	35 nos			
4	Stock of soap, sanitizer, disinfectants, PPEs (masks, hand gloves, boots) available at site	1200 set			
5	Number of cleaning staff employed	40 person			
6	Number of covered bins with COVID sign at the site	20 nos			

B. Daily Monitoring: COVID -19 protocols (worksite and campsite)					
Sl.	Checklist	Observation		Corrective Action Plan	Time frame to comply
		Yes	No		
1	Medical professional is available on call	√			
2	Contractor's EHS officer is available at site	√			
3	Entrance protocol: 6 ft distance maintained?	√			
4	Disinfectant spray used at site entry at hands and under shoes	√			
5	Workers & employees are using mask, gloves and shoes	√			
6	Workers & employees are washing their hands	√			
7	Used PPEs (masks, gloves) are disposed in covered bin	√			
8	Social distancing: workers & employees maintaining social distancing all the time	√			
9	Vehicle protocol: vehicle disinfection protocol followed	√			
10	Tools/machinery: wiped to disinfect before and after sharing/working	√			
11	Disinfecting work area (worksite/ common surfaces, toilets etc.) are disinfected i) before worksite opened in the morning, ii) before lunch and iii) after closing for the day	√			
12	Trash bins are covered and used for disposal of PPEs (masks, gloves)	√			

*Attach photos, additional information as

COVID-19 Health & Safety Plan Monitoring Checklist
(EHS COVID-19 Response Guidance, ADB Bangladesh Resident Mission template)

Package Name: CRDP-II/LGED/GCC/NCB/2018/W-02

Road Name: Improvement of Road from Bhabanipur Primary School to Mother Textile via Latifpur Road. (ch.0-3600m)

Month / Year: February, 2021

A. Environmental Health and Safety Checklist			
Sl.	Checklist	Number/Quantity	Remarks
1	Number of workers & employees available at site	410 person	
2	Health checkup/screening completed for all workers/employee/visitors	410 person	
3	Washbasin, sanitizer dispenser at site	35 nos	
4	Stock of soap, sanitizer, disinfectants, PPEs (masks, hand gloves, boots) available at site	1200 set	
5	Number of cleaning staff employed	40 person	
6	Number of covered bins with COVID sign at the site	20 nos	

B. Daily Monitoring: COVID -19 protocols (worksite and campsite)					
Sl.	Checklist	Observation		Corrective Action Plan	Time frame to comply
		Yes	No		
1	Medical professional is available on call	√			
2	Contractor's EHS officer is available at site	√			
3	Entrance protocol: 6 ft distance maintained?	√			
4	Disinfectant spray used at site entry at hands and under shoes	√			
5	Workers & employees are using mask, gloves and shoes	√			
6	Workers & employees are washing their hands	√			
7	Used PPEs (masks, gloves) are disposed in covered bin	√			
8	Social distancing: workers & employees maintaining social distancing all the time	√			
9	Vehicle protocol: vehicle disinfection protocol followed	√			
10	Tools/machinery: wiped to disinfect before and after sharing/working	√			
11	Disinfecting work area (worksite/ common surfaces, toilets etc.) are disinfected i) before worksite opened in the morning, ii) before lunch and iii) after closing for the day	√			
12	Trash bins are covered and used for disposal of PPEs (masks, gloves)	√			

*Attach photos, additional information as

COVID-19 Health & Safety Plan Monitoring Checklist
 (For COVID-19 Response Guidance, ADB Bangladesh Resident Mission, Dhaka)

Package Name - CRDP-11/GED/NARAYANGONJURUPGANUR/CD-2018/1-02
 Month / Year: March- 2021

A. Environmental Health and Safety Checklist			
Sl. No.	Checklist	Number/Quantity	Remarks
1	Number of workers & employees available at site	62 nos.	
2	Health checkup/screening completed for all workers/employees/visitors	62 nos.	
3	✓ Washbasin, sanitizer dispenser at site	2 nos.	
4	Stock of soap, sanitizer, disinfectants, PPEs (masks, hand gloves, boots) available at site	Available at site	
5	Number of cleaning staff employed	01 nos.	
6	Number of covered bins with COVID sign at the site	02 nos.	

B. Daily Monitoring: COVID-19 protocols (worksite and camps)					
Sl. No.	Checklist	Observation		Corrective Action Plan	Time frame to comply
		Yes	No		
1	Medical professional is available on-site	✓			
2	Contractor's EHS officer is available at site	✓			
3	Entrance protocol: 5 ft distance maintained?	✓			
4	Disinfectant spray used at site entry at hands and under shoes	✓			
5	Workers & employees are using mask, gloves and shoes	✓			
6	Workers & employees are washing their hands	✓			
7	Used PPEs (masks, gloves) and disposed in covered bin	✓			
8	Social distancing: workers & employees maintaining social distancing at the time	✓			
9	Vehicle protocol: vehicle disinfection protocol followed	✓			
10	Tools/machinery: wiped & disinfected before and after sharing/working	✓			
11	Disinfecting work area (worksite/ common surfaces, toilets etc.) are disinfected: i) before work is opened in the morning; ii) before lunch and iii) after closing for the day	✓			
12	Trash bins are covered and used for disposal of PPEs (masks, gloves)	✓			

*Action phase, additional information as required

[Signature]
 FE, PDSC
 29.03.21

[Signature]
 29.03.21

[Signature]
 29.03.21

Photographs on preventive measures against spread of COVID-19 infection




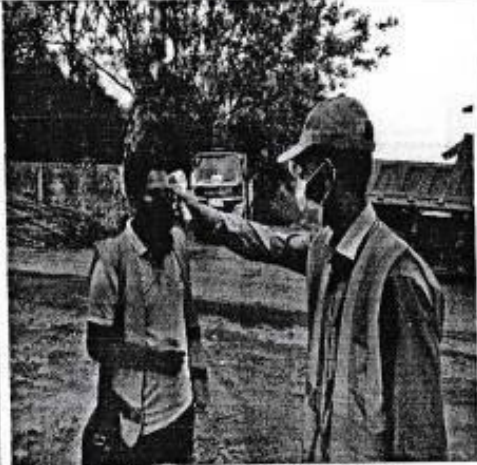


**CRDP-2/LGED/GCC/NCB/2018/W-02
Use of PPE/temperature gun at worksite (a
first-hand measure to detect COVID-19
infection**



**CRDP-2/LGED/GCC/NCB/2018/W-02
Washing Hand upon entering and leaving the
worksite –a measure to prevent spread of
COVID-19 infection**

Covid-19 Health & Safety Plan Monitoring Checklist, March - 2021

Sl.#	Picture	Picture
01.		
	Portable Hand wash.	Vehicle wash
02.		
	Accommodation area maintain social distance.	Body temperature measurement

[Signature]
 FE, PDSC
 29.03.21

[Signature]
 29.03.21

Sample laboratory test results for ambient air and water quality and noise level

a) Subproject Savar W-01

মুখ্তিকা, পানি ও পরিবেশ বিভাগ
ঢাকা বিশ্ববিদ্যালয়, ঢাকা ১০০০, বাংলাদেশ



**Department of Soil
Water and Environment**
University of Dhaka, Dhaka 1000, Bangladesh

Date: 09. 12. 2020

Surface Water Quality Test Report

Sample supplied by

Md. Mizanur Rahman
Authorized Representative
M.M. Builders & Engineers Ltd-Fast Build JV
House: 15(2nd Floor), Road: I2 (Old-31), Dhanmondi, Dhaka-1209

Name of Road Construction Subproject Site: Road from Dhaka - Aricha Highway at Savar bus stand bazaar - Kolma via Savar UP road under Package No. CRDP-II/ LGED / DHAKA / SAVAR/NCB/2018/W-01 of Second City Region Development Project

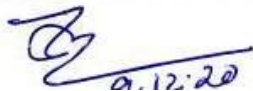
Service Rendered : Environmental Quality Test for EIA report of a road construction site
Sample Title : Surface Water Sample (SW)
Sampling Date : 19/11/2020
Date of Testing : 20/11/2020 - 08/12/2020
Geographical Coordinates : 23°51'13.24"N and 90°16'18.35"E

Analytical Results:

The results of analysis of Surface Water Sample from a nearby pond are given below:

Table 1. Analytical Results of Surface Water (SW) Sample

Sample Location	Test Parameters	Units	Results	Methods
Nearby Dhaka - Aricha Highway at Savar bus stand bazaar-Kolma via Savar UP road subproject site (23°51'13.24"N and 90°16'18.35"E)	pH	-	7.20	pH meter
	EC	(μ S/cm)	152.8	EC meter
	DO	(mg/L)	4.78	DO meter(Hanna HI98193)
	BOD _{5days}	(mg/L)	1.46	DO meter(Hanna HI98193)
	COD	(mg/L)	10.92	Chemical method
	TSS	(mg/L)	6.21	Gravimetric method
	TDS	(mg/L)	221	TDS Multimeter
	Iron (Fe)	(mg/L)	<0.20	AAS
	Manganese (Mn)	(mg/L)	<0.10	AAS
	Arsenic (As)	(ppb)	2.57	HG-AAS (APHA 3114)
	Turbidity	NTU	14.90	Turbidity meter
	NO ₃ -N	(mg/L)	9.65	Kjeldahl method
	Cl ⁻	(mg/L)	31.29	Titrimetric method
	Total coliform	(cfu/100ml)	6.0x 10 ³	Membrane filtration method


09.12.20

Ground Water Quality Test Report

Sample supplied by

Md. Mizanur Rahman

Authorized Representative

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House: 15(2nd Floor), Road: I2 (Old-31), Dhanmondi, Dhaka-1209

Name of Road Construction Subproject Site: Road from Dhaka - Aricha Highway at Savar bus stand bazaar - Kolma via Savar UP road under Package No. CRDP-II/ LGED / DHAKA / SAVAR/NCB/2018/W-01 of Second City Region Development Project


Service Rendered : Environmental Quality Test for EIA report of a road construction site
Sample Title : Groundwater Sample (GW)
Sampling Date : 19/11/2020
Date of Testing : 20/11/2020 - 08/12/2020
Geographical Coordinates : 23°51'8.56"N and 90°16'6.04"E

Analytical Results:

The results of analysis of Ground Water Sample from nearby Tubewell are given below:

1. Analytical Results of Ground Water Sample from nearby Tubewell(GW)

Sample Location	Test Parameters	Units	Results	Methods
Nearby Dhaka - Aricha Highway at Savar bus stand bazar-Kolma via Savar UP road subproject site (23°51'8.56"N and 90°16'6.04"E)	pH	-	6.93	pH meter
	EC	(μ S/cm)	134.4	EC meter
	DO	(mg/L)	7.22	DO meter (Hanna HI98193)
	BOD _{5days}	(mg/L)	Nil	DO meter (Hanna HI98193)
	COD	(mg/L)	0.86	Chemical method
	TSS	(mg/L)	Nil	Gravimetric method
	TDS	(mg/L)	186	TDS Multimeter
	Iron (Fe)	(mg/L)	<0.20	AAS
	Manganese (Mn)	(mg/L)	0.27	AAS
	Arsenic (As)	(ppb)	3.61	HG-AAS (APHA 3114)
	Chloride (Cl ⁻)	(mg/L)	14.24	Titrimetric method
	Nitrate (NO ₃ -N)	(mg/L)	2.08	Kjeldahl method


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Dept. of Soil, Water & Environment

Date: 09. 12. 2020

Ambient Air Quality Test Report

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Name of Road Construction Subproject Site: Road from Dhaka - Aricha Highway at Savar bus stand bazaar - Kolma via Savar UP road under Package No. CRDP-II/ LGED / DHAKA / SAVAR/NCB/2018/W-01 of Second City Region Development Project

Service Rendered : Environmental Quality Test for EIA Report
Sample Title : Air Quality Monitoring (AQ) Near Road Construction Subproject Site
Sampling Date : 19/11/20
Geographical Coordinates : 23°51'9"N and 90°16'6"E

Analytical Results:

The test results of ambient air quality analysis are given below:

Description of Parameters	Unit	Concentration of Ambient Air Quality Parameters			DoE (Urban Standards)	DoE Duration	WHO guidelines ($\mu\text{g}/\text{m}^3$)
		Min	Max	Avg.			
Carbon Monoxide (CO)	ppm	0.011	0.018	0.012	35 ppm 9 ppm	1 hour 8 hours	-
Carbon Dioxide (CO ₂)	ppm	639	645	640	-	-	-
Nitrogen Dioxide (NO ₂)	ppm	0.040	0.053	0.048	0.053 ppm	Annual (24 hr)	40 (1 hr)
Sulphur Dioxide (SO ₂)	ppm	0.010	0.040	0.021	0.14 ppm 0.03 ppm	Annual	20 (24 hr)
Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	66	102	90	200 $\mu\text{g}/\text{m}^3$	Annual	
Particulate Matter (PM ₁₀)	$\mu\text{g}/\text{m}^3$	51	89	68	150 $\mu\text{g}/\text{m}^3$	24 hours	50 (Annual)
Particulate Matter (PM _{2.5})	$\mu\text{g}/\text{m}^3$	42	86	48	65 $\mu\text{g}/\text{m}^3$	24 hours	25 (24 hrs)
Lead (Pb)	$\mu\text{g}/\text{m}^3$	bdl	bdl	bdl	0.5 $\mu\text{g}/\text{m}^3$	Annual	-
Temperature	°C	29	31	30	-	-	-
Relative Humidity	%	47	51	49	-	-	-

Bdl-below detection limit


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Noise Quality Test Report

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Name of Road Construction Subproject Site: Road from Dhaka - Aricha Highway at Savar bus stand bazaar - Kolma via Savar UP road under Package No. CRDP-III/ LGED / DHAKA / SAVAR/NCB/2018/W-01 of Second City Region Development Project

Service Rendered : Environmental Quality Test for EIA report of a road construction site
Sample Title : Noise level monitoring (NL) near road construction site
Sampling Date : 19/11/2020
Temperature : 30°C
Relative Humidity : 49%
Geographical Coordinates : 23°51'8.24"N and 90°16'4.43"E

Analytical Results:

The results of noise level monitoring are given below:

Sampling Locations	Geographical Co-ordinates	Time	Min dBA	Max dBA	DOE Standard for Noise (Schedule # 4, Rule #12; ECR 1997)	
					Residential Area	Mixed Area
Nearby Dhaka - Aricha Highway at Savar bus stand bazar-Kolma via Savar UP road subproject site	23°51'8.24"N and 90°16'4.43"E	0800-0900	44.6	62.4	50 dBA at Day Time and 40 dBA at Night Time	60 dBA at Day Time and 50 dBA at Night Time
		1200-1300	46.4	68.3		
		1800-1900	49.4	72.8		

*According to the Noise Pollution (Regulation and Control) Rules, 2006, acceptable sound levels are 55 decibels (dBA) for daytime – 6am to 9pm –and 45 decibels for night – 9pm to 6am – in residential areas; 50 decibels for daytime and 40 decibels for night in quiet places; 60 decibels for daytime and 50 decibels for night in mixed areas; 70 decibels for daytime and 60 decibels for night in commercial areas; and 75 decibels for daytime and 70 decibels for night in industrial areas.

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a) Subproject Araihaaz W-01

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ঢাকা বিশ্ববিদ্যালয়, ঢাকা ১০০০, বাংলাদেশ



**Department of Soil
Water and Environment**

University of Dhaka, Dhaka 1000, Bangladesh

Date: 09. 12. 2020

Surface Water Quality Test Report

Sample supplied by

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Uttara, Dhaka-1230, Bangladesh

Name of Road Construction Subproject Site: Binairchar to Kamrangirchar Road subproject site under the Package No: CRDP-II/LGED/NARAYANGANJ/ARAIHAZAR/NCB/2018/W-01 of Second City Region Development Project.

Service Rendered : Environmental Quality Test for EIA report of a road construction site

Sample Title : Surface Water Sample from nearby pond (SW)

Sampling Date : 14/11/2020

Date of Testing : 15/11/2020 - 08/12/2020

Geographical

Coordinates : 23°48'5.88"N and 90°37'51.38"E

Analytical Results:

The results of analysis of Surface Water Sample from a pond are given below:

Table 1. Analytical Results of Surface Water (SW) Sample

Sample Location	Test Parameters	Units	Results	Methods
Nearby Binairchar to Kamrangirchar Road subproject site (23°48'5.88"N and 90°37'51.38"E)	pH	-	7.42	pH meter
	EC	(μS/cm)	127.6	EC meter
	DO	(mg/L)	5.08	DO meter(Hanna HI98193)
	BOD _{5days}	(mg/L)	1.12	DO meter(Hanna HI98193)
	COD	(mg/L)	22.18	Chemical method
	TSS	(mg/L)	6.21	Gravimetric method
	TDS	(mg/L)	192	TDS Multimeter
	Iron (Fe)	(mg/L)	<0.20	AAS
	Manganese (Mn)	(mg/L)	<0.10	AAS
	Arsenic (As)	(ppb)	3.99	HG-AAS (APHA 3114)
	Turbidity	NTU	8.28	Turbidity meter
	NO ₃ -N	(mg/L)	7.76	Kjeldahl method
	Cl ⁻	(mg/L)	11.92	Titrimetric method
	Total coliform	(cfu/100ml)	54	Membrane filtration method


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Ground Water Quality Test Report

Sample supplied by

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Name of Road Construction Subproject Site: Binairchar to Kamrangirchar Road subproject site under the Package No: CRDP-II/LGED/NARAYANGANJ/ARAIHAZAR/NCB/2018/W-01 of Second City Region Development Project.

Service Rendered : Environmental Quality Test for EIA report of a road construction site
Sample Title : Groundwater Sample from a nearby submersible Tubewell (GW)
Sampling Date : 14/11/2020
Date of Testing : 15/11/2020 - 08/12/2020
Geographical Coordinates : 23°48'5.71"N and 90°37'50.03"E

Analytical Results:

The results of analysis of Groundwater Sample from nearby Tubewell are given below:
Table 1. Analytical Results of Groundwater Sample from nearby Tubewell (GW)

Sample Location	Test Parameters	Units	Results	Methods
Nearby Binairchar to Kamrangirchar Road subproject site (23°48'5.71"N and 90°37'50.03"E)	pH	-	7.35	pH meter
	EC	(μ S/cm)	168.9	EC meter
	DO	(mg/L)	7.44	DO meter(Hanna HI98193)
	BOD _{5days}	(mg/L)	Nil	DO meter(Hanna HI98193)
	COD	(mg/L)	Nil	Chemical method
	TSS	(mg/L)	Nil	Gravimetric method
	TDS	(mg/L)	201	TDS Multimeter
	Iron (Fe)	(mg/L)	<0.20	AAS (Atomic Absorption Spectrophotometry)
	Manganese (Mn)	(mg/L)	0.24	AAS
	Arsenic (As)	(ppb)	3.10	HG-AAS (APHA 3114)
	Chloride (Cl ⁻)	(mg/L)	12.07	Titrimetric method
	Nitrate (NO ₃ -N)	(mg/L)	1.14	Kjeldahl method


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Date: 09.12.2020

Ambient Air Quality Test Report

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Name of Road Construction Subproject Site: Binairchar to Kamrangirchar Road subproject site under the Package No: CRDP-II/LGED/NARAYANGANJ/ARAIHAZAR/NCB/2018/W-01 of Second City Region Development Project.

Sample Title : Air Quality Monitoring (AQ) Near Road Construction Subproject Site
Sampling Date : 14/11/2020
Geographical Coordinates : 23°48'60"N and 90°37'52"E

Analytical Results:

The test results of ambient air quality analysis are given below:

Description of Parameters	Unit	Concentration of Ambient Air Quality Parameters			DoE (Urban Standards)	DoE Duration	WHO guidelines ($\mu\text{g}/\text{m}^3$)
		Min	Max	Avg.			
Carbon Monoxide (CO)	ppm	0.000	0.001	0.001	35 ppm	1 hour	-
					9 ppm	8 hours	
Carbon Dioxide (CO ₂)	ppm	639	651	645	-	-	-
Nitrogen Dioxide (NO ₂)	ppm	0.019	0.100	0.051	0.053 ppm	Annual (24 hr)	40 (1 hr)
Sulphur Dioxide (SO ₂)	ppm	0.010	0.023	0.019	0.14 ppm	(24 hr)	20 (24 hr)
					0.03 ppm	Annual	
Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	88	103	96	200 $\mu\text{g}/\text{m}^3$	Annual	
Particulate Matter (PM ₁₀)	$\mu\text{g}/\text{m}^3$	66	78	63	65 $\mu\text{g}/\text{m}^3$	24 hours	25 (24 hrs)
Particulate Matter (PM _{2.5})	$\mu\text{g}/\text{m}^3$	36	45	39	150 $\mu\text{g}/\text{m}^3$	24 hours	50 (Annual)
Lead (Pb)	$\mu\text{g}/\text{m}^3$	bdl	bdl	bdl	0.5 $\mu\text{g}/\text{m}^3$	Annual	-
Temperature	°C	28	31	30	-	-	-
Relative Humidity	%	47	49	48	-	-	-

Bdl- below detection limit


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Date: 09. 12. 2020

Noise Quality Test Report

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Name of Road Construction Subproject Site: Binairchar to Kamrangirchar Road subproject site under the Package No: CRDP-II/LGED/NARAYANGANJ/ARAIHAZAR/NCB/2018/W-01 of Second City Region Development Project.

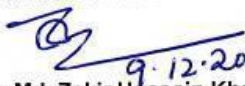
Service Rendered : Environmental Quality Test for EIA report of a Road Construction site
Sample Title : Noise level monitoring (NL) Near Roadconstruction site
Sampling Date : 14/11/2020
Temperature : 30°C
Relative Humidity : 48%
Geographical
Coordinates : 23°48'6.01"N and 90°37'51.47"E

Analytical Results:

The results of noise level monitoring are given below:

Sampling Locations	Geographical Co-ordinates	Time	Min dBA	Max dBA	DOE Standard for Noise (Schedule # 4, Rule #12; ECR 1997)	
					Residential Area	Mixed Area
Nearby Binairchar to Kamrangirchar Road subproject site under the Package No: CRDP-II/LGED/NARAYANGANJ/ARAIHAZAR/NCB/2018/W-01	23°48'6.01"N and 90°37'51.47"E	0800-0900	41.6	56.2	50 dBA at Day Time and 40 dBA at Night Time	60 dBA at Day Time and 50 dBA at Night Time
		1200-1300	45.7	67.8		
		1800-1900	52.4	70.5		

*According to the Noise Pollution (Regulation and Control) Rules, 2006, acceptable sound levels are 55 decibels (dBA) for daytime – 6am to 9pm – and 45 decibels for night – 9pm to 6am – in residential areas; 50 decibels for daytime and 40 decibels for night in quiet places; 60 decibels for daytime and 50 decibels for night in mixed areas; 70 decibels for daytime and 60 decibels for night in commercial areas; and 75 decibels for daytime and 70 decibels for night in industrial areas.


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C) Subproject Rupganj W-01

মৃত্তিকা, পানি ও পরিবেশ বিভাগ
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**Department of Soil
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University of Dhaka, Dhaka 1000, Bangladesh

Date: 09.12. 2020

Surface Water Quality Test Report

Sample supplied by

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Authorized Representative

NDEL-TBL JV

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Name of Road Construction Subproject Site: Rupshi GC- Kanchan GC via Murapara GC
Road under the Package No. CRDP II/LGED/NARAYANGANJ/RUPGANJ/NCB/2018/W-01 of
Second City Region Development Project

Service Rendered : Environmental Quality Test for EIA report of a road construction site

Sample Title : Surface Water Sample from nearby river (SW)

Sampling Date : 15/11/2020

Date of Testing : 16/11/2020 - 08/12/2020

Geographical

Coordinates : 23°46'51.04"N and 90°31'3.41"E

Analytical Results:

The results of analysis of Surface Water Sample from nearby river are given below:

Table 1. Analytical Results of Surface Water (SW) Sample

Sample Location	Test Parameters	Units	Results	Methods
Nearby Rupshi GC- Kanchan GC via Murapara GC Road construction site (23°46'51.04"N and 90°31'3.41"E)	pH	-	7.48	pH meter
	EC	(μ S/cm)	94.6	EC meter
	DO	(mg/L)	5.68	DO meter(Hanna HI98193)
	BOD _{5days}	(mg/L)	0.44	DO meter(Hanna HI98193)
	COD	(mg/L)	6.18	Chemical method
	TSS	(mg/L)	6.22	Gravimetric method
	TDS	(mg/L)	133	TDS Multimeter
	Iron (Fe)	(mg/L)	<0.20	AAS
	Manganese (Mn)	(mg/L)	<0.10	AAS
	Arsenic (As)	(ppb)	<2.00	HG-AAS (APHA 3114)
	Turbidity	NTU	7.22	Turbidity meter
	NO ₃ -N	(mg/L)	3.87	Kjeldahl method
	Cl ⁻	(mg/L)	11.32	Titrimetric method
	Total coliform	(cfu/100ml)	<1	Membrane filtration method


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Name of Road Construction Subproject Site: Rupshi GC- Kanchan GC via Murapara GC
Road under the Package No. CRDP II/LGED/NARAYANGANJ/RUPGANJ/NCB/2018/W-01 of
Second City Region Development Project

Service Rendered : Environmental Quality Test for EIA report of a road construction site
Sample Title : Ground Water Sample from nearby Tubewell (GW)
Sampling Date : 15/11/2020
Date of Testing : 16/11/2020 - 08/12/2020
Geographical
Coordinates : 23°46'56.68"N and 90°31'11.47"E

Analytical Results:

The results of analysis of Ground Water Sample from nearby Tubewell are given below:

1. Analytical Results of Ground Water Sample from nearby Tubewell (GW)

Sample Location	Test Parameters	Units	Results	Methods
Nearby Rupshi GC- Kanchan GC via Murapara GC Road construction site (23°46'56.68"N and 90°31'11.47"E)	pH	-	7.00	pH meter
	EC	(μS/cm)	329.4	EC meter
	DO	(mg/L)	7.10	DO meter(Hanna HI98193)
	BOD _{5days}	(mg/L)	Nil	DO meter(Hanna HI98193)
	COD	(mg/L)	Nil	Chemical method
	TSS	(mg/L)	Nil	Gravimetric method
	TDS	(mg/L)	297	TDS Multimeter
	Iron (Fe)	(mg/L)	<0.20	AAS
	Manganese (Mn)	(mg/L)	0.25	AAS
	Arsenic (As)	(ppb)	2.79	HG-AAS (APHA 3114)
	Chloride (Cl ⁻)	(mg/L)	33.55	Titrimetric method
	Nitrate (NO ₃ -N)	(mg/L)	1.48	Kjeldahl method


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Ambient Air Quality Test Report

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Name of Road Construction Subproject Site: Rupshi GC- Kanchan GC via Murapara GC
Road under the Package No. CRDP II/LGED/NARAYANGANJ/RUPGANJ/NCB/2018/W-01 of
Second City Region Development Project

Sample Title : Air Quality Monitoring (AQ) Near Road Construction Subproject Site
Sampling Date : 15/11/2020
Geographical
Coordinates : 23°46'55"N and 90°31'11"E

Analytical Results:

The test results of ambient air quality analysis are given below:

Description of Parameters	Unit	Concentration of Ambient Air Quality Parameters			DoE (Urban Standards)	DoE Duration	WHO guidelines (µg/m ³)
		Min	Max	Avg.			
Carbon Monoxide (CO)	ppm	0.026	0.031	0.019	35 ppm 9 ppm	1 hour 8 hours	-
Carbon Dioxide (CO ₂)	ppm	483	730	670	-	-	-
Nitrogen Dioxide (NO ₂)	ppm	0.040	0.091	0.052	0.053 ppm	Annual (24 hr)	40 (1 hr)
Sulphur Dioxide (SO ₂)	ppm	0.009	0.056	0.028	0.14 ppm 0.03 ppm	Annual	20 (24 hr)
Suspended Particulate Matter (SPM)	µgm ⁻³	99	233	166	200 µgm ⁻³	Annual	-
Particulate Matter (PM ₁₀)	µgm ⁻³	53	110	86	150 µgm ⁻³	24 hours	50 (Annual)
Particulate Matter (PM _{2.5})	µgm ⁻³	26	76	42	65 µgm ⁻³	24 hours	25 (24 hrs)
Lead (Pb)	µgm ⁻³	nil	nil	nil	0.5 µgm ⁻³	Annual	-
Temperature	°C	28	31	29	-	-	-
Relative Humidity	%	53	60	55	-	-	-


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Noise Quality Test Report

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House # 20/A, Road # 44, Gulshan-02, Dhaka-1212, Bangladesh

Name of Road Construction Subproject Site: Rupshi GC- Kanchan GC via Murapara GC
Road under the Package No. CRDP II/LGED/NARAYANGANJ/RUPGANJ/NCB/2018/W-01 of
Second City Region Development Project

Service Rendered : Environmental Quality Test for EIA report of a Road Construction site
Sample Title : Noise level monitoring (NL) Near Roadconstruction site
Sampling Date : 15/11/2020
Temperature : 29°C
Relative Humidity : 55%
Geographical Coordinates : 23°46'55.77"N and 90°31'12.26"E

Analytical Results:

The results of noise level monitoring are given below:

Sampling Locations	Geographical Co-ordinates	Time	Min dBA	Max dBA	DOE Standard for Noise (Schedule # 4, Rule #12; ECR 1997)	
					Residential Area	Mixed Area
Nearby Rupshi GC- Kanchan GC via Murapara GC Road under the Package No. CRDP II/LGED/NARAYANGANJ/RUPGANJ/NCB/2018/W-01	23°46'55.77"N and 90°31'12.26"E	0800-0900	42.6	64.2	50 dBA at Day Time	60 dBA at Day Time
		1200-1300	48.7	70.0	and 40 dBA at Night Time	and 50 dBA at Night Time
		1800-1900	46.4	67.5		

*According to the Noise Pollution (Regulation and Control) Rules, 2006, acceptable sound levels are 55 decibels (dBA) for daytime – 6am to 9pm –and 45 decibels for night – 9pm to 6am – in residential areas; 50 decibels for daytime and 40 decibels for night in quiet places; 60 decibels for daytime and 50 decibels for night in mixed areas; 70 decibels for daytime and 60 decibels for night in commercial areas; and 75 decibels for daytime and 70 decibels for night in industrial areas.


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