



Government of the People's Republic of Bangladesh
Ministry of Local Government, Rural Development and
Cooperatives Local Government Division

Improving Urban Governance and Infrastructure Program (IUGIP)

**Environmental Screening Report for
LIN Upgradation at Alamdanga Pourashava**

Sub-Project No: IUGIP/ALAM/SI/01-07/2023

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CURRENCY EQUIVALENTS

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ABBREVIATIONS

ADB	-	Asian Development Bank
AFD	-	Agence Francaise de Development
Ap	-	Affective Person
DoE	-	Department of environment
DLI	-	Disbursement Link Indicator
ESMF	-	Environmental and Social Management Framework
ECA		Environmental Conservation Act
ECC	-	Environmental Clearance Certificate
ECR	-	Environmental Conservation Rules
EIA	-	Environmental Impact Assessment
EMP	-	Environmental Management Plan
ESR	-	Environmental Screening Report
FD	-	Forest Department
GoB	-	Government of Bangladesh
GRC	-	Grievance Redressal Cell
GRM	-	Grievance Redress Mechanism
IEE	-	Initial Environmental Examination
IUGIP	-	Improving Urban Governance and Infrastructure Program
LGED	-	Local Government Engineering Department
MDSC	-	Management Design and Supervision Consultant
MLGRDC Cooperatives	-	Ministry of Local Government, Rural Development, Cooperatives
O&M	-	Operation and Maintenance
PMU	-	Project Management Unit
PPTA	-	Project Preparatory Technical Assistance
MDSCP	-	Poverty Reduction Strategy Paper
RBL	-	Result-Based Lending
RP	-	Resettlement Plan
SPS	-	Safeguard Policy Statement
UGIAP	-	Urban Governance Implementation Action Plan
LIN	-	Low Income Neighborhood

LINIC - Low Income Neighborhood Improvement Committee

I. GLOSSARY OF BANGLADESHI TERMS

Crore	-	10 million (= 100 lakh)
Ghat	-	boat landing station
Hartal	-	nationwide strike/demonstration called by opposition
parties Khal	-	drainage ditch/canal
Khas, khash	-	belongs to government (e.g., land)
Katcha	-	poor quality, poorly built
Lakh, lac	-	100,000
Madrasha	-	Islamic college
Mouza	-	government-recognized land area
Parishad	-	authority (Pourashava)
Pourashava	-	municipality
Pucca	-	good quality, well built, solid
Thana	-	police station
Upazila	-	sub district

II. WEIGHTS AND MEASURES

ha	-	hectare
km	-	kilometre
m	-	meter
mm	-	millimetre

NOTE{S}

- (i) In this report, "\$" refers to US dollars.
- (ii) —BDT refers to Bangladeshi Taka

PREFACE

The premises of this Environmental Screening Report (ESR) are the MDS Consultant services presentation of an analysis of data and conclusions, together with its appendices.

The key elements of the ESR focus on: Assessment of Compliance Guidelines of Environment Safeguards according to ADB, AFD and GoB policy.

DISCLAIMER

This draft Environmental Screening Report (ESR) of Alamdanga Pourashava, Under Management Design & Supervision for Improving Urban Governance and Infrastructure Program (IUGIP) at (RBL). All the data used to prepare this ESR have been collected from the Pourashava Development Plan (PDP), Community Action Plan (CAP) and field visit. Some of the information's have also been collected from the Pourashava personnel over telephone. Moreover, some information's have been collected by the respective experts of MDS consultant through intensive field visit which have been used in writing this report. If any information or data or any other things coincide with other project documents that are beyond our knowledge and fully coincidental event and we express apology for that.

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III. INTRODUCTION

1. Bangladesh is still a predominantly rural country, but it is rapidly urbanizing. Its total population is nearly 160 million and by one account, around 28 percent of the aggregate population lives in the urban areas. With the present high increase-trend in urban population, it is justifiably anticipated that by the year-2020, such populace will constitute nearly 40 percent of the national aggregate. One principal cause of such rapid growth is the presence of better opportunities spanning economic, communication, education, health and other social aspects in the urban areas. It is worth noting that by one account, in countries of Bangladesh's standing, around 55-60% of a country's aggregate economic activities takes place within the urban confines.
2. Now, in line with aforesaid trend, and particularly the visibly sharp rise in rural-urban migration in the recent decades, urbanization of the existing Pourashavas of the country will as well register a concomitant speedy growth. This will warrant provision and development of adequate basic infrastructure for the dwellers. The poor people, mostly displaced by river erosion and landless, have migrated to the cities for better opportunities of earning their livelihoods and other social aspects. This type of new migrants and second-generation migrants tend to live in LIN areas without basic housing and services.
3. The LIN people have been suffering from acute problem of inadequate availability of drinking water, inadequate & deteriorating internal roads/footpaths/ walkways, street lighting, paucity of drainage and sewerage facilities, poor housing, and pollution. Thus, urban LINs improvement remains at the forefront of municipal infrastructure provision through IUGIP-III-AF in selected Pourashavas. The responsibility of improving the living conditions of the people of the LIN areas lies with the Pourashavas vis-a-vis urban service providers.
4. Basic services for the poor LINs include improvement of (i) internal roads, (ii) drainage facilities, (iii) footpaths/ walkways, (iv) supplying water (installation of hand tube wells), (v) sanitation facilities (construction of toilets/ community toilets), (vi) solid waste management and (vii) street lighting in LIN areas, (viii) construction of dust bins, and (ix) piloting low-cost housing for the poor LIN dwellers. The piloting of the construction of the low-cost housing will also be done for the sweepers in sweeper's colony.

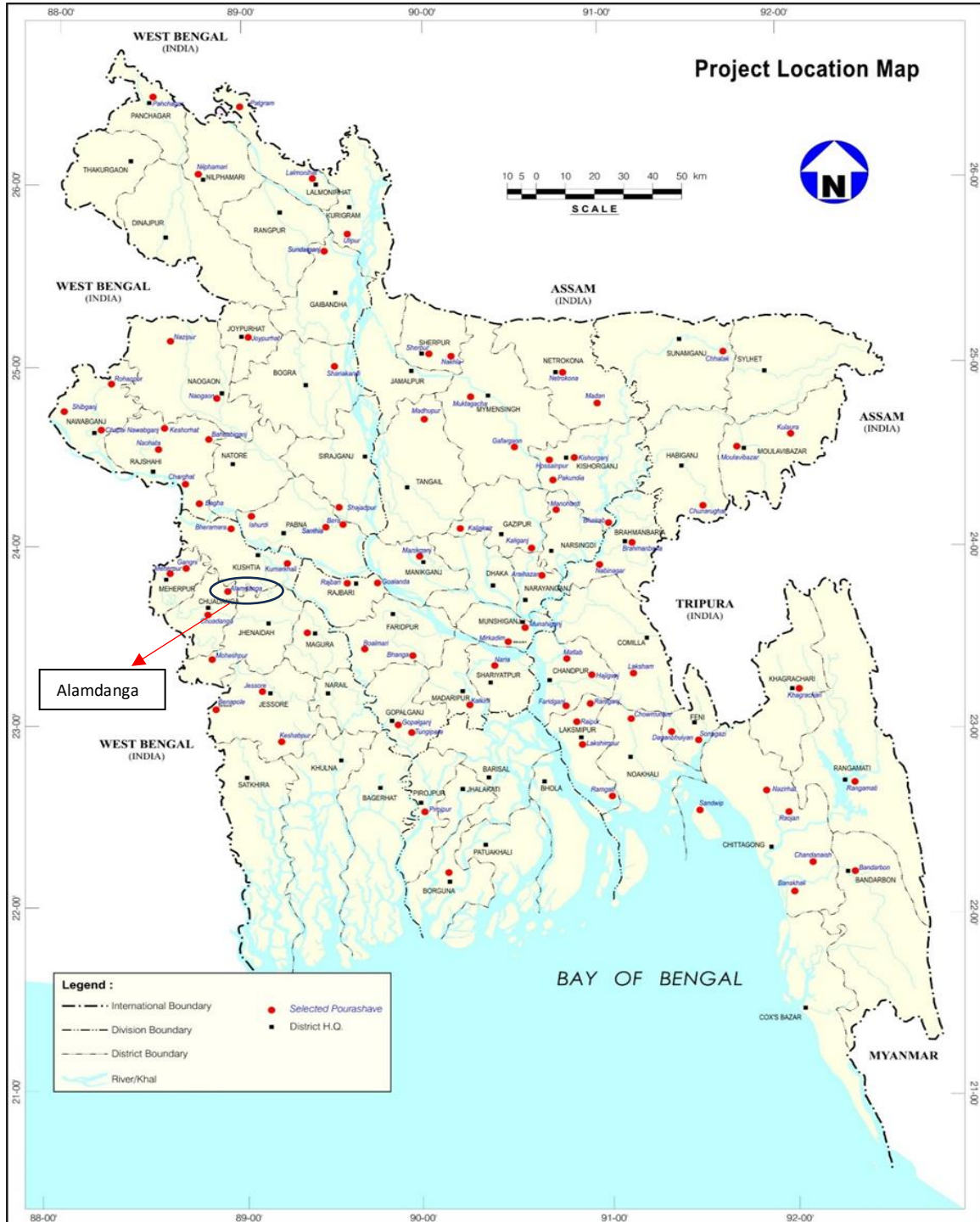
A. Purpose of Environmental Screening Report

5. The objectives of the Slum Improvement Sub-project are to improve the slum environment through the installation of drinking water well, sanitation, street light facility, and rehabilitation/ improvement of footpaths and drains in various locations in the slum area, which ultimately improves the basic services for the urban poor. The report aims to improve the urban environment by identifying the potential impacts of proposed interventions and taking mitigation measures.

B. Proposed LINs

6. Alamdanga Pourashava was established on 17th October 1985 under the jurisdiction of Alamdanga Upazila of Chuadanga District, between 23°45'00'' north latitude and 88°56'00'' east longitude. The Pourashava is 'A' category and consists with 9 Wards and 04 mouzas. Alamdanga Pourashava has 12 sq. km (2965.41 acres) area. It is about 198 km road distance from the capital city Dhaka. The Pourashava is bounded by Mirpur (Kushtia) and Gangni Upazila on the north, Belgachhi Union on the South, Dauki and Kalidaspur Union on the east and Kumari Union on the west. Alamdanga Pourashava connects with the Dhaka-Chuadanga Highway through Kushtia-Chuadanga Road. Most of the offices are located in the eastern part of the Pourashava, whereas the educational institutions are also located in the eastern part of the Pourashava. All markets and shopping centres are placed along the Chuadanga-Kushtia road sides. The Pourashava is located in the bank of Kumar River and Mora Nodi.

7. 05 (Five) slums have been included in the Sub-project under discussion for providing infrastructure facilities in the selected slums and improving the environment. Environmental screening reports on the five proposed slums in Alamdanga Paurashava have been presented in this report (Hazrarmartek LIN (Lot-01), Chandabaz & Godarpar LIN (Lot-02), Sabujbag & Barishal Para LIN (Lot-03), TNT Para LIN (Lot-04), Tanki Pahar LIN (Lot-05) the location of the proposed slums **Figure I.1**.



IV. ENVIRONMENTAL SCREENING OF PROPOSED LINS

A. Gobindapur Math Para LIN (Lot-01) (Ward- 01)

8. The LIN is situated in ward no. 01. There are 115 families with 357 members, of which 170 are males, and 187 are females. The land area is 3.00 acres, and the government & local people own the land. 70 families earn their livelihood as labourer, 15 families by shopkeeper and the rest by other means. The average income per head per month is less than BDT 3800.00. Most of the families live in katcha houses. They are deprived of most of the needed basic services. This LIN has an acute problem of inadequate sanitary latrines, inadequate facilities for drinking water, inadequate and deteriorating internal roads/footpaths/walkways, street lighting, dustbins, etc.

Package No: IUGIP/ALAM/SI/01-07/2023
(Lot-01)

a. Location of the LIN

9. The Gobindapur Math Para LIN Slum is situated in ward no. 01 under Alamdanga Paurashava of Alamdanga Upazila under Khulna District; for the location of the slum in the Alamdanga Paurashava map attached below.



b. Description of Interventions

10. A description of the proposed interventions for Gobindapur Math Para LIN Slum is given in.

Table IV.1: Description of Proposed Interventions of LIN

		Name of LIN: Gobindapur Math Para LIN (Lot-01)		Name of works: Construction of 05 Nos. Single unit (type-B) Toilet with 10 nos soak pits, 04 Nos Double unit (type-B) toilets with 16 Nos soak pits, 549 meter of Footpath, 410 meter Brick Drain, 06 numbers of solar street light, 11 numbers hand tubewell with 11 Nos soak pits and 100 Nos Tree Plantation in Gobindapur Math Para LIN ward no-01 at Alamdanga Pourashava, District: Chuadanga.					
1	IUGIP/ALAM/SI/01-07/2023 (Lot-01)	2025-2026	a)	Construction of 05 Nos. Single unit (type-B) Toilet with 10 nos soak pit in Gobindapur Math Para LIN ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	252644.98	5	1,263,224.90	
2			a 2)	Construction of 04 nos. Double unit (type-B) toilet with 16 Nos soak pit in Gobindapur Math Para LIN ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	395554.34	4	1,582,217.36	
3			c)	Construction of 549m meter footpath in Gobindapur Math Para LIN ward no-01 at Alamdanga Pourashava, District: Chuadanga.	m	4433.66	549	2,434,078.90	
4			d)	Construction of 410m Brick drain with top slab in Gobindapur Math Para LIN ward no-01 at Alamdanga Pourashava, District: Chuadanga.	m	7813.84	410	3,203,672.57	
5			e)	Installation of 06 Number solar street light in Gobindapur Math Para LIN ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	94481.79	6	566,890.74	
6			f)	Installation of 11 number tube well with 12 Nos soak pits in Gobindapur Math Para LIN ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	77914.81	11	857,062.91	
7			g)	Plantation of 100 nos. Tree in Gobindapur Math Para LIN ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	495.00	100	49,500.00	
Total (Lot-01) Amount =								9,956,647.38	

c. Present Condition (Baseline Environment)

(i) Flooding/Water-clogging

11. Flood does not occur in this slum. There exist no paved internal drainage systems in the slums. The existing drains are earthen that are poorly functioning. As the LIN areas are low-lying, heavy rainfall during the rainy season creates water logging. Hence, the construction of drains is necessary to remove water logging conditions in these LINs.

(ii) Water Source/Level/Quality/Tube well

12. Currently, the slum people have been suffering from the acute problem of inadequate availability of drinking water. Hence, slum dwellers have demanded 12 tube wells in their area; refer to Appendix 1 for the typical design of a tube well.

(iii) Sanitations

13. There is no existing sufficient sanitary toilet facility in the LIN area. LIN dwellers are facing a scarcity of hygienic sanitation; refer to **Figure II.1** for the existing condition of toilet facilities. Hence, they have demanded the construction of 05 nos. of sanitary toilets to improve the sanitation condition of their area. Refer to **Appendix 1** for the typical design of the proposed improved toilet.

(iv) Access Roads/Footpaths

14. There is no existing paved road/walkway in the LIN area. Refer to **Figure II.1** for the existing condition of access roads. LIN dwellers want 549 m of footpaths for their improved communication system within the LIN area. The proposed footpaths have been designed with cement concrete (CC) pavement over a prepared sub-base with crushed stone chips and/or Single Layer Brick Flat Soling (BFS). The LIN area is connected to Pourashava roads. A typical design of the footpath is given in **Appendix 1**.

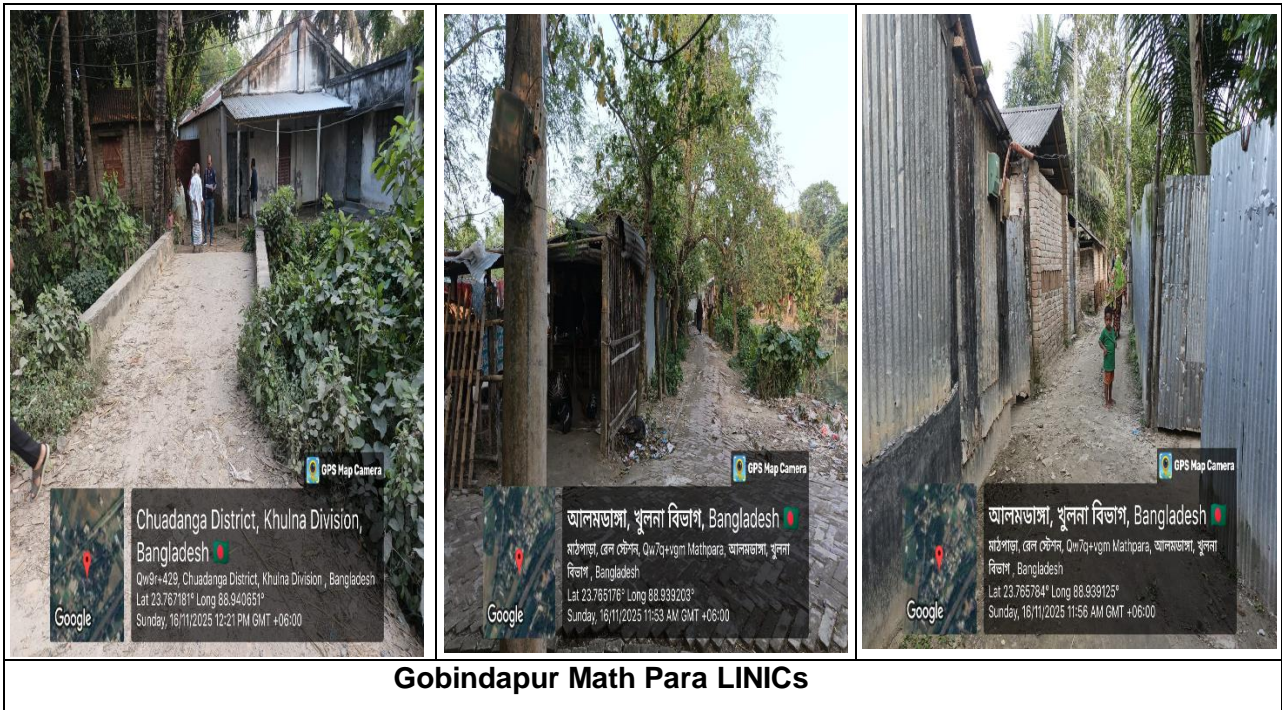
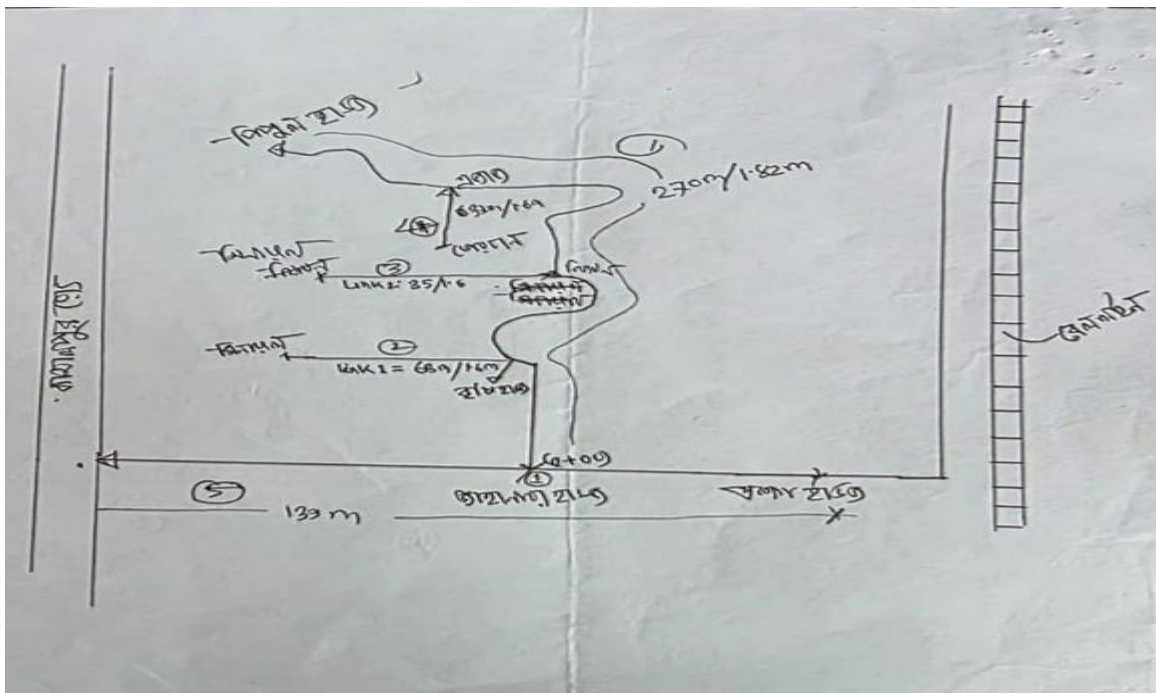


Figure IV.1: Existing Situation at Gobindapur Math Para LIN

(v) Solar Street Lights

15. There exists no street lighting system in these LIN areas. Inadequate light during nighttime is an additional problem. Social nuisance is created due to the lack of adequate street lights. Pilferage and unsocial activities are promoted in the dark. The LIN dwellers urged for installing 06 nos. of street lights in and around their LIN. Refer to **Appendix 1** for a typical design of the solar street light.

d. Site Map of Gobindapur Math Para LIN Area



e. Baseline Information

All LINS fall under a single pourashava, so their baseline profiles are nearly identical, differing only in aspects of Physical Cultural Resources

16. The key baseline information on the LIN area is depicted in below table:

SI	Key environmental and social aspects	Key baseline information
1	Noise	Noise pollution is a major constraint to the environmental quality of the study area as there is a highway running alongside it. There are no sources of noise such as local noise, industries, etc.
2	Air	The current air quality in the LIN area of Alamdanga Municipality is moderate with pollution levels that may affect sensitive groups. The air quality in the LIN area of Alamdanga is moderate mainly due to particulate matter emitted from brick kilns, vehicle emissions. The final master plan of the municipality shows that air pollution is a serious environmental concern that is having a favorable impact on many parts of the LIN area of Alamdanga Municipality.
3	Ground water	The water level in Chuadanga district is normal. The average water layer here is 200 feet and clear water is always available here, which does not cause any environmental problems.
4	Surface water	Supriyo water is available in Amdanga Municipality. But the amount of iron in the water is high.
5	Protected Area (PA)	In terms of security, Alamdanga Municipality is a completely safe place with no wildlife nuisance, which has no impact on the projector.
6	Cultural Heritage	In terms of cultural heritage, Alamdanga Upazila has some Baul music tradition and the people here retain these cultural aspects. Religious and cultural aspects are given great importance.
7	Physical Cultural Resources	Located in Alamdanga Upazila of Chuadanga District, Bangladesh, it is rich in both physical (natural environment, geography, natural resources) and cultural (various ethnic communities, traditions, religious sites) resources.

f. Environmental Impact Assessment and Mitigation

17. The review process will be greatly facilitated by comprehensive and detailed answers in this section. When completing this section, please state a specific reason [i.e., “there will be no impacts to environment because this project will not involve any disturbance”] and cite a source [i.e., local master plan, previous environmental assessment, correspondence with Pourashava Office, etc.] to support a response of “no impact (-)” or “potential to impact (+).”
18. The LIN toilets are being considered with two types of design: (i) Type A, and (ii) Type B. Type A is considered with septic tank whereas Type B considered with pit along with soak pit. The note from the Pourashava engineers taken that in many of the LIN area there is shortage of space for constructing septic tank where soak pit is designed with the pit. However, such soak pit has mitigation measure for ground or surface water contamination (e.g., sand and brick chips envelope on the bottom of pit). Moreover, municipality will ensure good maintenance for such toilets having soak pit.
19. The demolition, construction, and waste management activities in the LIN area may generate several short-term and localized environmental impacts. Dust from demolition, debris movement, and broken footpaths can impair air quality, while demolition and temporary camps may create unhygienic conditions. Noise from demolition is minimal. Since project activities are scattered and not near water bodies, the likelihood of surface or groundwater pollution is low. Pollution from construction work yards is minimal, requiring only limited environmental monitoring. Finally, urban construction activities such as excavation and earthmoving carry inherent occupational safety risks, particularly related to working at heights or in excavated areas, though these risks are reversible with proper mitigation.

(i) Pre-construction and Construction Phase

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Demolition of existing infrastructure: - Dust from demolition - Noise from demolition - Waste from demolition -Un-hygiene of demolition	(-)	-Different activities regarding the demolishing the existing structure (part) and broken footpath generate dust which impair the air quality -Unhygienic/unsanitary environment due to demolition of old/poor infrastructure and construction of camps in the development site -Creation of noise from demolition is negligible	-Water will be sprayed to control the dust, which is the main way to suppress dust in the working site as per necessary Appendix-2 EMP cost. -Apply water to disturbed soils after demolition is completed or at the end of each day of cleanup. - Transport/handle debris from demolished infrastructures in a hygienic manner. -Tree plantation at the LIN boundary/open space/slope on the basis of space availability -Collection of construction debris and dispose in a hygienic way by LINIC and it is included in engineering estimate item (LGED rate schedule) -PIU/LINIC will strongly monitoring the construction activity and instant action will take.	PIU, LINIC
Dust Management	(-)	-Moving debris/sediments may create dusts during dry season. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures	- Use tarpaulins to cover soils, sand and other loose material. - Water will be sprayed to control the dust when necessary	PIU, LINIC
Community facilities and services - Blockage to access roads - Fire & Safety	(-)	- Construction works will impede the access of residents and businesses in limited cases. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures. Poor safety signage and lack of barriers at work site and trenches will create hazard to pedestrians and children. - Chances of fire only from open cooking in the area which may create major loss of property to the residence in the LIN.	-Provide safety signage at all sites visible to public that is monitored by PIU/LINIC and it will be confirmed in semi-annual monitoring report -Provide safety barriers near any trenches, and cover trenches with planks during non-work hours. -LINIC's activities and movement of staff will be restricted to designated construction areas. -Consult with Pourashava local authority on the designated areas for stockpiling of, soils, gravel, and other construction materials. -If the LINIC chooses to locate the work camp/storage area on private land, he must get prior permission from the environment management specialist and landowner. -Recycling and the provision of separate waste receptacles for different types of waste shall be encouraged. -Workers need to be made aware of the following general rules: (i) no alcohol/drugs on site; (ii) prevent excessive noise; (iii) construction workers are to make use of the facilities provided for them; (iv) no fires permitted on site except if needed for the construction works; and (v) no worker may be forced to do work that is potentially dangerous or that he/she is not trained to do. - Bucket filled with sand will be kept at the construction zone.	PIU, LINIC
Air/water/noise quality monitoring	(-)	- Component of works are scattered in the LIN area, which are not located near-by any water stream/canal. There stands little probability of surface and ground water pollution, as nothing like gasoline, oil, road salts and chemicals are dumped on the adjoining ground.	- No need for Air/water/noise quality monitoring in construction area by test due to short-term effect. - Water will be sprayed to control the dust, when necessary, it will be visually observed	Not required

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
		- Construction work yards are located in small areas and its activities are also minimum. Here the intensity of pollution from air/dust/ noise is also very low and short-term. As such little monitoring of water/air/noise pollution parameters is needed at the surroundings work place.		
Drainage congestion/water logging	(-)	- Clogging/stagnation of flow in the storm drain, source of waste water is LIN dweller used water (bathing and washing) - Backflow of water through drain (e.g., due to high water level at downstream discharge point, such as khal/ river) - Drainage congestion/water logging due to cross road/construction activity	-Designing drain considering the downstream discharge point; adequate slope and x-section; RCC cover for drain, where appropriate - Not allowing direct connection to drain from toilet -The out fall of proposed drain is primary to secondary drain and water quality will be monitoring as per necessary (in Appendix-2 EMP cost)	PIU, LINIC
Waste Management	(-)	- Uncollected wastes blocked the drainage and sewage system. - Air, water and soil pollution during the waste collection - Smoke from the open burning of uncollected waste. - The loading and unloading of waste at transfer station pollutes the air and soil. - Odor from waste disposal site and composting system. - Contamination of ground water by leachate.	- Follow the waste management plan given in Appendix 4 during construction period. - Encourage 3R (reduce, reuse, and recycle) - Encourage composting of kitchen waste on the basis of land availability otherwise transfer waste by hand trolley/van that is available in Pourashava and it is inspired by EMP implementation training - Adequate distance between waste bin and water body. - Adequate distance should be maintained between the waste collection point and house - Coordinate with the municipality for collection of domestic waste and disposal at the designated site	PIU/LINIC
Workers H & S	(-)	-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 in height and excavation works. Potential impacts are negative and long-term but reversible by mitigation measures.	- Comply with requirements of GoB Labor Law of 2006, Labor law and services rules 2015 and all applicable laws and standards on workers H & S. - Ensure adequate safety and provisions as per the Appendix 5 in relation to the COVID-19. - Produce and implement a site health and safety (H&S) plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use PPE at all times; (iii) providing (H&S) training for all site personnel; (iv) Providing fire extinguisher at construction site (v) documenting procedures to be followed for all site activities; and (vi) maintaining accident reports and records. - Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances. -Ensure (i) uncontaminated water for drinking, cooking and washing, (ii) clean eating areas where workers are not exposed to hazardous or noxious substances; and (iii) sanitation facilities are available at all times.	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
			- Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;	
Sanitation/excreta management	(-)	-Noise and soil pollution during the construction but short- term -Microbial contamination to the ground water from the pit latrine. -Waste during loading of sewage from the sanitary communal containers. -Odor	-Design and installation of sanitary toilet to stop the microbial contamination to the ground water. -Adequate height with proper ventilation. -Water supply and hand wash facility -Regular cleaning and monitoring -5-10m distance should be maintained between toilet and tube-well	PIU, LINIC
Water supply (Tube well)	(-)	-Noise, dust and soil pollution during the construction but short- term	-The digging of soil should follow the proper design to avoid the pollution and water logging -The outlet of tube well should be connected with soak pit to existing drain. -A person has been engaged for cleaning and maintenance of Tube well. -One set of maintenance equipment of Tube well is kept with LINIC selected person.	PIU, LINIC
Footpath/connecting Road	(-)	-Dust and noise pollution from construction work	-Watering to reduce dust -Tree plantation on the footpath/road slope	PIU, LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the construction workers	-LINIC and all workers will be required to undergo EMP implementation including waste management, Standard operating procedures (SOP) for construction works; health and safety (H&S), core labor laws, applicable environmental laws, etc. - Provided training on use of TW, toilet, solar panel and tree plantation etc. during preparation of Community Action Plan (CAP) -Training is a continuous process by Capacity Development Fund of Pourashava. It is financed by IUGIP-III-AF.	Pourashava PRAP budget

- (Construction Phase (For any "negative" impacts "Environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

(ii) Operation Phase/Post-Construction

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water logging in drains and footpaths	(-)	Run-off from debris/ sediments from repair and maintenance of Footpath and drain which may cause siltation and reduction in the quality of adjacent bodies of water. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	- Take all precautions to prevent run-off into streams, water courses, or irrigation system. Install temporary silt traps or sedimentation basins along drainage leading to the water bodies. - Remove all debris/sediments immediately. - Dispose debris/sediments at a designated site such as landfill.	PIU, LINIC

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water quality monitoring (Arsenic, Iron, Chloride, Manganese etc.) (twice a year)	(-)	Due to polluted water, people may suffer from dangerous diseases like cholera, dysentery, diarrhea, Gastrointestinal disease and jaundice etc.	Necessary test will be performed occasionally by testing water sample from the tube wells (Pourashava PRAP budget)	PIU, LINIC
Solid Waste management	(-)	-Due to open dumping ambient environment will be polluted and will be breeding place of flies -Threat to human health and/or the environment -Due to bad odor, nuisance to sensitive receptors	- There is an existing sanitary landfill (SLF) of the Pourashava under IUGIP-III/AF and the waste management system will be connected with this system obviously. - The waste will soon be carried to the proposed SLF by Pourashava SWM system - Develop rodent and fly control plan - Ensure residual waste is not left in bins and allowed to decompose for a long time	PIU/LINIC
Community H & S - Walkway/drain - Toilet conditions - Drinking water quality (Tube well)	(-)	- The inhabitants may dump waste on the walkway - Bricks used in BFS, may be stolen when CC will wear out with the passage of time - Inadequate supply of water to toilet may spread bad odor - Improper use may spread germ - Irregular cleaning may create unhygienic condition - Epidemic may spread due to deteriorated quality of water	- Awareness to the inhabitants to discourage dumping of waste on the walkway - Ensure routine maintenance by the LINIC - Continuous supply of water will be provided - Awareness to user for proper use of latrine - LINIC will engage a person to clean and maintenance of Toilet and tube well regularly - Periodic maintenance of Tube well and Toilet will be done by Pourashava PRAP budget -Inspect soak well periodically to determine filling levels. -Scheduled Desludging: Arrange timely desludging before overflow occurs. --Use mechanical desludging systems instead of manual entry.Follow confined-space entry protocols if entry is unavoidable. -Train workers on safe handling of human waste and emergency procedures. -Transport and dispose of sludge only at approved treatment facilities	PIU/LINIC
Dustbin	(-)	- Improper use of dustbins - Irregular cleaning of dustbin may create bad odor and birth place of flies	- Awareness to the LIN dwellers for proper use of dustbins - LINIC will engage a person who will monitor the cleaning the dustbin regularly	PIU/LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the community	-Twice a year Training/workshop/ meeting for maintenance of TW, Toilet, Planted Tree and Solar panel will be organized by LINIC/PIU and financed by Pourashava PRAP fund. -Provided training on maintenance of TW, toilet and Planted Tree, solar panel during preparation of Community Action Plan (CAP) Inventory Management: Keep records of all solar street light components (panels, batteries, controllers). -Proper Storage: Store damaged or expired components safely in designated areas. -Authorized Disposal: Send batteries, panels, and electronic parts to licensed e-waste recyclers; do not burn or dump. -Staff Training: Train maintenance personnel on the safe handling, segregation, and reporting of e-waste.	Pourashava PRAP budget

Environmental issues/concerns/components/parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
			-Replacement Plan: Establish a system for replacing non-functional components and managing them as e-waste. -Regular maintenance of planted tree by LIN dwellers	

- (Operation Phase (For any "negative" impacts "environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

g. Environmental Management Plan (EMP)

(i) Monitoring Plan (Construction and Operation Period)

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
Water quality	-Contamination (Arsenic, Iron, Chloride, Manganese etc.) or degrading of water quality of drinking water well -Contamination (DO, BOD, COD, TDS, TSS, Turbidity etc.) or degrading of water quality of surface water	-Water quality of tube well will be tested after installation/construction by LINIC and it is included in engineering estimate (Item LGED rate schedule) -Water quality of Tube well will be monitored periodically and DoE standard will be maintained properly. -The outlet of household waste water would be connected with Pourashava existing drain -PIU/LINIC will strongly monitoring the performance of the interventions	Twice a year/Yearly Operation /completion work	Pourashava
Dust from drains, footpaths, toilets, street light, dustbins and tube well	-Air and noise pollution may occur due to construction/operation -Irregular cleaning may damage the interventions	-Use tarpaulins to cover soils, sand and other loose material. -Water will be sprayed to control the dust when necessary -Regular maintenance/cleaning -PIU/LINIC will strongly monitoring the performance of the interventions	As per necessary	PIU/LINIC
Acoustic environment	Temporary increase in noise level and vibrations. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	Plan activities in consultation with Pourashava local authority so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance.	No need for noise quality monitoring due to short-term project	Pourashava
Biodiversity	Activities in the built-up area of Pourashava. There are no protected areas in or around Sub-project sites, and no known areas of ecological interest.	<ul style="list-style-type: none"> No trees, shrubs, or groundcover may be removed or vegetation stripped without the prior permission. Prevent workers or any other person from removing and damaging any flora (plant/vegetation) and fauna (animal). 	No need for monitoring due to short-term project	Pourashava
Existing provisions for pedestrians and other forms of transport	Footpath closure is not anticipated. The impacts are negative but short-term, site-	<ul style="list-style-type: none"> Maintain safe passage for pedestrians during maintenance activities. Notify affected sensitive receptors by providing sign boards informing nature and duration of maintenance activities and contact numbers for concerns/complaints. 	Duration of construction works	Pourashava

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
	specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> • Leave spaces for access between mounds of soil. • Ensure any damage to properties and utilities will be restored or compensated to pre-work conditions. 		
Worker's health and safety	Workers need to be mindful of the occupational hazards working in confined spaces such as closed drains. Potential impacts are negative and long-term but reversible by mitigation measures.	<ul style="list-style-type: none"> • Comply with requirements of Government of Bangladesh Labor Law of 2006, Labor Law services rule 2015 and all applicable laws and standards on workers H&S. • Ensure adequate safety and provisions as per the Annex 8 in relation to the COVID-19. • Ensure that all site personnel have a basic level of H&S training. • Produce and implement a O&M and H&S plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use personal protective equipment (reflectorized vests, footwear, gloves, goggles and masks) at all times; (iii) providing H&S training for all site personnel; (iv) providing fire extinguisher at construction site • Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances • Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. 	Duration of construction works	Pourashava/LINIC

h. Public Consultations

20. A public consultation meeting was held at Gobindapur Math Para LIN on 24 december 2024. A total of 26 participants attended the meeting where 20 were female. SIC members, teachers, counselors, farmers, female workers, housewives, and small business holders were present in the meetings. The safeguarding team of PRS-UGIIP visited the slum of the Paurashava. Consultants described environmental and social issues in the context of development aspects and potential impacts of the infrastructure development work of the slums. The meeting was presided over by the Executive Engineer of Alamdanga Paurashava.

Time of Public Consultation

Site : Gobindapur Math Para LIN

Time : 10:00 AM

21. Participants of the meeting exchanged views with the safeguarding team about their sufferings and the remedial measures to be taken to overcome them. At present, the slum dwellers use hanging and pit latrines, which is a threat to public health and un-hygienic as well. They insisted on community latrines to overcome it. The drinking water was the burning issue. The water available at the slum was inadequate and non-potable due to impurities (e.g., excessive iron, arsenic, and manganese). They urged for sufficient potable water at their doorstep. Water logging was an additional problem in the LINs. Their yard inundates during the rainy season. It creates an un-hygienic condition of living. They wanted immediate relief from it through the installation of a proper drainage system. Inadequate internal road communication made their livelihood slower. A proper footpath would ease their safe movement. They asked for a proper footpath system in their slum. There is inadequate/no dustbin in or around the slums. As such, they cannot dump the waste properly, especially the kitchen waste. It creates bad odor and un-hygienic conditions in and around the LIN. They wanted the installation of dustbins. Inadequate light during nighttime is an additional problem. Social nuisance creates it. Pilferage and unsocial activities are promoted in the dark. The slum dwellers urged for street lighting systems in and around the LINs.
22. Experts discussed regarding safeguard issues; focusing the sub-project components with its importance including socio economic and health hazard. Also discussed, environmental and social impacts and mitigation measures about air, dust, water pollution and waste management.
23. As per discussion and feedback from the Paurashava staff and all SIC members, the slums were selected through consultation with the local leader/councilors living in the Paurashava area. According to the discussion, the participants appreciated the proposed slum improvement components, as it will improve the health and sanitation conditions of the LIN, which will provide a positive socio-economic impact.
24. The LIN dwellers demanded for more latrines and tube wells and also demanded separate latrines for women. The chairman of the meeting in his concluding speech mentioned that as per allocation of fund, elements of the proposed sub-project have been selected by the LIN dwellers. The sites have been selected based on the available space spreading all over the LIN. However, maximum old sites will be used and nobody will be affected. The toilet designs have considered separate unit for the women and it would not be possible to provide individual tube wells and individual toilets. He requested co-operation from the LIN dwellers during construction activities. The meeting was concluded with thanks from the chair to the participants. (Appendix 3).

i. Grievance Redress Mechanism

25. Grievance redress mechanism (GRM) has been established in the Pourashava to redress quickly social, environmental and any other project related grievances from the affected or any aggrieved person/ party with the creation of grievance redress cell (GRC) comprising of:

26. Affected or aggrieved persons will have the flexibility of conveying grievances/ suggestions in writing and dropping them in complaints/suggestion boxes that have already been installed in the Pourashava or through telephones, e-mails, by post or by writing in the complaint register in the Pourashava office. The cost related to environmental grievance redress are included in social and resettlement cost estimates.

(i) Grievance Redresses Process

27. **1st Level Grievance:** Names and contact phone numbers of the PIU safeguard focal person will be posted on the construction site at visible location (construction site signboard) to provide first level of contact for quick resolution of the grievances. The LINIC and the PIU safeguard focal person can immediately resolve on-site the grievances in consultation with each other within 7 days of receipt of a complaint/ grievance.
28. **2nd Level Grievance:** The grievances that cannot be redressed within 7 days at field/ ward level will be reviewed by the grievance redress cell (GRC) with support from PIU designated safeguard focal person and MDSC regional environment and resettlement specialists. The GRC will attempt to resolve the complaints/ grievances within 15 days.
29. **3rd Level Grievance:** The PIU designated safeguard focal person will refer the unresolved or, the major issues to the PMU safeguard officer and MDSC safeguard specialists. The PMU, in consultation with the above-mentioned officer/ specialists, will resolve the issues within 30 days. Despite project GRM, an aggrieved person shall have access to the country's legal system at any stage, and assessing can go parallel.
30. If the GRM cannot resolve the issues, the affected person also can use the ADB Accountability Mechanism (AM) through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB Bangladesh Resident Mission (BRM) in any of the official languages of ADB.
31. **Recordkeeping:** Records all grievances including date of receive and detailed contract address of complainant, nature of grievance, agreed corrective actions, and the dates these were affected and final outcomes will be kept by PIU. The grievances recorded and resolved and the outcomes will be displayed/ disclosed in the PMU office, Pourashava office, on the web and reported in the semi-annual monitoring reports.
32. **Periodic review and documentation of lessons learnt:** The PMU safeguard officer will periodically review the functioning of the GRM in each Pourashava and record information on the effectiveness of the mechanism.

j. Conclusion

33. So, there will be no negative impact for the implementation of the sub-project and if there is any that would be very minimum most of which are construction related, localized and for short-term. Moreover, there will be a lot of positive impacts such as: Moreover, there will be a lot of positive impacts such as:
- Environmental & sanitation conditions will be improved.
 - LIN dwellers will have comfortable walkway and improved drainage.
 - Water-logging will be removed which will eliminate the mosquito breeding resulting the reduction of many diseases including waterborne diseases.
 - LIN dwellers will have facilities for pure drinking water and facilities for solid waste disposal.
 - There will be savings in the medical treatment cost. Thus, health conditions will be improved etc.

b. Description of Interventions

Description of the proposed interventions for the is given in Table IV.3.

Table IV.2: Description of Proposed Interventions of LIN

Sl. No.	Name of Package	Financial Year	Name and Number/ Length of Scheme	Unit (m/nos)	Amount TK/ (nos/m)	Quantity	Engineer's Estimated Amount (TK)	Remarks	
			Name of LIN: Gobindapur Sardar Para LIN (Lot-02)						
			Name of works: Construction of 12 Nos. Single unit (type-B) Toilet with 24 nos soak pits, 02 Nos Double unit (type-B) toilets with 08 Nos soak pits, 481 meter of Footpath, 481 meter Brick Drain, 05 numbers of solar street light, 11 numbers hand tubewell with 11 Nos soak pits and 100 Nos Tree Piantation in Gobindapur Shardar Para LIN Ward no-01 at Alamdanga Pourashava, District: Chuadanga.						
	IUGIP/ALAM/SI/01-07/2023 (Lot-02)	2025-2026	a)	Construction of 12 Nos. Single unit (type-B) Toilet with 24 nos soak pit in Gobindapur Shardar Para LIN Ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	252644.98	12	3,031,739.76	
1			a 2)	Construction of 02 nos.Double unit (type-B) toilet with 08 Nos soak pit in Gobindapur Shardar Para LIN Ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	395554.34	2	791,108.68	
2			c)	Construction of 481m meter footpath in Gobindapur Shardar Para LIN Ward no-01 at Alamdanga Pourashava, District: Chuadanga.	m	3542.51	481	1,703,949.70	
3			d)	Construction of 481m Brick drain with top slab in Gobindapur Shardar Para LIN Ward no-01 at Alamdanga Pourashava, District: Chuadanga.	m	6383.06	481	3,070,253.09	
4			e)	Installation of 05 Number solar street light in Gobindapur Shardar Para LIN Ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	94481.79	5	472,408.95	
5			f)	Installation of 11 number tube well with 11 Nos soak pits in Gobindapur Shardar Para LIN Ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	77914.81	11	857,062.91	
6			g)	Plantation of 100 nos. Tree in Gobindapur Shardar Para LIN Ward no-01 at Alamdanga Pourashava, District: Chuadanga.	nos	495.00	100	49,500.00	
			Total (Lot-02) Amount =					9,976,023.09	

c. Present Condition (Baseline Environment)

(i) Flooding/Water-clogging

35. Flood does not occur in this LIN. The existing drains are earthen and are not functioning. Water logging condition occurs due to heavy rainfall during rainy season. Rain water in the monsoon and the water coming out from bathing and washing round the year are stagnant there. As such water logging becomes a common feature there. Construction of drain is necessary in this LIN.

(ii) Water Source/Level/Quality/Tube well

36. At present, the LIN people have some problem with the availability of drinking water. So, LIN dwellers demand 11 tubewells are proposed here. The bore-log records of the suitable aquifer and quality of water in that aquifer such as iron, manganese, arsenic, hardness, chloride contents.

(iii) Sanitations

37. There is insufficient toilets facility in the LIN area. LIN dwellers have no enough hygienic sanitation. There are 12 nos proposal sanitation improvement within the LIN area.

(iv) Access Roads/Footpaths

38. There exists earthen access road in the LIN area and no pacca walkway also in the LIN area. LIN dwellers wanted footpath for their communication within the LIN area. 481 m are being proposed in this summary. LIN area is connected by Pourashava roads. The proposed Footpaths have been designed with cement concrete (CC) crushed stone chips and over Single Layer Brick Flat Soling (BFS). LIN area is connected by Pourashava roads. Images of existing access roads of the LIN are shown in Figure II.3. Typical design of footpath is given in Appendix-1.



Figure IV.2: Existing Situation at Gobindapur Sardar Para LIN

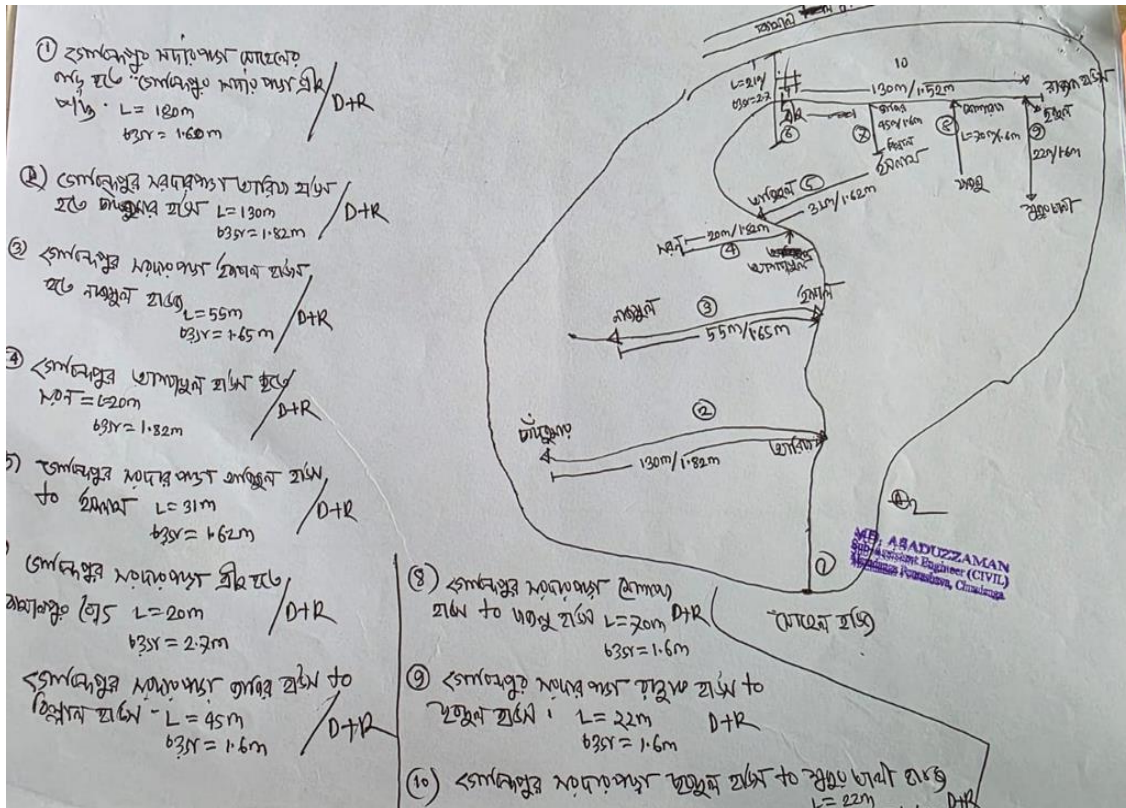
(v) Solar Street Lights

39. There are insufficient numbers of street light in this LIN area therefore 05 nos provisions of light are proposed under this package.

(vi) Drain

40. The existing drains are earthen and are inactive. So, the LIN dwellers experience water logging especially during rainy season. The out fall of proposed drain is Pourashava existing drain (Section-3 site map) and the coming water to the proposed drain 481m is only from rainfall run-off or household waste water. All drains have been designed to be built by RCC. But well-defined slopes and outfalls have been ensured. The U-type drains have been designed considering the constraint in land availability. The design life has been considered as 20 years. Integration/connection of Road side drains with the town drainage system has been considered and considering the possibilities of increased precipitation owing to probable climate change, the sections have been designed keeping allowance to accommodate 10% additional flow. Typical Design of drains is given in Appendix-1;

d. Site Map of Gobindapur Sardar Para LIN Area



e. Baseline Information

All LINS fall under a single pourashava, so their baseline profiles are nearly identical, differing only in aspects of Physical Cultural Resources.

41. The key baseline information on the LIN area is depicted in below table:

Sl	Key environmental and social aspects	Key baseline information
1	Noise	Noise pollution is a major constraint to the environmental quality of the study area as there is a highway running alongside it. There are no sources of noise such as local noise, industries, etc.
2	Air	The current air quality in the LIN area of Alamdanga Municipality is moderate with pollution levels that may affect sensitive groups. The air quality in the LIN area of Alamdanga is moderate mainly due to particulate matter emitted from brick kilns, vehicle emissions. The final master plan of the municipality shows that air pollution is a serious environmental concern that is having a favorable impact on many parts of the LIN area of Alamdanga Municipality.
3	Ground water	The water level in Chuadanga district is normal. The average water layer here is 200 feet and clear water is always available here, which does not cause any environmental problems.

4	Surface water	Supriyo water is available in Alamdanga Municipality. But the amount of iron in the water is high.
5	Protected Area (PA)	In terms of security, Alamdanga Municipality is a completely safe place with no wildlife nuisance, which has no impact on the projector.
6	Cultural Heritage	In terms of cultural heritage, Alamdanga Upazila has some Baul music tradition and the people here retain these cultural aspects. Religious and cultural aspects are given great importance.
7	Physical Cultural Resources	Located in Alamdanga Upazila of Chuadanga District, Bangladesh, it is rich in both physical (natural environment, geography, natural resources) and cultural (various ethnic communities, traditions, religious sites) resources.

f. Environmental Impact Assessment and Mitigation

42. (The review process will be greatly facilitated by comprehensive and detailed answers in this section. When completing this section, please state a specific reason [i.e., “there will be no impacts to environment because this project will not involve any disturbance”] and cite a source [i.e., local master plan, previous environmental assessment, correspondence with Pourashava Office, etc.] to support a response of “no impact (-)” or “potential to impact (+).”)
43. The LIN toilets are being considered with two types of design: (i) Type A, and (ii) Type B. Type A is considered with septic tank whereas Type B considered with pit along with soak pit. The note from the Pourashava engineers taken that in many of the LIN area there is shortage of space for constructing septic tank where soak pit is designed with the pit. However, such soak pit has mitigation measure for ground or surface water contamination (e.g., sand and brick chips envelope on the bottom of pit). Moreover, municipality will ensure good maintenance for such toilets having soak pit.
44. The demolition, construction, and waste management activities in the LIN area may generate several short-term and localized environmental impacts. Dust from demolition, debris movement, and broken footpaths can impair air quality, while demolition and temporary camps may create unhygienic conditions. Noise from demolition is minimal. Since project activities are scattered and not near water bodies, the likelihood of surface or groundwater pollution is low. Pollution from construction work yards is minimal, requiring only limited environmental monitoring. Finally, urban construction activities such as excavation and earthmoving carry inherent occupational safety risks, particularly related to working at heights or in excavated areas, though these risks are reversible with proper mitigation.

(i) Pre-construction and Construction Phase

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Demolition of existing infrastructure: - Dust from demolition - Noise from demolition - Waste from demolition - Un-hygiene of demolition	(-)	-Different activities regarding the demolishing the existing structure (part) and broken footpath generate dust which impair the air quality -Unhygienic/unsanitary environment due to demolition of old/poor infrastructure and construction of camps in the development site -Creation of noise from demolition is negligible	-Water will be sprayed to control the dust, which is the main way to suppress dust in the working site as per necessary Appendix-2 EMP cost. -Apply water to disturbed soils after demolition is completed or at the end of each day of cleanup. -Transport/handle debris from demolished infrastructures in a hygienic manner. -Tree plantation at the LIN boundary/open space/slope on the basis of space availability -Collection of construction debris and dispose in a hygienic way by LINIC and it is included in engineering estimate item (LGED rate schedule) -PIU/LINIC will strongly monitoring the construction activity and instant action will take.	PIU, LINIC
Dust Management	(-)	-Moving debris/sediments may create dusts during dry season. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures	- Use tarpaulins to cover soils, sand and other loose material. -Water will be sprayed to control the dust when necessary	PIU, LINIC
Community facilities and services - Blockage to access roads - Fire & Safety	(-)	- Construction works will impede the access of residents and businesses in limited cases. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures. Poor safety signage and lack of barriers at work site and trenches will create hazard to pedestrians and children. - Chances of fire only from open cooking in the area which may create major loss of property to the residence in the LIN.	- Provide safety signage at all sites visible to public that is monitored by PIU/LINIC and it will be confirmed in semi-annual monitoring report - Provide safety barriers near any trenches, and cover trenches with planks during non-work hours. - LINIC's activities and movement of staff will be restricted to designated construction areas. - Consult with Pourashava local authority on the designated areas for stockpiling of, soils, gravel, and other construction materials. - If the LINIC chooses to locate the work camp/storage area on private land, he must get prior permission from the environment management specialist and landowner. - Recycling and the provision of separate waste receptacles for different types of waste shall be encouraged. - Workers need to be made aware of the following general rules: (i) no alcohol/drugs on site; (ii) prevent excessive noise; (iii) construction workers are to make use of the facilities provided for them, as opposed to ad hoc alternatives (e.g. fires for cooking, the use of surrounding bushes as a toilet facility); (iv) no fires permitted on site except if needed for the construction works; (v) other than pre-approved security staff, no workers shall be permitted to live on the construction site; and (vi) no worker may be forced to do work that is potentially dangerous or that he/she is not trained to do. - Bucket filled with sand will be kept at the construction zone.	PIU, LINIC
Air/water/noise quality monitoring	(-)	- Component of works are scattered in the LIN area, which are not located near-by any water stream/canal. There stands little probability of	- No need for Air/water/noise quality monitoring in construction area by test due to short-term effect. - Water will be sprayed to control the dust when necessary, it will be visually observed	Not required

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
		<p>surface and ground water pollution, as nothing like gasoline, oil, road salts and chemicals are dumped on the adjoining ground.</p> <p>- Construction work yards are located in small areas and its activities are also minimum. Here the intensity of pollution from air/dust/ noise is also very low and short-term. As such little monitoring of water/air/noise pollution parameters is needed at the surroundings work place.</p>		
Drainage congestion/water logging	(-)	<p>- Clogging/stagnation of flow in the storm drain, source of waste water is LIN dweller used water (bathing and washing)</p> <p>- Backflow of water through drain (e.g. due to high water level at downstream discharge point, such as khal/ river)</p> <p>- Drainage congestion/water logging due to cross road/construction activity</p>	<p>-Designing drain considering the downstream discharge point; adequate slope and x-section; RCC cover for drain, where appropriate</p> <p>- Not allowing direct connection to drain from toilet</p> <p>-The out fall of proposed drain is Pourashava existing drain</p>	PIU, LINIC
Waste Management	(-)	<p>- Uncollected wastes blocked the drainage and sewage system.</p> <p>- Air, water and soil pollution during the waste collection</p> <p>- Smoke from the open burning of uncollected waste.</p> <p>- The loading and unloading of waste at transfer station pollutes the air and soil.</p> <p>- Odor from waste disposal site and composting system.</p> <p>- Contamination of ground water by leachate.</p>	<p>- Follow the waste management plan given in Appendix 4 during construction period.</p> <p>- Encourage 3R (reduce, reuse, and recycle)</p> <p>- Encourage composting of kitchen waste on the basis of land availability otherwise transfer waste by hand trolley/van that is available in Pourashava and it is inspired by EMP implementation training</p> <p>- Adequate distance between waste bin and water body.</p> <p>- Adequate distance should be maintained between the waste collection point and house</p> <p>- Coordinate with the municipality for collection of domestic waste and disposal at the designated site</p>	PIU, LINIC
Workers H & S	(-)	<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 in height and excavation works. Potential impacts are negative and long-term but reversible by mitigation measures.</p>	<p>- Comply with requirements of GoB Labor Law of 2006, Labor law and services rules 2015 and all applicable laws and standards on workers H & S.</p> <p>- Ensure adequate safety and provisions as per the Appendix 5 in relation to the COVID-19.</p> <p>- Produce and implement a site health and safety (H&S) plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use PPE at all times; (iii) providing (H&S) training for all site personnel; (iv) Providing fire extinguisher at construction site (v) documenting procedures to be followed for all site activities; and (vi) maintaining accident reports and records.</p> <p>- Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances.</p>	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
			<ul style="list-style-type: none"> - Ensure (i) uncontaminated water for drinking, cooking and washing, (ii) clean eating areas where workers are not exposed to hazardous or noxious substances; and (iii) sanitation facilities are available at all times. - Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers; 	
Sanitation/excreta management	(-)	<ul style="list-style-type: none"> - Noise and soil pollution during the construction but short- term - Microbial contamination to the ground water from the pit latrine. - Waste during loading of sewage from the sanitary communal containers. - Odor 	<ul style="list-style-type: none"> - Design and installation of sanitary toilet to stop the microbial contamination to the ground water. - Adequate height with proper ventilation. - Water supply and hand wash facility - Regular cleaning and monitoring - 5-10m distance should be maintained between toilet and tube-well 	PIU, LINIC
Water supply (Tube well)	(-)	<ul style="list-style-type: none"> - Noise, dust and soil pollution during the construction but short- term 	<ul style="list-style-type: none"> - The digging of soil should follow the proper design to avoid the pollution and water logging - The outlet of tube well should be connected with soak pit to existing drain. - A person has been engaged for cleaning and maintenance of Tube well. - One set of maintenance equipment of Tube well is kept with LINIC selected person. 	PIU, LINIC
Footpath/connecting Road	(-)	<ul style="list-style-type: none"> - Dust and noise pollution from construction work 	<ul style="list-style-type: none"> - Watering to reduce dust - Tree plantation on the footpath/road slope 	PIU, LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	<ul style="list-style-type: none"> -Increase environmental awareness among the construction workers 	<ul style="list-style-type: none"> -LINIC and all workers will be required to undergo EMP implementation including waste management, Standard operating procedures (SOP) for construction works; health and safety (H&S), core labor laws, applicable environmental laws, etc. - Provided training on use of TW, toilet, solar panel and tree plantation etc. during preparation of Community Action Plan (CAP) -Training is a continuous process by Capacity Development Fund of Pourashava. It is financed by IUGIP-III. 	Pourashava PRAP budget

- (Construction Phase (For any "negative" impacts "environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

(ii) Operation Phase/Post-Construction

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water logging in drains and footpaths	(-)	Run-off from debris/ sediments from repair and maintenance of Footpath and drain which may cause siltation and reduction in the quality of adjacent bodies of water. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	- Take all precautions to prevent run-off into streams, water courses, or irrigation system. Install temporary silt traps or sedimentation basins along drainage leading to the water bodies. - Remove all debris/sediments immediately. - Dispose debris/sediments at a designated site such as landfill.	PIU/ LINIC
Water quality monitoring (Arsenic, Iron, Chloride, Manganese etc.) (twice a year)	(-)	Due to polluted water people may suffers from dangerous diseases like cholera, dysentery, diarrhea, Gastrointestinal disease and jaundice etc.	Necessary test will be performed occasionally by testing water sample from the tube wells (Pourashava PRAP budget)	PIU/LINIC
Solid Waste management	(-)	-Due to open dumping ambient environment will be polluted and will be breeding place of flies -Threat to human health and/or the environment -Due to bad odor nuisance to sensitive receptors	-There is an existing sanitary landfill (SLF) of the Pourashava under CRDP and the waste management system will be connected with this system obviously. -The waste will soon be carried to the existing SLF by Pourashava SWM system -Develop rodent and fly control plan -Ensure residual waste is not left in bins and allowed to decompose for a long time	PIU/LINIC
Community H & S - Walkway - Toilet conditions - Drinking water quality (Tube well)	(-)	-The inhabitants may dump waste on the walkway -Bricks used in BFS, may be stolen when CC will wear out with the passage of time -Inadequate supply of water to toilet may spread bad odor -Improper use may spread germ -Irregular cleaning may create unhygienic condition -Epidemic may spread due to deteriorated quality of water	-Awareness to the inhabitants to discourage dumping of waste on the walkway -Ensure routine maintenance by the LINIC -Continuous supply of water will be provided -Awareness to user for proper use of latrine -LINIC will engage a person to clean and maintenance of Toilet and tube well regularly -Periodic maintenance of Tube well and Toilet will be done by Pourashava PRAP budget -Inspect soak well periodically to determine filling levels. -Scheduled Dislodging: Arrange timely desludging before overflow occurs. --Use mechanical desludging systems instead of manual entry. Follow confined-space entry protocols if entry is unavoidable. -Train workers on safe handling of human waste and emergency procedures. --Transport and dispose of sludge only at approved treatment facilities.	PIU/LINIC
Dustbin	(-)	- Improper use of dustbins - Irregular cleaning of dustbin may create bad odor and birth place of flies	- Awareness to the LIN dwellers for proper use of dustbins - LINIC will engage a person who will monitor the cleaning the dustbin regularly	PIU/LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the community	-Twice a year Training/workshop/ meeting for maintenance of TW, Toilet, Planted Tree and Solar panel will be organized by LINIC/PIU and financed by Pourashava PRAP fund. -Provided training on maintenance of TW, toilet and Planted Tree, solar panel during preparation of Community Action Plan (CAP)	Pourashava PRAP budget

Environmental issues/concerns/components/parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
			<ul style="list-style-type: none"> -Inventory Management: Keep records of all solar street light components (panels, batteries, controllers). -Proper Storage: Store damaged or expired components safely in designated areas. -Authorized Disposal: Send batteries, panels, and electronic parts to licensed e-waste recyclers; do not burn or dump. -Staff Training: Train maintenance personnel on the safe handling, segregation, and reporting of e-waste. -Replacement Plan: Establish a system for replacing non-functional components and managing them as e-waste. -Regular maintenance of planted tree by LIN dwellers. 	

- (Operation Phase (For any “negative” impacts “environmental mitigation measure” may be suggested. For any positive impacts environmental enhancement program may be carried out)

g. Environmental Management Plan (EMP)

(i) Monitoring Plan (Construction and Operation Period)

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
Water quality	Contamination (Arsenic, Iron, Chloride, Manganese etc.) or degrading of water quality of drinking water well	<ul style="list-style-type: none"> -Water quality of tube well will be tested after installation/construction by LINIC and it is included in engineering estimate (Item LGED rate schedule) -Water quality of Tube well will be monitored periodically and DoE standard will be maintained properly. -The outlet of household waste water would be connected with Pourashava existing drain -PIU/LINIC will strongly monitoring the performance of the interventions 	Twice a year/Yearly Operation /completion work	Pourashava
Dust from drains, footpaths, toilets, street light, dustbins and tube well	<ul style="list-style-type: none"> -Air and noise pollution may occur due to construction/operation -Irregular cleaning may damage the interventions 	<ul style="list-style-type: none"> -Use tarpaulins to cover soils, sand and other loose material. -Water will be sprayed to control the dust when necessary -Regular maintenance/cleaning -PIU/LINIC will strongly monitoring the performance of the interventions 	As per necessary	PIU/LINIC
Acoustic environment	Temporary increase in noise level and vibrations. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	Plan activities in consultation with Pourashava local authority so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance.	No need for noise quality monitoring due to short-term project	Pourashava

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
Biodiversity	Activities in the built-up area of Pourashava. There are no protected areas in or around Sub-project sites, and no known areas of ecological interest.	<ul style="list-style-type: none"> No trees, shrubs, or groundcover may be removed or vegetation stripped without the prior permission. Prevent workers or any other person from removing and damaging any flora (plant/vegetation) and fauna (animal). 	No need for monitoring due to short-term project	Pourashava
Existing provisions for pedestrians and other forms of transport	Footpath closure is not anticipated. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> Maintain safe passage for pedestrians during maintenance activities. Notify affected sensitive receptors by providing sign boards informing nature and duration of maintenance activities and contact numbers for concerns/complaints. Leave spaces for access between mounds of soil. Ensure any damage to properties and utilities will be restored or compensated to pre-work conditions. 	Duration of construction works	Pourashava
Worker's health and safety	Workers need to be mindful of the occupational hazards working in confined spaces such as closed drains. Potential impacts are negative and long-term but reversible by mitigation measures.	<ul style="list-style-type: none"> Comply with requirements of Government of Bangladesh Labor Law of 2006, Labor Law services rule 2015 and all applicable laws and standards on workers H&S. Ensure adequate safety and provisions as per the Annex 8 in relation to the COVID-19. Ensure that all site personnel have a basic level of H&S training. Produce and implement a O&M and H&S plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use personal protective equipment (reflectorized vests, footwear, gloves, goggles and masks) at all times; (iii) providing H&S training for all site personnel; (iv) providing fire extinguisher at construction site Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. 	Duration of construction works	Pourashava/LINIC

h. Public Consultations

45. A public consultation meeting was held at Gobindapur Sardar Para LIN on 24 december 2024. A total of 25 participants attended the meeting where 25 were female. SIC members, teachers, counselors, farmers, female workers, housewives, and small business holders were present in the meetings. The safeguarding team of PRS-UGIIP visited the slum of the Paurashava. Consultants described environmental and social issues in the context of development aspects and potential impacts of the infrastructure development work of the slums. The meeting was presided over by the Executive Engineer of Alamdanga Paurashava.

Time of Public Consultation

Site : Gobindapur Sardar Para LIN

Time : 11:00 AM

46. Participants of the meeting exchanged views with the safeguard team about their sufferings and the remedial measures to be taken to overcome it. At present the LIN dwellers use hanging and pit latrine, which is a threat to public health and un-hygienic as well. They insisted for a community latrine to overcome it. The drinking water was the burning issue. The water available at the LIN was inadequate and non-potable due to impurities (e.g., excessive iron). They urged for sufficient potable water at their door step. Water logging was an additional problem of the LINs. Their yard inundates during rainy season. It creates an un-hygienic condition of living. They wanted immediate relief from it, through an installation of proper drainage system. Inadequate internal road communication made their livelihood slower. A proper footpath would ease their safe movement. They asked for a proper footpath system in their LIN. There is inadequate dustbin in or around the LINs. As such they cannot dump the waste specially the kitchen waste properly. It creates bad odor and un-hygienic condition in and around the LIN. They wanted installation of dustbins. Inadequate light during night time is an additional problem. Social nuisance creates at it. Pilferage and unsocial activities promote in the dark. The LIN dwellers urged for street lighting system in and around the LINs.
47. Experts discussed regarding safeguard issues; focusing the sub-project components with its importance including socio economic and health hazard. Also discussed, environmental and social impacts and mitigation measures about air, dust, water pollution and waste management.
48. As per discussion and feedback from the SDO and all LINIC members, the LINs were selected through consultation with the local leader/councilors living in the Pourashava area. According to the discussion, the participants appreciated the proposed LIN improvement components, as it will improve the health and sanitation conditions of the LIN which will provide positive socio-economic impact.
49. The LIN dwellers demanded for more latrines and tube wells and also demanded separate latrines for women. The chairman of the meeting in his concluding speech mentioned that as per allocation of fund, elements of the proposed sub-project have been selected by the LIN dwellers. The sites have been selected based on the available space spreading all over the LIN. However, maximum old sites will be used and nobody will be affected. The toilet designs have considered separate unit for the women and it would not be possible to provide individual tube wells and individual toilets. He requested co-operation from the LIN dwellers during construction activities. The meeting was concluded with thanks from the chair to the participants. (Appendix 3).

i. Grievance Redress Mechanism

50. Grievance redress mechanism (GRM) has been established in the Pourashava to redress quickly social, environmental and any other project related grievances from the affected or any aggrieved person/ party with the creation of grievance redress cell (GRC) comprising of:

46. Affected or aggrieved persons will have the flexibility of conveying grievances/ suggestions in writing and dropping them in complaints/suggestion boxes that have already been installed in the Pourashava or through telephones, e-mails, by post or by writing in the complaint register in

the Pourashava office. The cost related to environmental grievance redress are included in social and resettlement cost estimates.

Grievance Redresses Process:

1st Level Grievance: Names and contact phone numbers of the PIU safeguard focal person will be posted on the construction site at visible location (construction site signboard) to provide first level of contact for quick resolution of the grievances. The LINIC and the PIU safeguard focal person can immediately resolve on-site the grievances in consultation with each other within 7 days of receipt of a complaint/ grievance.

2nd Level Grievance: The grievances that cannot be redressed within 7 days at field/ ward level will be reviewed by the grievance redress cell (GRC) with support from PIU designated safeguard focal person and MDSC regional environment and resettlement specialists. The GRC will attempt to resolve the complaints/ grievances within 15 days.

3rd Level Grievance: The PIU designated safeguard focal person will refer the unresolved or, the major issues to the PMU safeguard officer and MDSC safeguard specialists. The PMU, in consultation with the above-mentioned officer/ specialists, will resolve the issues within 30 days. Despite project GRM, an aggrieved person shall have access to the country's legal system at any stage, and assessing can go parallel.

51. If the GRM cannot resolve the issues, the affected person also can use the ADB Accountability Mechanism (AM) through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB Bangladesh Resident Mission (BRM) in any of the official languages of ADB.

52. **Recordkeeping:** Records all grievances including date of receive and detailed contract address of complainant, nature of grievance, agreed corrective actions, and the dates these were affected and final outcomes will be kept by PIU. The grievances recorded and resolved and the outcomes will be displayed/ disclosed in the PMU office, Pourashava office, on the web and reported in the semi-annual monitoring reports.

53. **Periodic review and documentation of lessons learnt:** The PMU safeguard officer will periodically review the functioning of the GRM in each Pourashava and record information on the effectiveness of the mechanism.

j. Conclusion

54. So, there will be no negative impact for the implementation of the sub-project and if there is any that would be very minimum most of which are construction related, localized and for short-term. Moreover, there will be a lot of positive impacts such as:

Environmental & sanitation conditions will be improved.

LIN dwellers will have comfortable walkway and improved drainage.

Water-logging will be removed which will eliminate the mosquito breeding resulting the reduction of many diseases including waterborne diseases.

LIN dwellers will have facilities for pure drinking water and facilities for solid waste disposal.

There will be savings in the medical treatment cost. Thus, health conditions will be improved etc.

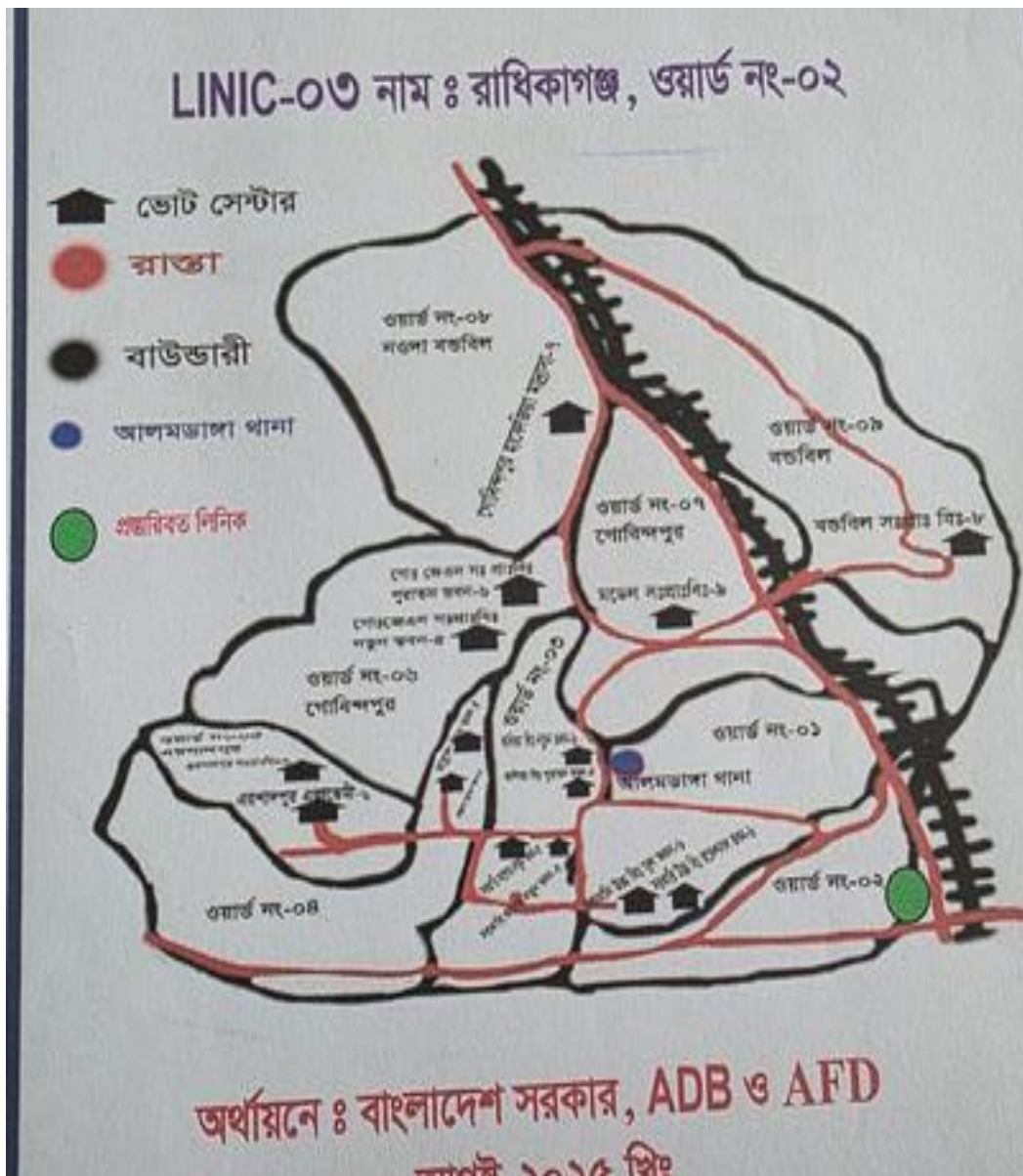
C. Radhikaganj LIN (Lot-03) (Ward no.02)

Package No: IUGIP/ALAM/SI/01-07/2023
(Lot-03)

55. The LIN is situated in ward no. 02. There are 125 families with 630 members, of which 305 are males, and 325 are females. The land area is 60 acres, and the government & local people own the land. Most of the LIN dwellers earn their livelihood by physical labor. The average income per head per month is less than BDT 3800.00. Almost all families live in katcha houses. They are deprived of most of the needed basic services. This LIN has an acute problem of inadequate sanitary latrines, inadequate facilities for drinking water, inadequate and deteriorating internal roads/footpaths/walkways, street lighting, dustbins, community space, etc

a. Location of the LIN

56. The LIN Radhikaganj Slum is situated in ward no. 02 under Paurashava of Alamdanga District; for the location of the slum in the Alamdanga Paurashava map in given below.



b. Description of Interventions

57. A description of the proposed interventions for Radhikaganj LIN LIN is given in Table II.4.

Table IV.3: Description of Proposed Interventions of LIN

Name of Package	Financial Year	Name and Number/ Length of Scheme	Unit (m/nos)	Amount TK/ (nos/m)	Quantity	Engineer's Estimated Amount (TK)	Remarks		
IUGIP/ALAM/SI/01-07/2023 (Lot-03)	2025-2026	Name of LIN: Radhikaganj LIN (Lot-03)							
		Name of works: Construction of 854 meter of Footpath, 854 meter Brick Drain, 07 numbers of solar street light, 13 numbers hand tubewell with 13 Nos soak pits and 100 Nos Tree Plantation in Radhikaganj LIN Ward no-02 at Alamdanga Pourashava, District: Chuadanga.							
		1	c)	Construction of 854m meter footpath in Radhikaganj LIN Ward no-02 at Alamdanga Pourashava, District: Chuadanga.	m	4504.94	854	3847219.28	
		2	d)	Construction of 854m Brick drain with top slab in Radhikaganj LIN Ward no-02 at Alamdanga Pourashava, District: Chuadanga.	m	5080.01	854	4338325.89	
		3	e)	Installation of 07 Number solar street light in Radhikaganj LIN Ward no-02 at Alamdanga Pourashava, District: Chuadanga.	nos	94481.79	7	661372.53	
		4	f)	Installation of 13 number tube well with 13 Nos soak pits in Radhikaganj LIN Ward no-02 at Alamdanga Pourashava, District: Chuadanga.	nos	77914.81	13	1012892.53	
5	g)	Plantation of 100 nos. Tree in Radhikaganj LIN Ward no-02 at Alamdanga Pourashava, District: Chuadanga.	nos	495.00	100	49,500.00			
Total (Lot-03) Amount =						9,909,310.23			

c. Present Condition (Baseline Environment)

(ii) Flooding/Water-clogging

58. Flood does not occur in this LIN. The existing drains are earthen and are not functioning. Water logging condition occurs due to heavy rainfall during rainy season. Rain water in the monsoon and the water coming out from bathing and washing round the year are stagnant there. As such water logging becomes a common feature there. Construction of drain is necessary in this LIN.

(iii) Water Source/Level/Quality/Tube well

59. At present, the LIN people have problem with the availability of drinking water. So, LIN dwellers demand for 13 tube wells are proposed here. The bore-log records of the suitable aquifer and quality of water in that aquifer such as iron, manganese, arsenic, hardness, chloride contents by testing through DPHE laboratory and having all those within acceptable limits as shown in Table II.2. This water quality test result can be considered as the water quality of whole Pourashava area. The concentration of all PTWs in the water quality test result is within the Bangladesh standard and World Health Organization (WHO) except the pH for all the considered wells. However, excessive iron in water has no adverse health effect.

(iv) Sanitations

60. There is insufficient toilets facility in the LIN area. LIN dwellers do not have enough hygienic sanitation. There is 13 nos proposal sanitation improvement within the LIN area.

(v) Access Roads/Footpaths

61. There is existing earth road are poor condition in the LIN area. LIN dwellers wanted footpath for their communication within the LIN area. The proposed footpaths 854m have been designed with cement concrete (CC) with crushed stone chips and over Single Layer Brick Flat Soling (BFS). LIN area is connected by Pourashava roads.

(vi) Street Lights

62. There are insufficient numbers of street light in this LIN area therefore 07 nos provisions of light are proposed under this package.

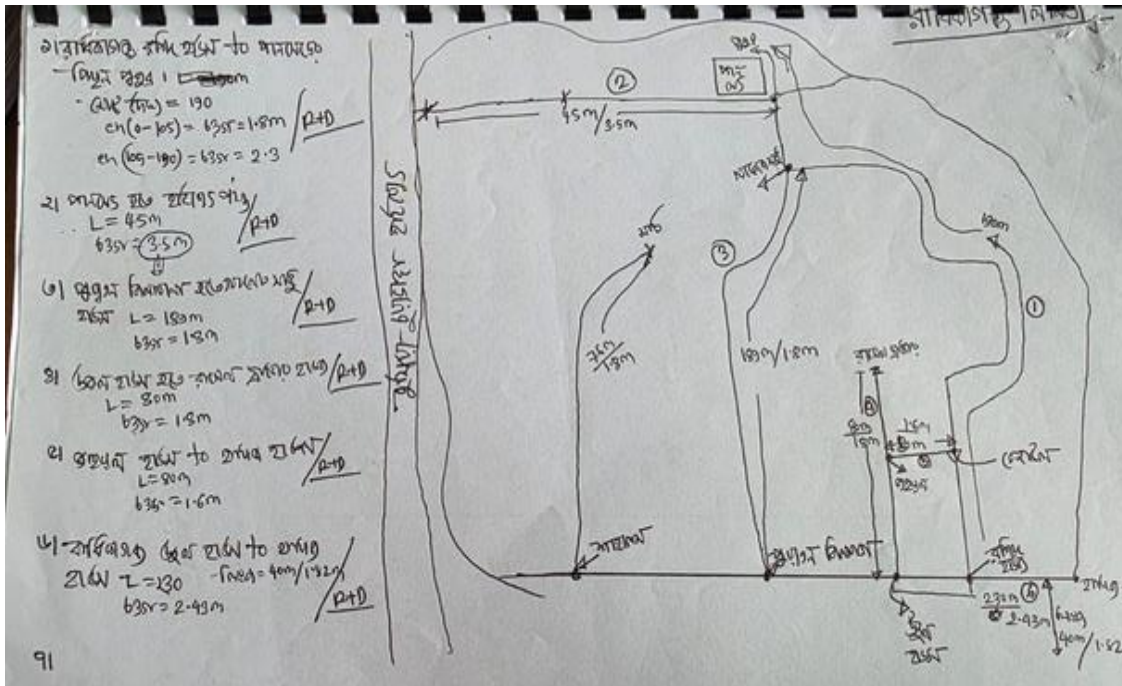
(vii) Drain

63. The existing drains are earthen and are inactive. So, the LIN dwellers experience water logging especially during rainy season. The out fall of proposed drain is Poura secondary drain to primary drain (Section-3 site map) and because as the coming water to the proposed drain is only from rainfall run-off or household waste water. All drains 854m have been designed to be built by RCC/brick. But well-defined slopes and outfalls have been ensured. The U-type drains have been designed considering the constraint in land availability. The design life has been considered as 20 years. Integration/connection of Road side drains with the town drainage system has been considered and considering the possibilities of increased precipitation owing to probable climate change, the sections have been designed keeping allowance to accommodate 10% additional flow.



Figure IV.3: Existing Situation at Radhikaganj LIN

d. Site Map of the Radhikaganj LIN



e. Baseline information

All LINS fall under a single pourashava, so their baseline profiles are nearly identical, differing only in aspects of Physical Cultural Resources.

64. The key baseline information on the LIN area is depicted in below table:

Sl	Key environmental and social aspects	Key baseline information
1	Noise	Noise pollution is a major constraint to the environmental quality of the study area as there is a highway running alongside it. There are no sources of noise such as local noise, industries, etc.
2	Air	The current air quality in the LIN area of Alamdanga Municipality is moderate with pollution levels that may affect sensitive groups. The air quality in the LIN area of Alamdanga is moderate mainly due to particulate matter emitted from brick kilns, vehicle emissions. The final master plan of the municipality shows that air pollution is a serious environmental concern that is having a favorable impact on many parts of the LIN area of Alamdanga Municipality.

3	Ground water	The water level in Chuadanga district is normal. The average water layer here is 200 feet and clear water is always available here, which does not cause any environmental problems.
4	Surface water	Supriyo water is available in Amdanga Municipality. But the amount of iron in the water is high.
5	Protected Area (PA)	In terms of security, Alamdanga Municipality is a completely safe place with no wildlife nuisance, which has no impact on the projector.
6	Cultural Heritage	In terms of cultural heritage, Alamdanga Upazila has some Baul music tradition and the people here retain these cultural aspects. Religious and cultural aspects are given great importance.
7	Physical Cultural Resources	Located in Alamdanga Upazila of Chuadanga District, Bangladesh, it is rich in both physical (natural environment, geography, natural resources) and cultural (various ethnic communities, traditions, religious sites) resources.

f. Environmental Impact Assessment and Mitigation

65. (The review process will be greatly facilitated by comprehensive and detailed answers in this section. When completing this section, please state a specific reason [i.e., “there will be no impacts to environment because this project will not involve any disturbance”] and cite a source [i.e., local master plan, previous environmental assessment, correspondence with Pourashava Office, etc.] to support a response of “no impact (-)” or “potential to impact (+).”)
66. The LIN toilets are being considered with two types of design: (i) Type A, and (ii) Type B. Type A is considered with septic tank whereas Type B considered with pit along with soak pit. The note from the Pourashava engineers taken that in many of the LIN area there is shortage of space for constructing septic tank where soak pit is designed with the pit. However, such soak pit has mitigation measure for ground or surface water contamination (e.g., sand and brick chips envelope on the bottom of pit). Moreover, municipality will ensure good maintenance for such toilets having soak pit.
67. The demolition, construction, and waste management activities in the LIN area may generate several short-term and localized environmental impacts. Dust from demolition, debris movement, and broken footpaths can impair air quality, while demolition and temporary camps may create unhygienic conditions. Noise from demolition is minimal. Since project activities are scattered and not near water bodies, the likelihood of surface or groundwater pollution is low. Pollution from construction work yards is minimal, requiring only limited environmental monitoring. Finally, urban construction activities such as excavation and earthmoving carry inherent occupational safety risks, particularly related to working at heights or in excavated areas, though these risks are reversible with proper mitigation.

(viii) Pre-construction and Construction Phase

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Demolition of existing infrastructure: - Dust from demolition - Noise from demolition - Waste from demolition - Un-hygiene of demolition	(-)	-Different activities regarding the demolishing the existing structure (part) and broken footpath generate dust which impair the air quality -Unhygienic/unsanitary environment due to demolition of old/poor infrastructure and construction of camps in the development site -Creation of noise from demolition is negligible	-Water will be sprayed to control the dust, which is the main way to suppress dust in the working site as per necessary Appendix-2 EMP cost. -Apply water to disturbed soils after demolition is completed or at the end of each day of cleanup. - Transport/handle debris from demolished infrastructures in a hygienic manner. -Tree plantation at the LIN boundary/open space/slope on the basis of space availability -Collection of construction debris and dispose in a hygienic way by LINIC and it is included in engineering estimate item (LGED rate schedule) -PIU/LINIC will strongly monitoring the construction activity and instant action will take.	PIU, LINIC
Dust Management	(-)	-Moving debris/sediments may create dusts during dry season. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures	- Use tarpaulins to cover soils, sand and other loose material. - Water will be sprayed to control the dust when necessary	PIU, LINIC
Community facilities and services - Blockage to access roads - Fire & Safety	(-)	- Construction works will impede the access of residents and businesses in limited cases. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures. Poor safety signage and lack of barriers at work site and trenches will create hazard to pedestrians and children. - Chances of fire only from open cooking in the area which may create major loss of property to the residence in the LIN.	-Provide safety signage at all sites visible to public that is monitored by PIU/LINIC and it will be confirmed in semi-annual monitoring report -Provide safety barriers near any trenches, and cover trenches with planks during non-work hours. -LINIC's activities and movement of staff will be restricted to designated construction areas. -Consult with Pourashava local authority on the designated areas for stockpiling of, soils, gravel, and other construction materials. -If the LINIC chooses to locate the work camp/storage area on private land, he must get prior permission from the environment management specialist and landowner. -Recycling and the provision of separate waste receptacles for different types of waste shall be encouraged. -Workers need to be made aware of the following general rules: (i) no alcohol/drugs on site; (ii) prevent excessive noise; (iii) construction workers are to make use of the facilities provided for them; (iv) no fires permitted on site except if needed for the construction works; and (v) no worker may be forced to do work that is potentially dangerous or that he/she is not trained to do. - Bucket filled with sand will be kept at the construction zone.	PIU, LINIC
Air/water/noise quality monitoring	(-)	- Component of works are scattered in the LIN area, which are not located near-by any water stream/canal. There stands little probability of surface and ground water pollution, as nothing like gasoline, oil, road salts and chemicals are dumped on the adjoining ground.	- No need for Air/water/noise quality monitoring in construction area by test due to short-term effect. - Water will be sprayed to control the dust, when necessary, it will be visually observed	Not required

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
		- Construction work yards are located in small areas and its activities are also minimum. Here the intensity of pollution from air/dust/ noise is also very low and short-term. As such little monitoring of water/air/noise pollution parameters is needed at the surroundings work place.		
Drainage congestion/water logging	(-)	- Clogging/stagnation of flow in the storm drain, source of waste water is LIN dweller used water (bathing and washing) - Backflow of water through drain (e.g., due to high water level at downstream discharge point, such as khal/ river) - Drainage congestion/water logging due to cross road/construction activity	-Designing drain considering the downstream discharge point; adequate slope and x-section; RCC cover for drain, where appropriate - Not allowing direct connection to drain from toilet -The out fall of proposed drain is primary to secondary drain and water quality will be monitoring as per necessary (in Appendix-2 EMP cost)	PIU, LINIC
Waste Management	(-)	- Uncollected wastes blocked the drainage and sewage system. - Air, water and soil pollution during the waste collection - Smoke from the open burning of uncollected waste. - The loading and unloading of waste at transfer station pollutes the air and soil. - Odor from waste disposal site and composting system. - Contamination of ground water by leachate.	- Follow the waste management plan given in Appendix 4 during construction period. - Encourage 3R (reduce, reuse, and recycle) - Encourage composting of kitchen waste on the basis of land availability otherwise transfer waste by hand trolley/van that is available in Pourashava and it is inspired by EMP implementation training - Adequate distance between waste bin and water body. - Adequate distance should be maintained between the waste collection point and house - Coordinate with the municipality for collection of domestic waste and disposal at the designated site	PIU/LINIC
Workers H & S	(-)	-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 in height and excavation works. Potential impacts are negative and long-term but reversible by mitigation measures.	- Comply with requirements of GoB Labor Law of 2006, Labor law and services rules 2015 and all applicable laws and standards on workers H & S. - Ensure adequate safety and provisions as per the Appendix 5 in relation to the COVID-19. - Produce and implement a site health and safety (H&S) plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use PPE at all times; (iii) providing (H&S) training for all site personnel; (iv) Providing fire extinguisher at construction site (v) documenting procedures to be followed for all site activities; and (vi) maintaining accident reports and records. - Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances. -Ensure (i) uncontaminated water for drinking, cooking and washing, (ii) clean eating areas where workers are not exposed to hazardous or noxious substances; and (iii) sanitation facilities are available at all times.	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
			- Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;	
Sanitation/excreta management	(-)	-Noise and soil pollution during the construction but short- term -Microbial contamination to the ground water from the pit latrine. -Waste during loading of sewage from the sanitary communal containers. -Odor	-Design and installation of sanitary toilet to stop the microbial contamination to the ground water. -Adequate height with proper ventilation. -Water supply and hand wash facility -Regular cleaning and monitoring -5-10m distance should be maintained between toilet and tube-well	PIU, LINIC
Water supply (Tube well)	(-)	-Noise, dust and soil pollution during the construction but short- term	-The digging of soil should follow the proper design to avoid the pollution and water logging -The outlet of tube well should be connected with soak pit to existing drain. -A person has been engaged for cleaning and maintenance of Tube well. -One set of maintenance equipment of Tube well is kept with LINIC selected person.	PIU, LINIC
Footpath/connecting Road	(-)	-Dust and noise pollution from construction work	-Watering to reduce dust -Tree plantation on the footpath/road slope	PIU, LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the construction workers	-LINIC and all workers will be required to undergo EMP implementation including waste management, Standard operating procedures (SOP) for construction works; health and safety (H&S), core labor laws, applicable environmental laws, etc. - Provided training on use of TW, toilet, solar panel and tree plantation etc. during preparation of Community Action Plan (CAP) Inventory Management: Keep records of all solar street light components (panels, batteries, controllers). -Proper Storage: Store damaged or expired components safely in designated areas. -Authorized Disposal: Send batteries, panels, and electronic parts to licensed e-waste recyclers; do not burn or dump. -Staff Training: Train maintenance personnel on the safe handling, segregation, and reporting of e-waste. -Replacement Plan: Establish a system for replacing non-functional components and managing them as e-waste. -Training is a continuous process by Capacity Development Fund of Pourashava. It is financed by IUGIP-III-AF.	Pourashava PRAP budget

- (Construction Phase (For any "negative" impacts "Environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

(ix) Operation Phase/Post-Construction

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water logging in drains and footpaths	(-)	Run-off from debris/ sediments from repair and maintenance of Footpath and drain which may cause siltation and reduction in the quality of adjacent bodies of water. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> - Take all precautions to prevent run-off into streams, water courses, or irrigation system. - Install temporary silt traps or sedimentation basins along drainage leading to the water bodies. - Remove all debris/sediments immediately. - Dispose debris/sediments at a designated site such as landfill. 	PIU, LINIC
Water quality monitoring (Arsenic, Iron, Chloride, Manganese etc.) (twice a year)	(-)	Due to polluted water, people may suffer from dangerous diseases like cholera, dysentery, diarrhea, Gastrointestinal disease and jaundice etc.	Necessary test will be performed occasionally by testing water sample from the tube wells (Pourashava PRAP budget)	PIU, LINIC
Solid Waste management	(-)	<ul style="list-style-type: none"> -Due to open dumping ambient environment will be polluted and will be breeding place of flies -Threat to human health and/or the environment -Due to bad odor, nuisance to sensitive receptors 	<ul style="list-style-type: none"> - There is an existing sanitary landfill (SLF) of the Pourashava under IUGIP-III/AF and the waste management system will be connected with this system obviously. - The waste will soon be carried to the proposed SLF by Pourashava SWM system - Develop rodent and fly control plan - Ensure residual waste is not left in bins and allowed to decompose for a long time 	PIU/LINIC
Community H & S - Walkway/drain - Toilet conditions - Drinking water quality (Tube well)	(-)	<ul style="list-style-type: none"> - The inhabitants may dump waste on the walkway - Bricks used in BFS, may be stolen when CC will wear out with the passage of time - Inadequate supply of water to toilet may spread bad odor - Improper use may spread germ - Irregular cleaning may create unhygienic condition - Epidemic may spread due to deteriorated quality of water 	<ul style="list-style-type: none"> - Awareness to the inhabitants to discourage dumping of waste on the walkway - Ensure routine maintenance by the LINIC - Continuous supply of water will be provided - Awareness to user for proper use of latrine - LINIC will engage a person to clean and maintenance of Toilet and tube well regularly - Periodic maintenance of Tube well and Toilet will be done by Pourashava PRAP budget -Inspect soak well periodically to determine filling levels. -Scheduled Desludging: Arrange timely desludging before overflow occurs. --Use mechanical desludging systems instead of manual entry.Follow confined-space entry protocols if entry is unavoidable. -Train workers on safe handling of human waste and emergency procedures. -Transport and dispose of sludge only at approved treatment facilities 	PIU/LINIC
Dustbin	(-)	<ul style="list-style-type: none"> - Improper use of dustbins - Irregular cleaning of dustbin may create bad odor and birth place of flies 	<ul style="list-style-type: none"> - Awareness to the LIN dwellers for proper use of dustbins - LINIC will engage a person who will monitor the cleaning the dustbin regularly 	PIU/LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well,	(+)	Increase environmental awareness among the community	Twice a year Training/workshop/ meeting for maintenance of TW, Toilet, Planted Tree and Solar panel will be organized by LINIC/PIU and financed by Pourashava PRAP fund.	Pourashava PRAP budget

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Toilet, Planted Tree, Solar Panel)			<ul style="list-style-type: none"> -Provided training on maintenance of TW, toilet and Planted Tree, solar panel during preparation of Community Action Plan (CAP) Inventory Management: Keep records of all solar street light components (panels, batteries, controllers). -Proper Storage: Store damaged or expired components safely in designated areas. -Authorized Disposal: Send batteries, panels, and electronic parts to licensed e-waste recyclers; do not burn or dump. -Staff Training: Train maintenance personnel on the safe handling, segregation, and reporting of e-waste. -Replacement Plan: Establish a system for replacing non-functional components and managing them as e-waste. -Regular maintenance of planted tree by LIN dwellers 	

- (Operation Phase (For any "negative" impacts "environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

g. Environmental Management Plan (EMP)

(x) Monitoring Plan (Construction and Operation Period)

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
Water quality	<ul style="list-style-type: none"> -Contamination (Arsenic, Iron, Chloride, Manganese etc.) or degrading of water quality of drinking water well -Contamination (DO, BOD, COD, TDS, TSS, Turbidity etc.) or degrading of water quality of surface water 	<ul style="list-style-type: none"> -Water quality of tube well will be tested after installation/construction by LINIC and it is included in engineering estimate (Item LGED rate schedule) -Water quality of Tube well will be monitored periodically and DoE standard will be maintained properly. -The outlet of household waste water would be connected with Pourashava existing drain -PIU/LINIC will strongly monitoring the performance of the interventions 	Twice a year/Yearly Operation /completion work	Pourashava
Dust from drains, footpaths, toilets, street light, dustbins and tube well	<ul style="list-style-type: none"> -Air and noise pollution may occur due to construction/operation -Irregular cleaning may damage the interventions 	<ul style="list-style-type: none"> -Use tarpaulins to cover soils, sand and other loose material. -Water will be sprayed to control the dust when necessary -Regular maintenance/cleaning -PIU/LINIC will strongly monitoring the performance of the interventions 	As per necessary	PIU/LINIC
Acoustic environment	Temporary increase in noise level and vibrations. The impacts are negative but short-term, site-specific within a	Plan activities in consultation with Pourashava local authority so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance.	No need for noise quality monitoring due to short-term project	Pourashava

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
	relatively small area and reversible by mitigation measures.			
Biodiversity	Activities in the built-up area of Pourashava. There are no protected areas in or around Sub-project sites, and no known areas of ecological interest.	<ul style="list-style-type: none"> No trees, shrubs, or groundcover may be removed or vegetation stripped without the prior permission. Prevent workers or any other person from removing and damaging any flora (plant/vegetation) and fauna (animal). 	No need for monitoring due to short-term project	Pourashava
Existing provisions for pedestrians and other forms of transport	Footpath closure is not anticipated. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> Maintain safe passage for pedestrians during maintenance activities. Notify affected sensitive receptors by providing sign boards informing nature and duration of maintenance activities and contact numbers for concerns/complaints. Leave spaces for access between mounds of soil. Ensure any damage to properties and utilities will be restored or compensated to pre-work conditions. 	Duration of construction works	Pourashava
Worker's health and safety	Workers need to be mindful of the occupational hazards working in confined spaces such as closed drains. Potential impacts are negative and long-term but reversible by mitigation measures.	<ul style="list-style-type: none"> Comply with requirements of Government of Bangladesh Labor Law of 2006, Labor Law services rule 2015 and all applicable laws and standards on workers H&S. Ensure adequate safety and provisions as per the Annex 8 in relation to the COVID-19. Ensure that all site personnel have a basic level of H&S training. Produce and implement a O&M and H&S plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use personal protective equipment (reflectorized vests, footwear, gloves, goggles and masks) at all times; (iii) providing H&S training for all site personnel; (iv) providing fire extinguisher at construction site Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. 	Duration of construction works	Pourashava/LINIC

h. Public Consultations

68. A public consultation meeting was held at Radhikaganj LIN on 24 December 2024. A total of 35 participants attended the meeting where 29 were female, and the remaining were male (06 persons). SIC members, teachers, counselors, farmers, female workers, housewives, and small business holders were present in the meetings. The safeguarding team of PRS-UGIIP visited the slum of the Paurashava. Consultants described environmental and social issues in the context of development aspects and potential impacts of the infrastructure development work of the slums. The meeting was presided over by the Executive Engineer of Alamdanga Paurashava

69. Time of Public Consultation

Site : Radhikaganj LIN

Time : 3.00pM

70. Participants of the meeting exchanged views with the safeguard team about their sufferings and the remedial measures to be taken to overcome it. At present the LIN dwellers use hanging and pit latrine, which is a threat to public health and un-hygienic as well. They insisted for a community latrine to overcome it. The drinking water was the burning issue. The water available at the LIN was inadequate and non-potable due to impurities (e.g., excessive iron). They urged for sufficient potable water at their door step. Water logging was an additional problem of the LINs. Their yard inundates during rainy season. It creates an un-hygienic condition of living. They wanted immediate relief from it, through an installation of proper drainage system. Inadequate internal road communication made their livelihood slower. A proper footpath would ease their safe movement. They asked for a proper footpath system in their LIN. There is inadequate dustbin in or around the LINs. As such they cannot dump the waste specially the kitchen waste properly. It creates bad odor and un-hygienic condition in and around the LIN. They wanted installation of dustbins. Inadequate light during night time is an additional problem. Social nuisance creates at it. Pilferage and unsocial activities promote in the dark. The LIN dwellers urged for street lighting system in and around the LINs.
71. Experts discussed regarding safeguard issues; focusing the sub-project components with its importance including socio economic and health hazard. Also discussed, environmental and social impacts and mitigation measures about air, dust, water pollution and waste management.
72. As per discussion and feedback from the SDO and all LINIC members, the LINs were selected through consultation with the local leader/councilors living in the Pourashava area. According to the discussion, the participants appreciated the proposed LIN improvement components, as it will improve the health and sanitation conditions of the LIN which will provide positive socio-economic impact.
73. The LIN dwellers demanded for more latrines and tube wells and also demanded separate latrines for women. The chairman of the meeting in his concluding speech mentioned that as per allocation of fund, elements of the proposed sub-project have been selected by the LIN dwellers. The sites have been selected based on the available space spreading all over the LIN. However, maximum old sites will be used and nobody will be affected. The toilet designs have considered separate unit for the women and it would not be possible to provide individual tube wells and individual toilets. He requested co-operation from the LIN dwellers during construction activities. The meeting was concluded with thanks from the chair to the participants. (Appendix 3).

i. Grievance Redress Mechanism

74. Grievance redress mechanism (GRM) has been established in the Pourashava to redress quickly social, environmental and any other project related grievances from the affected or any aggrieved person/ party with the creation of grievance redress cell (GRC) comprising of:

75. Affected or aggrieved persons will have the flexibility of conveying grievances/ suggestions in writing and dropping them in complaints/suggestion boxes that have already been installed

in the Pourashava or through telephones, e-mails, by post or by writing in the complaint register in the Pourashava office. The cost related to environmental grievance redress are included in social and resettlement cost estimates.

(xi) Grievance Redresses Process

76. **1st Level Grievance:** Names and contact phone numbers of the PIU safeguard focal person will be posted on the construction site at visible location (construction site signboard) to provide first level of contact for quick resolution of the grievances. The LINIC and the PIU safeguard focal person can immediately resolve on-site the grievances in consultation with each other within 7 days of receipt of a complaint/ grievance.
77. **2nd Level Grievance:** The grievances that cannot be redressed within 7 days at field/ ward level will be reviewed by the grievance redress cell (GRC) with support from PIU designated safeguard focal person and MDSC regional environment and resettlement specialists. The GRC will attempt to resolve the complaints/ grievances within 15 days.
78. **3rd Level Grievance:** The PIU designated safeguard focal person will refer the unresolved or, the major issues to the PMU safeguard officer and MDSC safeguard specialists. The PMU, in consultation with the above-mentioned officer/ specialists, will resolve the issues within 30 days. Despite project GRM, an aggrieved person shall have access to the country's legal system at any stage, and assessing can go parallel.
79. If the GRM cannot resolve the issues, the affected person also can use the ADB Accountability Mechanism (AM) through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB Bangladesh Resident Mission (BRM) in any of the official languages of ADB.

Recordkeeping:

80. Records all grievances including date of receive and detailed contract address of complainant, nature of grievance, agreed corrective actions, and the dates these were affected and final outcomes will be kept by PIU. The grievances recorded and resolved and the outcomes will be displayed/ disclosed in the PMU office, Pourashava office, on the web and reported in the semi-annual monitoring reports.

Periodic review and documentation of lessons learnt:

81. The PMU safeguard officer will periodically review the functioning of the GRM in each Pourashava and record information on the effectiveness of the mechanism.

j. Conclusion

So, there will be no negative impact for the implementation of the sub-project and if there is any that would be very minimum most of which are construction related, localized and for short-term. Moreover, there will be a lot of positive impacts such as: Moreover, there will be a lot of positive impacts such as:

- Environmental & sanitation conditions will be improved.
- LIN dwellers will have comfortable walkway and improved drainage.
- Water-logging will be removed which will eliminate the mosquito breeding resulting the reduction of many diseases including waterborne diseases.
- LIN dwellers will have facilities for pure drinking water and facilities for solid waste disposal.
- There will be savings in the medical treatment cost. Thus, health conditions will be improved etc.

D. Poshuhat LIN (Lot-04): (Ward No. 02)

78. The LIN is situated in ward no. 02. There are 117 families with 610 members, of which 300 are males, and 310 are females. The land area is 60 acres, and the government & local people own the land. Most of LIN dwellers earn their livelihood by physical labor. The average income per head per month is less than BDT 3800.00. Most of the families live in katcha houses. They are deprived of most of the needed basic services. This LIN has an acute problem of inadequate sanitary latrines, inadequate facilities for drinking water, inadequate and deteriorating internal roads/footpaths/walkways, dustbins, street lighting, drains, etc.

Package No: IUGIP/ALAM/SI/01-07/2023
(Lot-04)

a. Location of the LIN

82. The Poshuhat LIN (Lot-04) is situated in ward no. 02 under District of the LIN in the Alamdanga Paurashava map is given below.



b. Description of Interventions

83. A description of the proposed interventions for Poshuhat LIN (Lot-04) LIN is given in Table II.5.

Sl. No.	Name of Package	Financial Year	Name and Number/ Length of Scheme	Unit (m/nos)	Amount TK/ (nos/m)	Quantity	Engineer's Estimated Amount (TK)	Remarks
			Name of LIN: Poshuhat LIN (Lot-04)					
			Name of works: Construction of 02 nos. double unit (type-B) toilet with 08 Nos soak pit, 872 meter of Footpath, 722 meter Brick Drain, 06 numbers of solar street light, 12 numbers hand tubewell with 12 Nos soak pits and 100 Nos Tree Plantation in Poshuhat LIN, at Ward no.-02, under Alamdanga Pourashava, District: Chuadanga.					
1	IUGIP/ALAM/SI/01-07/2023 (Lot-04)	2025-2026	a) Construction of 02 nos. double unit (type-B) toilet with 08 Nos soak pit in Poshuhat LIN area at Alamdanga Pourashava, District: Chuadanga.	nos	395554.34	2	791,108.68	
2			c) Construction of 872m meter footpath in Poshuhat LIN at Alamdanga Pourashava, District: Chuadanga.	m	4465.57	872	3,893,978.40	
3			d) Construction of 722m Brick drain with top slab in Poshuhat LIN at Alamdanga Pourashava, District: Chuadanga.	m	5141.07	722	3,711,849.60	
4			e) Installation of 06 Number solar street light in Poshuhat LIN at Alamdanga Pourashava, District: Chuadanga.	nos	94481.79	6	566,890.74	
5			f) Installation of 12 number tube well with 12 Nos soak pits in Poshuhat LIN at Alamdanga Pourashava, District: Chuadanga.	nos	77914.81	12	934,977.72	
6			g) Plantation of 100 nos. Tree in Poshuhat LIN at Alamdanga Pourashava, District: Chuadanga.	nos	495.00	100	49,500.00	
			Total (Lot-04) Amount =				9,948,305.14	

Table IV.4: Description of Proposed Interventions of LIN

C. Present Condition (Baseline Environment)

(xii) Flooding/Water-clogging

84. Flood does not occur in this LIN. There exist no paved internal drainage systems in the LINs. The existing drains are earthen that are poorly functioning. As the LIN areas are low-lying, heavy rainfall during the rainy season creates water logging. Hence, the construction of drains is necessary to remove water logging conditions in these LINs.

(xiii) Water Source/Level/Quality/Tube well

85. Currently, the LIN people have been suffering from the acute problem of inadequate availability of drinking water. Hence, LIN dwellers have demanded installing no tube well in their area; refer to **Appendix 1** for the typical design of a tube well.

(xiv) Sanitations

86. There is no existing sufficient sanitary toilet facility in the LIN area. LIN dwellers are facing a scarcity of hygienic sanitation; refer to **Figure II.1** for the existing condition of toilet facilities. Hence, they have demanded the construction of 13 nos. of sanitary toilets to improve the sanitation condition of their area. Refer to **Appendix 1** for the typical design of the proposed improved toilet.

(xv) Access Roads/Footpaths

87. There is no existing paved road/walkway in the LIN area. Refer to **Figure II.1** for the existing condition of access roads. LIN dwellers want 872m of footpaths for their improved communication system within the LIN area. The proposed footpaths have been designed with cement concrete (CC) pavement over a prepared sub-base with crushed stone chips and/or Single Layer Brick Flat Soling (BFS). The LIN area is connected to Pourashava roads. A typical design of the footpath is given in **Appendix 1**.

(xvi) Solar Street Lights

88. There are insufficient numbers of street light in this LIN area therefore 06 nos provisions of light are proposed under this package.

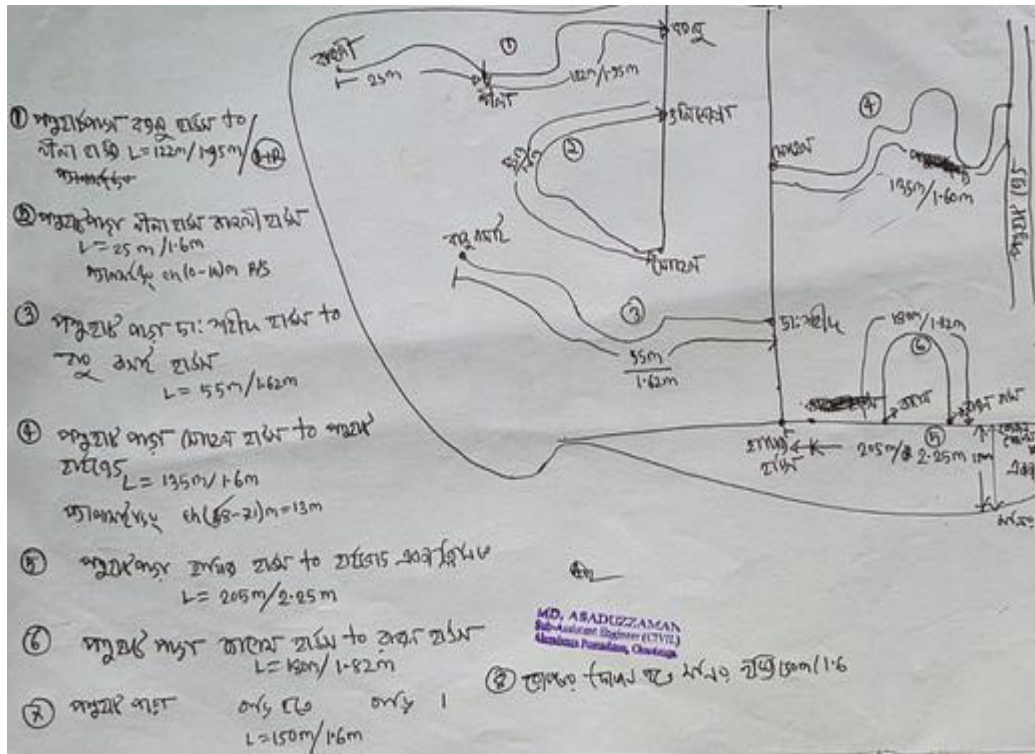
(xvii) Drain

89. The existing drains are earthen and are inactive. So, the LIN dwellers experience water logging especially during rainy season. The out fall of proposed 722m drain is Pura secondary drain to primary drain (Section-3 site map) and because as the coming water to the proposed drain is only from rainfall run-off or household waste water.. But well-defined slopes and outfalls have been ensured. The U-type drains have been designed considering the constraint in land availability. The design life has been considered as 20 years. Integration/connection of Road side drains with the town drainage system has been considered and considering the possibilities of increased precipitation owing to probable climate change, the sections have been designed keeping allowance to accommodate 10% additional flow.



Figure IV.4: Existing Situation at Posuhat LIN

d. Site Map of Poshuhat LIN



e. Baseline Information

90. All LINS fall under a single pourashava, so their baseline profiles are nearly identical, differing only in aspects of Physical Cultural Resources.

91. The key baseline information on the LIN area is depicted in below table:

Sl	Key environmental and social aspects	Key baseline information
1	Noise	Noise pollution is a major constraint to the environmental quality of the study area as there is a highway running alongside it. There are no sources of noise such as local noise, industries, etc.
2	Air	The current air quality in the LIN area of Alamdanga Municipality is moderate with pollution levels that may affect sensitive groups. The air quality in the LIN area of Alamdanga is moderate mainly due to particulate matter emitted from brick kilns, vehicle emissions. The final master plan of the municipality shows that air pollution is a serious environmental concern that is having a favorable impact on many parts of the LIN area of Alamdanga Municipality.
3	Ground water	The water level in Chuadanga district is normal. The average water layer here is 200 feet and clear water is always available here, which does not cause any environmental problems.

4	Surface water	Supriyo water is available in Amdanga Municipality. But the amount of iron in the water is high.
5	Protected Area (PA)	In terms of security, Alamdanga Municipality is a completely safe place with no wildlife nuisance, which has no impact on the projector.
6	Cultural Heritage	In terms of cultural heritage, Alamdanga Upazila has some Baul music tradition and the people here retain these cultural aspects. Religious and cultural aspects are given great importance.
7	Physical Cultural Resources	Located in Alamdanga Upazila of Chuadanga District, Bangladesh, it is rich in both physical (natural environment, geography, natural resources) and cultural (various ethnic communities, traditions, religious sites) resources.

f. Environmental Impact Assessment and Mitigation

92. (The review process will be greatly facilitated by comprehensive and detailed answers in this section. When completing this section, please state a specific reason [i.e., “there will be no impacts to environment because this project will not involve any disturbance”] and cite a source [i.e., local master plan, previous environmental assessment, correspondence with Pourashava Office, etc.] to support a response of “no impact (-)” or “potential to impact (+).”)
93. The LIN toilets are being considered with two types of design: (i) Type A, and (ii) Type B. Type A is considered with septic tank whereas Type B considered with pit along with soak pit. The note from the Pourashava engineers taken that in many of the LIN area there is shortage of space for constructing septic tank where soak pit is designed with the pit. However, such soak pit has mitigation measure for ground or surface water contamination (e.g., sand and brick chips envelope on the bottom of pit). Moreover, municipality will ensure good maintenance for such toilets having soak pit.
94. The demolition, construction, and waste management activities in the LIN area may generate several short-term and localized environmental impacts. Dust from demolition, debris movement, and broken footpaths can impair air quality, while demolition and temporary camps may create unhygienic conditions. Noise from demolition is minimal. Since project activities are scattered and not near water bodies, the likelihood of surface or groundwater pollution is low. Pollution from construction work yards is minimal, requiring only limited environmental monitoring. Finally, urban construction activities such as excavation and earthmoving carry inherent occupational safety risks, particularly related to working at heights or in excavated areas, though these risks are reversible with proper mitigation.

(xviii) Pre-construction and Construction Phase

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Demolition of existing infrastructure: - Dust from demolition - Noise from demolition - Waste from demolition -Un-hygiene of demolition	(-)	-Different activities regarding the demolishing the existing structure (part) and broken footpath generate dust which impair the air quality -Unhygienic/unsanitary environment due to demolition of old/poor infrastructure and construction of camps in the development site -Creation of noise from demolition is negligible	-Water will be sprayed to control the dust, which is the main way to suppress dust in the working site as per necessary Appendix-2 EMP cost. -Apply water to disturbed soils after demolition is completed or at the end of each day of cleanup. - Transport/handle debris from demolished infrastructures in a hygienic manner. -Tree plantation at the LIN boundary/open space/slope on the basis of space availability -Collection of construction debris and dispose in a hygienic way by LINIC and it is included in engineering estimate item (LGED rate schedule) -PIU/LINIC will strongly monitoring the construction activity and instant action will take.	PIU, LINIC
Dust Management	(-)	-Moving debris/sediments may create dusts during dry season. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures	- Use tarpaulins to cover soils, sand and other loose material. - Water will be sprayed to control the dust when necessary	PIU, LINIC
Community facilities and services - Blockage to access roads - Fire & Safety	(-)	- Construction works will impede the access of residents and businesses in limited cases. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures. Poor safety signage and lack of barriers at work site and trenches will create hazard to pedestrians and children. - Chances of fire only from open cooking in the area which may create major loss of property to the residence in the LIN.	-Provide safety signage at all sites visible to public that is monitored by PIU/LINIC and it will be confirmed in semi-annual monitoring report -Provide safety barriers near any trenches, and cover trenches with planks during non-work hours. -LINIC's activities and movement of staff will be restricted to designated construction areas. -Consult with Pourashava local authority on the designated areas for stockpiling of, soils, gravel, and other construction materials. -If the LINIC chooses to locate the work camp/storage area on private land, he must get prior permission from the environment management specialist and landowner. -Recycling and the provision of separate waste receptacles for different types of waste shall be encouraged. -Workers need to be made aware of the following general rules: (i) no alcohol/drugs on site; (ii) prevent excessive noise; (iii) construction workers are to make use of the facilities provided for them; (iv) no fires permitted on site except if needed for the construction works; and (v) no worker may be forced to do work that is potentially dangerous or that he/she is not trained to do. - Bucket filled with sand will be kept at the construction zone.	PIU, LINIC
Air/water/noise quality monitoring	(-)	- Component of works are scattered in the LIN area, which are not located near-by any water stream/canal. There stands little probability of surface and ground water pollution, as nothing like gasoline, oil, road salts and chemicals are dumped on the adjoining ground.	- No need for Air/water/noise quality monitoring in construction area by test due to short-term effect. - Water will be sprayed to control the dust, when necessary, it will be visually observed	Not required

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
		- Construction work yards are located in small areas and its activities are also minimum. Here the intensity of pollution from air/dust/ noise is also very low and short-term. As such little monitoring of water/air/noise pollution parameters is needed at the surroundings work place.		
Drainage congestion/water logging	(-)	- Clogging/stagnation of flow in the storm drain, source of waste water is LIN dweller used water (bathing and washing) - Backflow of water through drain (e.g., due to high water level at downstream discharge point, such as khal/ river) - Drainage congestion/water logging due to cross road/construction activity	-Designing drain considering the downstream discharge point; adequate slope and x-section; RCC cover for drain, where appropriate - Not allowing direct connection to drain from toilet -The out fall of proposed drain is primary to secondary drain and water quality will be monitoring as per necessary (in Appendix-2 EMP cost)	PIU, LINIC
Waste Management	(-)	- Uncollected wastes blocked the drainage and sewage system. - Air, water and soil pollution during the waste collection - Smoke from the open burning of uncollected waste. - The loading and unloading of waste at transfer station pollutes the air and soil. - Odor from waste disposal site and composting system. - Contamination of ground water by leachate.	- Follow the waste management plan given in Appendix 4 during construction period. - Encourage 3R (reduce, reuse, and recycle) - Encourage composting of kitchen waste on the basis of land availability otherwise transfer waste by hand trolley/van that is available in Pourashava and it is inspired by EMP implementation training - Adequate distance between waste bin and water body. - Adequate distance should be maintained between the waste collection point and house - Coordinate with the municipality for collection of domestic waste and disposal at the designated site	PIU/LINIC
Workers H & S	(-)	-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 in height and excavation works. Potential impacts are negative and long-term but reversible by mitigation measures.	- Comply with requirements of GoB Labor Law of 2006, Labor law and services rules 2015 and all applicable laws and standards on workers H & S. - Ensure adequate safety and provisions as per the Appendix 5 in relation to the COVID-19. - Produce and implement a site health and safety (H&S) plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use PPE at all times; (iii) providing (H&S) training for all site personnel; (iv) Providing fire extinguisher at construction site (v) documenting procedures to be followed for all site activities; and (vi) maintaining accident reports and records. - Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances. -Ensure (i) uncontaminated water for drinking, cooking and washing, (ii) clean eating areas where workers are not exposed to hazardous or noxious substances; and (iii) sanitation facilities are available at all times.	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
			- Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;	
Sanitation/excreta management	(-)	-Noise and soil pollution during the construction but short- term -Microbial contamination to the ground water from the pit latrine. -Waste during loading of sewage from the sanitary communal containers. -Odor	-Design and installation of sanitary toilet to stop the microbial contamination to the ground water. -Adequate height with proper ventilation. -Water supply and hand wash facility -Regular cleaning and monitoring -5-10m distance should be maintained between toilet and tube-well	PIU, LINIC
Water supply (Tube well)	(-)	-Noise, dust and soil pollution during the construction but short- term	-The digging of soil should follow the proper design to avoid the pollution and water logging -The outlet of tube well should be connected with soak pit to existing drain. -A person has been engaged for cleaning and maintenance of Tube well. -One set of maintenance equipment of Tube well is kept with LINIC selected person.	PIU, LINIC
Footpath/connecting Road	(-)	-Dust and noise pollution from construction work	-Watering to reduce dust -Tree plantation on the footpath/road slope	PIU, LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the construction workers	-LINIC and all workers will be required to undergo EMP implementation including waste management, Standard operating procedures (SOP) for construction works; health and safety (H&S), core labor laws, applicable environmental laws, etc. - Provided training on use of TW, toilet, solar panel and tree plantation etc. during preparation of Community Action Plan (CAP) -Training is a continuous process by Capacity Development Fund of Pourashava. It is financed by IUGIP-III-AF.	Pourashava PRAP budget

- (Construction Phase (For any "negative" impacts "Environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

(xix) Operation Phase/Post-Construction

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water logging in drains and footpaths	(-)	Run-off from debris/ sediments from repair and maintenance of Footpath and drain which may cause siltation and reduction in the quality of adjacent bodies of water. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	- Take all precautions to prevent run-off into streams, water courses, or irrigation system. Install temporary silt traps or sedimentation basins along drainage leading to the water bodies. - Remove all debris/sediments immediately. - Dispose debris/sediments at a designated site such as landfill.	PIU, LINIC

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water quality monitoring (Arsenic, Iron, Chloride, Manganese etc.) (twice a year)	(-)	Due to polluted water, people may suffer from dangerous diseases like cholera, dysentery, diarrhea, Gastrointestinal disease and jaundice etc.	Necessary test will be performed occasionally by testing water sample from the tube wells (Pourashava PRAP budget)	PIU, LINIC
Solid Waste management	(-)	-Due to open dumping ambient environment will be polluted and will be breeding place of flies -Threat to human health and/or the environment -Due to bad odor, nuisance to sensitive receptors	- There is an existing sanitary landfill (SLF) of the Pourashava under IUGIP-III/AF and the waste management system will be connected with this system obviously. - The waste will soon be carried to the proposed SLF by Pourashava SWM system - Develop rodent and fly control plan - Ensure residual waste is not left in bins and allowed to decompose for a long time	PIU/LINIC
Community H & S - Walkway/drain - Toilet conditions - Drinking water quality (Tube well)	(-)	- The inhabitants may dump waste on the walkway - Bricks used in BFS, may be stolen when CC will wear out with the passage of time - Inadequate supply of water to toilet may spread bad odor - Improper use may spread germ - Irregular cleaning may create unhygienic condition - Epidemic may spread due to deteriorated quality of water	- Awareness to the inhabitants to discourage dumping of waste on the walkway - Ensure routine maintenance by the LINIC - Continuous supply of water will be provided - Awareness to user for proper use of latrine - LINIC will engage a person to clean and maintenance of Toilet and tube well regularly - Periodic maintenance of Tube well and Toilet will be done by Pourashava PRAP budget -Inspect soak well periodically to determine filling levels. -Scheduled Desludging: Arrange timely desludging before overflow occurs. --Use mechanical desludging systems instead of manual entry.Follow confined-space entry protocols if entry is unavoidable. -Train workers on safe handling of human waste and emergency procedures. -Transport and dispose of sludge only at approved treatment facilities	PIU/LINIC
Dustbin	(-)	- Improper use of dustbins - Irregular cleaning of dustbin may create bad odor and birth place of flies	- Awareness to the LIN dwellers for proper use of dustbins - LINIC will engage a person who will monitor the cleaning the dustbin regularly	PIU/LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the community	-Twice a year Training/workshop/ meeting for maintenance of TW, Toilet, Planted Tree and Solar panel will be organized by LINIC/PIU and financed by Pourashava PRAP fund. -Provided training on maintenance of TW, toilet and Planted Tree, solar panel during preparation of Community Action Plan (CAP) -Inventory Management: Keep records of all solar street light components (panels, batteries, controllers). -Proper Storage: Store damaged or expired components safely in designated areas. -Authorized Disposal: Send batteries, panels, and electronic parts to licensed e-waste recyclers; do not burn or dump. -Staff Training: Train maintenance personnel on the safe handling, segregation, and reporting of e-waste.	Pourashava PRAP budget

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
			-Replacement Plan: Establish a system for replacing non-functional components and managing them as e-waste. -Regular maintenance of planted tree by LIN dwellers	

- (Operation Phase (For any "negative" impacts "environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

g. Environmental Management Plan (EMP)

(xx) Monitoring Plan (Construction and Operation Period)

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
Water quality	-Contamination (Arsenic, Iron, Chloride, Manganese etc.) or degrading of water quality of drinking water well -Contamination (DO, BOD, COD, TDS, TSS, Turbidity etc.) or degrading of water quality of surface water	-Water quality of tube well will be tested after installation/construction by LINIC and it is included in engineering estimate (Item LGED rate schedule) -Water quality of Tube well will be monitored periodically and DoE standard will be maintained properly. -The outlet of household waste water would be connected with Pourashava existing drain -PIU/LINIC will strongly monitoring the performance of the interventions	Twice a year/Yearly Operation /completion work	Pourashava
Dust from drains, footpaths, toilets, street light, dustbins and tube well	-Air and noise pollution may occur due to construction/operation -Irregular cleaning may damage the interventions	-Use tarpaulins to cover soils, sand and other loose material. -Water will be sprayed to control the dust when necessary -Regular maintenance/cleaning -PIU/LINIC will strongly monitoring the performance of the interventions	As per necessary	PIU/LINIC
Acoustic environment	Temporary increase in noise level and vibrations. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	Plan activities in consultation with Pourashava local authority so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance.	No need for noise quality monitoring due to short-term project	Pourashava
Biodiversity	Activities in the built-up area of Pourashava. There are no protected areas in or around Sub-project sites, and no known areas of ecological interest.	<ul style="list-style-type: none"> No trees, shrubs, or groundcover may be removed or vegetation stripped without the prior permission. Prevent workers or any other person from removing and damaging any flora (plant/vegetation) and fauna (animal). 	No need for monitoring due to short-term project	Pourashava
Existing provisions for pedestrians and other forms of transport	Footpath closure is not anticipated. The impacts are negative but short-term, site-	<ul style="list-style-type: none"> Maintain safe passage for pedestrians during maintenance activities. Notify affected sensitive receptors by providing sign boards informing nature and duration of maintenance activities and contact numbers for concerns/complaints. 	Duration of construction works	Pourashava

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
	specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> • Leave spaces for access between mounds of soil. • Ensure any damage to properties and utilities will be restored or compensated to pre-work conditions. 		
Worker's health and safety	Workers need to be mindful of the occupational hazards working in confined spaces such as closed drains. Potential impacts are negative and long-term but reversible by mitigation measures.	<ul style="list-style-type: none"> • Comply with requirements of Government of Bangladesh Labor Law of 2006, Labor Law services rule 2015 and all applicable laws and standards on workers H&S. • Ensure adequate safety and provisions as per the Annex 8 in relation to the COVID-19. • Ensure that all site personnel have a basic level of H&S training. • Produce and implement a O&M and H&S plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use personal protective equipment (reflectorized vests, footwear, gloves, goggles and masks) at all times; (iii) providing H&S training for all site personnel; (iv) providing fire extinguisher at construction site • Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances • Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. 	Duration of construction works	Pourashava/LINIC

h. Public Consultations

95. A public consultation meeting was held at Poshuhat LIN on 29 december 2024. A total of 40 participants attended the meeting where 30 were female. SIC members, teachers, counselors, farmers, female workers, housewives, and small business holders were present in the meetings. The safeguarding team of PRS-UGIIP visited the slum of the Paurashava. Consultants described environmental and social issues in the context of development aspects and potential impacts of the infrastructure development work of the slums. The meeting was presided over by the Executive Engineer of Alamdanga Paurashava.

Minutes of Public Consultation

Site : Poshuhat LIN

Time : 12:00 PM

96. Participants of the meeting exchanged views with the safeguard team about their sufferings and the remedial measures to be taken to overcome it. At present the LIN dwellers use hanging and pit latrine, which is a threat to public health and un-hygienic as well. They insisted for a community latrine to overcome it. The drinking water was the burning issue. The water available at the LIN was inadequate and non-potable due to impurities (e.g., excessive iron). They urged for sufficient potable water at their door step. Water logging was an additional problem of the LINs. Their yard inundates during rainy season. It creates an un-hygienic condition of living. They wanted immediate relief from it, through an installation of proper drainage system. Inadequate internal road communication made their livelihood slower. A proper footpath would ease their safe movement. They asked for a proper footpath system in their LIN. There is inadequate dustbin in or around the LINs. As such they cannot dump the waste specially the kitchen waste properly. It creates bad odor and un-hygienic condition in and around the LIN. They wanted installation of dustbins. Inadequate light during night time is an additional problem. Social nuisance creates at it. Pilferage and unsocial activities promote in the dark. The LIN dwellers urged for street lighting system in and around the LINs.
97. Experts discussed regarding safeguard issues; focusing the sub-project components with its importance including socio economic and health hazard. Also discussed, environmental and social impacts and mitigation measures about air, dust, water pollution and waste management.
98. As per discussion and feedback from the SDO and all LINIC members, the LINs were selected through consultation with the local leader/councilors living in the Pourashava area. According to the discussion, the participants appreciated the proposed LIN improvement components, as it will improve the health and sanitation conditions of the LIN which will provide positive socio-economic impact.
99. The LIN dwellers demanded for more latrines and tube wells and also demanded separate latrines for women. The chairman of the meeting in his concluding speech mentioned that as per allocation of fund, elements of the proposed sub-project have been selected by the LIN dwellers. The sites have been selected based on the available space spreading all over the LIN. However, maximum old sites will be used and nobody will be affected. The toilet designs have considered separate unit for the women and it would not be possible to provide individual tube wells and individual toilets. He requested co-operation from the LIN dwellers during construction activities. The meeting was concluded with thanks from the chair to the participants. (Appendix 3).

i. Grievance Redress Mechanism

100. Grievance redress mechanism (GRM) has been established in the Pourashava to redress quickly social, environmental and any other project related grievances from the affected or any aggrieved person/ party with the creation of grievance redress cell (GRC) comprising of:
101. Affected or aggrieved persons will have the flexibility of conveying grievances/ suggestions in writing and dropping them in complaints/suggestion boxes that have already been installed in the Pourashava or through telephones, e-mails, by post or by writing in the complaint register in the Pourashava office. The cost related to environmental grievance redress are included in social and resettlement cost estimates.

j. Grievance Redresses Process

102. **1st Level Grievance:** Names and contact phone numbers of the PIU safeguard focal person will be posted on the construction site at visible location (construction site signboard) to provide first level of contact for quick resolution of the grievances. The LINIC and the PIU safeguard focal person can immediately resolve on-site the grievances in consultation with each other within 7 days of receipt of a complaint/ grievance.

2nd Level Grievance: The grievances that cannot be redressed within 7 days at field/ ward level will be reviewed by the grievance redress cell (GRC) with support from PIU designated safeguard focal person and MDSC regional environment and resettlement specialists. The GRC will attempt to resolve the complaints/ grievances within 15 days.

3rd Level Grievance: The PIU designated safeguard focal person will refer the unresolved or, the major issues to the PMU safeguard officer and MDSC safeguard specialists. The PMU, in consultation with the above-mentioned officer/ specialists, will resolve the issues within 30 days. Despite project GRM, an aggrieved person shall have access to the country's legal system at any stage, and assessing can go parallel.

If the GRM cannot resolve the issues, the affected person also can use the ADB Accountability Mechanism (AM) through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB Bangladesh Resident Mission (BRM) in any of the official languages of ADB.

Recordkeeping:

103. Records all grievances including date of receive and detailed contract address of complainant, nature of grievance, agreed corrective actions, and the dates these were affected and final outcomes will be kept by PIU. The grievances recorded and resolved and the outcomes will be displayed/ disclosed in the PMU office, Pourashava office, on the web and reported in the semi-annual monitoring reports.

Periodic review and documentation of lessons learnt: The PMU safeguard officer will periodically review the functioning of the GRM in each Pourashava and record information on the effectiveness of the mechanism.

k. Conclusion

104. So, there will be no negative impact for the implementation of the sub-project and if there is any that would be very minimum most of which are construction related, localized and for short-term. Moreover, there will be a lot of positive impacts such as: Moreover, there will be a lot of positive impacts such as:

- Environmental & sanitation conditions will be improved.
- LIN dwellers will have comfortable walkway and improved drainage.
- Water-logging will be removed which will eliminate the mosquito breeding resulting the reduction of many diseases including waterborne diseases.
- LIN dwellers will have facilities for pure drinking water and facilities for solid waste disposal.
- There will be savings in the medical treatment cost. Thus, health conditions will be improved etc.

E. Gobindapur Khandakar Para LIN (Lot-05) :(Ward No. 06)

105. The LIN is situated in ward no. 06. There are 115 families with 580 members, of which 280 are males, and 300 are females. The land area is 60 acres, and the government & local people own the land. Most of LIN dwellers earn their livelihood by physical labor. The average income per head per month is less than BDT 3800.00. Most of the families live in katcha houses. They are deprived of most of the needed basic services. This LIN has an acute problem of inadequate sanitary latrines, inadequate facilities for drinking water, inadequate and deteriorating internal roads/footpaths/walkways, dustbins, street lighting, drains, etc.

Package No IUGIP/ALAM/SI/01-05/2023
(Lot-05)

a. Location of the LIN

103. Gobindapur Khandakar Para LIN is situated in ward no. 06 under Alamdanga Paurashava of Alamdanga District; for the location of the slum in the Alamdanga Paurashava map is given below.



b. Description of Interventions

103. Description of the Gobindapur Khandakar Para LIN proposed interventions for LIN is given in Table IV.9.

Table IV.5: Description of Proposed Interventions of LIN

Sl. No.	Name of Package	Financial Year	Name and Number/ Length of Scheme	Unit (m/nos)	Amount TK/ (nos/m)	Quantity	Engineer's Estimated Amount (TK)	Remarks	
	IUGIP/ALAM/SI/01-07/2023 (Lot-05)	2025-2026	Name of LIN: Gobindapur Khandakar Para LIN (Lot-05)						
			Name of works: Construction of 03 Nos Double unit (type-B) toilets with 12 Nos soak pits, 809meter of Footpath, 339 meter Brick Drain, 10 numbers of solar street light, 14 numbers hand tubewell with 14 Nos soak pits, 100 Nos Tree Plantation in Gobindapur Khandakar Para Lin at Ward no.-06, under Alamdanga Pourashava, District: Chuadanga.						
1			a 2)	Construction of 03 nos. double unit (type-B) toilet with 12 Nos soak pit in Gobindapur Khandakar Para area at Alamdanga Pourashava, District: Chuadanga.	nos	395554.34	3	1,186,663.02	
2			c)	Construction of 809m meter footpath in Gobindapur Khandakar Para at Alamdanga Pourashava, District: Chuadanga.	m	6217.22	809	5,029,732.42	
3			d)	Construction of 339m Brick drain with top slab in Gobindapur Khandakar Para at Alamdanga Pourashava, District: Chuadanga.	m	4820.40	339	1,634,115.98	
4			e)	Installation of 10 Number solar street light in Gobindapur Khandakar Para at Alamdanga Pourashava, District: Chuadanga.	nos	94481.79	10	944,817.90	
5			f)	Installation of 14 number tube well with 14 Nos soak pits in Gobindapur Khandakar Para at Alamdanga Pourashava, District: Chuadanga.	nos	77914.81	14	1,090,807.34	
6	g)	Plantation of 100 nos. Tree in Gobindapur Khandakar Para at Alamdanga Pourashava, District: Chuadanga.	nos	495.00	100	49,500.00			
			Total (Lot-05) Amount =				9,935,636.66		

C. Present Condition (Baseline Environment)

Flooding/Water-clogging

104. Flood does not occur in this slum. There exist no paved internal drainage systems in the LIN. The existing drains are earthen that are poorly functioning. As the slum areas are low-lying, heavy rainfall during the rainy season creates water logging. Hence, the construction of drains is necessary to remove water logging conditions in these LIN.

Water Source/Level/Quality/Tube well

105. Currently, the slum people have been suffering from the acute problem of inadequate availability of drinking water. Hence, slum dwellers have demanded installing 14 tube well in their area; refer to Appendix 1 for the typical design of a tube well.

Sanitations

106. There is insufficient toilets facility in the LIN area. LIN dwellers do not have enough hygienic sanitation. There is a 03 Nos proposal sanitation improvement within the LIN area.

Access Roads/Footpaths

107. There is existing earth road are poor condition in the LIN area. LIN dwellers wanted footpath for their communication within the LIN area. The proposed footpaths have been designed with cement concrete (CC) with crushed stone chips and over Single Layer Brick Flat Soling (BFS). 809m of footpaths are being proposed in this proposal.

Solar Street Lights

108. There are insufficient numbers of street light in this LIN area therefore 10 nos provisions of light are proposed under this package.

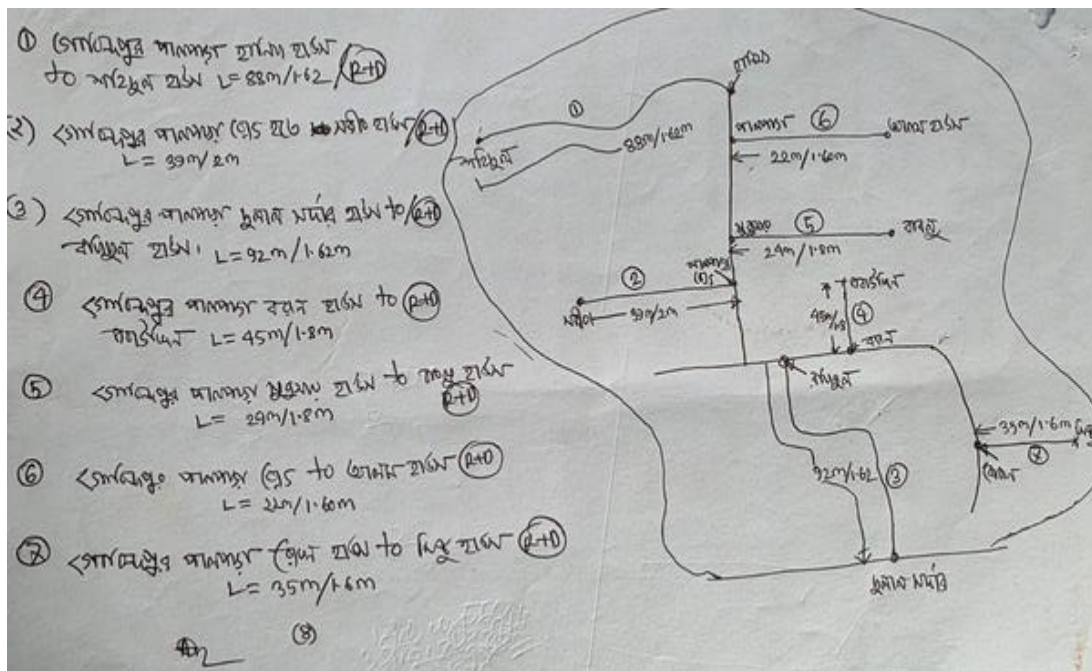
Drain

109. The existing drains are earthen and are inactive. So, the LIN dwellers experience water logging especially during rainy season. The out fall of proposed drain 339m is Poura secondary drain to primary drain (Section-3 site map) and because as the coming water to the proposed drain is only from rainfall run-off or household waste water. All drains have been designed to be built by RCC/brick. But well-defined slopes and outfalls have been ensured. The U-type drains have been designed considering the constraint in land availability. The design life has been considered as 20 years. Integration/connection of Road side drains with the town drainage system has been considered and considering the possibilities of increased precipitation owing to probable climate change, the sections have been designed keeping allowance to accommodate 10% additional flow.



Figure IV.5: Existing Situation at Gobindapur Khandakar Para LIN

d. Site Map of Gobindapur Khandakar Para LIN



e. Baseline information:

All LINS fall under a single pourashava, so their baseline profiles are nearly identical, differing only in aspects of Physical Cultural Resources.

110. The key baseline information on the Tanki Pahar LIN area is depicted in below table

SI	Key environmental and social aspects	Key baseline information
1	Noise	Noise pollution is a major constraint to the environmental quality of the study area as there is a highway running alongside it. There are no sources of noise such as local noise, industries, etc.
2	Air	The current air quality in the LIN area of Alamdanga Municipality is moderate with pollution levels that may affect sensitive groups. The air quality in the LIN area of Alamdanga is moderate mainly due to particulate matter emitted from brick kilns, vehicle emissions. The final master plan of the municipality shows that air pollution is a serious environmental concern that is having a favorable impact on many parts of the LIN area of Alamdanga Municipality.
3	Ground water	The water level in Chuadanga district is normal. The average water layer here is 200 feet and clear water is always available here, which does not cause any environmental problems.
4	Surface water	Supriyo water is available in Amdanga Municipality. But the amount of iron in the water is high.
5	Protected Area (PA)	In terms of security, Alamdanga Municipality is a completely safe place with no wildlife nuisance, which has no impact on the projector.
6	Cultural Heritage	In terms of cultural heritage, Alamdanga Upazila has some Baul music tradition and the people here retain these cultural aspects. Religious and cultural aspects are given great importance.
7	Physical Cultural Resources	Located in Alamdanga Upazila of Chuadanga District, Bangladesh, it is rich in both physical (natural environment, geography, natural resources) and cultural (various ethnic communities, traditions, religious sites) resources.

f. Environmental Impact Assessment and Mitigation

111. (The review process will be greatly facilitated by comprehensive and detailed answers in this section. When completing this section, please state a specific reason [i.e., “there will be no impacts to environment because this project will not involve any disturbance”] and cite a source [i.e., local master plan, previous environmental assessment, correspondence with Pourashava Office, etc.] to support a response of “no impact (-)” or “potential to impact (+).”
112. The LIN toilets are being considered with two types of design: (i) Type A, and (ii) Type B. Type A is considered with septic tank whereas Type B considered with pit along with soak pit. The note from the Pourashava engineers taken that in many of the LIN area there is shortage of space for constructing septic tank where soak pit is designed with the pit. However, such soak pit has mitigation measure for ground or surface water contamination (e.g., sand and brick chips envelope on the bottom of pit). Moreover, municipality will ensure good maintenance for such toilets having soak pit.
113. The demolition, construction, and waste management activities in the LIN area may generate several short-term and localized environmental impacts. Dust from demolition, debris movement, and broken footpaths can impair air quality, while demolition and temporary camps may create unhygienic conditions. Noise from demolition is minimal. Since project activities are scattered and not near water bodies, the likelihood of surface or groundwater pollution is low. Pollution from construction work yards is minimal, requiring only limited environmental monitoring. Finally, urban construction activities such as excavation and earthmoving carry inherent occupational safety risks, particularly related to working at heights or in excavated areas, though these risks are reversible with proper mitigation.

Pre-construction and Construction Phase

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Demolition of existing infrastructure: - Dust from demolition - Noise from demolition - Waste from demolition -Un-hygiene of demolition	(-)	-Different activities regarding the demolishing the existing structure (part) and broken footpath generate dust which impair the air quality -Unhygienic/unsanitary environment due to demolition of old/poor infrastructure and construction of camps in the development site -Creation of noise from demolition is negligible	-Water will be sprayed to control the dust, which is the main way to suppress dust in the working site as per necessary Appendix-2 EMP cost. -Apply water to disturbed soils after demolition is completed or at the end of each day of cleanup. - Transport/handle debris from demolished infrastructures in a hygienic manner. -Tree plantation at the LIN boundary/open space/slope on the basis of space availability -Collection of construction debris and dispose in a hygienic way by LINIC and it is included in engineering estimate item (LGED rate schedule) -PIU/LINIC will strongly monitoring the construction activity and instant action will take.	PIU, LINIC
Dust Management	(-)	-Moving debris/sediments may create dusts during dry season. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures	- Use tarpaulins to cover soils, sand and other loose material. - Water will be sprayed to control the dust when necessary	PIU, LINIC
Community facilities and services - Blockage to access roads - Fire & Safety	(-)	- Construction works will impede the access of residents and businesses in limited cases. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures. Poor safety signage and lack of barriers at work site and trenches will create hazard to pedestrians and children. - Chances of fire only from open cooking in the area which may create major loss of property to the residence in the LIN.	-Provide safety signage at all sites visible to public that is monitored by PIU/LINIC and it will be confirmed in semi-annual monitoring report -Provide safety barriers near any trenches, and cover trenches with planks during non-work hours. -LINIC's activities and movement of staff will be restricted to designated construction areas. -Consult with Pourashava local authority on the designated areas for stockpiling of, soils, gravel, and other construction materials. -If the LINIC chooses to locate the work camp/storage area on private land, he must get prior permission from the environment management specialist and landowner. -Recycling and the provision of separate waste receptacles for different types of waste shall be encouraged. -Workers need to be made aware of the following general rules: (i) no alcohol/drugs on site; (ii) prevent excessive noise; (iii) construction workers are to make use of the facilities provided for them; (iv) no fires permitted on site except if needed for the construction works; and (v) no worker may be forced to do work that is potentially dangerous or that he/she is not trained to do. - Bucket filled with sand will be kept at the construction zone.	PIU, LINIC
Air/water/noise quality monitoring	(-)	- Component of works are scattered in the LIN area, which are not located near-by any water stream/canal. There stands little probability of surface and ground water pollution, as nothing like gasoline, oil, road salts and chemicals are dumped on the adjoining ground.	- No need for Air/water/noise quality monitoring in construction area by test due to short-term effect. - Water will be sprayed to control the dust, when necessary, it will be visually observed	Not required

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
		- Construction work yards are located in small areas and its activities are also minimum. Here the intensity of pollution from air/dust/ noise is also very low and short-term. As such little monitoring of water/air/noise pollution parameters is needed at the surroundings work place.		
Drainage congestion/water logging	(-)	- Clogging/stagnation of flow in the storm drain, source of waste water is LIN dweller used water (bathing and washing) - Backflow of water through drain (e.g., due to high water level at downstream discharge point, such as khal/ river) - Drainage congestion/water logging due to cross road/construction activity	-Designing drain considering the downstream discharge point; adequate slope and x-section; RCC cover for drain, where appropriate - Not allowing direct connection to drain from toilet -The out fall of proposed drain is primary to secondary drain and water quality will be monitoring as per necessary (in Appendix-2 EMP cost)	PIU, LINIC
Waste Management	(-)	- Uncollected wastes blocked the drainage and sewage system. - Air, water and soil pollution during the waste collection - Smoke from the open burning of uncollected waste. - The loading and unloading of waste at transfer station pollutes the air and soil. - Odor from waste disposal site and composting system. - Contamination of ground water by leachate.	- Follow the waste management plan given in Appendix 4 during construction period. - Encourage 3R (reduce, reuse, and recycle) - Encourage composting of kitchen waste on the basis of land availability otherwise transfer waste by hand trolley/van that is available in Pourashava and it is inspired by EMP implementation training - Adequate distance between waste bin and water body. - Adequate distance should be maintained between the waste collection point and house - Coordinate with the municipality for collection of domestic waste and disposal at the designated site	PIU/LINIC
Workers H & S	(-)	-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 in height and excavation works. Potential impacts are negative and long-term but reversible by mitigation measures.	- Comply with requirements of GoB Labor Law of 2006, Labor law and services rules 2015 and all applicable laws and standards on workers H & S. - Ensure adequate safety and provisions as per the Appendix 5 in relation to the COVID-19. - Produce and implement a site health and safety (H&S) plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use PPE at all times; (iii) providing (H&S) training for all site personnel; (iv) Providing fire extinguisher at construction site (v) documenting procedures to be followed for all site activities; and (vi) maintaining accident reports and records. - Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances. -Ensure (i) uncontaminated water for drinking, cooking and washing, (ii) clean eating areas where workers are not exposed to hazardous or noxious substances; and (iii) sanitation facilities are available at all times.	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
			- Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;	
Sanitation/excreta management	(-)	-Noise and soil pollution during the construction but short- term -Microbial contamination to the ground water from the pit latrine. -Waste during loading of sewage from the sanitary communal containers. -Odor	-Design and installation of sanitary toilet to stop the microbial contamination to the ground water. -Adequate height with proper ventilation. -Water supply and hand wash facility -Regular cleaning and monitoring -5-10m distance should be maintained between toilet and tube-well	PIU, LINIC
Water supply (Tube well)	(-)	-Noise, dust and soil pollution during the construction but short- term	-The digging of soil should follow the proper design to avoid the pollution and water logging -The outlet of tube well should be connected with soak pit to existing drain. -A person has been engaged for cleaning and maintenance of Tube well. -One set of maintenance equipment of Tube well is kept with LINIC selected person.	PIU, LINIC
Footpath/connecting Road	(-)	-Dust and noise pollution from construction work	-Watering to reduce dust -Tree plantation on the footpath/road slope	PIU, LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the construction workers	-LINIC and all workers will be required to undergo EMP implementation including waste management, Standard operating procedures (SOP) for construction works; health and safety (H&S), core labor laws, applicable environmental laws, etc. - Provided training on use of TW, toilet, solar panel and tree plantation etc. during preparation of Community Action Plan (CAP) -Training is a continuous process by Capacity Development Fund of Pourashava. It is financed by IUGIP-III-AF.	Pourashava PRAP budget

- (Construction Phase (For any "negative" impacts "Environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

Operation Phase/Post-Construction

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water logging in drains and footpaths	(-)	Run-off from debris/ sediments from repair and maintenance of Footpath and drain which may cause siltation and reduction in the quality of adjacent bodies of water. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	- Take all precautions to prevent run-off into streams, water courses, or irrigation system. Install temporary silt traps or sedimentation basins along drainage leading to the water bodies. - Remove all debris/sediments immediately. - Dispose debris/sediments at a designated site such as landfill.	PIU, LINIC

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water quality monitoring (Arsenic, Iron, Chloride, Manganese etc.) (twice a year)	(-)	Due to polluted water, people may suffer from dangerous diseases like cholera, dysentery, diarrhea, Gastrointestinal disease and jaundice etc.	Necessary test will be performed occasionally by testing water sample from the tube wells (Pourashava PRAP budget)	PIU, LINIC
Solid Waste management	(-)	-Due to open dumping ambient environment will be polluted and will be breeding place of flies -Threat to human health and/or the environment -Due to bad odor, nuisance to sensitive receptors	- There is an existing sanitary landfill (SLF) of the Pourashava under IUGIP-III/AF and the waste management system will be connected with this system obviously. - The waste will soon be carried to the proposed SLF by Pourashava SWM system - Develop rodent and fly control plan - Ensure residual waste is not left in bins and allowed to decompose for a long time	PIU/LINIC
Community H & S - Walkway/drain - Toilet conditions - Drinking water quality (Tube well)	(-)	- The inhabitants may dump waste on the walkway - Bricks used in BFS, may be stolen when CC will wear out with the passage of time - Inadequate supply of water to toilet may spread bad odor - Improper use may spread germ - Irregular cleaning may create unhygienic condition - Epidemic may spread due to deteriorated quality of water	- Awareness to the inhabitants to discourage dumping of waste on the walkway - Ensure routine maintenance by the LINIC - Continuous supply of water will be provided - Awareness to user for proper use of latrine - LINIC will engage a person to clean and maintenance of Toilet and tube well regularly - Periodic maintenance of Tube well and Toilet will be done by Pourashava PRAP budget -Inspect soak well periodically to determine filling levels. -Scheduled Desludging: Arrange timely desludging before overflow occurs. --Use mechanical desludging systems instead of manual entry.Follow confined-space entry protocols if entry is unavoidable. -Train workers on safe handling of human waste and emergency procedures. -Transport and dispose of sludge only at approved treatment facilities.	PIU/LINIC
Dustbin	(-)	- Improper use of dustbins - Irregular cleaning of dustbin may create bad odor and birth place of flies	- Awareness to the LIN dwellers for proper use of dustbins - LINIC will engage a person who will monitor the cleaning the dustbin regularly	PIU/LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the community	-Twice a year Training/workshop/ meeting for maintenance of TW, Toilet, Planted Tree and Solar panel will be organized by LINIC/PIU and financed by Pourashava PRAP fund. -Provided training on maintenance of TW, toilet and Planted Tree, solar panel during preparation of Community Action Plan (CAP) Inventory Management: Keep records of all solar street light components (panels, batteries, controllers). -Proper Storage: Store damaged or expired components safely in designated areas. -Authorized Disposal: Send batteries, panels, and electronic parts to licensed e-waste recyclers; do not burn or dump. -Staff Training: Train maintenance personnel on the safe handling, segregation, and reporting of e-waste.	Pourashava PRAP budget

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
			-Replacement Plan: Establish a system for replacing non-functional components and managing them as e-waste. -Regular maintenance of planted tree by LIN dwellers	

- (Operation Phase (For any "negative" impacts "environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

g. Environmental Management Plan (EMP)

(xxi) Monitoring Plan (Construction and Operation Period)

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
Water quality	-Contamination (Arsenic, Iron, Chloride, Manganese etc.) or degrading of water quality of drinking water well -Contamination (DO, BOD, COD, TDS, TSS, Turbidity etc.) or degrading of water quality of surface water	-Water quality of tube well will be tested after installation/construction by LINIC and it is included in engineering estimate (Item LGED rate schedule) -Water quality of Tube well will be monitored periodically and DoE standard will be maintained properly. -The outlet of household waste water would be connected with Pourashava existing drain -PIU/LINIC will strongly monitoring the performance of the interventions	Twice a year/Yearly Operation /completion work	Pourashava
Dust from drains, footpaths, toilets, street light, dustbins	-Air and noise pollution may occur due to construction/operation -Irregular cleaning may damage the interventions	-Use tarpaulins to cover soils, sand and other loose material. -Water will be sprayed to control the dust when necessary -Regular maintenance/cleaning -PIU/LINIC will strongly monitoring the performance of the interventions	As per necessary	PIU/LINIC
Acoustic environment	Temporary increase in noise level and vibrations. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	Plan activities in consultation with Pourashava local authority so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance.	No need for noise quality monitoring due to short-term project	Pourashava
Biodiversity	Activities in the built-up area of Pourashava. There are no protected areas in or around Sub-project sites, and no known areas of ecological interest.	<ul style="list-style-type: none"> No trees, shrubs, or groundcover may be removed or vegetation stripped without the prior permission. Prevent workers or any other person from removing and damaging any flora (plant/vegetation) and fauna (animal). 	No need for monitoring due to short-term project	Pourashava
Existing provisions for pedestrians and other forms of transport	Footpath closure is not anticipated. The impacts are negative but short-term, site-	<ul style="list-style-type: none"> Maintain safe passage for pedestrians during maintenance activities. Notify affected sensitive receptors by providing sign boards informing nature and duration of maintenance activities and contact numbers for concerns/complaints. 	Duration of construction works	Pourashava

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
	specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> • Leave spaces for access between mounds of soil. • Ensure any damage to properties and utilities will be restored or compensated to pre-work conditions. 		
Worker's health and safety	Workers need to be mindful of the occupational hazards working in confined spaces such as closed drains. Potential impacts are negative and long-term but reversible by mitigation measures.	<ul style="list-style-type: none"> • Comply with requirements of Government of Bangladesh Labor Law of 2006, Labor Law services rule 2015 and all applicable laws and standards on workers H&S. • Ensure adequate safety and provisions as per the Annex 8 in relation to the COVID-19. • Ensure that all site personnel have a basic level of H&S training. • Produce and implement a O&M and H&S plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use personal protective equipment (reflectorized vests, footwear, gloves, goggles and masks) at all times; (iii) providing H&S training for all site personnel; (iv) providing fire extinguisher at construction site • Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances • Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. 	Duration of construction works	Pourashava/LINIC

h. Public Consultations

114. A public consultation meeting was held at Gobindapur Khandakar Para on 24 december 2024. A total of 30 participants attended the meeting where 21 were female. SIC members, teachers, counselors, farmers, female workers, housewives, and small business holders were present in the meetings. The safeguarding team of PRS-UGIIP visited the slum of the Paurashava. Consultants described environmental and social issues in the context of development aspects and potential impacts of the infrastructure development work of the slums. The meeting was presided over by the Executive Engineer of Alamdanga Paurashava.

Time of Public Consultation

Site : Gobindapur Khandakar Para LIN

Time : 04:00 PM

115. Participants of the meeting exchanged views with the safeguard team about their sufferings and the remedial measures to be taken to overcome it. At present the LIN dwellers use hanging and pit latrine, which is a threat to public health and un-hygienic as well. They insisted for a community latrine to overcome it. The drinking water was the burning issue. The water available at the LIN was inadequate and non-potable due to impurities (e.g., excessive iron). They urged for sufficient potable water at their door step. Water logging was an additional problem of the LINs. Their yard inundates during rainy season. It creates an un-hygienic condition of living. They wanted immediate relief from it, through an installation of proper drainage system. Inadequate internal road communication made their livelihood slower. A proper footpath would ease their safe movement. They asked for a proper footpath system in their LIN. There is inadequate dustbin in or around the LINs. As such they cannot dump the waste specially the kitchen waste properly. It creates bad odor and un-hygienic condition in and around the LIN. They wanted installation of dustbins. Inadequate light during night time is an additional problem. Social nuisance creates at it. Pilferage and unsocial activities promote in the dark. The LIN dwellers urged for street lighting system in and around the LINs.

Experts discussed regarding safeguard issues; focusing the sub-project components with its importance including socio economic and health hazard. Also discussed, environmental and social impacts and mitigation measures about air, dust, water pollution and waste management.

As per discussion and feedback from the SDO and all LINIC members, the LINs were selected through consultation with the local leader/councilors living in the Pourashava area. According to the discussion, the participants appreciated the proposed LIN improvement components, as it will improve the health and sanitation conditions of the LIN which will provide positive socio-economic impact.

The LIN dwellers demanded for more latrines and also demanded separate latrines for women. The chairman of the meeting in his concluding speech mentioned that as per allocation of fund, elements of the proposed sub-project have been selected by the LIN dwellers. The sites have been selected based on the available space spreading all over the LIN. However, maximum old sites will be used and nobody will be affected. The toilet designs have considered separate unit for the women and it would not be possible to provide individual toilets. He requested co-operation from the LIN dwellers during construction activities. The meeting was concluded with thanks from the chair to the participants. (Appendix 3).

Grievance Redress Mechanism

116. Grievance redress mechanism (GRM) has been established in the Pourashava to redress quickly social, environmental and any other project related grievances from the affected or any aggrieved person/ party with the creation of grievance redress cell (GRC) comprising of:

117. Affected or aggrieved persons will have the flexibility of conveying grievances/ suggestions in writing and dropping them in complaints/suggestion boxes that have already been installed in the Pourashava or through telephones, e-mails, by post or by writing in the complaint register in the Pourashava office. The cost related to environmental grievance redress are included in social and resettlement cost estimates.

i. Grievance Redresses Process

118. 1st Level Grievance: Names and contact phone numbers of the PIU safeguard focal person will be posted on the construction site at visible location (construction site signboard) to provide first level of contact for quick resolution of the grievances. The LINIC and the PIU safeguard focal person can immediately resolve on-site the grievances in consultation with each other within 7 days of receipt of a complaint/ grievance.

2nd Level Grievance: The grievances that cannot be redressed within 7 days at field/ ward level will be reviewed by the grievance redress cell (GRC) with support from PIU designated safeguard focal person and MDSC regional environment and resettlement specialists. The GRC will attempt to resolve the complaints/ grievances within 15 days.

3rd Level Grievance: The PIU designated safeguard focal person will refer the unresolved or, the major issues to the PMU safeguard officer and MDSC safeguard specialists. The PMU, in consultation with the above-mentioned officer/ specialists, will resolve the issues within 30 days. Despite project GRM, an aggrieved person shall have access to the country's legal system at any stage, and assessing can go parallel.

119. If the GRM cannot resolve the issues, the affected person also can use the ADB Accountability Mechanism (AM) through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB Bangladesh Resident Mission (BRM) in any of the official languages of ADB.

j. Recordkeeping:

120. Records all grievances including date of receive and detailed contract address of complainant, nature of grievance, agreed corrective actions, and the dates these were affected and final outcomes will be kept by PIU. The grievances recorded and resolved and the outcomes will be displayed/ disclosed in the PMU office, Pourashava office, on the web and reported in the semi-annual monitoring reports.

Periodic review and documentation of lessons learnt: The PMU safeguard officer will periodically review the functioning of the GRM in each Pourashava and record information on the effectiveness of the mechanism.

Conclusion

121. So, there will be no negative impact for the implementation of the sub-project and if there is any that would be very minimum most of which are construction related, localized and for short-term. Moreover, there will be a lot of positive impacts such as: Moreover, there will be a lot of positive impacts such as:

- Environmental & sanitation conditions will be improved.
- LIN dwellers will have comfortable walkway and improved drainage.
- Water-logging will be removed which will eliminate the mosquito breeding resulting the reduction of many diseases including waterborne diseases.
- LIN dwellers will have facilities for pure drinking water and facilities for solid waste disposal.
- There will be savings in the medical treatment cost. Thus, health conditions will be improved etc.

F. Anandadham Kalitola LIN (Lot-05) :(Ward No. 04)

106. The LIN is situated in ward no. 04. There are 105 families with 555 members, of which 255 are males, and 300 are females. The land area is 3.5 acres, and the government & local people own the land. Most of LIN dwellers earn their livelihood by physical labor. The average income per head per month is less than BDT 3800.00. Most of the families live in katcha houses. They are deprived of most of the needed basic services. This LIN has an acute problem of inadequate sanitary latrines, inadequate facilities for drinking water, inadequate and deteriorating internal roads/footpaths/walkways, dustbins, street lighting, drains, etc.

Package No IUGIP/ALAM/SI/01-07/2023
(Lot-05)

a. Location of the LIN

103. Anandadham Kalitola LIN is situated in ward no. 04 under Alamdanga Paurashava of Alamdanga District; for the location of the slum in the Alamdanga Paurashava map is given below.



k. Description of Interventions

103. Description of the Anandadham Kalitola LIN proposed interventions for LIN is given in Table IV.9.

• **Table IV.6: Description of Proposed Interventions of LIN**

Sl. No.	Name of Package	Financial Year	Name and Number/ Length of Scheme	Unit (m/nos)	Amount TK/ (nos/m)	Quantity	Engineer's Estimated Amount (TK)	Remarks	
	IUGIP/ALAM/SI/01-07/2023 (Lot-06)	2025-2026	Name of LIN: Anandadham Kalitola LIN (Lot-06)						
			Name of works: Construction of 03 Nos Double unit (type-B) toilets with 12 Nos soak pits, 766 meter of Footpath, 706 meter Brick Drain, 05 numbers of solar street light, 09 numbers hand tubewell with 09 Nos soak pits and 100 Nos Tree Plantation in Anandadham Kalitola Lin at Ward no.-04, under Alamdanga Pourashava, District: Chuadanga.						
1			a 2)	Construction of 03 nos. double unit (type-B) toilet with 12 Nos soak pit in Anandadham Kalitola area at Alamdanga Pourashava, District: Chuadanga.	nos	395554.34	3	1,186,663.02	
2			c)	Construction of 766m meter footpath in Anandadham Kalitola at Alamdanga Pourashava, District: Chuadanga.	m	4299.36	766	3,293,308.07	
3			d)	Construction of 706m Brick drain with top slab in Anandadham Kalitola at Alamdanga Pourashava, District: Chuadanga.	m	6058.87	706	4,277,564.93	
4			e)	Installation of 05 Number solar street light in Anandadham Kalitola at Alamdanga Pourashava, District: Chuadanga.	nos	94481.79	5	472,408.95	
5			f)	Installation of 09 number tube well with 09 Nos soak pits in Anandadham Kalitola at Alamdanga Pourashava, District: Chuadanga.	nos	77914.81	9	701,233.29	
6			g)	Plantation of 100 nos. Tree in Anandadham Kalitola at Alamdanga Pourashava, District: Chuadanga.	nos	495.00	100	49,500.00	
			Total (Lot-06) Amount =				9,980,678.26		

I. Present Condition (Baseline Environment)

Flooding/Water-clogging

104. Flood does not occur in this slum. There exist no paved internal drainage systems in the LIN. The existing drains are earthen that are poorly functioning. As the slum areas are low-lying, heavy rainfall during the rainy season creates water logging. Hence, the construction of drains is necessary to remove water logging conditions in these LIN.

Water Source/Level/Quality/Tube well

105. Currently, the slum people have been suffering from the acute problem of inadequate availability of drinking water. Hence, slum dwellers have demanded installing 09 tube well in their area; refer to Appendix 1 for the typical design of a tube well.

Sanitations

106. There is insufficient toilets facility in the LIN area. LIN dwellers do not have enough hygienic sanitation. There is a 03 Nos proposal sanitation improvement within the LIN area.

Access Roads/Footpaths

107. There is existing earth road are poor condition in the LIN area. LIN dwellers wanted footpath for their communication within the LIN area. The proposed footpaths have been designed with cement concrete (CC) with crushed stone chips and over Single Layer Brick Flat Soling (BFS). 766m of footpaths are being proposed in this proposal.

Solar Street Lights

108. There are insufficient numbers of street light in this LIN area therefore 05 nos provisions of light are proposed under this package.

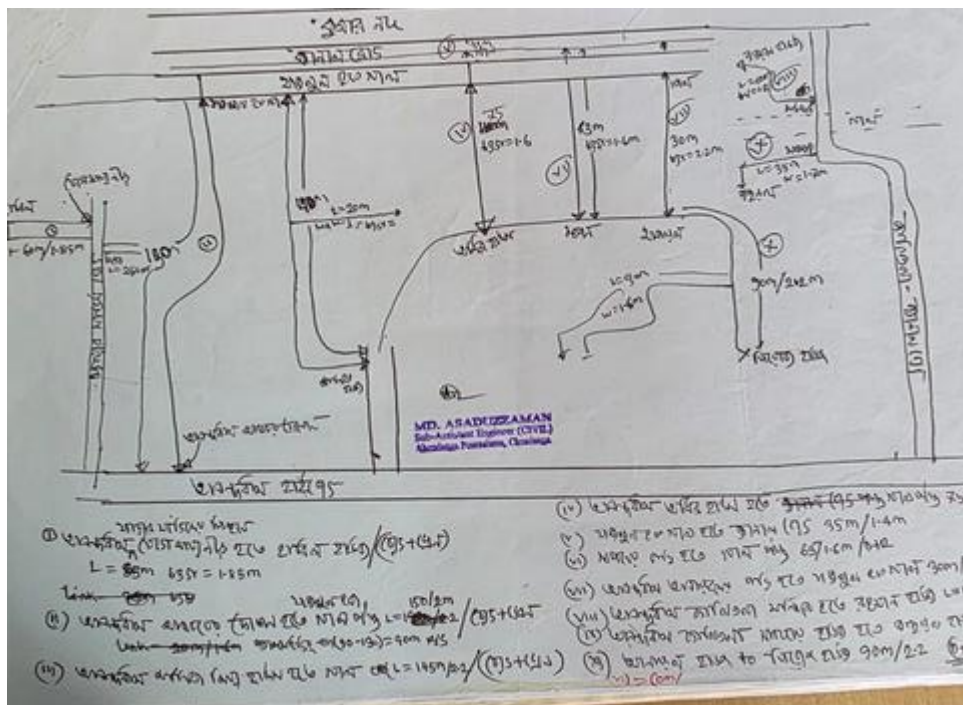
Drain

109. The existing drains are earthen and are inactive. So, the LIN dwellers experience water logging especially during rainy season. The out fall of proposed drain 706m is Poura secondary drain to primary drain (Section-3 site map) and because as the coming water to the proposed drain is only from rainfall run-off or household waste water. All drains have been designed to be built by RCC/brick. But well-defined slopes and outfalls have been ensured. The U-type drains have been designed considering the constraint in land availability. The design life has been considered as 20 years. Integration/connection of Road side drains with the town drainage system has been considered and considering the possibilities of increased precipitation owing to probable climate change, the sections have been designed keeping allowance to accommodate 10% additional flow.



• Figure IV.6: Existing Situation at Anandadham Kalitola LIN

m. Site Map of Anandadham Kalitola LIN



n. Baseline information:

(xxii) All LINS fall under a single pourashava, so their baseline profiles are nearly identical, differing only in aspects of Physical Cultural Resources.

116. The key baseline information on the Anandadham kalitola LIN area is depicted in below table:

SI	Key environmental and social aspects	Key baseline information
1	Noise	Noise pollution is a major constraint to the environmental quality of the study area as there is a highway running alongside it. There are no sources of noise such as local noise, industries, etc.
2	Air	The current air quality in the LIN area of Alamdanga Municipality is moderate with pollution levels that may affect sensitive groups. The air quality in the LIN area of Alamdanga is moderate mainly due to particulate matter emitted from brick kilns, vehicle emissions. The final master plan of the municipality shows that air pollution is a serious environmental concern that is having a favorable impact on many parts of the LIN area of Alamdanga Municipality.
3	Ground water	The water level in Chuadanga district is normal. The average water layer here is 200 feet and clear water is always available here, which does not cause any environmental problems.
4	Surface water	Supriyo water is available in Amdanga Municipality. But the amount of iron in the water is high.
5	Protected Area (PA)	In terms of security, Alamdanga Municipality is a completely safe place with no wildlife nuisance, which has no impact on the projector.
6	Cultural Heritage	In terms of cultural heritage, Alamdanga Upazila has some Baul music tradition and the people here retain these cultural aspects. Religious and cultural aspects are given great importance.
7	Physical Cultural Resources	Located in Alamdanga Upazila of Chuadanga District, Bangladesh, it is rich in both physical (natural environment, geography, natural resources) and cultural (various ethnic communities, traditions, religious sites) resources.

o. Environmental Impact Assessment and Mitigation

117. (The review process will be greatly facilitated by comprehensive and detailed answers in this section. When completing this section, please state a specific reason [i.e., “there will be no impacts to environment because this project will not involve any

disturbance”] and cite a source [i.e., local master plan, previous environmental assessment, correspondence with Pourashava Office, etc.] to support a response of “no impact (-)” or “potential to impact (+).”

118. The LIN toilets are being considered with two types of design: (i) Type A, and (ii) Type B. Type A is considered with septic tank whereas Type B considered with pit along with soak pit. The note from the Pourashava engineers taken that in many of the LIN area there is shortage of space for constructing septic tank where soak pit is designed with the pit. However, such soak pit has mitigation measure for ground or surface water contamination (e.g., sand and brick chips envelope on the bottom of pit). Moreover, municipality will ensure good maintenance for such toilets having soak pit.
119. The demolition, construction, and waste management activities in the LIN area may generate several short-term and localized environmental impacts. Dust from demolition, debris movement, and broken footpaths can impair air quality, while demolition and temporary camps may create unhygienic conditions. Noise from demolition is minimal. Since project activities are scattered and not near water bodies, the likelihood of surface or groundwater pollution is low. Pollution from construction work yards is minimal, requiring only limited environmental monitoring. Finally, urban construction activities such as excavation and earthmoving carry inherent occupational safety risks, particularly related to working at heights or in excavated areas, though these risks are reversible with proper mitigation.

Pre-construction and Construction Phase

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Demolition of existing infrastructure: - Dust from demolition - Noise from demolition - Waste from demolition -Un-hygiene of demolition	(-)	-Different activities regarding the demolishing the existing structure (part) and broken footpath generate dust which impair the air quality -Unhygienic/unsanitary environment due to demolition of old/poor infrastructure and construction of camps in the development site -Creation of noise from demolition is negligible	-Water will be sprayed to control the dust, which is the main way to suppress dust in the working site as per necessary Appendix-2 EMP cost. -Apply water to disturbed soils after demolition is completed or at the end of each day of cleanup. - Transport/handle debris from demolished infrastructures in a hygienic manner. -Tree plantation at the LIN boundary/open space/slope on the basis of space availability -Collection of construction debris and dispose in a hygienic way by LINIC and it is included in engineering estimate item (LGED rate schedule) -PIU/LINIC will strongly monitoring the construction activity and instant action will take.	PIU, LINIC
Dust Management	(-)	-Moving debris/sediments may create dusts during dry season. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures	- Use tarpaulins to cover soils, sand and other loose material. - Water will be sprayed to control the dust when necessary	PIU, LINIC
Community facilities and services - Blockage to access roads - Fire & Safety	(-)	- Construction works will impede the access of residents and businesses in limited cases. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures. Poor safety signage and lack of barriers at work site and trenches will create hazard to pedestrians and children. - Chances of fire only from open cooking in the area which may create major loss of property to the residence in the LIN.	-Provide safety signage at all sites visible to public that is monitored by PIU/LINIC and it will be confirmed in semi-annual monitoring report -Provide safety barriers near any trenches, and cover trenches with planks during non-work hours. -LINIC's activities and movement of staff will be restricted to designated construction areas. -Consult with Pourashava local authority on the designated areas for stockpiling of, soils, gravel, and other construction materials. -If the LINIC chooses to locate the work camp/storage area on private land, he must get prior permission from the environment management specialist and landowner.	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
			<ul style="list-style-type: none"> -Recycling and the provision of separate waste receptacles for different types of waste shall be encouraged. -Workers need to be made aware of the following general rules: (i) no alcohol/drugs on site; (ii) prevent excessive noise; (iii) construction workers are to make use of the facilities provided for them; (iv) no fires permitted on site except if needed for the construction works; and (v) no worker may be forced to do work that is potentially dangerous or that he/she is not trained to do. - Bucket filled with sand will be kept at the construction zone. 	
Air/water/noise quality monitoring	(-)	<ul style="list-style-type: none"> - Component of works are scattered in the LIN area, which are not located near-by any water stream/canal. There stands little probability of surface and ground water pollution, as nothing like gasoline, oil, road salts and chemicals are dumped on the adjoining ground. - Construction work yards are located in small areas and its activities are also minimum. Here the intensity of pollution from air/dust/ noise is also very low and short-term. As such little monitoring of water/air/noise pollution parameters is needed at the surroundings work place. 	<ul style="list-style-type: none"> - No need for Air/water/noise quality monitoring in construction area by test due to short-term effect. - Water will be sprayed to control the dust, when necessary, it will be visually observed 	Not required
Drainage congestion/water logging	(-)	<ul style="list-style-type: none"> - Clogging/stagnation of flow in the storm drain, source of waste water is LIN dweller used water (bathing and washing) - Backflow of water through drain (e.g., due to high water level at downstream discharge point, such as khal/ river) - Drainage congestion/water logging due to cross road/construction activity 	<ul style="list-style-type: none"> -Designing drain considering the downstream discharge point; adequate slope and x-section; RCC cover for drain, where appropriate - Not allowing direct connection to drain from toilet -The out fall of proposed drain is primary to secondary drain and water quality will be monitoring as per necessary (in Appendix-2 EMP cost) 	PIU, LINIC
Waste Management	(-)	<ul style="list-style-type: none"> - Uncollected wastes blocked the drainage and sewage system. 	<ul style="list-style-type: none"> - Follow the waste management plan given in Appendix 4 during construction period. - Encourage 3R (reduce, reuse, and recycle) 	PIU/LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
		<ul style="list-style-type: none"> - Air, water and soil pollution during the waste collection - Smoke from the open burning of uncollected waste. - The loading and unloading of waste at transfer station pollutes the air and soil. - Odor from waste disposal site and composting system. - Contamination of ground water by leachate. 	<ul style="list-style-type: none"> - Encourage composting of kitchen waste on the basis of land availability otherwise transfer waste by hand trolley/van that is available in Pourashava and it is inspired by EMP implementation training - Adequate distance between waste bin and water body. - Adequate distance should be maintained between the waste collection point and house - Coordinate with the municipality for collection of domestic waste and disposal at the designated site 	
Workers H & S	(-)	<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 in height and excavation works. Potential impacts are negative and long-term but reversible by mitigation measures.</p>	<ul style="list-style-type: none"> - Comply with requirements of GoB Labor Law of 2006, Labor law and services rules 2015 and all applicable laws and standards on workers H & S. - Ensure adequate safety and provisions as per the Appendix 5 in relation to the COVID-19. - Produce and implement a site health and safety (H&S) plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use PPE at all times; (iii) providing (H&S) training for all site personnel; (iv) Providing fire extinguisher at construction site (v) documenting procedures to be followed for all site activities; and (vi) maintaining accident reports and records. - Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances. -Ensure (i) uncontaminated water for drinking, cooking and washing, (ii) clean eating areas where workers are not exposed to hazardous or noxious substances; and (iii) sanitation facilities are available at all times. - Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers; 	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Sanitation/excreta management	(-)	-Noise and soil pollution during the construction but short- term -Microbial contamination to the ground water from the pit latrine. -Waste during loading of sewage from the sanitary communal containers. -Odor	-Design and installation of sanitary toilet to stop the microbial contamination to the ground water. -Adequate height with proper ventilation. -Water supply and hand wash facility -Regular cleaning and monitoring -5-10m distance should be maintained between toilet and tube-well	PIU, LINIC
Water supply (Tube well)	(-)	-Noise, dust and soil pollution during the construction but short- term	-The digging of soil should follow the proper design to avoid the pollution and water logging -The outlet of tube well should be connected with soak pit to existing drain. -A person has been engaged for cleaning and maintenance of Tube well. -One set of maintenance equipment of Tube well is kept with LINIC selected person.	PIU, LINIC
Footpath/connecting Road	(-)	-Dust and noise pollution from construction work	-Watering to reduce dust -Tree plantation on the footpath/road slope	PIU, LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the construction workers	-LINIC and all workers will be required to undergo EMP implementation including waste management, Standard operating procedures (SOP) for construction works; health and safety (H&S), core labor laws, applicable environmental laws, etc. - Provided training on use of TW, toilet, solar panel and tree plantation etc. during preparation of Community Action Plan (CAP) -Training is a continuous process by Capacity Development Fund of Pourashava. It is financed by IUGIP-III-AF.	Pourashava PRAP budget

- (Construction Phase (For any "negative" impacts "Environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

Operation Phase/Post-Construction

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water logging in drains and footpaths	(-)	Run-off from debris/ sediments from repair and maintenance of Footpath and drain which may cause siltation and reduction in the quality of adjacent bodies of water. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> - Take all precautions to prevent run-off into streams, water courses, or irrigation system. Install temporary silt traps or sedimentation basins along drainage leading to the water bodies. - Remove all debris/sediments immediately. - Dispose debris/sediments at a designated site such as landfill. 	PIU, LINIC
Water quality monitoring (Arsenic, Iron, Chloride, Manganese etc.) (twice a year)	(-)	Due to polluted water, people may suffer from dangerous diseases like cholera, dysentery, diarrhea, Gastrointestinal disease and jaundice etc.	Necessary test will be performed occasionally by testing water sample from the tube wells (Pourashava PRAP budget)	PIU, LINIC
Solid Waste management	(-)	<ul style="list-style-type: none"> -Due to open dumping ambient environment will be polluted and will be breeding place of flies -Threat to human health and/or the environment -Due to bad odor, nuisance to sensitive receptors 	<ul style="list-style-type: none"> - There is an existing sanitary landfill (SLF) of the Pourashava under IUGIP-III/AF and the waste management system will be connected with this system obviously. - The waste will soon be carried to the proposed SLF by Pourashava SWM system - Develop rodent and fly control plan - Ensure residual waste is not left in bins and allowed to decompose for a long time 	PIU/LINIC
Community H & S - Walkway/drain - Toilet conditions - Drinking water quality (Tube well)	(-)	<ul style="list-style-type: none"> - The inhabitants may dump waste on the walkway - Bricks used in BFS, may be stolen when CC will wear out with the passage of time - Inadequate supply of water to toilet may spread bad odor - Improper use may spread germ - Irregular cleaning may create unhygienic condition - Epidemic may spread due to deteriorated quality of water 	<ul style="list-style-type: none"> - Awareness to the inhabitants to discourage dumping of waste on the walkway - Ensure routine maintenance by the LINIC - Continuous supply of water will be provided - Awareness to user for proper use of latrine - LINIC will engage a person to clean and maintenance of Toilet and tube well regularly - Periodic maintenance of Tube well and Toilet will be done by Pourashava PRAP budget -Inspect soak well periodically to determine filling levels. -Scheduled Desludging: Arrange timely desludging before overflow occurs. --Use mechanical desludging systems instead of manual entry.Follow confined-space entry protocols if entry is unavoidable. -Train workers on safe handling of human waste and emergency procedures. -Transport and dispose of sludge only at approved treatment facilities. 	PIU/LINIC

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Dustbin	(-)	<ul style="list-style-type: none"> - Improper use of dustbins - Irregular cleaning of dustbin may create bad odor and birth place of flies 	<ul style="list-style-type: none"> - Awareness to the LIN dwellers for proper use of dustbins - LINIC will engage a person who will monitor the cleaning the dustbin regularly 	PIU/LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the community	<ul style="list-style-type: none"> -Twice a year Training/workshop/ meeting for maintenance of TW, Toilet, Planted Tree and Solar panel will be organized by LINIC/PIU and financed by Pourashava PRAP fund. -Provided training on maintenance of TW, toilet and Planted Tree, solar panel during preparation of Community Action Plan (CAP) Inventory Management: Keep records of all solar street light components (panels, batteries, controllers). -Proper Storage: Store damaged or expired components safely in designated areas. -Authorized Disposal: Send batteries, panels, and electronic parts to licensed e-waste recyclers; do not burn or dump. -Staff Training: Train maintenance personnel on the safe handling, segregation, and reporting of e-waste. -Replacement Plan: Establish a system for replacing non-functional components and managing them as e-waste. -Regular maintenance of planted tree by LIN dwellers 	Pourashava PRAP budget

- (Operation Phase (For any “negative” impacts “environmental mitigation measure” may be suggested. For any positive impacts environmental enhancement program may be carried out)

p. Environmental Management Plan (EMP)

(xxiii) Monitoring Plan (Construction and Operation Period)

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
Water quality	<p>-Contamination (Arsenic, Iron, Chloride, Manganese etc.) or degrading of water quality of drinking water well</p> <p>-Contamination (DO, BOD, COD, TDS, TSS, Turbidity etc.) or degrading of water quality of surface water</p>	<p>-Water quality of tube well will be tested after installation/construction by LINIC and it is included in engineering estimate (Item LGED rate schedule)</p> <p>-Water quality of Tube well will be monitored periodically and DoE standard will be maintained properly.</p> <p>-The outlet of household waste water would be connected with Pourashava existing drain</p> <p>-PIU/LINIC will strongly monitoring the performance of the interventions</p>	<p>Twice a year/Yearly</p> <p>Operation /completion work</p>	Pourashava
Dust from drains, footpaths, toilets, street light, dustbins	<p>-Air and noise pollution may occur due to construction/operation</p> <p>-Irregular cleaning may damage the interventions</p>	<p>-Use tarpaulins to cover soils, sand and other loose material.</p> <p>-Water will be sprayed to control the dust when necessary</p> <p>-Regular maintenance/cleaning</p> <p>-PIU/LINIC will strongly monitoring the performance of the interventions</p>	As per necessary	PIU/LINIC
Acoustic environment	Temporary increase in noise level and vibrations. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	Plan activities in consultation with Pourashava local authority so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance.	No need for noise quality monitoring due to short-term project	Pourashava
Biodiversity	Activities in the built-up area of Pourashava. There are no protected areas in or around Sub-project sites, and no known areas of ecological interest.	<ul style="list-style-type: none"> No trees, shrubs, or groundcover may be removed or vegetation stripped without the prior permission. Prevent workers or any other person from removing and damaging any flora (plant/vegetation) and fauna (animal). 	No need for monitoring due to short-term project	Pourashava
Existing provisions for pedestrians and other forms of transport	Footpath closure is not anticipated. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> Maintain safe passage for pedestrians during maintenance activities. Notify affected sensitive receptors by providing sign boards informing nature and duration of maintenance activities and contact numbers for concerns/complaints. Leave spaces for access between mounds of soil. 	Duration of construction works	Pourashava

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
		<ul style="list-style-type: none"> • Ensure any damage to properties and utilities will be restored or compensated to pre-work conditions. 		
Worker's health and safety	Workers need to be mindful of the occupational hazards working in confined spaces such as closed drains. Potential impacts are negative and long-term but reversible by mitigation measures.	<ul style="list-style-type: none"> • Comply with requirements of Government of Bangladesh Labor Law of 2006, Labor Law services rule 2015 and all applicable laws and standards on workers H&S. • Ensure adequate safety and provisions as per the Annex 8 in relation to the COVID-19. • Ensure that all site personnel have a basic level of H&S training. • Produce and implement a O&M and H&S plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use personal protective equipment (reflectorized vests, footwear, gloves, goggles and masks) at all times; (iii) providing H&S training for all site personnel; (iv) providing fire extinguisher at construction site • Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances • Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. 	Duration of construction works	Pourashava/LINIC

q. Public Consultations

120. A public consultation meeting was held at Anandadham Kalitola LIN on 26 October 2024. A total of 30 participants attended the meeting where 21 were female. SIC members, teachers, counselors, farmers, female workers, housewives, and small business holders were present in the meetings. The safeguarding team of PRS-UGIIP visited the slum of the Paurashava. Consultants described environmental and social issues in the context of development aspects and potential impacts of the infrastructure development work of the slums. The meeting was presided over by the Executive Engineer of Alamdanga Paurashava.

Time of Public Consultation

Site : Anandadham Kalitola LIN

Time : 04:00 PM

121. Participants of the meeting exchanged views with the safeguard team about their sufferings and the remedial measures to be taken to overcome it. At present the LIN dwellers use hanging and pit latrine, which is a threat to public health and un-hygienic as well. They insisted for a community latrine to overcome it. The drinking water was the burning issue. The water available at the LIN was inadequate and non-potable due to impurities (e.g., excessive iron). They urged for sufficient potable water at their door step. Water logging was an additional problem of the LINs. Their yard inundates during rainy season. It creates an un-hygienic condition of living. They wanted immediate relief from it, through an installation of proper drainage system. Inadequate internal road communication made their livelihood slower. A proper footpath would ease their safe movement. They asked for a proper footpath system in their LIN. There is inadequate dustbin in or around the LINs. As such they cannot dump the waste specially the kitchen waste properly. It creates bad odor and un-hygienic condition in and around the LIN. They wanted installation of dustbins. Inadequate light during night time is an additional problem. Social nuisance creates at it. Pilferage and unsocial activities promote in the dark. The LIN dwellers urged for street lighting system in and around the LINs.

Experts discussed regarding safeguard issues; focusing the sub-project components with its importance including socio economic and health hazard. Also discussed, environmental and social impacts and mitigation measures about air, dust, water pollution and waste management.

As per discussion and feedback from the SDO and all LINIC members, the LINs were selected through consultation with the local leader/councilors living in the Pourashava area. According to the discussion, the participants appreciated the proposed LIN improvement components, as it will improve the health and sanitation conditions of the LIN which will provide positive socio-economic impact.

The LIN dwellers demanded for more latrines and also demanded separate latrines for women. The chairman of the meeting in his concluding speech mentioned that as per allocation of fund, elements of the proposed sub-project have been selected by the LIN dwellers. The sites have been selected based on the available space spreading all over the LIN. However, maximum old sites will be used and nobody will be affected. The toilet designs have considered separate unit for the women and it would not be possible to provide individual toilets. He requested co-operation from the LIN dwellers during construction activities. The meeting was concluded with thanks from the chair to the participants. (Appendix 3).

Grievance Redress Mechanism

116. Grievance redress mechanism (GRM) has been established in the Pourashava to redress quickly social, environmental and any other project related grievances from the affected or any aggrieved person/ party with the creation of grievance redress cell (GRC) comprising of:

117. Affected or aggrieved persons will have the flexibility of conveying grievances/ suggestions in writing and dropping them in complaints/suggestion boxes that have already been installed in the Pourashava or through telephones, e-mails, by post or by writing in the complaint register in the Pourashava office. The cost related to environmental grievance redress are included in social and resettlement cost estimates.

r. Grievance Redresses Process

118. **1st Level Grievance:** Names and contact phone numbers of the PIU safeguard focal person will be posted on the construction site at visible location (construction site signboard) to provide first level of contact for quick resolution of the grievances. The LINIC and the PIU safeguard focal person can immediately resolve on-site the grievances in consultation with each other within 7 days of receipt of a complaint/ grievance.

2nd Level Grievance: The grievances that cannot be redressed within 7 days at field/ ward level will be reviewed by the grievance redress cell (GRC) with support from PIU designated safeguard focal person and MDSC regional environment and resettlement specialists. The GRC will attempt to resolve the complaints/ grievances within 15 days.

3rd Level Grievance: The PIU designated safeguard focal person will refer the unresolved or, the major issues to the PMU safeguard officer and MDSC safeguard specialists. The PMU, in consultation with the above-mentioned officer/ specialists, will resolve the issues within 30 days. Despite project GRM, an aggrieved person shall have access to the country's legal system at any stage, and assessing can go parallel.

119. If the GRM cannot resolve the issues, the affected person also can use the ADB Accountability Mechanism (AM) through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB Bangladesh Resident Mission (BRM) in any of the official languages of ADB.

s. Recordkeeping:

120. Records all grievances including date of receive and detailed contract address of complainant, nature of grievance, agreed corrective actions, and the dates these were affected and final outcomes will be kept by PIU. The grievances recorded and resolved and the outcomes will be displayed/ disclosed in the PMU office, Pourashava office, on the web and reported in the semi-annual monitoring reports.

Periodic review and documentation of lessons learnt: The PMU safeguard officer will periodically review the functioning of the GRM in each Pourashava and record information on the effectiveness of the mechanism.

Conclusion

121. So, there will be no negative impact for the implementation of the sub-project and if there is any that would be very minimum most of which are construction related, localized and for short-term. Moreover, there will be a lot of positive impacts such as: Moreover, there will be a lot of positive impacts such as:

- Environmental & sanitation conditions will be improved.
- LIN dwellers will have comfortable walkway and improved drainage.
- Water-logging will be removed which will eliminate the mosquito breeding resulting the reduction of many diseases including waterborne diseases.
- LIN dwellers will have facilities for pure drinking water and facilities for solid waste disposal.
- There will be savings in the medical treatment cost. Thus, health conditions will be improved etc.

G. Ershadpur Gorsthan Para LIN (Lot-05) :(Ward No. 05)

107. The LIN is situated in ward no. 05. There are 130 families with 630 members, of which 310 are males, and 325 are females. The land area is 60 acres, and the government & local people own the land. Most of LIN dwellers earn their livelihood by physical labor. The average income per head per month is less than BDT 3000.00. Most of the families live in katcha houses. They are deprived of most of the needed basic services. This LIN has an acute problem of inadequate sanitary latrines, inadequate facilities for drinking water, inadequate and deteriorating internal roads/footpaths/walkways, dustbins, street lighting, drains, etc.

Package No IUGIP/ALAM/SI/01-07/2023
(Lot-05)

a.Location of the LIN

103. Ershadpur Gorsthan Para LIN is situated in ward no. 05 under Alamdanga Paurashava of Alamdanga District; for the location of the slum in the Alamdanga Paurashava map is given below.



t. Description of Interventions

103. Description of the Ershadpur Gorsthan Para LIN proposed interventions for LIN is given in Table IV.9.

• **Table IV.7: Description of Proposed Interventions of LIN**

Sl. No.	Name of Package	Financial Year	Name and Number/ Length of Scheme	Unit (m/nos)	Amount TK/ (nos/m)	Quantity	Engineer's Estimated Amount (TK)	Remarks	
	IUGIP/ALAM/SI/01-07/2023 (Lot-07)	2025-2026	Name of LIN: Ershadpur Gorsthan Para LIN (Lot-07)						
			Name of works: Construction of 985 meter of Footpath, 915 meter Brick Drain, 05 numbers of solar street light, 06 numbers hand tubewell with 06 Nos soak pits and 100 Nos Tree Plantation in Ershadpur Gorsthan Para Lin at Ward no.-05, under Alamdanga Pourashava, District: Chuadanga.						
1			c)	Construction of 985m meter footpath in Ershadpur Gorsthanpara at Alamdanga Pourashava, District: Chuadanga.	m	3984.39	985	3,924,622.42	
2			d)	Construction of 915m Brick drain with top slab in Anandadham Kalitola at Alamdanga Pourashava, District: Chuadanga.	m	5502.23	915	5,034,543.14	
3			e)	Installation of 05 Number solar street light in Ershadpur Gorsthan Para at Alamdanga Pourashava, District: Chuadanga.	nos	94481.79	5	472,408.95	
4			f)	Installation of 06 number tube well with 06 Nos soak pits in Ershadpur Gorsthan Para at Alamdanga Pourashava, District: Chuadanga.	nos	77914.81	6	467,488.86	
5	g)	Plantation of 100 nos. Tree in Ershadpur Gorsthanpara at Alamdanga Pourashava, District: Chuadanga.	nos	495.00	100	49,500.00			
			Total (Lot-07) Amount =				9,948,563.37		

U. Present Condition (Baseline Environment)

Flooding/Water-clogging

104. Flood does not occur in this slum. There exist no paved internal drainage systems in the LIN. The existing drains are earthen that are poorly functioning. As the slum areas are low-lying, heavy rainfall during the rainy season creates water logging. Hence, the construction of drains is necessary to remove water logging conditions in these LIN.

Water Source/Level/Quality/Tube well

105. Currently, the slum people have been suffering from the acute problem of inadequate availability of drinking water. Hence, slum dwellers have demanded installing 06tube well in their area; refer to Appendix 1 for the typical design of a tube well.

Sanitations

106. There is insufficient toilets facility in the LIN area. LIN dwellers do not have enough hygienic sanitation. There is a 03 Nos proposal sanitation improvement within the LIN area.

Access Roads/Footpaths

107. There is existing earth road are poor condition in the LIN area. LIN dwellers wanted footpath for their communication within the LIN area. The proposed footpaths have been designed with cement concrete (CC) with crushed stone chips and over Single Layer Brick Flat Soling (BFS). 985m of footpaths are being proposed in this proposal.

Solar Street Lights

108. There are insufficient numbers of street light in this LIN area therefore 05 nos provisions of light are proposed under this package.

Drain

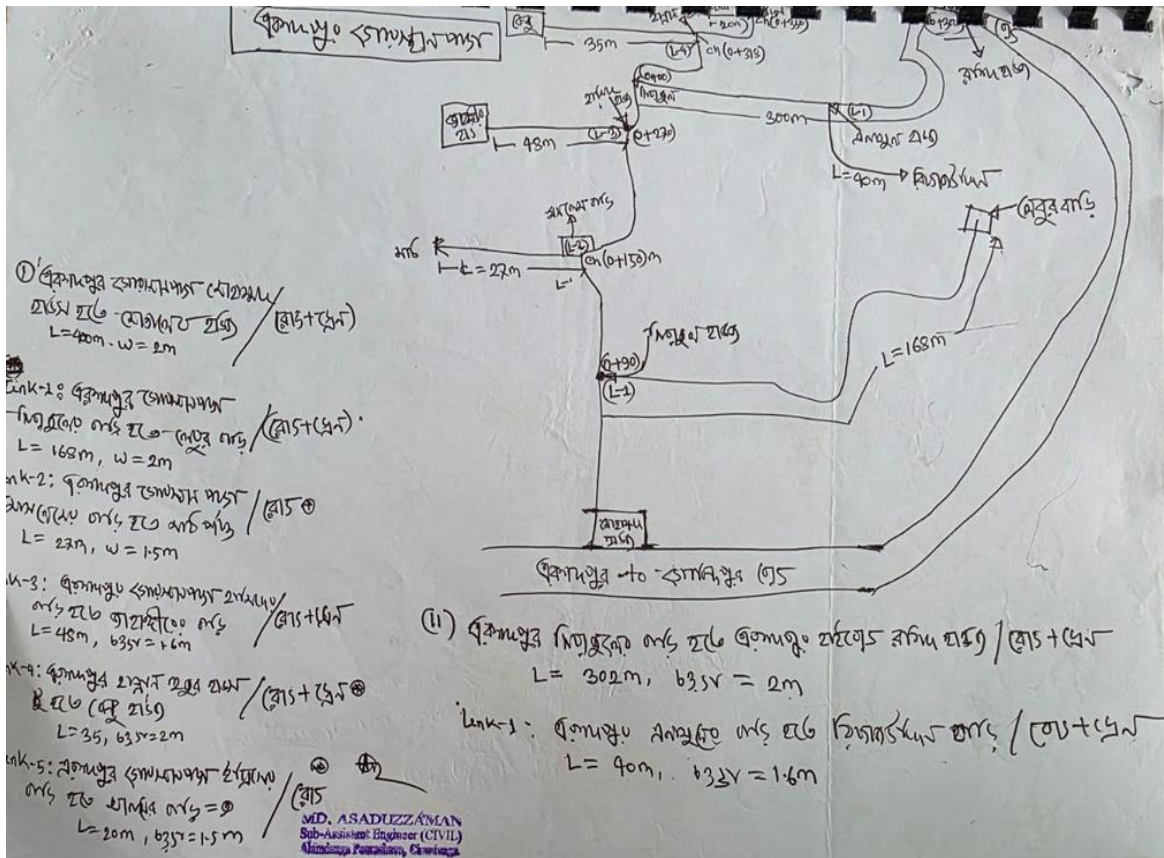
109. The existing drains are earthen and are inactive. So, the LIN dwellers experience water logging especially during rainy season. The out fall of proposed drain 915m is Poura secondary

drain to primary drain (Section-3 site map) and because as the coming water to the proposed drain is only from rainfall run-off or household waste water. All drains have been designed to be built by RCC/brick. But well-defined slopes and outfalls have been ensured. The U-type drains have been designed considering the constraint in land availability. The design life has been considered as 20 years. Integration/connection of Road side drains with the town drainage system have been considered and considering the possibilities of increased precipitation owing to probable climate change, the sections have been designed keeping allowance to accommodate 10% additional flow.



• Figure IV.7: Existing Situation at Ershadpur Gorsthan Para LIN

v. Site Map of Ershadpur Gorsthan Para LIN



w. Baseline information:

(xxiv) All LINS fall under a single pourashava, so their baseline profiles are nearly identical, differing only in aspects of Physical Cultural Resources.

122. The key baseline information on the Ershadpur Gorsthan Para LIN area is depicted in below table:

SI	Key environmental and social aspects	Key baseline information
1	Noise	Noise pollution is a major constraint to the environmental quality of the study area as there is a highway running alongside it. There are no sources of noise such as local noise, industries, etc.
2	Air	The current air quality in the LIN area of Alamdanga Municipality is moderate with pollution levels that may affect sensitive groups. The air quality in the LIN area of Alamdanga is moderate mainly due to particulate matter emitted from brick kilns, vehicle emissions. The final master plan of the municipality shows that air pollution is a serious environmental concern that is having a favorable impact on many parts of the LIN area of Alamdanga Municipality.
3	Ground water	The water level in Chuadanga district is normal. The average water layer here is 200 feet and clear water is always available here, which does not cause any environmental problems.
4	Surface water	Supriyo water is available in Amdanga Municipality. But the amount of iron in the water is high.
5	Protected Area (PA)	In terms of security, Alamdanga Municipality is a completely safe place with no wildlife nuisance, which has no impact on the projector.
6	Cultural Heritage	In terms of cultural heritage, Alamdanga Upazila has some Baul music tradition and the people here retain these cultural aspects. Religious and cultural aspects are given great importance.
7	Physical Cultural Resources	Located in Alamdanga Upazila of Chuadanga District, Bangladesh, it is rich in both physical (natural environment, geography, natural resources) and cultural (various ethnic communities, traditions, religious sites) resources.

x. Environmental Impact Assessment and Mitigation

123. (The review process will be greatly facilitated by comprehensive and detailed answers in this section. When completing this section, please state a specific reason [i.e., "there will be no impacts to environment because this project will not involve any disturbance"] and cite a source [i.e., local master plan, previous environmental

assessment, correspondence with Pourashava Office, etc.] to support a response of “no impact (-)” or “potential to impact (+).”

124. The LIN toilets are being considered with two types of design: (i) Type A, and (ii) Type B. Type A is considered with septic tank whereas Type B considered with pit along with soak pit. The note from the Pourashava engineers taken that in many of the LIN area there is shortage of space for constructing septic tank where soak pit is designed with the pit. However, such soak pit has mitigation measure for ground or surface water contamination (e.g., sand and brick chips envelope on the bottom of pit). Moreover, municipality will ensure good maintenance for such toilets having soak pit.
125. The demolition, construction, and waste management activities in the LIN area may generate several short-term and localized environmental impacts. Dust from demolition, debris movement, and broken footpaths can impair air quality, while demolition and temporary camps may create unhygienic conditions. Noise from demolition is minimal. Since project activities are scattered and not near water bodies, the likelihood of surface or groundwater pollution is low. Pollution from construction work yards is minimal, requiring only limited environmental monitoring. Finally, urban construction activities such as excavation and earthmoving carry inherent occupational safety risks, particularly related to working at heights or in excavated areas, though these risks are reversible with proper mitigation.

Pre-construction and Construction Phase

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Demolition of existing infrastructure: - Dust from demolition - Noise from demolition - Waste from demolition -Un-hygiene of demolition	(-)	-Different activities regarding the demolishing the existing structure (part) and broken footpath generate dust which impair the air quality -Unhygienic/unsanitary environment due to demolition of old/poor infrastructure and construction of camps in the development site -Creation of noise from demolition is negligible	-Water will be sprayed to control the dust, which is the main way to suppress dust in the working site as per necessary Appendix-2 EMP cost. -Apply water to disturbed soils after demolition is completed or at the end of each day of cleanup. - Transport/handle debris from demolished infrastructures in a hygienic manner. -Tree plantation at the LIN boundary/open space/slope on the basis of space availability -Collection of construction debris and dispose in a hygienic way by LINIC and it is included in engineering estimate item (LGED rate schedule) -PIU/LINIC will strongly monitoring the construction activity and instant action will take.	PIU, LINIC
Dust Management	(-)	-Moving debris/sediments may create dusts during dry season. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures	- Use tarpaulins to cover soils, sand and other loose material. - Water will be sprayed to control the dust when necessary	PIU, LINIC
Community facilities and services - Blockage to access roads - Fire & Safety	(-)	- Construction works will impede the access of residents and businesses in limited cases. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures. Poor safety signage and lack of barriers at work site and trenches will create hazard to pedestrians and children. - Chances of fire only from open cooking in the area which may create major loss of property to the residence in the LIN.	-Provide safety signage at all sites visible to public that is monitored by PIU/LINIC and it will be confirmed in semi-annual monitoring report -Provide safety barriers near any trenches, and cover trenches with planks during non-work hours. -LINIC's activities and movement of staff will be restricted to designated construction areas. -Consult with Pourashava local authority on the designated areas for stockpiling of, soils, gravel, and other construction materials. -If the LINIC chooses to locate the work camp/storage area on private land, he must get prior permission from the environment management specialist and landowner.	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
			<ul style="list-style-type: none"> -Recycling and the provision of separate waste receptacles for different types of waste shall be encouraged. -Workers need to be made aware of the following general rules: (i) no alcohol/drugs on site; (ii) prevent excessive noise; (iii) construction workers are to make use of the facilities provided for them; (iv) no fires permitted on site except if needed for the construction works; and (v) no worker may be forced to do work that is potentially dangerous or that he/she is not trained to do. - Bucket filled with sand will be kept at the construction zone. 	
Air/water/noise quality monitoring	(-)	<ul style="list-style-type: none"> - Component of works are scattered in the LIN area, which are not located near-by any water stream/canal. There stands little probability of surface and ground water pollution, as nothing like gasoline, oil, road salts and chemicals are dumped on the adjoining ground. - Construction work yards are located in small areas and its activities are also minimum. Here the intensity of pollution from air/dust/ noise is also very low and short-term. As such little monitoring of water/air/noise pollution parameters is needed at the surroundings work place. 	<ul style="list-style-type: none"> - No need for Air/water/noise quality monitoring in construction area by test due to short-term effect. - Water will be sprayed to control the dust, when necessary, it will be visually observed 	Not required
Drainage congestion/water logging	(-)	<ul style="list-style-type: none"> - Clogging/stagnation of flow in the storm drain, source of waste water is LIN dweller used water (bathing and washing) - Backflow of water through drain (e.g., due to high water level at downstream discharge point, such as khal/ river) - Drainage congestion/water logging due to cross road/construction activity 	<ul style="list-style-type: none"> -Designing drain considering the downstream discharge point; adequate slope and x-section; RCC cover for drain, where appropriate - Not allowing direct connection to drain from toilet -The out fall of proposed drain is primary to secondary drain and water quality will be monitoring as per necessary (in Appendix-2 EMP cost) 	PIU, LINIC
Waste Management	(-)	<ul style="list-style-type: none"> - Uncollected wastes blocked the drainage and sewage system. 	<ul style="list-style-type: none"> - Follow the waste management plan given in Appendix 4 during construction period. - Encourage 3R (reduce, reuse, and recycle) 	PIU/LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
		<ul style="list-style-type: none"> - Air, water and soil pollution during the waste collection - Smoke from the open burning of uncollected waste. - The loading and unloading of waste at transfer station pollutes the air and soil. - Odor from waste disposal site and composting system. - Contamination of ground water by leachate. 	<ul style="list-style-type: none"> - Encourage composting of kitchen waste on the basis of land availability otherwise transfer waste by hand trolley/van that is available in Pourashava and it is inspired by EMP implementation training - Adequate distance between waste bin and water body. - Adequate distance should be maintained between the waste collection point and house - Coordinate with the municipality for collection of domestic waste and disposal at the designated site 	
Workers H & S	(-)	<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 in height and excavation works. Potential impacts are negative and long-term but reversible by mitigation measures.</p>	<ul style="list-style-type: none"> - Comply with requirements of GoB Labor Law of 2006, Labor law and services rules 2015 and all applicable laws and standards on workers H & S. - Ensure adequate safety and provisions as per the Appendix 5 in relation to the COVID-19. - Produce and implement a site health and safety (H&S) plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use PPE at all times; (iii) providing (H&S) training for all site personnel; (iv) Providing fire extinguisher at construction site (v) documenting procedures to be followed for all site activities; and (vi) maintaining accident reports and records. - Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances. -Ensure (i) uncontaminated water for drinking, cooking and washing, (ii) clean eating areas where workers are not exposed to hazardous or noxious substances; and (iii) sanitation facilities are available at all times. - Provide H&S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers; 	PIU, LINIC

Environmental issues/ concerns/components/ parameters/value	Potential impacts (+/-)	Description of impacts/ problems	Environmental mitigation/ enhancement measures	Responsibility
Sanitation/excreta management	(-)	-Noise and soil pollution during the construction but short- term -Microbial contamination to the ground water from the pit latrine. -Waste during loading of sewage from the sanitary communal containers. -Odor	-Design and installation of sanitary toilet to stop the microbial contamination to the ground water. -Adequate height with proper ventilation. -Water supply and hand wash facility -Regular cleaning and monitoring -5-10m distance should be maintained between toilet and tube-well	PIU, LINIC
Water supply (Tube well)	(-)	-Noise, dust and soil pollution during the construction but short- term	-The digging of soil should follow the proper design to avoid the pollution and water logging -The outlet of tube well should be connected with soak pit to existing drain. -A person has been engaged for cleaning and maintenance of Tube well. -One set of maintenance equipment of Tube well is kept with LINIC selected person.	PIU, LINIC
Footpath/connecting Road	(-)	-Dust and noise pollution from construction work	-Watering to reduce dust -Tree plantation on the footpath/road slope	PIU, LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Tube well, Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the construction workers	-LINIC and all workers will be required to undergo EMP implementation including waste management, Standard operating procedures (SOP) for construction works; health and safety (H&S), core labor laws, applicable environmental laws, etc. - Provided training on use of TW, toilet, solar panel and tree plantation etc. during preparation of Community Action Plan (CAP) -Training is a continuous process by Capacity Development Fund of Pourashava. It is financed by IUGIP-III-AF.	Pourashava PRAP budget

- (Construction Phase (For any "negative" impacts "Environmental mitigation measure" may be suggested. For any positive impacts environmental enhancement program may be carried out)

Operation Phase/Post-Construction

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Water logging in drains and footpaths	(-)	Run-off from debris/ sediments from repair and maintenance of Footpath and drain which may cause siltation and reduction in the quality of adjacent bodies of water. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> - Take all precautions to prevent run-off into streams, water courses, or irrigation system. Install temporary silt traps or sedimentation basins along drainage leading to the water bodies. - Remove all debris/sediments immediately. - Dispose debris/sediments at a designated site such as landfill. 	PIU, LINIC
Water quality monitoring (Arsenic, Iron, Chloride, Manganese etc.) (twice a year)	(-)	Due to polluted water, people may suffer from dangerous diseases like cholera, dysentery, diarrhea, Gastrointestinal disease and jaundice etc.	Necessary test will be performed occasionally by testing water sample from the tube wells (Pourashava PRAP budget)	PIU, LINIC
Solid Waste management	(-)	<ul style="list-style-type: none"> -Due to open dumping ambient environment will be polluted and will be breeding place of flies -Threat to human health and/or the environment -Due to bad odor, nuisance to sensitive receptors 	<ul style="list-style-type: none"> - There is an existing sanitary landfill (SLF) of the Pourashava under IUGIP-III/AF and the waste management system will be connected with this system obviously. - The waste will soon be carried to the proposed SLF by Pourashava SWM system - Develop rodent and fly control plan - Ensure residual waste is not left in bins and allowed to decompose for a long time 	PIU/LINIC
Community H & S - Walkway/drain - Toilet conditions - Drinking water quality (Tube well)	(-)	<ul style="list-style-type: none"> - The inhabitants may dump waste on the walkway - Bricks used in BFS, may be stolen when CC will wear out with the passage of time - Inadequate supply of water to toilet may spread bad odor - Improper use may spread germ - Irregular cleaning may create unhygienic condition - Epidemic may spread due to deteriorated quality of water 	<ul style="list-style-type: none"> - Awareness to the inhabitants to discourage dumping of waste on the walkway - Ensure routine maintenance by the LINIC - Continuous supply of water will be provided - Awareness to user for proper use of latrine - LINIC will engage a person to clean and maintenance of Toilet and tube well regularly - Periodic maintenance of Tube well and Toilet will be done by Pourashava PRAP budget -Inspect soak well periodically to determine filling levels. -Scheduled Desludging: Arrange timely desludging before overflow occurs. --Use mechanical desludging systems instead of manual entry.Follow confined-space entry protocols if entry is unavoidable. -Train workers on safe handling of human waste and emergency procedures. -Transport and dispose of sludge only at approved treatment facilities. 	PIU/LINIC

Environmental issues/concerns/ components/ parameters/value	Potential impacts (+/-)	Description of impacts/problems	Environmental mitigation/enhancement measures	Responsibility
Dustbin	(-)	<ul style="list-style-type: none"> - Improper use of dustbins - Irregular cleaning of dustbin may create bad odor and birth place of flies 	<ul style="list-style-type: none"> - Awareness to the LIN dwellers for proper use of dustbins - LINIC will engage a person who will monitor the cleaning the dustbin regularly 	PIU/LINIC
Environmental awareness Training/workshop/meeting for the community (Maintenance of Toilet, Planted Tree, Solar Panel)	(+)	-Increase environmental awareness among the community	<ul style="list-style-type: none"> -Twice a year Training/workshop/ meeting for maintenance of TW, Toilet, Planted Tree and Solar panel will be organized by LINIC/PIU and financed by Pourashava PRAP fund. -Provided training on maintenance of TW, toilet and Planted Tree, solar panel during preparation of Community Action Plan (CAP) Inventory Management: Keep records of all solar street light components (panels, batteries, controllers). -Proper Storage: Store damaged or expired components safely in designated areas. -Authorized Disposal: Send batteries, panels, and electronic parts to licensed e-waste recyclers; do not burn or dump. -Staff Training: Train maintenance personnel on the safe handling, segregation, and reporting of e-waste. -Replacement Plan: Establish a system for replacing non-functional components and managing them as e-waste. -Regular maintenance of planted tree by LIN dwellers 	Pourashava PRAP budget

- (Operation Phase (For any “negative” impacts “environmental mitigation measure” may be suggested. For any positive impacts environmental enhancement program may be carried out)

y. Environmental Management Plan (EMP)

(xxv) Monitoring Plan (Construction and Operation Period)

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
Water quality	<p>-Contamination (Arsenic, Iron, Chloride, Manganese etc.) or degrading of water quality of drinking water well</p> <p>-Contamination (DO, BOD, COD, TDS, TSS, Turbidity etc.) or degrading of water quality of surface water</p>	<p>-Water quality of tube well will be tested after installation/construction by LINIC and it is included in engineering estimate (Item LGED rate schedule)</p> <p>-Water quality of Tube well will be monitored periodically and DoE standard will be maintained properly.</p> <p>-The outlet of household waste water would be connected with Pourashava existing drain</p> <p>-PIU/LINIC will strongly monitoring the performance of the interventions</p>	<p>Twice a year/Yearly</p> <p>Operation /completion work</p>	Pourashava
Dust from drains, footpaths, toilets, street light, dustbins	<p>-Air and noise pollution may occur due to construction/operation</p> <p>-Irregular cleaning may damage the interventions</p>	<p>-Use tarpaulins to cover soils, sand and other loose material.</p> <p>-Water will be sprayed to control the dust when necessary</p> <p>-Regular maintenance/cleaning</p> <p>-PIU/LINIC will strongly monitoring the performance of the interventions</p>	As per necessary	PIU/LINIC
Acoustic environment	Temporary increase in noise level and vibrations. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	Plan activities in consultation with Pourashava local authority so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance.	No need for noise quality monitoring due to short-term project	Pourashava
Biodiversity	Activities in the built-up area of Pourashava. There are no protected areas in or around Sub-project sites, and no known areas of ecological interest.	<ul style="list-style-type: none"> No trees, shrubs, or groundcover may be removed or vegetation stripped without the prior permission. Prevent workers or any other person from removing and damaging any flora (plant/vegetation) and fauna (animal). 	No need for monitoring due to short-term project	Pourashava
Existing provisions for pedestrians and other forms of transport	Footpath closure is not anticipated. The impacts are negative but short-term, site-specific within a relatively small area and reversible by mitigation measures.	<ul style="list-style-type: none"> Maintain safe passage for pedestrians during maintenance activities. Notify affected sensitive receptors by providing sign boards informing nature and duration of maintenance activities and contact numbers for concerns/complaints. Leave spaces for access between mounds of soil. 	Duration of construction works	Pourashava

Parameters/issues/criteria to be monitored	Problems	Mitigation Measures	Monitoring Frequency	Budget
		<ul style="list-style-type: none"> • Ensure any damage to properties and utilities will be restored or compensated to pre-work conditions. 		
Worker's health and safety	Workers need to be mindful of the occupational hazards working in confined spaces such as closed drains. Potential impacts are negative and long-term but reversible by mitigation measures.	<ul style="list-style-type: none"> • Comply with requirements of Government of Bangladesh Labor Law of 2006, Labor Law services rule 2015 and all applicable laws and standards on workers H&S. • Ensure adequate safety and provisions as per the Annex 8 in relation to the COVID-19. • Ensure that all site personnel have a basic level of H&S training. • Produce and implement a O&M and H&S plan which include measures as: (i) excluding the public from worksites; (ii) ensuring all workers are provided with and required to use personal protective equipment (reflectORIZED vests, footwear, gloves, goggles and masks) at all times; (iii) providing H&S training for all site personnel; (iv) providing fire extinguisher at construction site • Arrange for readily available first aid unit including an adequate supply of sterilized dressing materials and appliances • Disallow worker exposure to noise level greater than 85 dBA for duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. 	Duration of construction works	Pourashava/LINIC

z. Public Consultations

126. A public consultation meeting was held at Ershadpur Gorsthan Para LIN on 26 October 2024. A total of 30 participants attended the meeting where 21 were female. SIC members, teachers, counselors, farmers, female workers, housewives, and small business holders were present in the meetings. The safeguarding team of PRS-UGIIP visited the slum of the Paurashava. Consultants described environmental and social issues in the context of development aspects and potential impacts of the infrastructure development work of the slums. The meeting was presided over by the Executive Engineer of Alamdanga Paurashava.

Time of Public Consultation

Site : Ershadpur Gorsthan Para LIN

Time : 04:00 PM

127. Participants of the meeting exchanged views with the safeguard team about their sufferings and the remedial measures to be taken to overcome it. At present the LIN dwellers use hanging and pit latrine, which is a threat to public health and un-hygienic as well. They insisted for a community latrine to overcome it. The drinking water was the burning issue. The water available at the LIN was inadequate and non-potable due to impurities (e.g., excessive iron). They urged for sufficient potable water at their door step. Water logging was an additional problem of the LINs. Their yard inundates during rainy season. It creates an un-hygienic condition of living. They wanted immediate relief from it, through an installation of proper drainage system. Inadequate internal road communication made their livelihood slower. A proper footpath would ease their safe movement. They asked for a proper footpath system in their LIN. There is inadequate dustbin in or around the LINs. As such they cannot dump the waste specially the kitchen waste properly. It creates bad odor and un-hygienic condition in and around the LIN. They wanted installation of dustbins. Inadequate light during night time is an additional problem. Social nuisance creates at it. Pilferage and unsocial activities promote in the dark. The LIN dwellers urged for street lighting system in and around the LINs.

Experts discussed regarding safeguard issues; focusing the sub-project components with its importance including socio economic and health hazard. Also discussed, environmental and social impacts and mitigation measures about air, dust, water pollution and waste management.

As per discussion and feedback from the SDO and all LINIC members, the LINs were selected through consultation with the local leader/councilors living in the Pourashava area. According to the discussion, the participants appreciated the proposed LIN improvement components, as it will improve the health and sanitation conditions of the LIN which will provide positive socio-economic impact.

The LIN dwellers demanded for more latrines and also demanded separate latrines for women. The chairman of the meeting in his concluding speech mentioned that as per allocation of fund, elements of the proposed sub-project have been selected by the LIN dwellers. The sites have been selected based on the available space spreading all over the LIN. However, maximum old sites will be used and nobody will be affected. The toilet designs have considered separate unit for the women and it would not be possible to provide individual toilets. He requested co-operation from the LIN dwellers during construction activities. The meeting was concluded with thanks from the chair to the participants. (Appendix 3).

Grievance Redress Mechanism

116. Grievance redress mechanism (GRM) has been established in the Pourashava to redress quickly social, environmental and any other project related grievances from the affected or any aggrieved person/ party with the creation of grievance redress cell (GRC) comprising of:

117. Affected or aggrieved persons will have the flexibility of conveying grievances/ suggestions in writing and dropping them in complaints/suggestion boxes that have already been installed in the Pourashava or through telephones, e-mails, by post or by writing in the complaint register in the Pourashava office. The cost related to environmental grievance redress are included in social and resettlement cost estimates.

aa. Grievance Redresses Process

118. 1st Level Grievance: Names and contact phone numbers of the PIU safeguard focal person will be posted on the construction site at visible location (construction site signboard) to provide first level of contact for quick resolution of the grievances. The LINIC and the PIU safeguard focal person can immediately resolve on-site the grievances in consultation with each other within 7 days of receipt of a complaint/ grievance.

2nd Level Grievance: The grievances that cannot be redressed within 7 days at field/ ward level will be reviewed by the grievance redress cell (GRC) with support from PIU designated safeguard focal person and MDSC regional environment and resettlement specialists. The GRC will attempt to resolve the complaints/ grievances within 15 days.

3rd Level Grievance: The PIU designated safeguard focal person will refer the unresolved or, the major issues to the PMU safeguard officer and MDSC safeguard specialists. The PMU, in consultation with the above-mentioned officer/ specialists, will resolve the issues within 30 days. Despite project GRM, an aggrieved person shall have access to the country's legal system at any stage, and assessing can go parallel.

119. If the GRM cannot resolve the issues, the affected person also can use the ADB Accountability Mechanism (AM) through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB Bangladesh Resident Mission (BRM) in any of the official languages of ADB.

bb. Recordkeeping:

120. Records all grievances including date of receive and detailed contract address of complainant, nature of grievance, agreed corrective actions, and the dates these were affected and final outcomes will be kept by PIU. The grievances recorded and resolved and the outcomes will be displayed/ disclosed in the PMU office, Pourashava office, on the web and reported in the semi-annual monitoring reports.

Periodic review and documentation of lessons learnt: The PMU safeguard officer will periodically review the functioning of the GRM in each Pourashava and record information on the effectiveness of the mechanism.

Conclusion

121. So, there will be no negative impact for the implementation of the sub-project and if there is any that would be very minimum most of which are construction related, localized and for short-term. Moreover, there will be a lot of positive impacts such as: Moreover, there will be a lot of positive impacts such as:

- Environmental & sanitation conditions will be improved.
- LIN dwellers will have comfortable walkway and improved drainage.
- Water-logging will be removed which will eliminate the mosquito breeding resulting the reduction of many diseases including waterborne diseases.
- LIN dwellers will have facilities for pure drinking water and facilities for solid waste disposal.
- There will be savings in the medical treatment cost. Thus, health conditions will be improved etc.

Appendix 1: Environmental screening and categorization Form

Eligibility & Categorization Form

Country/ Project No./ Project Title	Improving Urban Governance and Infrastructure Program (IUGIP)
Subproject title	Low Income Neighborhood Improvement Community upgradation RBL sub-project
Project Executing Agency	LGED, Dhaka
Project Implementing Agency	Alamdanga Pourashava
Modality	RBL progress
Is Project eligible for funding under the RBL Program? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Ref DOE of ECR 2023)	
Environment Impact categorization <input checked="" type="checkbox"/> New <input type="checkbox"/> Re categorization – Previous Category []	
[] Category A (Cat A - Not eligible for funding under the RBL)	
[<input checked="" type="checkbox"/>] Category B [] Category C	
(Ref Checklist- Rapid Environmental Assessment (REA) checklists)	
Prepared by: Musarrat Nower Enam Jr. Environmental Specialist	
Environmental Specialist (Name, title, signature):	
Date;	
For Project Executing Agency / PMU (Name, title, signature):	

Checklist 1 - Project Exclusion Screening Checklist for Environmental Safeguards

The following checklist shall be completed before inclusion of any activity/subproject in the RBL program. If Answer to any of the mentioned criteria is 'Yes' then such activity/subproject will not be eligible and shall be excluded from the RBL program.

Questions		Response		Remarks /Clarifications
		Yes	No	
1.	Type and Nature of Subproject			
1.1	Proposed activity / subproject classified under the Red Category per ECR 2023?		<input checked="" type="checkbox"/>	Complied the ECR 2023 for classification
1.2	Proposed activity/ subproject includes components involving prohibited investment activities per ADB SPS?		<input checked="" type="checkbox"/>	Complied REA for prohibited list
2.	Location of Proposed Subproject		<input checked="" type="checkbox"/>	
2.1	Proposed activity/subproject located in ecologically sensitive areas such as protected areas (national parks, wildlife sanctuaries), notified wetlands or wetlands of significant value, critical habitats?		<input checked="" type="checkbox"/>	
2.2	Proposed activity/subproject located in world heritage sites, and/or within 250 m from the core zone of outer boundary of the world heritage area		<input checked="" type="checkbox"/>	
2.3	Proposed activity located within monuments/sites protected by Department of Archeology, Government of Bangladesh?		<input checked="" type="checkbox"/>	
3.	Potential impacts			
3.1	Proposed activity/subproject may significantly impact mangroves, wetlands, estuaries, buffer zones of protected Areas etc.?		<input checked="" type="checkbox"/>	
3.2	Proposed activity/subproject may potentially lead to encroachment/damage of physical cultural resources with significant value and/or places recognized by government agencies (e.g., Department of Archeology), which may include places of worship, cultural heritage sites, graves/cemeteries, historical monuments, etc.		<input checked="" type="checkbox"/>	
3.3	Proposed activity/subproject likely to have significant adverse environmental impacts that are irreversible, diverse, or unprecedented, and may affect an area larger than the sites or facilities subject to physical works (i.e., category A projects as per ADB SPS 2009)		<input checked="" type="checkbox"/>	

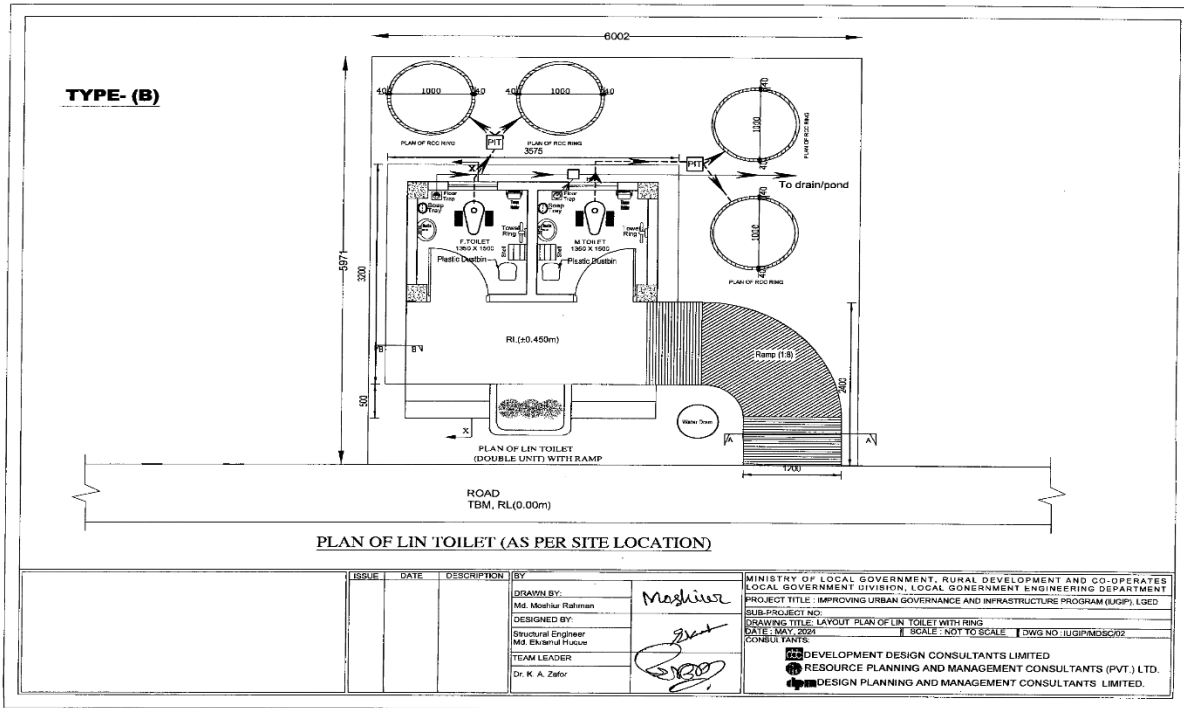
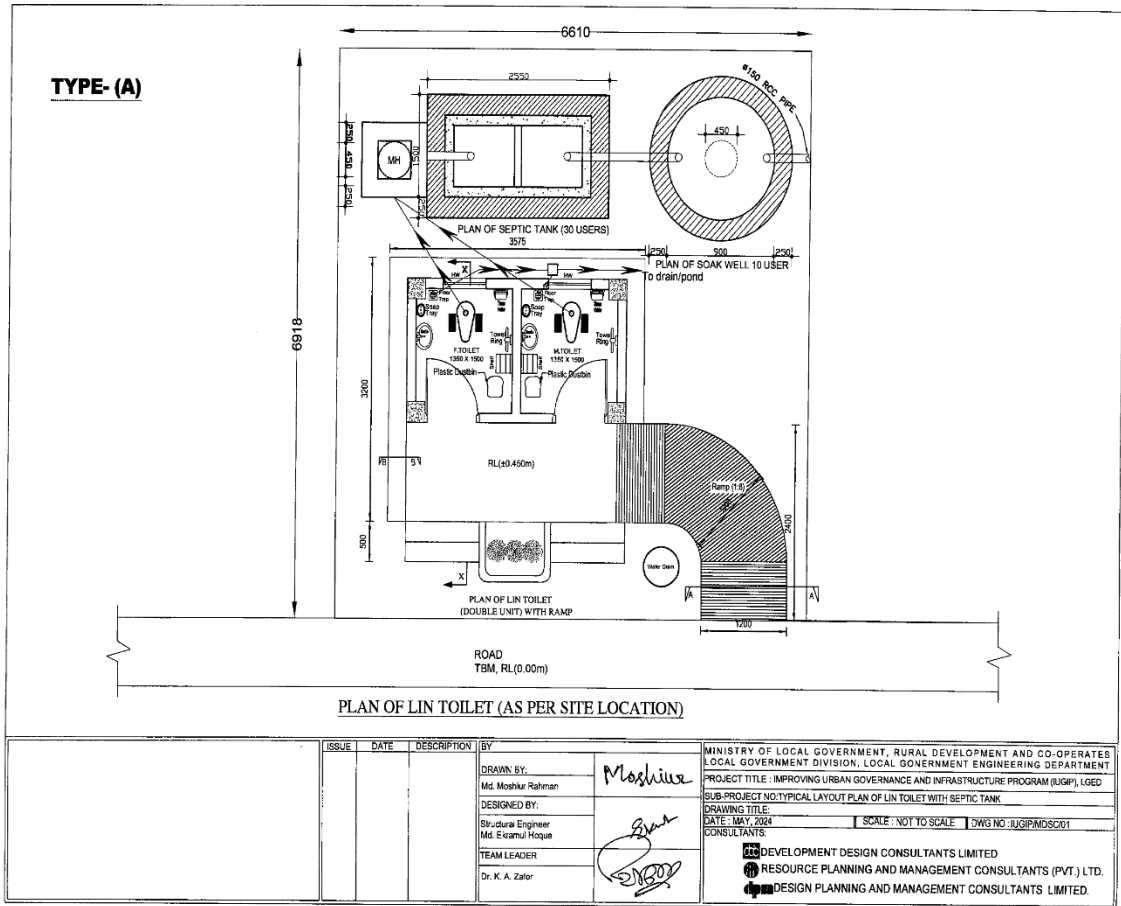
REA check list

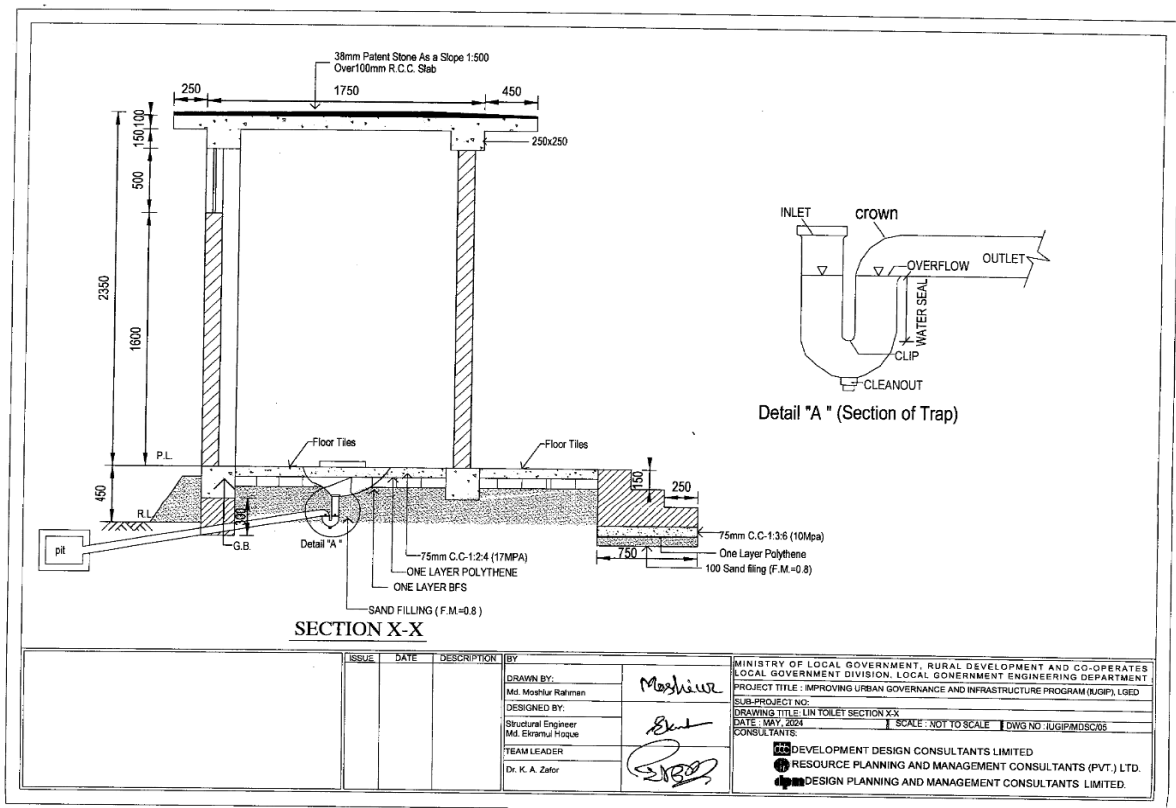
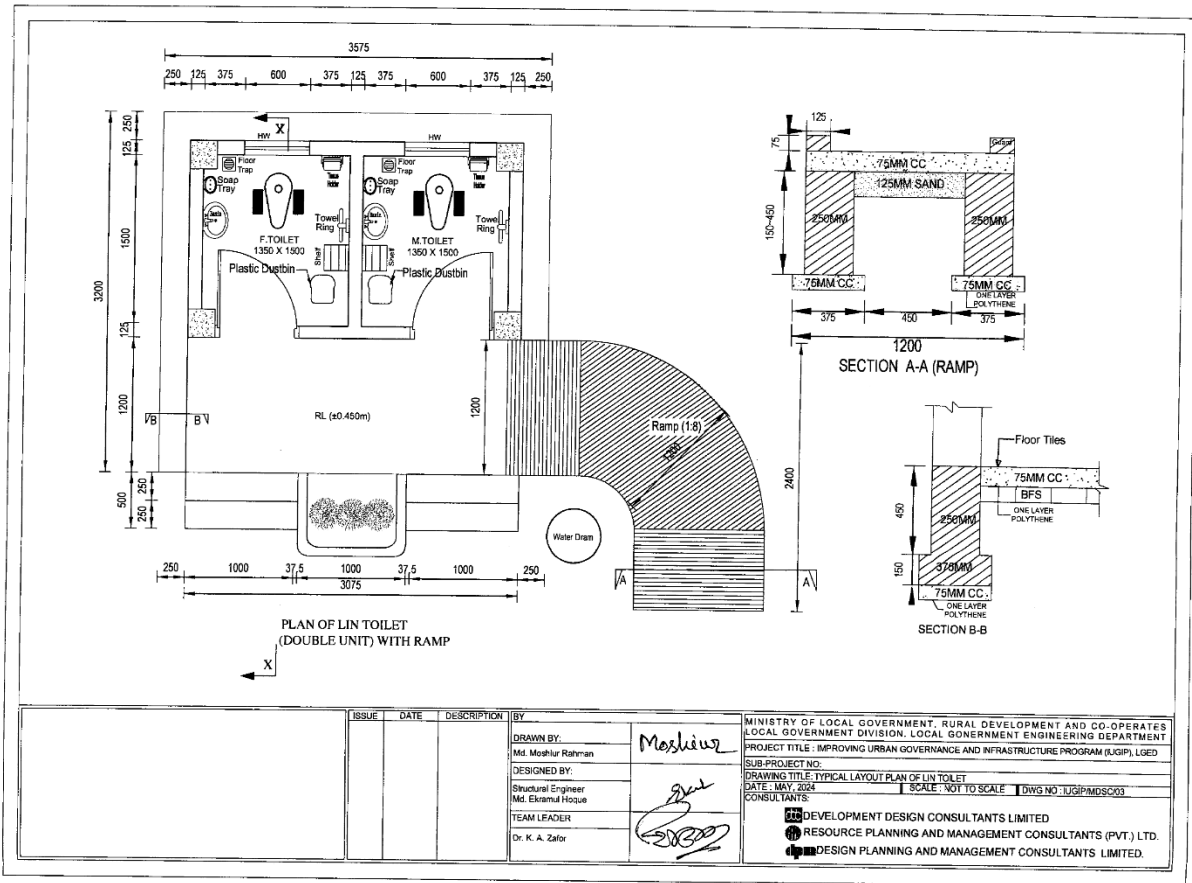
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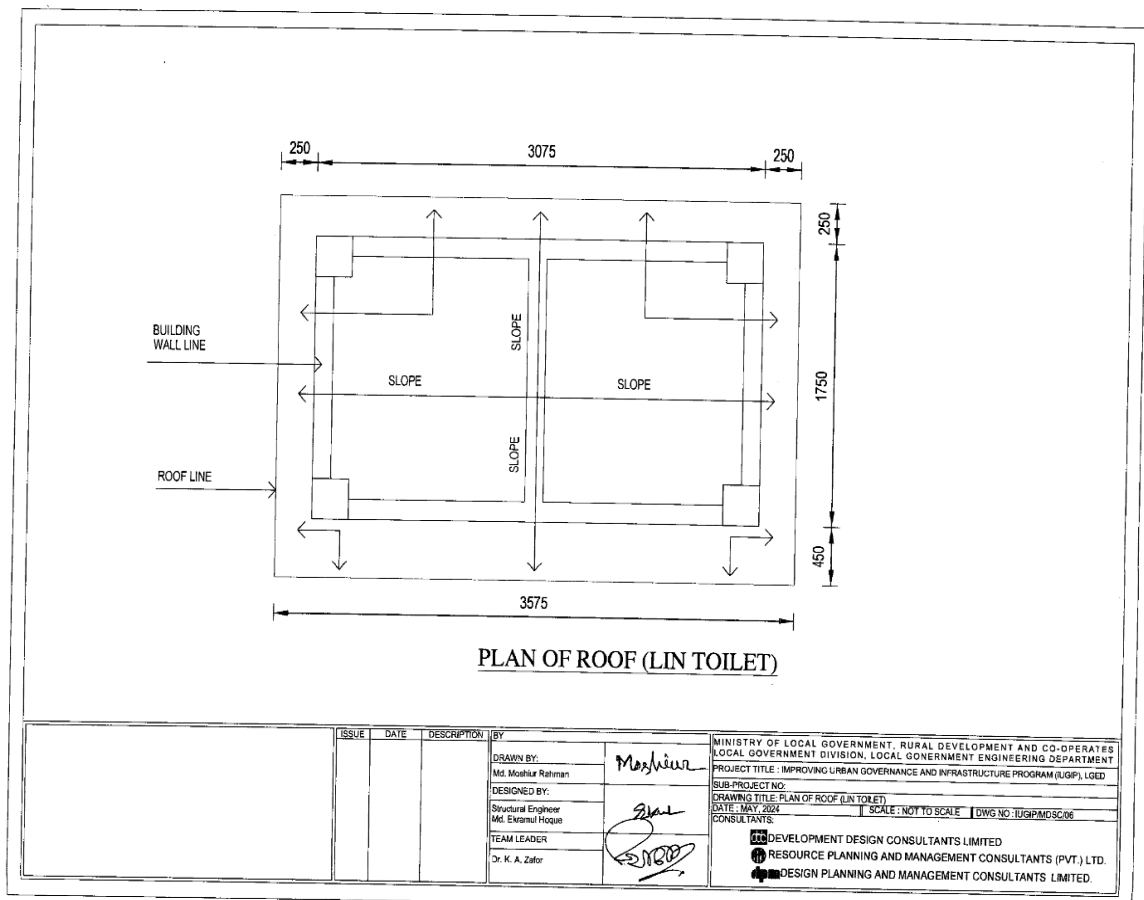
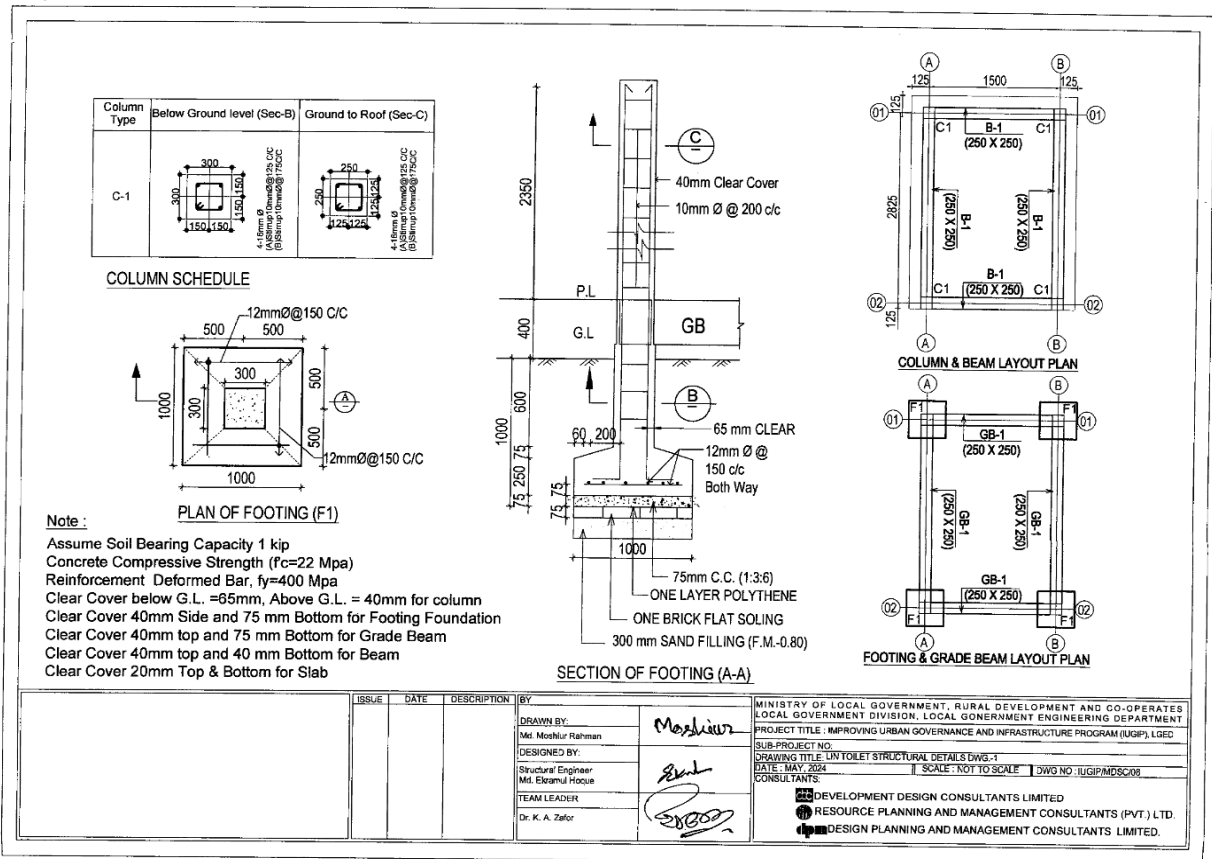
- i. The project team completes this checklist to support the environmental classification of a project. It is to be attached to the environmental categorization form and submitted to the Project Management Unit, for endorsement by the Environmental Officer of PMU and for approval by the Project Director
- ii. This checklist focuses on environmental issues and concerns
- iii. Answer the questions assuming the “without mitigation” case. The purpose is to identify potential impacts. Use the “remarks” section to discuss any anticipated mitigation measures

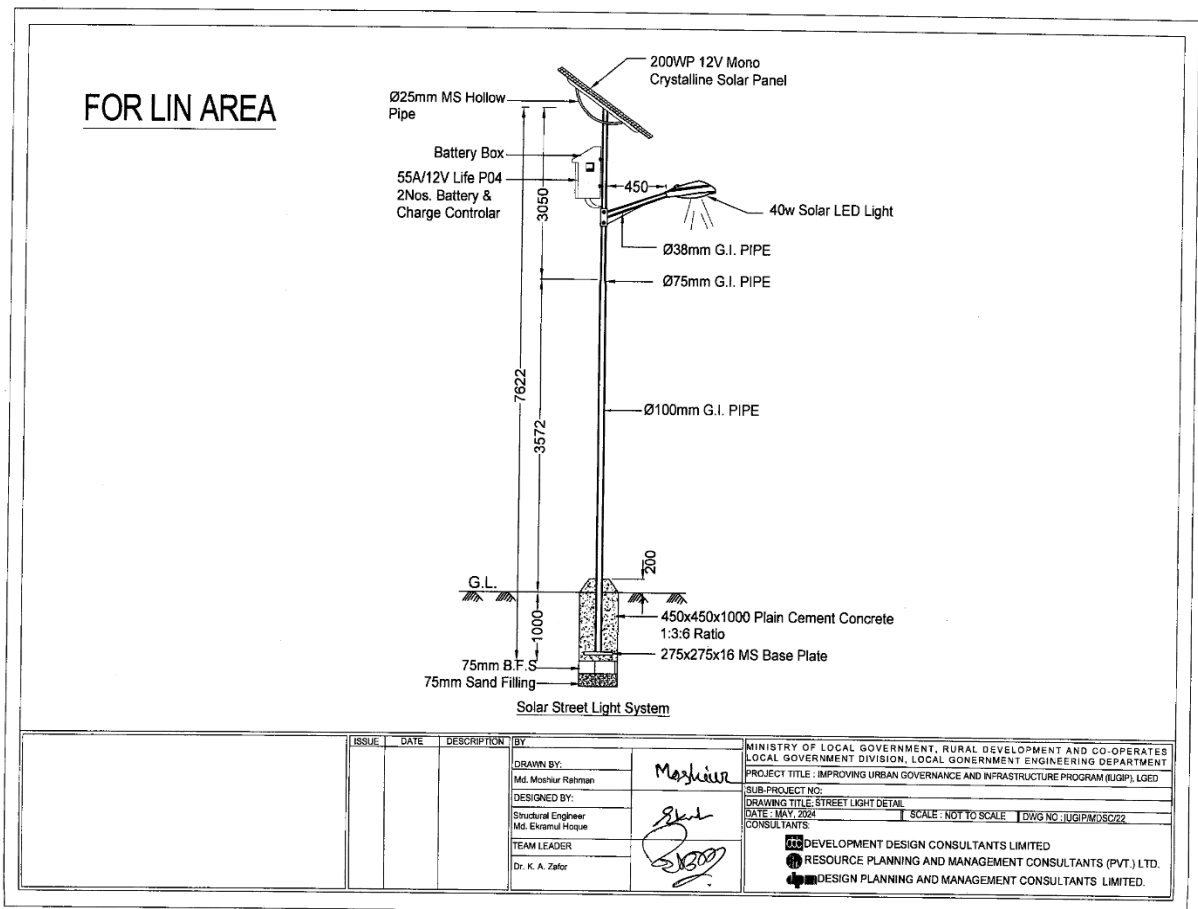
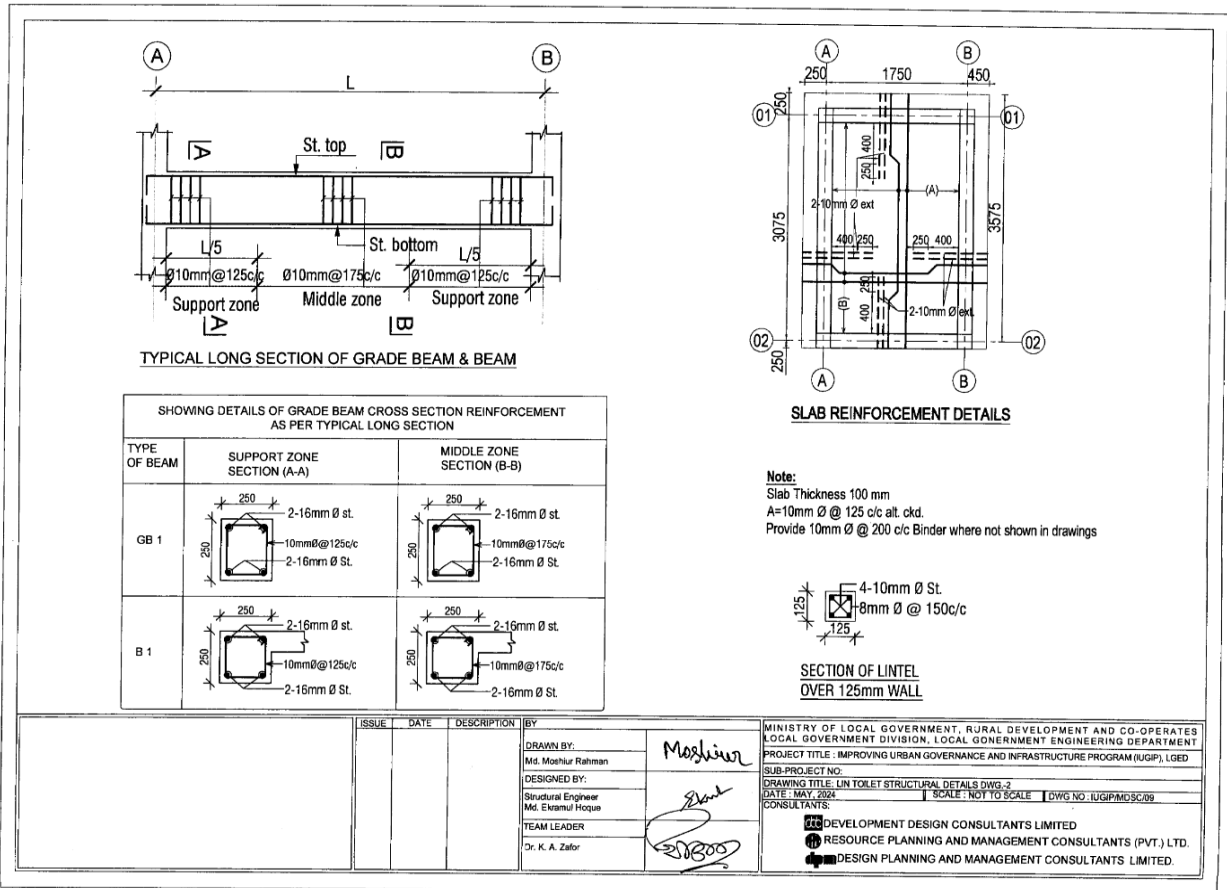
Sl no	Screening Questions	Yes	No	Remarks
A. Project Siting Is the project area adjacent to or within any of the following environmentally sensitive areas?				
1	Cultural heritage site		√	There is no protected area at the proposed site
2	Protected Area		√	There is no wetland area at the proposed site
3	Wetland		√	Not Applicable
4	Mangrove		√	Not Applicable
5	Estuarine		√	Not Applicable
6	Buffer zone of protected area		√	There is no special protected area for biodiversity within 5km aerial distance from the proposed site
7	Special area for protecting biodiversity		√	There are no buildings of archaeological and cultural heritage importance close to the sub-project.
8	100m distance from flowing water way?		√	
9	20m distance from static water supply?		√	
10	Training on before construction/ SOP and PPE, health and	√		
11	Proper way of fecal dumping generated wastes?	√		
12	Separate toilet for male and female?	√		
13	Toilet has good access for community people?	√		
14	Community toilets ram and hand railing facility for disabled and old aged person?	√		
15	Any Biogas Generation Plan nearby?		√	
16	H & S measures maintained by workers during construction /Management of disinfection?	√		
17	Proper water supply & electricity availability camp site Ensured?	√		
18	Toilet swear outlet connected to a Pourashava sewerage?	√		
19	community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and		√	
20	Proper Ventilation access availability?	√		

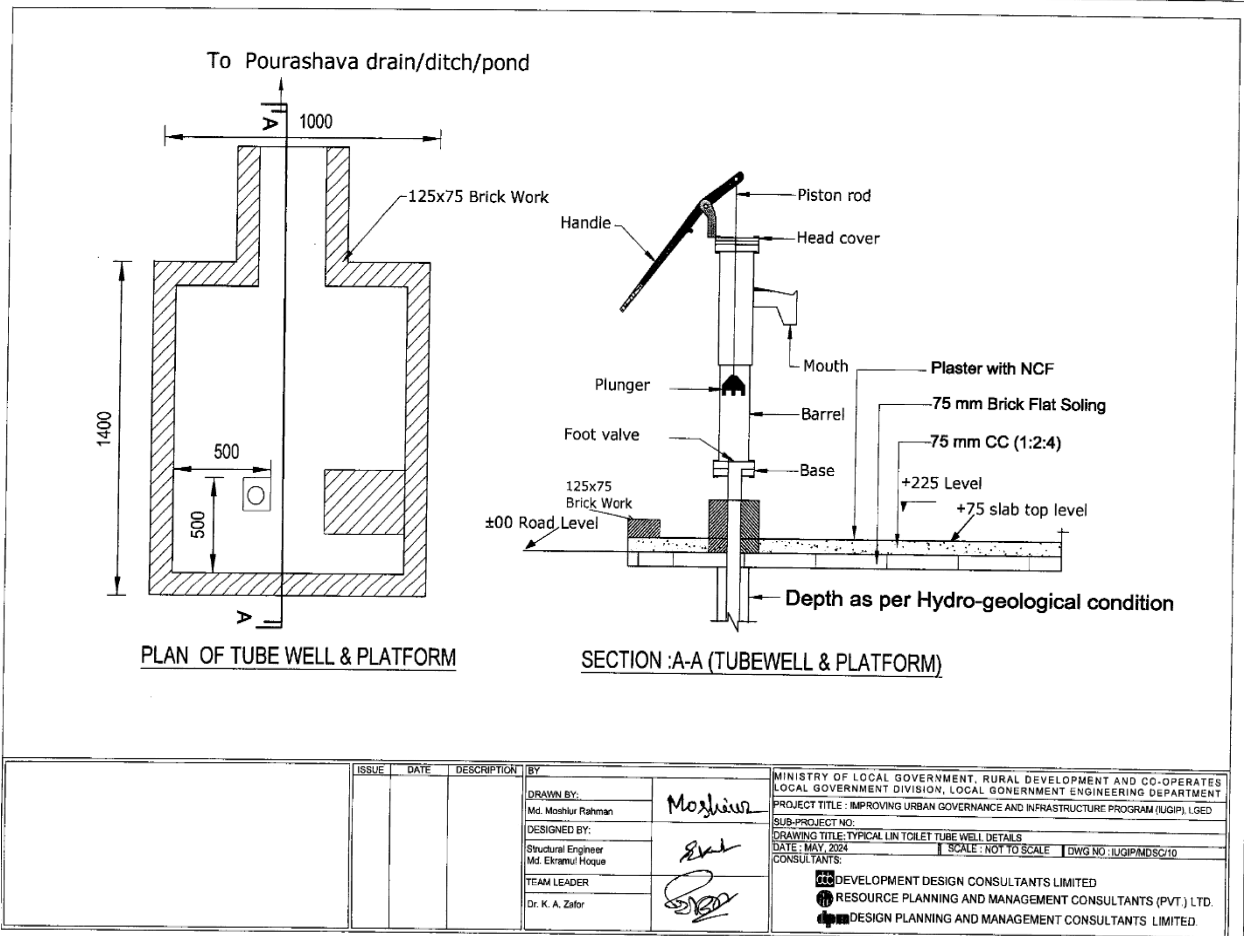
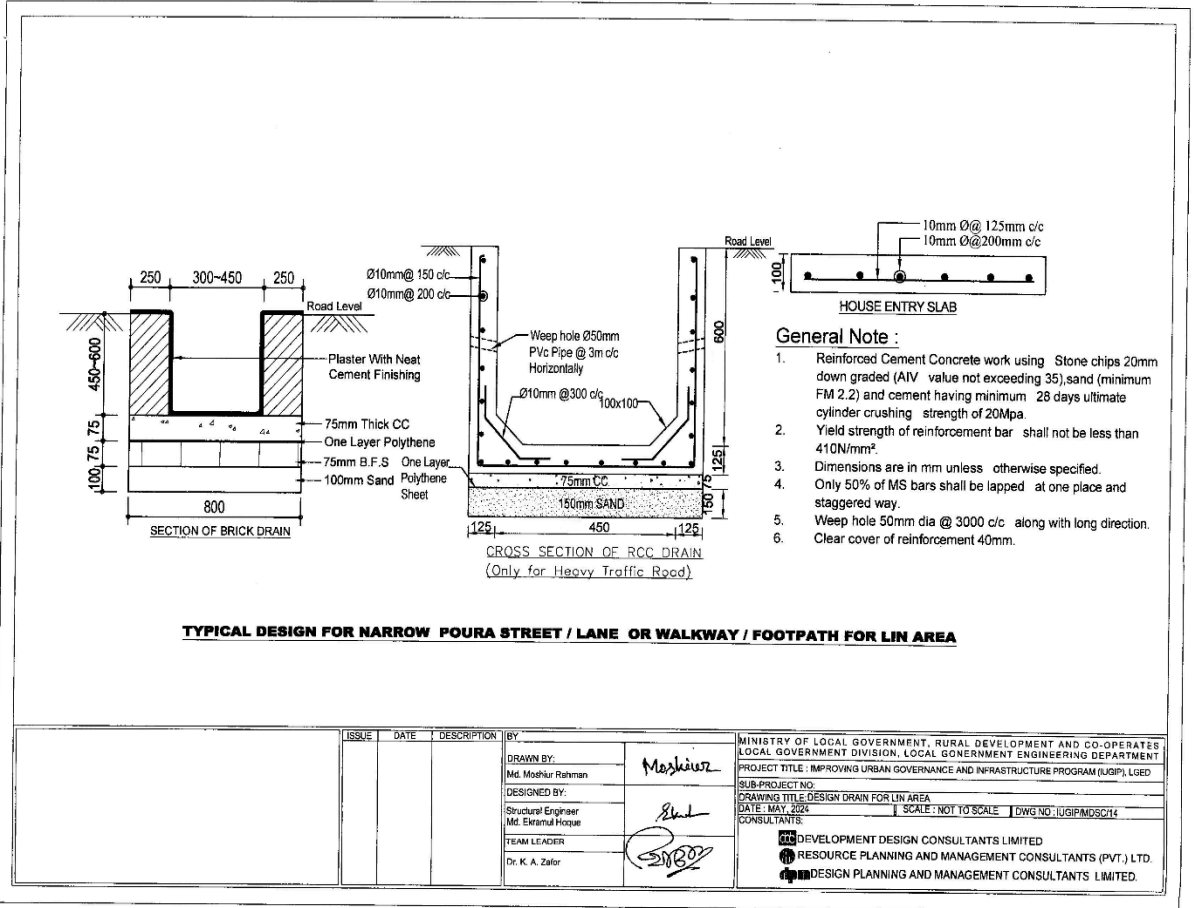
Appendix 2: Typical Detailed Design of Proposed LIN

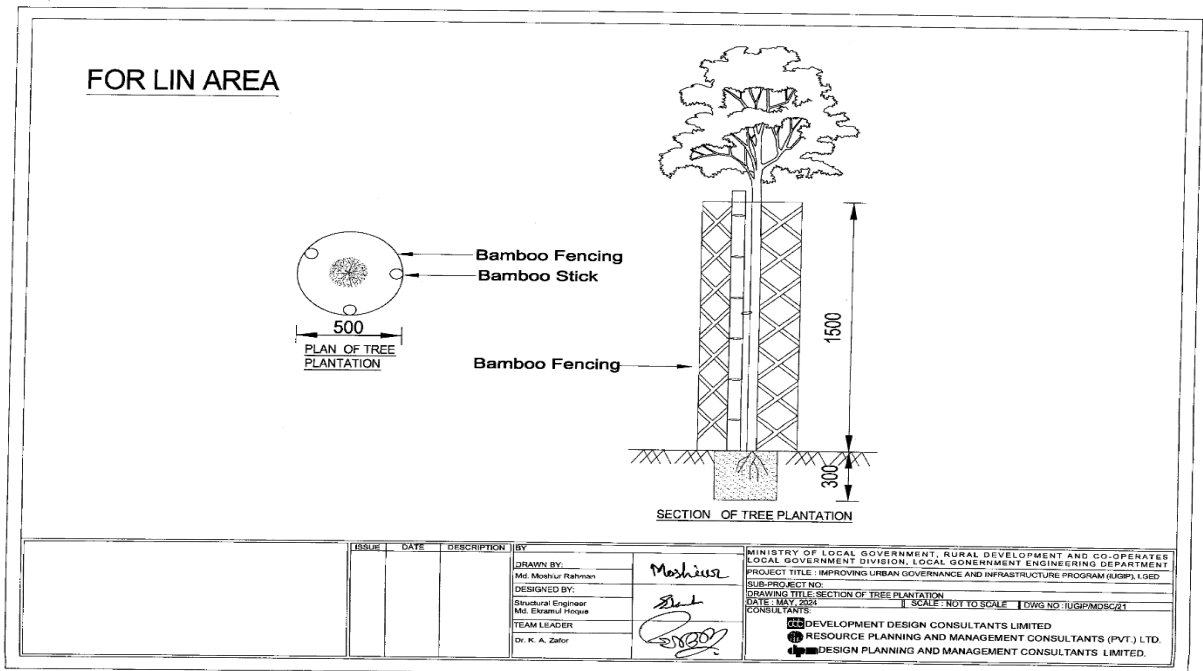












Appendix 3: Budget for Implementation of EMP

104. The cost of mitigation measures and surveys during construction stage will be incorporated into the LINIC's costs. The surveys will be conducted by the LINICs.

The operation phase mitigation measures will be the responsibility of Pourashava/LINIC. All monitoring during the operation and maintenance phase will be conducted by Pourashava therefore, there are no additional costs. The indicative costs of EMP implementation during construction period are shown in Table 1.

Table1: EMP in CPP– LIN improvement sub-project (each LIN)

Item No.	Description of Item	Amount (Tk.)
Construction Period		
1	Providing and maintaining adequate potable water supply and sanitation facilities (Separate for Male and Female) at labor camp site including first aid box with necessary drugs to the entire satisfaction of E-in-C.	
	a) Sanitation: 2 nos. of temporary Toilet facility (1 no for male and 1 no for female) @ Tk. 10000.00	20,000.00
	b) Supply of potable water for drinking and household purposes for workers and staffs.	30,000.00
2	Water spraying for dust suppression	10,000.00
3	Supply of Personal Protection Equipment (PPE) helmet, gloves, safety shoes & glass, safety signs, first aid box with necessary drugs, Fire extinguisher and sand fill bucket etc. for workers.	35,000.00
4	EMP implementation training for workers/LINIC members	10,000.00
5	Tree Plantation on the slope of road/footpath, 100 nos. of trees @ 495 TK/per tree (except Sweeper LIN-Perlot*)	As Required Per Lot
6	Proper storage of construction materials/equipment in a safe place and covering the sand with tarpaulins and fencing the site with barbed wire and cement should be stored on a dun age to avoid cake formation to the entire satisfaction of the E-in-C.	50,000.00
7	Proper maintenance of drainage system during construction period to drain out the surface water.	10,000.00

Item No.	Description of Item	Amount (Tk.)
Construction Period		
	Total	1,65,000.00(+Tress/lot)

Note:

** Cost of the EMP items should be as fixed budget

Appendix 4: Photographs & Attendance List of Public Consultation

128. Attendance of Participants in the Meetings and photographs at Gobindapur Math Para LIN (Lot-01) given below:



স্বাধীন সরকার, ADB এবং AFD এর আর্থিক সহায়তামূলক "নগর পরিচালনা ও অবকাঠামো উন্নয়ন প্রকল্প"(IUGIP) এর আওতায় জেডার প্রকল্পের প্রথম অধিবেশনের লক্ষ্যে (অনুষ্ঠান-২০২৪) কাছাকাছি উদ্যান বৈঠক অনুষ্ঠানে অংশগ্রহণকারীর তালিকা

ওয়ার্ড নম্বর: ০১ তারিখ: ০২/০৭/২৩

ক্রমিক	অংশগ্রহণকারীর নাম	স্বাক্ষর/ চিহ্নসহি
০১	শ্রীমতী বিনা পান	শ্রীমতী বিনা
০২	মেধা হাজারা কোম	ছাড়া মেধা
০৩	মঞ্জুরী খান্ন	মঞ্জুরী খান্ন
০৪	সুমতিয়া খান্ন	সুমতিয়া
০৫	কাজলী আছার	কাজলী
০৬	কোথালী খান্ন	কোথালী
০৭	হাজেরা আছার	হাজেরা
০৮	নিলুকা ইয়াসমিন	নিলুকা
০৯	হাজেরা খান্ন	মেধা: হাজেরা খান্ন
১০	জাহিরা খান্ন	জাহিরা
১১	জাহিরা খান্ন	জাহিরা
১২	মহিমা খান্ন	মহিমা
১৩	রাহিমা খান্ন	রাহিমা
১৪	নাজমিন আছার	নাজমিন
১৫	সুমতিয়া খান্ন	সুমতিয়া

129. Attendance of Participants in the Meetings and photographs at Gobindapur Sardar Para LIN (Lot-02) given below



ক্রমিক	অংশগ্রহণকারীর নাম	স্বাক্ষর/ চিহ্নসহ
১৬	মেধা: অনামিকা খান্নন	জনামিকা
১৭	// নুসর খান্নন	নুসর
১৮	// দ্বারা রাই	দ্বারা রাই
১৯	// অনুপা পাল	অনুপা পাল
২০	// জির্ভিন জির্ভিন	জির্ভিন
২১	// রেখা খান্নন	রেখা
২২	// সুনী বানী	সুনী বানী
২৩	// কনিকা খান্নন	কনিকা
২৪	// মিনতি পাল	মিনতি পাল
২৫	// অঞ্জলি দাস	অঞ্জলি দাস
২৬	// আশিষা কামা	আশিষা
২৭	// জাহ্নবী মাস্তা	জাহ্নবী মাস্তা
২৮	// হার্দিকা খান্নন	হার্দিকা
২৯	// মিমি খান্নন	মিমি
৩০	// মোহনিনী খান্নন	মোহনিনী

130. Photograph & Attendance Sheet of Consultation Meeting at Radhikaganj LIN (Lot-03)



বাংলাদেশ সরকার, ADB এবং AFD এর আর্থিক সহায়তাপূর্ক "নগর পরিচালনা ও অবকাঠামো উন্নয়ন প্রকল্প"(IUGIP) এর আওতায় সেক্টর প্ল্যান বাস্তবায়নের লক্ষ্যে (অক্টোবর- ডিসেম্বর-২০২৪) কার্যক্রমে

উঠান বৈঠক অনুষ্ঠানে অংশগ্রহণকারীর তালিকা

ওয়ার্ড নম্বর: ০২ তারিখ: ২৪/১৫/২৪

ক্রমিক	অংশগ্রহণকারীর নাম	স্বাক্ষর/ চিহ্নসহ
০১	শ্রীমতী: মানোয়ারা খাতুন	মানোয়ারা
০২	// রজনী খাতুন	রজনী
০৩	// মায়্যা খাতুন	মায়্যা
০৪	// মাঘে খাতুন	মাঘে
০৫	// খানজিরা খাতুন	খানজিরা
০৬	// মার্শী খাতুন	মার্শী
০৭	// জাহিনা খাতুন	জাহিনা
০৮	// আমেনা খাতুন	আমেনা
০৯	// মজিনা খাতুন	মজিনা
১০	// লাবনী খাতুন	লাবনী
১১	// ইতি রানা	ইতি
১২	// সুপালী খাতুন	সুপালী
১৩	// কুলছুম খাতুন	কুলছুম
১৪	// রবুজা খাতুন	রবুজা
১৫	// আয়মানী খাতুন	আয়মানী

131. Photograph & Attendance Sheet of Consultation Meeting at Poshuhat LIN (Lot-04)



ক্রমিক	অংশগ্রহণকারীর নাম	স্বাক্ষর/ চিহ্নসহ
১৬	স্বাধা কাশমিনী আছার	কাশমিনী
১৭	// হুমরিনা আছার	হুমরিনা
১৮	// কাশমিনী আছার	কাশমিনী
১৯	// আলমা আছার	আলমা
২০	// রাহমা আছার	রাহমা
২১	// ফরিদা আছার	ফরিদা
২২	// তুহুরা আছার	তুহুরা
২৩	// মাহিনা আছার	মাহিনা
২৪	// সুপ্রিয়া আছার	সুপ্রিয়া
২৫	// নাজমা আছার	নাজমা
২৬	// জাহানারা আছার	জাহানারা
২৭	// মনুয়া আছার	মনুয়া
২৮	// চাঁদনী আছার	চাঁদনী
২৯	// কাশা আছার	কাশা
৩০	// মাহিনা আছার	মাহিনা

132. Photograph & Attendance Sheet of Consultation Meeting at Gobindapur Khandakar Para LIN (Lot-05)



বাংলাদেশ সরকার, ADB এবং AFD এর আর্থিক সহায়তাপূর্ণ "নগর পরিচালন ও অবকাঠামো উন্নয়ন প্রকল্প"(IUGIP) এর আওতায় জেলায়
 প্রাকশন প্লান বাস্তবায়নের নব্বই (অষ্টোবিড়- ডিসেম্বর-২০২৪) কার্যক্রমে
 উন্নয়ন টেকনিক অনুষ্ঠানে অংশগ্রহণকারীর তালিকা

তারিখ: ২৩/০৭/২৪

ক্রমিক নম্বর: ১

ক্রমিক	অংশগ্রহণকারীর নাম	স্বাক্ষর/ টিপসাই
০১	মোহা আশীনা খান্নন	আশীনা
০২	// আলতা খান্নন	আলতা
০৩	// স্কয়া খান্নন	স্কয়া
০৪	// মাসুদীনা খান্নন	মাসুদীনা
০৫	// রুমানী আক্তার	রুমানী
০৬	// মাদারী আক্তার	মাদারী
০৭	// চামেলী আক্তার	চামেলী
০৮	// আমেনা খান্নন	আমেনা
০৯	// রুজিনা	রুজিনা
১০	// জোন্সান খান্নন	জোন্সান
১১	// আঘি খান্নন	আঘি
১২	// পুনীমা খান্নন	পুনীমা
১৩	// আমিরন লেখা	আমিরন
১৪	// কাজিয়া খান্নন	কাজিয়া
১৫	// চানিয়া	চানিয়া

133. Photograph & Attendance Sheet of Consultation Meeting at Anandadham Kalitola LIN (Lot-06)



সংসদ সরকার, ADB এবং AFD এর আর্থিক সহায়তাপ্রাপ্ত "নগর পরিচালন ও অবকাঠামো উন্নয়ন প্রকল্প"(IUGIP) এর আওতায় স্বেচ্ছায়
 প্রাকশন গ্রান্ট বাস্তবায়নের লক্ষ্যে (অক্টোবর- ডিসেম্বর-২০২৪) কার্যক্রমে
 উঠান বৈঠক অনুষ্ঠানে অংশগ্রহণকারীর তালিকা
 ওয়ার্ড নম্বর : ০৬৪ তারিখ : ২১/০৭/২৩

ক্রমিক	অংশগ্রহণকারীর নাম	স্বাক্ষর/ চিহ্নসহি
০১	চন্দ্রনা দাস	চন্দ্রনা দাস
০২	মাছা! কঞ্জনা ছাটুন	কঞ্জনা
০৩	// জামিনা ছাটুন	জামিনা
০৪	// হাজিমা ছাটুন	হাজিমা
০৫	// হালিমা ছাটুন	হালিমা
০৬	// নসিরন নেছা	নসিরন নেছা
০৭	// লিমা জাকার	লিমা
০৮	// হোকেয়া ছাটুন	হোকেয়া
০৯	// কবিরনা জাকার	কবিরনা
১০	// রতনা ছাটুন	মাছা! রতনা ছাটুন
১১	// উল্লা ছাদিজা	উল্লা ছাদিজা
১২	// জারিফা ছাটুন	জারিফা
১৩	// চানহা ইফলাম	চানহা
১৪	// লামহিয়া ছাটুন	লামহিয়া
১৫	// নুসাইয়া জাকার	নুসাইয়া

134. Photograph & Attendance Sheet of Consultation Meeting at Ershadpur Gorsthan Para LIN (Lot-07)



প্বেদেশ সরকার, ADB এবং AFD এর আর্থিক সহায়তাপূর্ক "নামর পরিচালন ও অধিকারমো উন্নয়ন প্রকল্প"(IUGIP) এর আওতায় ক্ষেত্র
 প্রাকশন প্লান বাস্তবায়নের লক্ষ্যে (অক্টোবর- ডিসেম্বর-২০২৪) কাছাকাঠে
 উঠান বৈঠক অনুষ্ঠানে অংশগ্রহনকারীর নামর

ওয়ার্ড নম্বরঃ ৫ তারিখঃ ২৫/০৭/২০২৩

ক্রমিক	অংশগ্রহনকারীর নাম	স্বাক্ষর/ চিৎসহি
০১	স্বাক্ষর: বিন্মা খান্নন	বিন্মা
০২	// খান্নিকা খান্নন	খান্নিকা
০৩	// বিন্মা খান্নন	বিন্মা
০৪	// বিন্মা খান্নন	বিন্মা
০৫	// জাম্মাখান্নন খান্নন	জাম্মাখান্নন
০৬	// সুম্মাবিন্মা খান্নন	সুম্মাবিন্মা
০৭	// বুল্মা খান্নন	বুল্মা
০৮	// বান্নিকা খান্নন	বান্নিকা
০৯	// ইজান্না	ইজান্না
১০	// জাবান্না	জাবান্না
১১	// জুটি খান্নন	জুটি
১২	// সাজদা খান্নন	সাজদা
১৩	// সাজদা খান্নন	সাজদা
১৪	// বিন্মা খান্নন	বিন্মা
১৫	// সুজান্না খান্নন	সুজান্না

105. Summary of outcomes at public consultation meeting: A: Five public consultation meetings were held at all the Slums of Alamdanga Paurashava. A total of 77 participants attended the meetings, where 90% were female, and the remaining 10% were male. SIC members, teachers, counselors, farmers, female workers, housewives, and small business holders were present in the meetings. The safeguarding team of PRS-UGIIP visited all four slums under the respective Paurashava. Consultants described environmental and social issues in the context of development aspects and potential impacts of the infrastructure development work of the slums. The meetings were held through presiding by the Paurashava representatives (Executive Engineer Engineer).

106. Participants of the meeting exchanged views with the safeguarding team about their sufferings and the remedial measures to be taken to overcome them. Safe water supply is essential in the proposed sub-project area as people frequently suffer from waterborne diseases.

107. Water logging was an additional problem in the slums. Their yards inundate by rainwater due to not having proper drainage provisions. It creates an un-hygienic living condition, i.e., a breeding place for mosquitoes and flies, which will cause diseases. They wanted immediate relief from it through the construction of the drain. Inadequate internal road communication slowed their livelihood and created physical stress for the resident of the slum. Required footpaths would ease their safe movement. They asked for the construction of necessary footpaths in their slum. There is inadequate dustbin in or around the slums; slum dwellers cannot properly dump their waste, especially kitchen waste. It creates bad odor and un-hygienic conditions in and around the slums. They wanted the installation of more dustbins. Inadequate light during nighttime is an additional problem. Social nuisance creates due to the lack of adequate street lights. Pilferage and unsocial activities are promoted in the dark. The slum dwellers urged for street lighting systems in and around the slums. The people demanded regular cleanliness of drains and the spreading of medicine for killing mosquitoes. Presently, a few slum dwellers use hanging and pit latrines, threatening public health and un-hygienic. They insisted on a community sanitary latrine to overcome it.

108. The consultants discussed safeguard issues, focusing on the sub-project components with their importance, including socioeconomic and health hazards. Also discussed were environmental and social impacts and mitigation measures for air, dust, and water pollution and waste management and dust management.

108. As per discussion and feedback from the Paurashava staff and SIC members, the slums were selected through consultation with the local leader/councilors living in the Paurashava area. According to the discussion, the participants appreciated the proposed slum improvement components, as it will improve the health and sanitation conditions of the slum, which will provide a positive socio-economic impact.

The significant issues and suggestions that came out during the meeting are given below:

- Construction wastes should be dumped properly in the dumping yard.
- During construction work, adequate measures should be taken to minimize the probable impact that arises.
- The people will accept the temporary disturbances that may arise during construction for their future interests.
- In order to stage and stockpile construction equipment and materials, there is sufficient space along the space of footpaths, tube-well platforms, latrines, dustbins, and so on.
- Besides, there is no possibility of affecting any structure needing relocation by the sub-project activities. Moreover, due to construction work and proposed development, there is no possibility of a loss of livelihood, neither permanent nor temporary.
- Locations of all the proposed works components are fixed with the opinion of all the residents in the slum.
- The project will provide workers with necessary safety measures and facilities during construction.
- The slums dwellers are well awaked of the location to set up tube well dustbin toilets and the intervention as members of the social mapping group. Again, the issue was discussed in the consultation meeting.

Appendix 5: Waste Management Plan for LIN Development (for short-time period)

Aspect	Waste type	Classification	Proposed reuse/Recycling/Disposal	Responsible
Demolition/site clearing	Vegetation (logs, mulched timber, weeds)	General solid waste (organic)	Recycling/Disposal whereas applicable	LINIC
	Concrete, asphalt and gravel	General solid waste (in-organic)	Recycling/Disposal whereas applicable or where suitable and approved by PIU	LINIC
	Metal waste	General solid waste in-organic)	Recycling	LINIC
Earthworks	Excavated soil	General solid waste	Beneficial reuse onsite. Balance cut and fill earthworks, where possible, to optimize reuse.	LINIC
Construction of -Footpath -Drain -Dustbin -Street light -Toilets and -Tube Wells	Steel Reinforcing	General solid waste (in-organic)	Recycling	LINIC
	Pipes/PVC pipes	General solid waste (in-organic)	Disposal/ Recycling	LINIC
	Concrete (solids and washouts) and asphalt	General solid waste (in-organic)	Disposal/Re-use	LINIC
	Timber/Steel formwork	General solid waste (in-organic)	Re-use	LINIC
	Packaging Materials,	General solid waste (in-organic/organic)	Disposal/ Re-use	LINIC
	Empty oil and other drums	General solid waste (in-organic)	Disposal/ Re-use	LINIC
	Metals and electrical cabling	General solid waste (in-organic)	Recycling	LINIC
	Compounds /Construction camps	Waste generated by the maintenance of equipment, vehicles	General solid waste (in-organic)	Disposal/ Recycling/Disposal whereas applicable
Construction /labor camp waste generated by workers		General solid waste (organic)	Disposal	LINIC
Site Office Operation	Paper, cardboard and plastic	General solid waste (in-organic)	Recycling/ Disposal	LINIC
	Glass bottles and aluminum cans	General solid waste (in-organic)	Recycling	LINIC
	Ink Cartridges	General solid waste (in-organic)	Recycling/ Disposal	LINIC
	Food Waste	General solid waste (in-organic)	Disposal	LINIC

Appendix 6: Site and Design Conditions to Meet the ESMF Criteria

Environmental Guidelines for Subproject site selection, planning and design	Remarks
1. Overall selection guidelines - applicable to all subprojects	
i. Comply with all requirements of relevant national and local laws, rules, and guidelines, including obtaining environmental clearance certificate (ECC) from DOE for all subprojects classified as green/ yellow/orange/ red per Bangladesh Environmental Conservation rules 2023	-
ii. Comply with all requirements of ADB SPS 2009 and follow procedures set in this environmental assessment and review framework (ESMF)	-
iii. Ensure that subproject design should reflect inputs from public consultation	
iv. Avoid locations in forests, mangrove areas, estuaries, buffer zones of protected areas	<ul style="list-style-type: none"> i. Check and confirm the eligibility through exclusion criteria before proceeding further on such sensitive sites ii. if eligible, and unavoidable: <ul style="list-style-type: none"> - Approval from concerned authority - Alternative site analysis to justify site selection - confirm via detailed baseline and impact assessment that the project will not lead to significant impacts on respective areas - EMP to include measures to avoid, minimize, mitigate impacts, and monitoring actions to confirm mitigation
v. Avoid locations within 100 m of protected monuments/sites protected by department of archeology, government of Bangladesh	If unavoidable
vi. Avoid locations within 1 km of UNESCO notified protected monuments / world heritage sites 10.	<ul style="list-style-type: none"> - conduct site screening by heritage expert, and conduct heritage assessment study if warranted; integrate recommendations into design, construction, and operation - ensure that no damage / disruption to such places/monuments - obtain necessary clearance and permissions - EMP to include measures to avoid destruction / disturbance of such places - Provide "chance find" procedures in the EMP that include a pre-approved management and conservation approach for materials that may be discovered during project implementation.
vii. Avoid tree-cutting where possible. Retain mature roadside trees which are important/valuable or historically significant. If any trees will have to be removed, plant two new trees for every one that is lost.	For any tree to be cut, consider replacement of 2:1.
viii. Preference shall be given to planting indigenous or local tree species.	
ix. Ensure all planning and design interventions and decisions are made in consultation with local communities and include women. Reflect inputs from public consultation and disclosure for site selection.	All consultations should be documented, and concerns expressed by public addressed in IEEs.
x. Synchronize all road improvement and pipe laying works (to extent possible) to minimize disturbance and optimize use of resources (e.g., water pipes laid prior to road improvements).	Coordinate planning of works with <i>Pourashavas</i> .
xi. If subproject includes existing facilities to be rehabilitated or expanded and/or associated	For non-compliances, provide corrective action for each area of concern including cost and schedule to be included in the subproject EMP.
xii. Locate all new facilities/buildings at sites where there is low risk of flooding or other hazards that might impair functioning of or present a risk of damage to water treatment plants, tanks/reservoirs, or their environs.	Flood statistics data of the project area needs to be reviewed. Location restriction may be reviewed depending on site availability, and flood or other hazards
2. Infrastructure in low-income neighborhoods	

Environmental Guidelines for Subproject site selection, planning and design	Remarks
i. Include measures to address additional sewage/domestic wastewater due to improved/new water supply system	
ii. Project design to address health and safety hazards to workers from handling and management of disinfection chemicals (such as chlorine), and other contaminants, and biological and physical hazards	
iii. Sanitation. Ensure toilets are provided with water supply and power supply for hygienic, safe, and uninterrupted	
iv. Sanitation. Design toilet as leak proof, and connect outlet to a community sewer (if available) or to a septic tank (water sealed)	
v. Sanitation. Design septic tanks as water sealed compartments to avoid contamination of groundwater/land	
vi. Sanitation. Locate septic tanks where there is proper access to a mobile suction hose equipment to allow removal of contents periodically for further treatment and disposal	
vii. Sanitation. Locate sanitation facilities (public toilets and septic tanks) preferably (a) 20 m from any source of water supply; (b) 30 m from drainage lines and (c) 100 m to a designated waterway.	Distance restriction may be reviewed depending on the technology adopted for the sanitation facilities and treatment of septage, site plant availability, and buffer
viii. Sanitation. Ensure septage collection system is fully mechanized; prohibit manual collection	
ix. Sanitation. Do not locate septic tanks where there is risk of hazards such as floods, landslides etc.,	
x. Sanitation. Ensure no immediate drinking water intakes downstream of discharge point of effluent from sanitation facilities	Include design measures and consider relocating existing deep tube wells.
xi. Sanitation. Hazardous working conditions in some places of the facility due to lack of oxygen and flammable nature of methane emissions will be detrimental to the health and safety of workers and facility. Put in place standard operating procedures with appropriate equipment, and workers are provided with necessary training and personnel protection equipment to safeguard health and safety	

Appendix 7: Health Safety Manual of Construction workers

Parameters/issues	Workplace Hazards	Suggested PPE
Eye and Face protection	Flying particles, molten metal, liquid fuel, gases or vapors, light radiation.	Safety glasses with side-shields, protective shades, etc.
Head Protection	Falling objects, inadequate height clearance, and overhead power cords.	Helmets with top and side impact protection.
Hearing protection	Noise, ultra-sound.	Hearing protectors (ear plugs or ear muffs.)
Foot Protection	Falling or rolling objects, pointed objects. Corrosive or hot liquids.	Safety shoes and boots for protection against moving & falling objects, liquids and fuels.

Hand Protection	Hazardous materials, cuts or lacerations, vibrations, extreme temperatures.	Gloves made of rubber or synthetic materials (Neoprene), leather, steel, insulating materials, etc.
Respiratory Protection	Dust, vapors.	Facemasks with appropriate filters for dust removal and air purification spray, mists, vapors and gases). Single or multi-gas personal monitors, if available.
	Oxygen deficiency	Portable or supplied air (fixed lines.) on site rescue equipment.
Body/leg Protection	Extreme temperatures, hazardous materials, biological agents, cutting and laceration.	Insulating clothing, body suits, aprons etc. of appropriate materials.

Appendix 8: Standard Operation Procedure (SOP) of toilet

The stability and integrity of the sanitation system will be monitored periodically to detect any problem and allow remedial actions if required. Any repairs will be small scale involving manual, temporary and short-term works involving regular checking and recording of performance for sign of deterioration, service and replace of parts. Operation and maintenance of the toilets and tube wells will be the responsibility of the LINICs

- Clean and functioning the latrine/tube well regularly by LINICs selected person as per guidelines of LIN improvement activity.
- Whether pan is dry then makes it watery before use.
- After defecation more or less two liters of water has to flow into the pan. Human excreta should not attach with the pan.
- Maintain sanitary bins (waste bin) to keep used toilet tissue or other waste
- Maintain electricity supply, light, switch and tap
- Maintain bleaching powder to reduce bad odor regularly and financed by LIN dwellers (users).
- Maintain sludge cleaning of toilet as per necessary by LINICs
- Except water any hard/soft materials should not be thrown into the pan.
- Smoking is strictly prohibited into the latrine.
- After using the latrine, it has to clean properly. Jar and Mug has to keep in proper place.
- An adolescent or a woman has to go with the child when child will go for using the toilet.
- After the child defecation woman has to wash it properly.
- Train the LIN dwellers to use the toilet/tube well properly by LINICs
- To build up awareness among the LIN dweller about maintenance of toilet/tube well.

Appendix 9: Standard Operation Procedure (SOP) of street light

Solar lighting systems are generally installed in LIN area. It is important that all essential tools (crews, ladder, brush, cable, tapes etc.), spares and consumables have to keep ready by LINICs for proper operation and maintenance of solar street light. LINICs or LINICs suggested person will be responsible for O&M of solar systems-

- Clean solar panel from dust, birds dropping etc. Use clean water and avoid hard water, per week
- Maintain ladder or suitable equipment for cleaning the panel per week.
- Observe battery state of charge using hydrometer per week
- Check electrolyte level of battery and top up if required.
- Change/replace of battery as per necessary by authorized venders
- Inspect all terminals for corrosion and loosened cable connections, clean and tighten as per necessary.
- Inspect panel for broken modules. If any, replace it with appropriate module as per necessary
- Check panel wiring for physical damage and wind chafing
- Inspect inverter - remove dust or dirt, inspect system wiring for poor connections. Look for signs of excessive heating, inspect controller for proper operation
- Visually check all conduit and wire insulation for damage
- Visually check for loose, broken, corroded, or burnt wiring connections.
- Visually check for broken of lamp post.

Appendix 10: DoE Approval letter for IUGIP

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পরিবেশ অধিদপ্তর
পরিবেশ ভবন, ই/১৬ আগারগাঁও
শেরে বাংলা নগর, ঢাকা-১২০৭।
www.doe.gov.bd

স্মারক নং-২২.০২.০০০০.০১৮.৭২.০২৯.২৩.০৭৭

তারিখঃ ২২/০৬/২০২৩ বঙ্গাব্দ
২৫/০৬/২০২৩ খ্রিস্টাব্দ

বিষয়: Improving Urban Governance and Infrastructure Program (IUGIP) শীর্ষক কর্মসূচীর অনুকূলে পরিবেশগত ছাড়পত্র প্রদান প্রসঙ্গে।

সূত্র: আপনার ০৬/০৬/২০২৩ ইং তারিখের আবেদন।

উপর্যুক্ত বিষয় ও সূত্রের পরিপ্রেক্ষিতে নির্দেশক্রমে জানানো যাচ্ছে যে, পরিবেশ অধিদপ্তর, সদর দপ্তরের পরিবেশগত ছাড়পত্র বিষয়ক কমিটির ৪৯৯ তম সভায় Improving Urban Governance and Infrastructure Program (IUGIP) এর অনুকূলে দাখিলকৃত আইইই প্রতিবেদন ও অন্যান্য কাগজপত্র সভায় পর্যালোচনা করা হয়। পর্যালোচনান্তে, আলোচ্য কর্মসূচীর অন্তর্গত প্রকল্পসমূহ পরিবেশ সংরক্ষণ বিধিমালা, ২০২৩-এর তফসিল-১-এ উল্লিখিত প্রকল্পসমূহের চেয়ে ক্ষুদ্র হওয়ায় বিধি মোতাবেক ছাড়পত্র প্রদানের অবকাশ নেই মর্মে সিদ্ধান্ত গৃহীত হয়।

(মাসুদ ইকবাল মোঃ শামীম)
পরিচালক (পরিবেশগত ছাড়পত্র)
ফোন: ০২-২২২২১৮৩৪২

প্রধান প্রকৌশলী
স্থানীয় সরকার প্রকৌশল অধিদপ্তর
আগারগাঁও, শেরে বাংলা নগর, ঢাকা।

অনুলিপিঃ

১। সহকারী পরিচালক, মহাপরিচালক মহোদয়ের শাখা, পরিবেশ অধিদপ্তর, সদর দপ্তর, ঢাকা।
২। প্রকল্প পরিচালক, UGIP-III, লেভেল-১২, এলজিইডি ভবন, আগারগাঁও, শেরে বাংলা নগর, ঢাকা।