



**Multilateral Investment
Guarantee Agency**
World Bank Group

ANNUAL MONITORING REPORT (AMR)

Sirajganj 2 CCPP
Bangladesh
Project #13171

REPORTING PERIOD: (Feb/2021) through (Jan/2022)

AMR COMPLETION DATE: (02/02/2022)

I. INTRODUCTION

MEGA's Economics and Sustainability Group (MIGES)

The Economics and Sustainability Group (MIGES) oversee MIGA's country and project risk assessment; analysis of development impact of individual projects and MIGA's portfolio: evaluates and monitors project compliance with environmental, social and integrity policies.

Information provided in this AMR helps MIGA'S Environmental and Social specialists assess performance of projects on E&S. Follow up questions may be necessary to clarify information provided.

Preparation Instructions

MIGA's Contract of Guarantee requires North West Power Generation Limited to prepare a comprehensive Annual Monitoring Report (AMR) on the environmental and social (E&S) performance of its facilities and operations. This document comprises MIGA's preferred format for E&S performance reporting. The following template may be supplemented with annexes as appropriate to ensure all relevant information on project performance is reported.

The following points should assist you in completing this form. Please be descriptive in your responses and attach additional information/document(s) to supplement your answers as needed.

- Staff with specific responsibilities for environmental and social issues should complete this form.
- You may submit an electronic copy, fax or hard copy.
- The principal purpose of completing this form is to provide information on the following:
 1. Project Status/Update
 2. Summary of Key E&S Aspects during the Reporting Period
 3. New Development (Corporate)
 4. Action Plan Status and Update
 5. Deviations/non-compliances
 6. Development Effectiveness Indicators System (DEIS)
 7. Client's Feedback

Please note that some questions may not be applicable to your organization and also if it is early to assess issues/risks. So please "NA" or "No-Information Possible" to such questions.

Contact Information

Completed by	Mashuda Parvin		
Position in Organization:	Manager	Tel:	+880201777736469
Email:	parvin@nwpngcl.org.bd	Fax:	NA

II. PROJECT STATUS/ UPDATE

This section aims to update MIGA on the Project Status.

Select the current status of the project and provide a brief description of the developments in relation to the project over the reporting period. For example, has construction been started or completed, has new equipment been installed, has production capacity increased, or is the investment in new projects considered?

	Design (specify)		Construction		Expansion	√	Operation		Closure		Other
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Is there any new investment under development? (Corporate and Investment Funds)

	YES	√	NO
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Please provide details in section IV of this AMR report.

Please identify any other Interactional/Multilateral providing financing to the Project: NA

	World Bank (IBRD/IDA)		IFC		EBRD		EIB		ADB
	KFW/DEG		FMO		OPIC		EDC		Other (specify)

Has the Project been subject to any existing or threatened complaint, order, directive, claim, citation or notice from any Authority? If yes, please provide details.

	YES	√	NO	Provide details
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Has the Project been subject to or received any written communication from any Person/entity, in either case, concerning the Project's failure to comply with any matter covered by the Performance Standards?

	YES	√	NO	Provide details
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If yes, please provide details.

Please attach any environmental and social reports prepared for other Interactional/ Multilateral Finance Institutions/Export Credit Agencies or local regulatory authorities during the reporting period to this AMR report.

Not Applicable

III. SUMMARY OF KEY E&S ASPECTS

This section aims to identify the key E&S progress/activities/incidents during the Reporting period (include Summary of Key Findings for the Reporting Period e.g. non-compliances, significant incidents¹, social unrest, significant improvements/initiatives regarding E&S performance, etc.)

PSI: Assessment and Management of Environmental and social Risks and Impacts

Please provide details on the status of the following voluntary Management systems certification schemes at your facility, provide details below?

	Not being considered	Future consideration	Planning to implement	Currently implementing	Successfully implemented	Date of certification / recertification
ISO 900:2015					√	13 ^h October, 2022
ISO 14001: 2015					√	13 ^h October, 2022
ISO 45001:2018					√	13 ^h October, 2022
Other	Environmental Clearance Certificate from Department of Environment (DoE)				√	Certificate Validity up-to 25/10/2022 (ANNEX-A)

* All Certificate has been attached in ANNEX-A

Describe any changes in the organizational structure to manage environment, health and safety, labor and social aspects during the reporting period. Describe number of personnel in charge of E&S issues.

- NWPGCL has an EHS department staffed with 7 people;

Describe the level of environmental, social and health and safety training provided to staff. Provide annex with list of topics, hours of training and number of participants.

- ISO 14001:2015 Lead Auditor Training from BV
 - Mashour Mahmud Khan, DM (EHS), SPS
 - Farhana Choudhury, SDE (Civil)
- ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Internal Auditor Training from BV
 - Md. Julkar Nain, AM (EHS), SPS
 - S. M. Jahid Anwar, JAM (EHS), Corporate Office

¹Examples of significant incidents follow: Chemical and/or hydrocarbon materials spills; fire, explosion or unplanned releases, including during transportation; ecological damage/destruction; local population impact, complaint or protest; failure of emissions or effluent treatment; legal/administrative notice of violation; penalties, fines, or increase in pollution charges; negative media attention; chance cultural finds; labor unrest or disputes; local community concerns.

- IFC Performance Standard Training by EQMS
 - Abdullah Al Quraishi, SE,
 - Mashuda Parvin, Manager (EHS), Corporate Office
 - Mashioir Mahmud Khan, DM (EHS), SPS
 - Tahera Jahan, DM, Admin, Corporate Office
- IFC Performance Standard Training by IFC
 - Mashuda Parvin, Manager (EHS), Corporate Office
- ADB Safeguard Policy Statement
 - Mashuda Parvin, Manager (EHS), Corporate Office

Are you aware of any events or significant incidents that may have caused damage; brought about injuries or fatalities or other health problems; attracted the attention of outside parties; affected project labor or adjacent populations; affected cultural property; or created liabilities for your company? (if yes, please provide details and attach any incident reports to this AMR report)

	YES	√	NO	Provide details
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Describe any ongoing public consultation and disclosure, liaison with non-governmental organizations (NGOs, civil society and local communities or public relations efforts on environmental and social aspects.

- Stakeholder consultation meeting is ongoing. (Annex B)

Describe any ongoing social or community development initiatives, programs or dialogue.

- Community Development program is ongoing. (Annex C)

Briefly describe new initiatives implemented during the reporting period or additional managerial efforts on E&S aspects (e.g. Energy/water savings, sustainability report, waste minimization, etc)

- For energy saving initiatives (*Conversion of Tubelights into LED lights Program for Same Level Illumination as an when there is a possibilities*), we are replacing LED light with Tube light.
- Taking initiative for reducing Paper Consumption.

Briefly describe the number and type of comments and/or grievances received by the Company in relation to E&S issues? How many have been resolved and how many are pending? (Please attach a table with grievance redress registry)

- No grievance has been raised yet. (Scan copy of GRM book in attached in Annex D)

Describe activities completed under the community development plan.(Annex C)

- High Flow Nasal Cannula was handover to Divisional Commissioner (Rajshahi) to provide medical services to the people affected by Covid-19.
- Handover of Oxygen Concentrator to Deputy Commissioner (Sirajganj District) to provide medical services to the people affected by Covid-19.

- Cheque handover to the Superintendent of Police, Sirajganj for implementation of security measures with closed circuit cameras in all important areas of Sirajganj Municipality.
- 1000 bags (Each bag contained 12 kg rice, 2.5 kg pulse, 1-liter soyabean oil, 3 kg potato, 2 kg salt, 1 kg onion & 1 piece soap) of relief distribution among destitute and helpless families of Sirajganj.
- 2000 bags (Each bag contained 12 kg rice, 2.5 kg pulse, 1-liter soyabean oil, 3 kg potato, 2 kg salt, 1 kg onion, 1 piece soap & 5 pieces of mask) of relief distribution among destitute and helpless families of Sirajganj.
- Cheque of BDT 5,00,000 handover to Bangladesh Scouts Sirajganj District for renovating the Sirajganj District Scouts Building and constructing an auditorium.

Life, Fire and Safety

Do your offices including regional and branch offices have valid Fire Safety permits for all buildings including those on lease issued by appropriate local authorities?

√	YES		NO
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Provide details, [Annex-E \(Fire License\)](#)

When was the last fire safety inspection carried out by the appropriate local authority? What were the key findings of the inspection and have any outstanding issues been addressed?

Department of Civil Defense and Fire Service authority has visited the site and has issued Fire License ([Annex-E](#))

Has there been any fire incident in the reporting period? If yes, please provide fire incident report including the details of these incidents, the root cause along with corrective actions taken by your organization.

	YES	√	NO
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Provide details: [Not Applicable](#)

Please indicate if any first aid training was provided to staff during the reporting period.

√	YES		NO
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Provide details in [Annex-F](#)

Please complete the following table for project operations to describe basic fire safety precautions.

Fire Safety Verification activities	Mandatory Frequency	Date(s) performed (mm/dd/yyyy)	Observed Deficiencies	Corrective Actions and Schedule For Implementation
Fire Drills	Minimum: three (3)/ year	23/02/2021, 25/03/2021, 27/05/2021, 30/06/2021, 31/07/2021,		Enhance Staff training

		18/08/2021, 28/09/2021, 24/10/2021, 24/11/2021 & 28/12/2021		
inspect and certify fire detection & suppression electrical & mechanical systems	Minimum	As per maintenance schedule		
Inspect, refill/recharge portable fire extinguisher	Minimum	Inspection is done monthly, Refilled on 23/08/2021	N/A	For inspection

PS2: Labour and Working Condition

Have you changed your Human Resources (HR) policies, procedures or working conditions during the reporting period?

	YES	√	NO
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Provide details

Provide the following information regarding your workforce:

NWPGCL

Site	Direct Employees	Female Direct Employees	employees terminated	employees hired	Contractor Employees
S-2 power plant	90	0	0	0	-

Has the Project been subject to any ongoing or, threatened, strikes, slowdowns or work stop pages by employees or any contractor or subcontractor? If yes, please provide details.

	YES	√	NO
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Provide details

Occupational Health and Safety

Describe the main changes implemented in terms of Occupational Health and Safety (OHS) during the reporting period, e.g. identification of hazards, substitution of chemicals, new controls, etc.

Occupational Health and Safety Indicators

Report Total Numbers for each parameter	This reporting period		Reporting period – previous year	
	Direct Employees	Contractor employees	Direct Employees	Contractor employees
Total number of Workers			-	-
Total man-hours worked Annual			0	0
Total number of lost time occupational injuries	0		0	0
Total number of lost workdays due to injuries	0		0	0
Number of fatalities	0	0	0	0

Provide details for the non-fatal injuries during this reporting period

Company or Contractor employee	Total workdays lost	Description of injury	Cause of accident	Corrective measures to prevent reoccurrence
NWPGCL	0	0	0	0

Describe in detail fatalities and vehicle accidents, including corrective measures (provide copies of OHS investigation and respective corrective plan).None

Significant Incidents

Date of incident	Type of incident	Brief Description of incident	Fatalities (Y/N)	# of fatalities	Preventive measures taken after the incident

Please describe any year-over-trends in reported indicators, non-fatal injuries and significant incidents.

No fatal injuries

Worker Accommodation: The project is now in operational phase, so no worker accommodation.

Please attach recent inspection checklists

PS3: Resource Efficiency and Pollution Prevention

Provide the following environmental monitoring data for this reporting period. If you already have all the data requested available in another format, this can be submitted instead. Please provide a scaled facility map showing the precise locations of all monitoring points.

Ambient noise

Please describe any year-over-trends. [NA](#)

Complete the table below to provide MIGA with quantitative data on project Noise levels. Please provide Host country maximum levels in country units in the table below.

How many monitoring points for Noise Sources will project has? [15 Points](#)

Monitoring Point Location:

1. South-west corner (Plant corner), North-west Corner, North-east Corner, South-east Corner, In front of STG>G, Residential & Administrational Building and others:(Attachment 1)

Receptors		WBG Maximum Levels (WBG unit)		Project performance (WBG unit)		Host Country maximum levels (Host Country unit)		Project performance(Host Country unit)	
Residential; Institutional; Educational	Daytime 7:00-22:00	55	dBA	-	dBA	-	dBA	-	dBA
	Nighttime 22:00 -7:00	45	dBA	-	dBA	-	dBA	-	dBA
Industrial; Commercial	Daytime 7:00-22:00	70	dBA		dBA	-	dBA	-	dBA
	Nighttime 22:00 -7:00	70	dBA		dBA	-	dBA	-	dBA
Silent	Daytime 6:00-21:00	-		-		50	dBA	-	dBA
	Nighttime 21:00 -6:00	-		-		40	dBA	-	dBA
Residential	Daytime 6:00-21:00	-		-		55	dBA	-	dBA
	Nighttime 21:00 -6:00	-		-		45	dBA	-	dBA
Mixed	Daytime 6:00-21:00	-		-		60	dBA	-	dBA
	Nighttime 21:00 -6:00	-		-		50	dBA	-	dBA
Commercial	Daytime 6:00-21:00	-		-		70	dBA	-	dBA
	Nighttime 21:00 -6:00	-		-		60	dBA	-	dBA
Industrial	Daytime 6:00-21:00	-		-		75	dBA	63.7	dBA
	Nighttime 21:00 -6:00	-		-		70	dBA	59.8	dBA

**Blue blocks are national standard, ECR'1997 and subsequent amendment on 2006*

`Please complete a similar table for every location where Noise is monitored while specifying the location.

Air quality

Please provide details of NO_x emissions and describe.

For Details, Please Check the **Attachment 1**

Liquid effluent discharges

Please describe any year-over-trends

Liquid effluent discharges (Industrial Waste Water Pool)

Date	pH	Temp (°C)
18/01/21	7.55	20.32
17/02/21	7.98	26.5
22/03/21	7.39	28.1
19/04/21	8.28	31.2
07/05/21	7.86	32.0
13/06/21	8.16	30.5
21/07/21	8.00	30.12
10/08/21	7.86	29.0
15/09/21	8.15	29.9
13/10/21	8.26	30.8
18/11/21	7.86	22.4
16/12/21	8.41	31.2
03/01/22	8.30	25.7

Complete the table below to provide MIGA with quantitative data on Project wastewater and ambient water quality levels. Please provide Host Country maximum levels in Country units in the table below.

How many monitoring points for wastewater? **1 Location**

Monitoring point Location (Please See the Attachment 1)

Receptors	WBG Maximum Levels (WBG unit)		Project performance (WBG unit)		Host Country maximum levels (Host Country unit)*		Project performance (Host Country unit)	
pH	6-9	pH	-	pH	6-9	pH	-	-
BOD	30	mg/L	-	mg/L	50	mg/L	-	mg/L
COD	125	mg/L	-	mg/L	200	mg/L	-	-
Total Nitrogen	10	mg/L	-	mg/L	-	mg/L	-	-
Total Phosphorus	2	mg/L	-	mg/L	-	mg/L	-	-
Oil and grease	10	mg/L	-	mg/L	10	mg/L	-	-
Total residual chlorine	0.2	mg/L	-	mg/L	0.5	mg/L	-	-
Total Suspended Solids	50	mg/L	-	mg/L	150	mg/L	-	mg/L
Total Coliform bacteria	400	MPN/100 ml	-	MPN/100 ml	-	MPN/100 ml	-	-

Note:

MPN: Most Probable Number

** Standards for Waste from Industrial Units or Projects Waste [See Rule 13]/ Places for determination of standards (Inland Surface Water)*

Please complete a similar table for every location where wastewater is monitored while specifying the location [NA](#)

Energy and Water Management

Utility Type	Units	Annual Consumption			Total	Remarks
		Site 1	Site 2	Site 3		
Water Use	Cubic Meter		14857995 cubic meter		14857995 cubic meter	February, 2021 to 5 th January, 2022
Gas	SCM		190326796.21 SCM		190326796.21 SCM	February, 2020 to 20 th January, 2021

Greenhouse Gas Emissions

Please describe year-over-trends.

[Please See the Annex-G](#)

Waste and Hazardous Materials

Please provide quantities and description of wastes and any year-over-trend. Please provide details of any waste recovery/recycling. [Not Applicable](#).

If any of the EHS guidelines or local regulatory limits is exceeded and, if appropriate, describe the planned corrective actions to prevent re-occurrence. **Not Occurred**

PS4: Community Health, Safety and Security

Using the table below list and briefly describe any new initiatives implemented in relation to Community Health and Safety during the reporting period. Include risk assessments, new infrastructure and equipment; hazardous materials and safety management, transportation and exposure to disease.

Mitigation Measure	Expected or actual date of Implementation	Planned future mitigation efforts?
Off Site Emergency Response Plan disclose	In the year 2021 implementation was done on 30.09.2021.	

During the reporting period any emergency drills have been conducted with community participation? Are the communities aware of the emergency response plans?]Please describe any changes in the Company's engagement with private/public security forces during the reporting period and any corresponding agreements.

The Sirajganj Power Hub (SPH) is KPI (key Point Installation) area. So, as per the Government rules, security guard was present to protect the SPH. As now there will be 4 power plants, so security guard number has been increased.

IV. ACTION PLAN STATUS AND UPDATE

Please update us in the current status of the action plan, define the dates when pending actions will be implemented. Please refer to the initial ESAP for the indicators and deliverables.

Task Title/ Description	Anticipated Completion Date	Indicator of Completion	Completion Date	Status as of DD/MM/YYYY	% Complete

All CP has been completed as per ESAP and CS activities are ongoing as per schedule.

Annex-H

V. DEVIATION/ NON-COMPLIANCES

The following are the identified deviation/non-compliances identified in reference to the following:

- (i) Performance Standards;
- (ii) Environmental and Social Action Plan;
- (iii) Non- compliance with local environmental and Social regulations
- (iv) Applicable EHS Guidelines

If there is any Non-compliances/deviations please record and provide additional information if necessary.

Please refer Environmental and Social Audit Report conduct by EQMS (January 2021).

(Attachment -2)

Areas of Interests	Non-Compliances Identified	Corrective Action Plan	Status of Completion	Completion date
Performance Standards (PS1-8)				
Environmental and Social Action Plan				
Local Environmental and Social regulations				
Applicable EHS Guidelines				

Please explain the cause and, if appropriate, describe the planned corrective actions to prevent re-occurrence.

VI. Development Effectiveness Indicators System (DEIS)

Please fill out the DEIS indicators (to be based on the Contract of Guarantee)

Annex- I

VII. CLIENTS FEEDBACK

Please check the box that best represent your evaluation of the support received from MIGA. On dealing with E&S aspects of the project, how diligently in your opinion has MIGA been able:

Areas of MIGA Assistance	No opinion	Excellent level of support	Above the expectations	As reasonably expected	Below what was expected	Comments
To help in the interpretation and applicability of MIGA's Performance Standards		√				
To provide guidance for the implementation of the Environmental and Social Action Plan(ESAP)		√				
To share the outcomes of MIGA supervision visits to the project and on agreeing in corrective actions		√				
To demonstrate flexibility and creativity to guide the Company's management of project's E&S issues		√				

ANNEX-A: ISO Certificate & Environmental Clearance Certificate (ECC)

Bureau Veritas Certification



NORTH-WEST POWER GENERATION COMPANY LIMITED



**HEAD OFFICE: UNIQUE TRADE CENTER (LEVEL- 03 AND 04), 8 PANTHAPATH,
KAWRANBAZAR, DHAKA-1215, BANGLADESH**

This is a multi-site certificate, additional site details are listed in the appendix to this certificate
Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management
System of the above organization has been audited and found to be in accordance
with the requirements of the Management System standards detailed below.

Standards

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Scope of certification

CORPORATE MANAGEMENT OF POWER PLANTS, POWER GENERATION & SUPPLY TO THE NATIONAL GRID

Original cycle start date For ISO 9001 & ISO 14001:	14 October 2016
Original cycle start date For ISO 45001:	28 August 2018
Expiry date of previous cycle:	13 October 2019
Recertification Audit date:	17 June 2019
Recertification cycle start date:	09 September 2019

Subject to the continued satisfactory operation of the organization's Management System,
this certificate expires on: **13 October 2022**

Certificate **IND19.9289/U** Version : **2** Revision date: **29 September 2020**



Signed on behalf of BVCH SAS – UK Branch
Jagdish N. MANIAN
Head – CERTIFICATION, South Asia
Commodities, Industry & Facilities Division



0008

Certification body address: 26th Floor, 88 Fleet Street, London, E1 3FG, United Kingdom.
Local office: Bureau Veritas (Bangladesh) Pvt. Ltd.
Symphony (26th Floor), Plot- 02/09, Road-142
South Avenue, Gulshan-1, Dhaka-1212, Bangladesh.

Fig 1 of 2

Further clarifications regarding the scope of this certificate and the applicability of the
management system requirements may be obtained by consulting the organization.
To check this certificate validity please call +36 (02) 6636766.



Bureau Veritas Certification

Appendix to the certification
**NORTH-WEST POWER GENERATION
 COMPANY LIMITED**



Standards

**ISO 9001:2015, ISO 14001:2015 &
 ISO 45001:2018**

SITE	SITE ADDITION DATE	ADDRESS	SCOPE
HEAD OFFICE	14-10-2016	UNIQUE TRADE CENTER (LEVEL- 03 AND 04), 8 PANTHAPATH, KAWRANBAZAR, DHAKA-1215, BANGLADESH	CORPORATE MANAGEMENT OF POWER PLANTS
SIRAJGANJ POWER STATION (UNIT-1, UNIT-2, UNIT-3)	14-10-2016	SOYDABAD, SIRAJGANJ, BANGLADESH	POWER GENERATION & SUPPLY TO THE NATIONAL GRID
KHULNA 225 MW COMBINED CYCLE POWER PLANT	14-10-2016	GOALPARA, KHALISHPUR, KHULNA, BANGLADESH	POWER GENERATION & SUPPLY TO THE NATIONAL GRID
BHERAMARA 410 MW COMBINED CYCLE POWER PLANT	29-09-2020	BHERAMARA, KUSHTIA, BANGLADESH	POWER GENERATION & SUPPLY TO THE NATIONAL GRID
MADHUMATI 100 MW HFO BASED POWER PLANT	29-09-2020	MOLLAHAT, BAGERHAT, BANGLADESH	POWER GENERATION & SUPPLY TO THE NATIONAL GRID

Certificate No. IND19.9269/U Version: 2 Revision date: 29 September 2020


 Signed on behalf of BVCH SAS – UK Branch
Jagdheesh N. MANIAN
 Head – CERTIFICATION, South Asia
 Commodities, Industry & Facilities Division



Certification body address: 5th Floor, 66 Prescot Street, London, E1 6HG, United Kingdom.

Local office: Bureau Veritas (Bangladesh) Pvt. Ltd.
 Symphony (5th Floor), Plot-22/79, Road-142
 South Avenue, Gulshan-1, Dhaka-1212, Bangladesh.

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Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization. To check this certificate validity please call +88 (02) 8836765.



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পরিবেশ অধিদপ্তর
রাজশাহী বিভাগীয় কার্যালয়
পরিবেশ ভবন, নিশিন্দারা, বগুড়া
www.doe.gov.bd

পরিবেশগত ছাড়পত্র নবায়ন

ছাড়পত্র নং: ২১-৬৫৪৫১

পরিবেশগত ব্যবস্থাপনা নিশ্চিতকরণ সাপেক্ষে সংযুক্ত শর্তে নিম্নবর্ণিত প্রতিষ্ঠান/প্রকল্পের অনুকূলে পরিবেশগত ছাড়পত্র নবায়ন প্রদান করা হলো :

প্রতিষ্ঠান/প্রকল্পের নাম	: Sirajganj 225 MW CCPP (2nd Unit-Dual Fuel)
উদ্যোক্তার নাম	: North-West Power Generation Co. Ltd.
সনাক্তকরণ নং	: ৬৭১২৮
প্রতিষ্ঠান/প্রকল্পের কার্যক্রম	: Power plant
প্রতিষ্ঠান/প্রকল্পের শ্রেণী	: Red
প্রতিষ্ঠান/প্রকল্পের ঠিকানা	: Soydabad, Sirajganj Sadar, Sirajganj
প্রদানের তারিখ	: ২৬ অক্টোবর ২০২১
মেয়াদ উত্তীর্ণের তারিখ	: ২৫ অক্টোবর ২০২২



এ ছাড়পত্র সনদের সাথে পৃথকভাবে সংযুক্ত প্রদত্ত শর্তাবলী যথাযথভাবে প্রতিপালন করতে হবে,
অন্যথায় ছাড়পত্র বাতিল/ক্ষতিপূরণ আদায়সহ যে কোন আইনানুগ ব্যবস্থা গ্রহণ করা হবে।

বিঃদ্রঃ এটি একটি সিস্টেম জেনারেটেড ছাড়পত্র এবং এতে কোনোরূপ স্বাক্ষরের প্রয়োজন নেই।

ছাড়পত্রটি যাচাই করতে ভিজিট করুন: https://ecc.doe.gov.bd/certificate_verification

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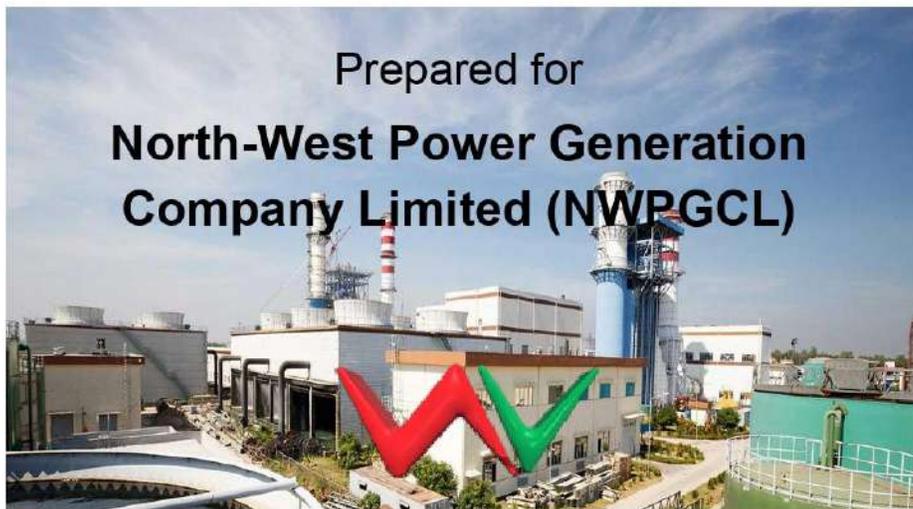
পরিবেশগত ছাড়পত্র নবায়ন এর জন্য প্রযোজ্য শর্তাবলী:

১. পরিবেশগত ছাড়পত্রে বর্ণিত শর্তাবলী যথাযথভাবে প্রতিপালন করতে হবে।
২. বাংলাদেশ পরিবেশ সংরক্ষণ আইন ১৯৯৫ (সংশোধিত ২০১০) এবং পরিবেশ সংরক্ষণ বিধিমালা ১৯৯৭ (সংশোধিত ২০০২) এর সকল বিধি-বিধান প্রতিপালন করতে হবে।
৩. কারখানাটির কার্যক্রম দ্বারা জনস্বার্থের ক্ষতি হলে তৎক্ষণাত ক্ষতিপূরণ দিতে হবে। দূষণ নিয়ন্ত্রণ ব্যবস্থা কার্যকর না থাকলে বা এর ফলে পরিবেশ ও প্রতিবেশের ক্ষতি হলে Polluters Pay Principle অনুসারে নির্ধারিত সময়ের মধ্যে ক্ষতিপূরণ দিতে হবে।
৪. কারখানার বিরুদ্ধে ভবিষ্যতে পরিবেশ দূষণমূলক কোন অভিযোগ উত্থাপিত ও অত্র দস্তুর কর্তৃক তা প্রমাণিত হলে অত্র দস্তুরের নির্দেশিত নিয়ন্ত্রণ/সংশোধনমূলক ব্যবস্থাদি (স্থানান্তর/কার্যক্রম বন্ধসহ) গ্রহণে কারখানাটি বাধ্য থাকবে।
৫. অগ্নি নির্বাপনকল্প কারখানায় যথোপযুক্ত ব্যবস্থাদি সার্বক্ষণিক কার্যকরী রাখতে হবে।
৬. পরবর্তী নবায়নের আবেদনের সাথে ছাড়পত্রের শর্তসমূহ প্রতিপালন সক্ষমতা প্রতিবেদন (Compliance Report) দাখিল করতে হবে।
৭. কারখানার শব্দ এবং তরল/বায়বীয় বর্জ্যের নিয়ন্ত্রণ/নির্গমন মাত্রা যথাক্রমে শব্দ দূষণ (নিয়ন্ত্রণ) বিধিমালা-২০০৬ এবং পরিবেশ সংরক্ষণ বিধিমালা, ১৯৯৭-এ বর্ণিত মানমাত্রার মধ্যে হতে হবে।
৮. কারখানার কর্মকর্তা দ্বারা মাটি, পানি ও বায়ু ও দূষণ করা যাবে না।
৯. প্রতি ৩(তিন) মাস অন্তর অন্তর অর্থাৎ বছরে ৪(চার) বার প্রকল্পের চারিদিকের শব্দের মানমাত্রা ও পরিবেষ্টক বায়ুর গুণগতমান (SOx, NOs, SPM) বিশ্লেষিত ফলাফল অত্র দস্তুরে দাখিল করতে হবে।
১০. কর্মরত শ্রমিকদের জন্য Personal Protection Equipment যেমন, নোজ মাস্ক, গ্লাভস ইত্যাদি ব্যবহার নিশ্চিত করতে হবে।
১১. কারখানার অবকাঠামোর পরিবর্তন/পরিবর্তন কিংবা উৎপাদন প্রক্রিয়ার পরিবর্তন/বৃদ্ধির ক্ষেত্রে পরিবেশ অধিদপ্তরের অনুমতি গ্রহণ করতে হবে।
১২. এ পর্যায়ে প্রাপ্ত ও পরিবেশিত তথ্যের ভিত্তিতে এ ছাড়পত্র প্রদান করা হলো। পরবর্তীতে কোন তথ্য অসম্পূর্ণ, ত্রুটিপূর্ণ, অসত্য কিংবা গোপন করা হয়েছে মর্মে প্রমাণিত হলে এ ছাড়পত্র বাতিল করা হবে।
১৩. পরিবেশ অধিদপ্তরের পরিদর্শক ও পরিদর্শনের ক্ষমতাপ্রাপ্ত অন্যান্য কর্মকর্তাগণ প্রকল্প পরিদর্শনকালে ছাড়পত্র/নবায়নপত্র দেখতে চাইলে তা দেখাতে হবে এবং ছাড়পত্র/নবায়নপত্র প্রকল্প অফিসের এমন স্থানে স্থাপন রাখতে হবে যাতে তা সহজে দেখা যায়।

ANNEX-B: Stakeholder Engagement Program

**225 MW Combined Cycle Power Plant Dual
Fuel – 2nd and 3rd Unit, Sirajganj, Bangladesh**

Operation Stage



**Stakeholder Engagement and Offsite
Emergency Response Plan Disclosure Report**

Prepared By



Badda Link Road, Gulshan, Dhaka

September 2021

EXECUTIVE SUMMARY

The sustainable power supply is an important precondition for the socio-economic development of Bangladesh. At present, about 92.2% (including off-Grid & Renewable) population of Bangladesh has access to electricity (World Bank, 2019) with an installed generation capacity of around 25,235 MW. Considering fuel gas & High-Speed Diesel (HSD) supply facilities in the area, the North-West Power Generation Company Limited (NWPGL), an enterprise of the Ministry of Power, Energy and Mineral Resources (MoPEMR) in line with the Government's Power Sector Master Plan of 2016, has planned to enhance the electricity generation by constructing a new Combined Cycle Power Plant (CCPP), 3rd and 2nd unit at Saidabad Sirajganj. The North-West Power Generation Company Limited (NWPGL), an enterprise of the Bangladesh Power Development Board (BPDB) has taken the initiative to enhance the power generation capacity of Bangladesh to address the growing electricity demand. This initiative will involve the operation of a 225 MW Combined Cycle Power Plant in Sirajganj.

This stakeholder engagement report deals with the impacted stakeholder engagement in the project as per baseline study, EIA guide of the GOB. This report will be concluded by considering the real-time PCM, FGD, and KII during the operation period on the project site. Considering the importance of stakeholders and their engagements, the NWPGL has identified, mapped its relevant stakeholders, and developed an engagement plan to approach the stakeholders throughout the project life cycle. According to the Stakeholder Engagement Plan (SEP), the NWPGL establishes a sustainable relationship along with its stakeholders. This report has been prepared on the stakeholder engagement activities guided by the established SEP of the NWPGL. The Area of Influence (AoI) is determined by considering the impacts related to transportation activities, the hiring and use of laborers during construction and operation of the Project, noise generated during operation of the Project, land use, dust generation, and air quality impacts related to operational activities.

There are several trainings, stakeholder meetings, FGDs, and KIIs that have been conducted with different stakeholder parties to understand the present situation of the project activity of the surrounding peoples, existing environmental settings as well as the institutional system. Most of the primary, secondary and other stakeholders presented in the interview session with NWPGL personnel for assessing the feedback from the local people about the project activity.

All of the impacted stakeholders are considered for this interview session including the local healthcare unit, family welfare, agriculture office, fisheries department, fishing community, agricultural community, and local people. All of them are well responded and well behaved. All of the stakeholders are commented about the operational activity as positive view and they demand just to continue the activities with considering the adverse impacts. The proponent is recommended to properly maintain the stakeholder engagement following the stakeholder engagement plan regularly.

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1 CHAPTER 1: INTRODUCTION

1.1 Study Background

Power is the main driving force of current progress and also the foundation of the growth rate. The vision of the Bangladesh Government is to give access to moderate and reliable power to all by the year 2021 and following this present government's goal is to guarantee continuous and quality power supply for all by 2021 through a change in generation, transmission, and distribution methods. The Government of Bangladesh has announced the new policy, "Vision 2041" targeting Bangladesh to be a developed country by 2041. With the consistency of economic development, a secure power system would be necessary. The government has further expanded its vision focusing on the coming years up to 2041 and arranged the Power System Master Plan 2016 (PSMP). This plan expresses that in 2020, 2030, and 2041, the power demand would be 12545MW, 27434 MW, and 52034 MW where the power supply would be 12949 MW, 30178 MW, and 57238 MW. Based on the future economic growth, fuel, demand, and supply, international cooperation, a new Power System Master Plan 2016 have been finalized Power System Master Plan (PSMP) 2016, aims at assisting Bangladesh in formulating extensive energy and power development plan up to the year 2041, covering energy balance, power balance, and tariff strategies. As per PSMP 2016, achieving middle to long term development issues and risks and formulate a comprehensive and result-oriented aid strategy for the energy sector by examining effective approaches for each issue. At present, about 92.2% (including off-Grid & Renewable) population of Bangladesh has access to electricity (World Bank, 2019) with an installed generation capacity of around 25,235 MW (September 2021). Considering fuel gas & High-Speed Diesel (HSD) supply facilities in the area, the North-West Power Generation Company Limited (NWPGCL), an enterprise of the Ministry of Power, Energy and Mineral Resources (MoPEMR) in line with the Government's Power Sector Master Plan of 2016, has planned to enhance the electricity generation by constructing a new Combined Cycle Power Plant (CCPP), 2nd and 3rd unit at Saidabad Sirajganj.

As per the definition of the Environment Conservation Rules (ECR), 1997 of Bangladesh, the proposed project falls under the "Red" Category Project. Hence, for the fulfillment of the condition required under this Category, an Environmental Impact Assessment (EIA) study has been carried out to assess the impacts of this Project, propose mitigation measures and its implementation plan (Environmental Management Plan). NWPGCL has engaged Engineers Associates Limited (EAL), an experienced firm for such activities, for the preparation of EIA for the project following the Terms of Reference. Engineers Associates Limited (EAL) has conducted an EIA study and submitted the EIA report to DoE on May 11, 2014, for DoE approval. Finally, DoE has issued a Letter for Approval of EIA on July 16, 2014. NWPGCL is seeking financial assistance from Standard Chartered Bank (hereinafter referred to as „SCB or „Bank or the „Lenders). AECOM India has been engaged by NWPGCL as independent auditors for carrying out the Environmental and Social Due Diligence of the project. The due diligence report is to be prepared following the International Finance Corporations Sustainability Framework 2012 (IFC) and its Performance Standards (PS) on Social and Environmental Sustainability to assess the compliance of the Project and the ability of the Project to comply with the requirements of the suggested reference framework.

1.2 Stakeholder Engagement

Stakeholder engagement is the process by which an organization involves people who may be affected by the decisions it makes or can influence the implementation of its decisions. More specifically, stakeholder engagement is a more inclusive and continuous process between a company and those potentially impacted that encompasses a range of activities and approaches and spans the entire life of a project. Additionally, Engagement is not an end in itself, but a means to help build better relationships with the societies in which we operate, ultimately resulting in improved business planning and performance.

Considering the importance of Stakeholders and their engagements, NWPGL has identified, mapped its relevant stakeholders, and developed an engagement plan to approach the stakeholders throughout the project life cycle. According to this Stakeholder Engagement Plan (SEP), NWPGL establishes a sustainable relationship along with its stakeholders. This report has been prepared on the stakeholder engagement activities for 2018-2019 as guided by the established SEP of NWPGL.

1.3 Objectives

The overall objective of the consultation process will disseminate project information and incorporate the views of stakeholders in the design of the environmental and social mitigation measures, management plan, and monitoring plan. The specific objectives of the consultation process are to:

- a. Local people comments and suggestions on the project activity;
- b. Improve project design and thereby, minimize conflicts and delays in implementation;
- c. Increase long term project sustainability and ownership;
- d. Reduce problems of institutional coordination; and
- e. Consult stakeholders to gather the information needed to complete the assessment

1.4 Methodology for Consultation

The approach undertaken for information disclosure and consultation involved the following key processes.

- a. Mapping and identification of key stakeholders such as primary (direct project influence) and secondary (indirect project influence) stakeholders according to SEP;
- b. Undertaking expert consultations, interviews, and FGD's with the respective stakeholders;
- c. Assessing the influence and impact of the project on these stakeholder groups;
- d. Summarizing of key findings and observations from the consultations; and
- e. Preparing a future stakeholder engagement strategy consultation plan for a more detailed assessment at a microscopic level taking into account the various project lifecycle phases and their implications on the stakeholder.

2 CHAPTER 2: PROJECT DESCRIPTION

2.1 Project Location

The project site is located at about 15 km south-east of Sirajganj town, about 130 km North-West of Dhaka, and 1.8 km south-west from the western end of Bangabandhu bridge. Subsequently, NWPGL has applied for getting the land of 17.5 acres (10 acres for Sirajganj 225MW 2nd Unit and 7.5 acres for Sirajganj 225MW 3rd Unit) leased from BPDB as per the decision of GOB to establish the said power plants in the Sirajganj Generation Hub. The major components include a 150 MW gas turbo generator (GTG) with a bypass stack of 60 meters high, one horizontal type Heat Recovering Steam Generator (HRSG) with the main stack of 60 meters high for outdoor installation, and a heavy-duty condensing type Steam Turbo Generator (STG) for indoor installation in the configuration of 1:1:1, feed water pumps, condensate extraction pumps, cooling towers, 230 KV plant sub-station, transformers, Gas Regulating Metering Station (RMS), Oil Separator Unit, Water Treatment Plant (WTP), Administration building, workshop, warehouse, guardhouses, internal roads, etc.

The project is a dual fuel-based Combined Cycle Power Plant (CCPP), which will be operated predominantly by Natural Gas (NG) but has also the provision of High-Speed Diesel (HSD) in case of emergency and non-availability of NG. The natural gas required for the Plant is 35 MMCFD and the Pashchimanchal Gas Company Limited (PGCL) will supply natural gas at a pressure of 500 psi through a 1.7 Km long and 16-inch diameter pipeline from its existing valve station to the PGCL RMS, which is to be constructed. From this RMS a 12-inch line will be extended up to the Power Plant's RMS (to be constructed inside the Plant's boundary) at a pressure of 350 psi. Liquid fuel (HSD) requirement is estimated to be about 920 m³/day at 80% PF. The oil will be supplied by Bangladesh Petroleum Corporation (BPC) from its Daulathpur and/or Khulna depot by railway wagons to Bangabandhu Bridge (Satu) West Railway Station and stored in the HSD tanks in the Plant.

The hot flue gas that is produced in the combustor will then be directed to the GTG, where it expands, loses pressure and temperature, and causes the GTG to spin and generate about 150 MW of power. The hot exhaust gas of GTG will pass through the HRSG and main stack to the atmosphere. The HRSG in turn will generate High Pressure (HP), Intermediate Pressure (IP), and Low Pressure (LP) steam that will be directed to the STG, which would, in turn, generate 75 MW of power, thus totaling the Plant output to 225 MW. The generated power of GTG and STG will be stepped up to grid voltage level (11/230 KV) by station transformers (240 MVA for GT and 120 MVA for ST) and feed to the national grid, via underground cables (Sirajganj sub-station), through the Plant sub-station.

Total water demand for Units 1-3 is 1400 m³/h, with the third Unit requiring 400 m³/h as per the feasibility Report. There is a provision for the fourth Unit to be constructed beside the third Unit. These units altogether will raise the water requirement to 2550 m³/h. Water requirement for Plant construction and operation can be fulfilled from groundwater and it was reported from the feasibility study that the maximum allowable withdrawal of groundwater is 3,200 m³/h without causing the conspicuous problem in the groundwater table of the SPS area (EAL, 2014 and SDCPL, 2015). The major air pollutants that are produced from the power generating units due to the burning of fossil fuels are SO_x, NO_x, CO₂, CO, and SPM. Major sources of contaminated water from the proposed power plant are blowdowns of HRSG, cooling tower, backwash and rejects of the water treatment plant, oily water from turbine floor and transformer area, etc.

2.2 Importance of the Project

At present total installed electricity generation capacity is 25,235 MW with 92.2% of the population of the country has the access to electricity. The Ministry of Power, Energy and Mineral Resources (MoPEMR) has forecasted that the increase in power demand in response to the desired economic growth of the country, will reach 34,000 MW by 2040. The Power System Master Plan (PSMP) also projected some scenarios of power demand concerning different GDP growth rates. All these variable projections are depicted in Figure 2-1.

To address the conflict between increasing power demand and prevailing shortage, BPDB has adopted a power generation enhancement plan till 2021 which is in line with the PSMP, 2016. The summary of the plan to increase power generation is depicted in Table 2-1. The plan includes different initiatives to generate additional electricity by diversifying fuel, rehabilitating age-old power plants, and importing electricity from neighboring countries. The Sirajganj 225 MW CCPP Project is one of such steps for contributing to meet the growing demand.

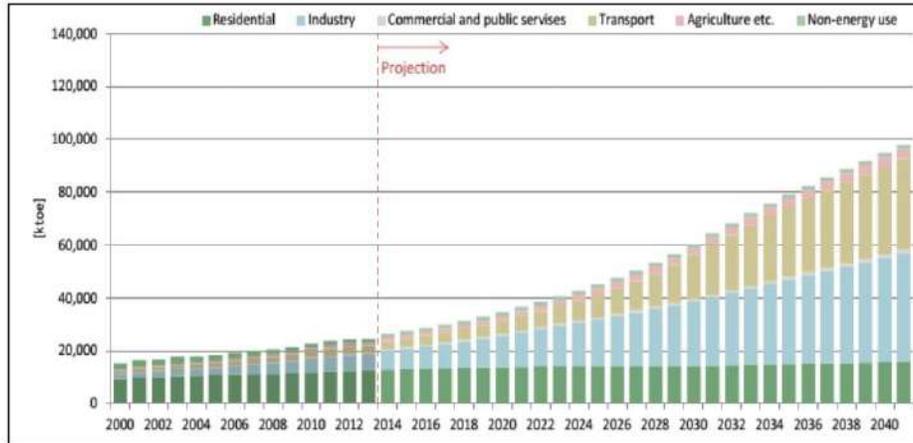


Figure 2-1: Projection of Final Energy Consumption (Energy Efficiency Scenario)¹

Table 2-1: Power Generation Enhancement Plan2

Sl. No.	Type	2015	2016	2017	2018	2019	2020	2021	Total
1.	Public (MW)	1,218	770	2,202	846	2,070	1,000	2,400	10,506
2.	Private (MW)	1,130	748	799	1,270	568	1,287	1,912	7,670
3.	Import (MW)	---	---	---	---	---	---	---	---
4.	Total	2,348	1,518	3,001	2,116	2,634	2,247	4,312	18,176

2.3 Potential Major Benefits

The power Plant will trigger regional development, creation of employment opportunities, and thereafter improvement of livelihood. The power plant may also bring social and

¹ Source: PSMP 2016

² Source: Power Sector Emergency Information, System Planning Department, BPDB, February 16, 2015

economic development to the region through infrastructural improvement, reducing energy shortfall, rural electrification, and industrial (power loom) development. The communication network will also be improved significantly and will increase livelihood opportunities during the construction period. Finally, the project would improve Environmental Performance by providing a means of effluent treatment of existing units; thus, significantly reducing the discharging of effluents in the canal around the site connected to the Jamuna River.

2.4 Area of Influence

The Area of Influence (AoI) is determined by considering the impacts related to transportation activities, the hiring and use of laborers during operation of the Project, noise generated during operation of the Project, land use, dust generation, and air quality impacts related to operational activities.

The nearest settlements to the Project Site will be considered as the first impact zone. In other words, locals in the first impact zone may experience direct impacts from the Project. Operational works will cause dust and noise emission, in which nearest Ponchosona village area (distanced 0.2 km to the Project Site) and Boroshimul Village (distanced 1 km to the Project Site) may experience dust and noise impacts during the operation phase of the Project. Therefore, the first impact zone includes the Ponchosona village and Boroshimul village which are within a 2 km radius around the Project Site. The second impact zone includes the other residential area, which is within a 5 km radius of the Project site. Inhabitants within the second impact zone may experience indirect Project impacts such as direct and indirect job opportunities, providing goods and services to the Project and Project employees. Inhabitants in the first impact zone are more likely to experience impacts related to community health and safety than inhabitants located in the second impact zone. Further information on these impacts can be found in the EIA report.

Due to operational activity, local people may face dust or noise pollution and also other environmental hazards. For assessing the people's present status due to project activity this interview was conducted. Considering the primary stakeholders near the project area, a day-long interview has been conducted to ensure their comments on the project activity. According to the baseline study, this interview has been conducted on the premises of the project. As stated, the allocation of the Project Site causes no private land acquisition. Therefore, there will be no need to take mitigation measures for economic or physical displacement for the allocated site.

3 CHAPTER 3: LEGAL REQUIREMENTS

This section outlines the regulatory framework for the Project's stakeholder engagement activities, namely-

3.1 Asian Development Bank (ADB) Safeguard Policy Statement (2009)

ADB's Safeguard Policy Statement requires ADB's borrowers/clients to carry out meaningful consultation processes in all projects financed by ADB.

- a. For policy application, ADB will require borrowers/clients to engage with communities, groups, or people affected by proposed projects, and with civil society through information disclosure, consultation, and informed participation in a manner commensurate with the risks to and impacts on affected communities. For projects with significant adverse environmental, involuntary resettlement, or Indigenous Peoples impacts, ADB project teams will participate in consultation activities to understand the concerns of affected people and ensure that such concerns are addressed in project design and safeguard plans.
- b. The ADB's Safeguard Policy Statement emphasizes requirements for establishing a grievance mechanism that receives and facilitates the resolution of affected people's concerns, complaints, and grievances about a Project's environmental and social performance. The grievance mechanism should be scaled to Project risks and adverse impacts, address affected people's concerns and complaints promptly. It should also ensure the process is understandable and transparent, gender-responsive, culturally appropriate, and readily accessible to all segments of affected people. It should also not impede access to judicial or administrative remedies. The grievance mechanism should be delivered to the affected people in appropriate manner. ADB. 2011. Public Communications Policy. The policy promotes greater transparency and accountability by enabling ADB's stakeholders—especially people affected by development activities—to better participate in the decisions that affect them. ADB-assisted activities are expected to consider the right of people to seek, receive, and impart information and ideas, and consider feedback from its stakeholders, including affected people. Information shall be given to affected people early enough for them to provide meaningful inputs into project design and implementation.
- c. ADB's Policy on Cooperation with Civil Society Organizations (1998). The policy recognizes that NGOs can contribute valuable advice on the design of projects and can participate directly in implementation. To support effective cooperation with NGOs, the policy indicates that as appropriate, mechanisms to expand and strengthen interaction with NGOs in loan and technical assistance activities will be identified and existing mechanisms for consultation and dialogue with NGOs will be pursued and strengthened. Under this policy and the 2009 SPS, the Borrower is expected to carry out meaningful consultation with affected people and other concerned stakeholders, including civil society, and facilitate their informed participation.
- d. Stakeholder Engagement requires clients to demonstrate effective Stakeholder Engagement as an ongoing process in a structured and culturally appropriate manner with Affected Communities and, where relevant, Other Stakeholders.

3.2 The IFC Performance Standards (IFC PS:1 Stakeholder Engagement)

- a. **Stakeholder Engagement:** According to IFC PS-1 Stakeholder engagement is an ongoing process that may involve, in varying degrees, the following elements: stakeholder analysis and planning, disclosure and dissemination of information, consultation and participation, grievance mechanism, and ongoing reporting to Affected Communities. The nature, frequency, and level of effort of stakeholder engagement may vary considerably and will be commensurate with the project's risks and adverse impacts, and the project's phase of development. Stakeholder Analysis and Engagement Planning: Clients should identify the range of stakeholders that may be interested in their actions and consider how external communications might facilitate a dialog with all stakeholders. The client will develop and implement a Stakeholder Engagement Plan that is scaled to the project risks and impacts and development stage, and be tailored to the characteristics and interests of the Affected Communities.
- b. **Disclosure of Information:** Disclosure of relevant project information helps Affected Communities and other stakeholders understand the risks, impacts, and opportunities of the project. The client will provide Affected Communities with access to relevant information.
- c. **Consultation:** When Affected Communities are subject to identified risks and adverse impacts from a project, the client will undertake a process of consultation in a manner that provides the Affected Communities with opportunities to express their views on project risks, impacts and mitigation measures, and allows the client to consider and respond to them. The extent and degree of engagement required by the consultation process should be commensurate with the project's risks and adverse impacts and with the concerns raised by the Affected Communities. Informed Consultation and Participation: For projects with potentially significant adverse impacts on Affected Communities, the client will conduct an Informed Consultation and Participation (ICP) process that will build upon the steps outlined above in Consultation and will result in the Affected Communities' informed participation.
- d. **External Communications and Grievance Mechanisms:** Clients will implement and maintain a procedure for external communications that includes methods to (i) receive and register external communications from the public; (ii) screen and assess the issues raised and determine how to address them; (iii) provide, track, and document responses, if any; and (iv) adjust the management program, as appropriate. In addition, clients are encouraged to make publicly available periodic reports on their environmental and social sustainability. Where there are Affected Communities, the client will establish a grievance mechanism to receive and facilitate resolution of Affected Communities' concerns and grievances about the client's environmental and social performance.

4 CHAPTER 4: CONSULTATION

For the SEP, a stakeholder is defined as any individual, organization, or group which is potentially affected by the Project or which has an interest in the Project and its impacts. The objective of stakeholder identification is to establish which stakeholders may be directly or indirectly affected – either positively or negatively - (“affected parties”), or have an interest in the Project (“other interested parties”). Particular effort must be made to identify any disadvantaged and vulnerable stakeholders who may be differentially or disproportionately affected by the Project or who may have difficulty participating in the engagement and development processes. Stakeholder identification is also an ongoing process and will require regular review and update.

There are several stakeholder meetings, FGDs, and KII that have been conducted with different stakeholder parties to understand the present situation of the project activity of the surrounding peoples, existing environmental settings as well as the institutional system. Most of the primary, secondary and other stakeholders presented in the interview session with NWPGL representative for assessing the feedback from the local people about the project activity. The agenda and discussed issues are presented in the following section.

4.1 Fire Service and Civil Defense

4.1.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Fire Service and Civil Defence Sub-Station, Sirajganj Sadar, Sirajganj
Consulted Person	Md. Yakub Ali
Designation/Position	Station In-Charge
Cell No.	01313425824
Consulted By	Md. Abdur Rahman
Designation/Position	Consultant, ELRC
Date	10 August 2021
Time	03:03 PM

4.1.2 Discussions

Concerned Issues	Discussions
Involvement with the Emergency Preparedness Programs Taken by the NWPGL	Every month (1 st week of the month and last week of the month)
Frequency of Programs Taken	Two times per month per unit
Fire Incidents Reported	Not yet occurred
Remarks/Recommendation	Need to be more practical and time-oriented

4.1.3 Photographs



Photo 4-1: Consultation with Fire Safety Personnel at Project Sub-Station

4.1.4 Recommendations

Fire drilling/ fire safety training needs to be conducted periodically and the NWPGL should take necessary steps for fire training of its workers and staff regularly. Fire drilling and demo should be taken for any kind of fire hazards.

4.2 Ministry of Health and Family Welfare

4.2.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Upazila Health and Family Welfare Office, Sirajganj Sadar, Sirajganj
Consulted Person	Dr. Iftexhar Ahmed Toslim
Designation/Position	Upazila Health and Family Welfare Officer
Cell No.	01919848050
Consulted By	Md. Abdur Rahman
Designation/Position	Consultant, ELRC
Date	12 August 2021
Time	11:28AM

4.2.2 Discussions

Concerned Issues	Discussions
Available Health Facilities	Primary Treatment, Maternal Consultation, Communicable and Non-communicable Disease Related Awareness
Common Exposure Diseases (Last One Year)	No Records Available
Health Problems Created from The Project Activities (If Any)	No
Health Improvement Initiatives Taken by NWPGL	A professional doctor has been engaged in the project admin office from the beginning of the project with medical facilities and check-up. If any kind of support need from the Upazilla Health and Welfare Office, they will try their best to support.
Remarks	Denied to take pictures

4.2.3 Photographs

Denied to Take Photographs

Photo 4-2: Consultation with Upazilla Medical Officer at Upazila Health and Family Welfare Office

4.2.4 Recommendations

Next time health related information should be taken from the nearest Union Health Complex or Upazilla Health Complex.

4.3 Department of Agriculture

4.3.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Bangladesh Agricultural Development Corporation (BADC), Sirajganj Sadar, Sirajganj
Consulted Person	Md. Majud Alam
Designation/Position	Executive Engineer
Cell No.	N/A
Consulted By	Md. Abdur Rahman
Designation/Position	Consultant, ELRC
Date	22 July 2021
Time	01:22 PM

4.3.2 Discussions

Concerned Issues	Discussions
Agricultural Practices	Two crops field maximum and some of them three crops
Irrigation Practices	Shallow tube well, River water, and Deep tube well (rare)
Irrigation Cost	Rice production cost per bigha (33 decimal): 10000-12000 BDT
Production Rate	Not recorded
Annual Revenue	Not recorded
Availability of Agricultural Labour	Not available all the season
Labor Wages	Vary season to season 400-700 BDT
Agricultural Problems Created from The Project Activities (Yes/No)	No problem has been reported yet
Remarks	Need Deep tube-well installation for proper irrigation

4.3.3 Photographs



Photo 4-3: Consultation with Executive Engineer, BADC, Sirajganj Sadar, Sirajganj

4.3.4 Recommendations

Deep tube-well installation may help to increase agricultural productivity. Try not to acquire agricultural land if the project is extended or for other purposes.

4.4 Department of Fisheries

4.4.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Upazilla Fisheries Office, Sirajganj Sadar, Sirajganj
Consulted Person	Md. Anwar Hosen
Designation/Position	Senior Fisheries Officer
Cell No.	01722372791
Consulted By	Md. Abdur Rahman
Designation/Position	Consultant, ELRC
Date	10 August 2021
Time	11:55 PM

4.4.2 Discussions

Concerned Issues	Discussions
Fishing Scenario and Practices Around the Project Site	Aquaculture, open water fishing, home pond. Generally used current net, bernet, wheel, dragnet, etc. Fishes: Chital, Rui, Katla, Bhangon, Kalbaosh, Punti, Baila Cavasi Tengra, Chanda, Chela, Pangas, Horina Chingri, Darkina, Parshi, Golda Chingri, Mrigal, Koi, Kolisha, Madhu pabda, Magur, Mola, Tilapia, Phasa, Pholi, Gazar/Gojar, Tara Baim, Tengra, Veda, Shal Baim, Shol, Taki
Yearly Yield	8439 metric ton total (Upazilla wise)
Total Fishing Activities (Around the Project Site)	Not updated
Fish Availability (Around the Project Site)	The fish availability rate is satisfactory
Fishing Areas (Around the Project Site)	River/open water fishing areas near the plant
Fishing Problems Created from The Project	No

ELRC

4-4

NWP/PGCL

Concerned Issues	Discussions
Activities (Yes/No)	
Remarks	The NWPGL may support fishermen in the lean season by any kind of CSR program or other available ways.

4.4.3 Photographs



Photo 4-4: Consultation with Senior Upazilla Fisheries Officer, Sirajganj Sadar, Sirajganj

4.4.4 Recommendations

The NWPGL may support fishermen in the lean season by any kind of CSR program or other available ways.

4.5 Department of Public Health Engineering

4.5.1 Details of Consultation

Name of the Stakeholder (Institution/Community)	Department of Public Health Engineering (DPHE)
Consulted Person	Md. Wali Ullah,
Designation	Executive Engineer
Cell No.	N/A
Consulted By	Md. Abdur Rahman
Designation	Consultant, ELRC
Date	22 July 2021
Time	11:27 AM

4.5.2 Discussion

Concerned Issues	Discussions
Ground Water Condition Around the Project Site Area	The overall quality is good. Iron problem found in the groundwater around the project area
DTW Depth	150-300 ft
STW Depth	35-40 ft
DTW Installation Cost	No recent installation has been incurred by DPHE
STW Installation Cost	2000 BDT per feet
Observation Well near the Project	There is no observation well near the plant site
Ground Water Level Related Complaints	There are no complaints yet from the local people regarding groundwater level

Concerned Issues	Discussions
Remarks	Use surface water as an alternative to groundwater for cooling tower

4.5.3 Photographs



Photo 4-5: Consultation with Executive Engineer, DPHE, Sirajganj Sadar, Sirajganj

4.5.4 Recommendations

It's better if the mega-project use surface water. The NWPGL may intervene to mitigate iron contamination of groundwater and use surface water as much as possible instead of using groundwater.

4.6 Fishing Community

4.6.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Fishing Community, Boroshimul Village, Saidabad, Sirajganj
Consulted By	Md. Abdur Rahman
Designation/Position	Consultant, ELRC
Date	23 July 2021
Time	10:25AM

4.6.2 Participants Details

Sl. No.	Name	Age	Locations
1.	Md. Joynal Abedin	38	Ponchosona Village
2.	Md. Abdul Alim	43	Ponchosona Village
3.	Md. Al Amin	25	Ponchosona Village
4.	Shafiqul Islam	37	Ponchosona Village
5.	Sajjadul Islam	47	Ponchosona Village
6.	Harun Rashid	33	Boroshimul Village
7.	Mozammel Mia	40	Boroshimul Village
8.	Tasir Sheikh	30	Boroshimul Village

4.6.3 Discussions

Concerned Issues	Discussions
Fishing Areas Around the Project Site (Number)	Mainly the Jamunariverside and some ponds nearest the local residential area but not nearest to the project area
Fishing Practices	Current net, ber net, wheel, dragnet, etc.
Available Fisheries	Chital, Rui, Katla, Bhangon, Kalbaosh, Punt, Baila, Cavasi Tengra, Chanda, Chela, Pangas, Horina Chingri, Darkina, Parshi, Golda Chingri, Mrigal, Koi, Kolisha, Madhu Pabda, Magur, Mola, Tilapia, Phasa, Pholi, Gazar/Gojar, Tara Baim, Tengra, Veda, Shal Baim, Shol, Taki
Quantity of Fisheries	Enough for a season (no decrease of fisheries quantity)
Fishing Problems Created by Project Activities Around the Project Site Area (Yes/No)	Not yet observed any problem relating to project activities
Remarks	The fisheries community has no any important or drastically impacted observation during this monitoring period.

4.6.4 Photographs



Photo 4-6: Focus Group Discussion (FGD) with Fishing Community

4.6.5 Recommendations

It is reported that the riverside fisheries quantity has not changed dramatically. According to the flood scenario of the project area, every year a few of fishes impacted by the flood high tide and sedimentation. The project has no any direct or indirect impact on the fisheries growth or mortality.

4.7 Agricultural Farmers

4.7.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Farmers Community, Boroshimul Village, Saidabad, Siraganj
Consulted By	Md. Abdur Rahman
Designation/Position	Consultant, ELRC
Date	21 July 2021

ELRC

4-7

NWPGL

Time	03:30 PM
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4.7.2 Participants Details

Sl. No.	Name	Age	Locations
1.	Md. Jalal Mia	35	Boroshimul Village
2.	Md. Helal Hossain	24	Boroshimul Village
3.	Md. Yakub Ali	31	Boroshimul Village
4.	Md. Golam Rosul	26	Boroshimul Village
5.	Md. Shagor Ahmed	36	Boroshimul Village
6.	Md. Billal Bhuiyan	49	Ponchosona Village
7.	Md. Anwar Hossain	34	Ponchosona Village
8.	Shah Alam Howlader	45	Ponchosona Village

4.7.3 Discussions

Concerned Issues	Discussions
Agricultural Practices (Single, Double and Triple)	Double (paddy-jute)
Crop Types	Common Crops are paddy, jute, wheat, pulse, mustard, vegetables, etc.
Production Rate	Decrease in productivity is being experienced for the last few years
Irrigation Practices	Deep and shallow tube well, natural and surface water
Irrigation Cost (Last and Present Year) Annual Revenue	10000-12000 BDT per Bigha (33 Decimal)
Agricultural Labor Availability	Scarce in peak season
Labourer Wages (Male, Female)	450-500 BDT per day in last season (male only); female workers are unavailable in this area
Remarks	Production rate is decreasing

4.7.4 Photographs



Photo 4-7: Focus Group Discussion (FGD) with Agricultural Farmers Community

4.7.5 Recommendations

Concerning issues are unavailability of deep tube-well and low agricultural productivity. The NWPGL may take initiative to increase agricultural productivity with the involvement of the respective Upazila Agriculture Department.

4.8 Emergency Response Plan Disclosure

An emergency response plan is a documented series of steps an organization will take during a critical event to ensure employees' safety and minimize the impact on critical operations. As every emergency management professional will tell you, the best time to prepare for an emergency is well before it occurs. Taking an initiative-taking approach to emergency response planning helps you ensure the best possible outcomes for your people and business and allows you to think holistically about the situation and account for a multitude of variables. Emergency response plans are meant to help organizations address various emergencies that could affect their organization, such as hurricanes, wildfires, winter weather, chemical spills, disease outbreaks, and other hazards. The goal is to reduce or prevent human injury and property damage during any critical event by documenting the steps that should be taken to ensure a timely response tailored to each scenario. It also specifies which staff members should be part of the response team and which first responders should be contacted. Ideally, the outcome of emergency planning is to protect a company's finances, operations, and employees from harm.

Emergencies can come without warning at any time. Being prepared is the best way to manage these unexpected incidents and disasters. The information in the Emergency Response Plan is intended to cover most emergencies including information about who and how to react and report emergencies. Usually, the number of stakeholders or actors is related to any emergency plan along with their specific roles and responsibilities. Stakeholders and relevant actors can act or play roles successfully during any emergencies once they are well informed about their roles and responsibilities. Therefore, for any well-prepared emergency plan is most important to show it with its relevant stakeholders.

Instead of this power complex having numerous positive contributions to the development of a local community, this project itself is a potential risk for community living adjacent to the power complex. Acknowledging the potential risks for the local community, NWPGL has developed an Off-site Emergency Plan for minimizing or mitigating potential risks generated directly or indirectly by the project interventions or activities. But the success of this Off-site Emergency Plan depends on how extent communities and relevant stakeholders know and act according to the plan. To ensure this, disclosure of the Off-site Emergency Plan is a very crucial instrument. This report describes the roles and responsibilities of the communities and relevant stakeholders based on the developed Off-site Emergency Plan. Moreover, it also presents the Emergency Plan disclosure activities and feedback from the communities and relevant stakeholders.

4.8.1. Stakeholders

NWPGL has already adopted the off-site emergency plan for its 2nd and 3rd Unit project located in Saidabad, Sirajganj. Before adopting an off-site emergency plan, relevant stakeholders were identified along with specific responsibilities. Stakeholders and their responsibilities are described as following Table 4-1.

Table 4-1: Identified Stakeholders and Their Responsibilities

Sl. No.	Stakeholders	Responsibility
1.	Chairman of Union Parishad	<ul style="list-style-type: none"> ▪ Assist to hold a hazard, vulnerability, and risk analysis at surrounding off-site area. ▪ Assist to identify the most vulnerable area or people at high risk by sex, age, physical ability, social status, occupation, and economic status, compiling the list of people at high risk. ▪ Assist to increase efficiency in developing local warning systems, risk reduction programming, rescue and recovery strategy, and awareness-raising strategy.
2.	Officer-in Charge (Police)	<ul style="list-style-type: none"> ▪ Assist to maintain law and order and security of persons and property of the project site area. ▪ Assist to deal with an insurgency that impedes development activities and threatens the security of the project site.
3.	Fire Service and Civil Defence Sub-Station	<ul style="list-style-type: none"> ▪ Assist to rescue missions including fire safety, safety during air raids, and any kind of disaster and emergencies.
4.	Upazila Health and Family Welfare Office	<ul style="list-style-type: none"> ▪ Assist to provide emergency medical facilities with organizing medical camps or ambulance services. ▪ Assist to provide logistic supports for awareness training on communicable and non-communicable diseases.
5.	Department of Public Health Engineering (DPHE)	<ul style="list-style-type: none"> ▪ Assist to provide support on public health issues during emergency periods. ▪ Assist to take necessary steps for potable water supply during the emergency period.
6.	Department of Agriculture	<ul style="list-style-type: none"> ▪ Assist to eradicate any impacts on agricultural land nearest to the power plant ▪ Attaining awareness build up programs and cooperating with the emergency response plan
7.	Department of Fisheries	<ul style="list-style-type: none"> ▪ Assist to eradicate any impacts on fisheries nearest to the power plant ▪ Attaining awareness build up programs and cooperating with the emergency response plan
8.	Local NGOs	<ul style="list-style-type: none"> ▪ Assist to implement the short-, medium- and long-term action plan for risk reduction as well as review the progress of the implementation. ▪ Assist to provide logistic support during emergency periods.
9.	Local Community	<ul style="list-style-type: none"> ▪ Attaining awareness build up programs and cooperating with the emergency response plan.

4.8.2 Off-Site Emergency Response Plan Disclosure

An off-site emergency plan has been conducted for disclosure to the respective stakeholders in 2021 for confirming their responsibilities and further understanding. The details of stakeholder engagement are presented in the following Table 4-2.

Table 4-2: Stakeholder Engagement with Offsite Emergency Plan

Sl. No.	Stakeholder Name	Designation/Location	Activity	Comments/Recommendation
1.	Nabidul Islam	Chairman of Saidabad Union Parishad	<ul style="list-style-type: none"> ▪ A meeting or consultation with the responsible person of 	<ul style="list-style-type: none"> ▪ All potential risks have been considered. ▪ There has been no report of an emergency yet.
ELRC		4-10		NWPGCL

Sl. No.	Stakeholder Name	Designation/Location	Activity	Comments/Recommendation
			<p>NWPGCL is held regularly.</p> <ul style="list-style-type: none"> ▪ NWPGCL has been made aware of the potential risk and vulnerable areas. ▪ We can assist in the organization of an awareness program and the dissemination of an emergency plan. ▪ People have already been informed about the risk-specific emergency plan. 	
2.	Sayed Shahid Alam BPM	Officer-in Charge (Police), Bangabandhu Bridge Police Station	<ul style="list-style-type: none"> ▪ We are continually on the lookout for any type of emergency that could jeopardize the project's security or breach the law. ▪ NWPGCL accountable person is contacted on a regular and need-to-know basis. ▪ The project site is being visited regularly, and security maintenance work is being done. 	<ul style="list-style-type: none"> ▪ Since last year, no incidents have been reported. ▪ Further force allocations are being planned, despite the project's sensitivity.
3.	Md. Yakub Ali	Station In-Charge, Fire Service and Civil Defense Sub-Station, Sirajganj Sadar, Sirajganj	<ul style="list-style-type: none"> ▪ We are concerned about the project's emergencies. ▪ We have previously erected a sub-station near the project site to ensure prompt reaction in the event of an emergency. ▪ NWPGCL is seeking professional assistance in organizing regular drilling activities. 	<ul style="list-style-type: none"> ▪ There have been no reports of off-site emergencies yet. ▪ The Emergency Plan does not need to be updated. ▪ Drilling or training programs, on the other hand, can be designed so that communities receive practical recommendations on what to do and how to do it in certain disaster situations.

Sl. No.	Stakeholder Name	Designation/Location	Activity	Comments/Recommendation
4.	Dr. Iftekhar Ahmed Toslim	Upazila Health and Family Welfare Officer, Upazila Health and Family Welfare Office, Sirajganj Sadar, Sirajganj	<ul style="list-style-type: none"> ▪ During any emergency, we are always ready to provide any medical or other assistance. ▪ We are concerned about the project site's emergencies. ▪ Communication with the responsible person of NWPGCL is required on a regular and as-needed basis. 	<ul style="list-style-type: none"> ▪ There have been no reports of offsite emergencies. ▪ All potential risks will be considered.
5.	Md. Wali Ullah	Executive Engineer, Department of Public Health Engineering (DPHE), Sadar, Sirajganj	<ul style="list-style-type: none"> ▪ We are aware of the emergency of a power plant, and we are ready to assist NWPGCL in any way to conduct any emergency. 	<ul style="list-style-type: none"> ▪ There have been no reports of emergencies yet. ▪ Communication will be maintained as needed.
6.	Md. Majud Alam	Executive Engineer, Bangladesh Agricultural Development Corporation (BADC), Sadar, Sirajganj	<ul style="list-style-type: none"> ▪ Support will be provided on a needbasis. ▪ In the event of an emergency, we are always prepared to assist. 	<ul style="list-style-type: none"> ▪ There have been no reports of an emergency. ▪ Support will be provided on an emergency basis.
7.	Md. Anowar Hosen	Senior Fisheries Officer, Upazilla Fisheries Office, Sadar, Sirajganj	<ul style="list-style-type: none"> ▪ We are working with NWPGCL to develop an off-site emergency plan. ▪ Prepared to assist in any emergency. 	<ul style="list-style-type: none"> ▪ Every risk has been considered.
8.	Local Community	Punarbashon Village	<ul style="list-style-type: none"> ▪ People are aware of potential hazards and emergencies in the surrounding area. ▪ There have been no emergencies. ▪ People can gain access to NWPGCL through a designated person who oversees dealing with community health and safety issues. 	<ul style="list-style-type: none"> ▪ All potential risks have been considered thus no revision is required.

Sl. No.	Stakeholder Name	Designation/Location	Activity	Comments/Recommendation
9.	Local Community	Boroshimul-Ponchosona Village	<ul style="list-style-type: none"> People are aware of potential risks and emergencies in the surrounding area, but no emergencies have occurred. 	<ul style="list-style-type: none"> All potential risks have been considered thus no revision is required.

4.8.3 Community Consultation

Community Health, Safety, and Emergency Preparedness Program has been conducted on 30th September 2021 at Saidabad Union Parishad in Sirajganj Sadar Upazila under Sirajganj district with proper COVID-19 precaution and following management guidelines. The proceedings commenced at 11:00 AM. The program has been attended by a total of 53 people, which represent local people, day laborers, businessmen, students, teachers, senior citizens, and political leaders. The community has been made aware of the Community Health, Safety, and Emergency Preparedness related to the following issues;

- Flood
- Gas Pipeline leakage
- Oil Pipeline leakage
- Traffic accident
- Communicable and non-communicable diseases



FLOODS/বন্যা

Preparation



বন্যা হওয়ার পূর্বে করণীয়

- ❖ বন্যা সম্পর্কিত তথ্যের পূর্বাভাস জানা
- ❖ কোথায় যেতে হবে তা সম্পর্কে সুস্পষ্ট ধারণা রাখা
- ❖ বিকল্প পথ সম্পর্কে জানা এবং আলাদা হয়ে গেলে কোথায় গিয়ে মিলিত হবে পূর্বেই আলোচনা করা
- ❖ গুরুত্বপূর্ণ জিনিস ও গৃহপালিত পশু বিষয়ে পূর্বেই করণীয় সম্পর্কে আলোচনা করা
- ❖ বৈদ্যুতিক সংযোগ বিচ্ছিন্ন করা
- ❖ আকস্মিক বন্যার জন্য প্রস্তুত থাকা এবং প্রয়োজনে দ্রুত স্থান ত্যাগ করা


6



FLOODS/বন্যা

During A Flood

□ বন্যার সময় করণীয়

- ❖ স্থানীয় নির্দেশনা অনুযায়ী শুকনো পথ চলাচলের জন্য ব্যবহার করা
- ❖ ঘূর্ণয়মান পানির মধ্যে দিয়ে হেটে না যাওয়া এবং প্রয়োজনে লাঠি ব্যবহার করা
- ❖ বৈদ্যুতিক সুইচ বা সংযোগ তার ভিজা অবস্থায় স্পর্শ না করা
- ❖ বন্যার পানি পুরোপুরি সরে না যাওয়া পর্যন্ত নিরাপদ স্থানে থাকা
- ❖ আকস্মিক বন্যা হলে উঁচু স্থানে সরে যাওয়া এবং গৃহপালিত পশু ছেড়ে দেওয়া

DURING THE FLOOD



ELRC 7



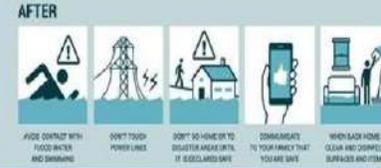
FLOODS/বন্যা

After A Flood

□ বন্যা পরবর্তী করণীয়

- ❖ সাপ ও ক্ষতিকর পোকামাকড় থেকে রক্ষা পেতে প্রয়োজনীয় ব্যবস্থা নেয়া
- ❖ বিশুদ্ধ পানি পান করা। সম্ভব হলে দশ মিনিট পানি ফুটিয়ে বা পানি বিশুদ্ধকরণ ট্যাবলেট ব্যবহার করা
- ❖ ঘরের ভেতর শুকানোর জন্য দরজা জানালা খুলে আলো বাতাসের ব্যবস্থা করা
- ❖ শিশুদের নিরাপদ খেলার জায়গা তৈরি করে বেড়া দেওয়া

AFTER



ELRC 8

 **GAS PIPELINE LEAKAGE/ গ্যাস পাইপলাইনের ছিদ্র**

Activities During Gas Leaking



- ❑ গ্যাস নিঃসরণের সময় করণীয়
 - ❖ গ্যাস নিঃসরণের স্থান ভাল করে পর্যবেক্ষণ করা
 - ❖ গ্যাস নিঃসরণের উপস্থিতি নিশ্চিতের জন্য পাইপ লাইন থেকে অস্বাভাবিক (যেমন হিসিং শব্দ বা কটু গন্ধ) হলে তা পর্যবেক্ষণ করা
 - ❖ গ্যাস নিঃসরণের উপস্থিতি নিশ্চিত হওয়া মাত্র স্থানটিকে খালি করতে হবে
 - ❖ সংশ্লিষ্ট কর্তৃপক্ষকে অবহিত করে পাইপ লাইনের সংযোগ বন্ধ করতে হবে

ELRC 10

 **GAS PIPELINE LEAKAGE/ গ্যাস পাইপলাইনের ছিদ্র**

Activities After Gas Leaking



- ❑ গ্যাস নিঃসরণে পরবর্তী করণীয়
 - ❖ নিঃসৃত গ্যাস পাইপ লাইন এলাকা থেকে দ্রুত লোকজনকে দূরে সরিয়ে নেয়া
 - ❖ কোন ধরনের আগুন বা দাহ্য পদার্থ পাইপ লাইনের সংস্পর্শে না রাখা

ELRC 11

 **OIL PIPELINE LEAKAGE/ তেল পাইপলাইনের ছিদ্র**

Activities During Oil Leaking



- ❑ তেলের পাইপলাইন ফুটোর সময় করণীয়
 - ❖ যতদ্রুত সম্ভব স্থান ত্যাগ করতে হবে
 - ❖ তেল জাতীয় পদার্থ ধরা, ছোঁয়া বা অপসারণ করা যাবে না
 - ❖ তেল যেন ছড়িয়ে না পড়ে সেদিকে খেয়াল রাখতে হবে

ELRC 12

 **OIL PIPELINE LEAKAGE/তেল পাইপলাইনের ছিদ্র**

Activities After Oil Leaking



- ❑ তেলের পাইপলাইন ফুটোর পরবর্তী করণীয়
 - ❖ স্থানটিকে বেটন করে দিতে হবে যাতে কেউ এর সংস্পর্শে না আসে
 - ❖ যতদ্রুত সম্ভব কন্ট্রোল রুমের সাথে যোগাযোগ করতে হবে
 - ❖ ফুটো হওয়া পাইপ লাইনের আশেপাশে কোন ধরনের দাহ্য পদার্থ থাকলে তা সরিয়ে ফেলতে হবে

 **TRAFFIC ACCIDENT/সড়ক দুর্ঘটনা**

Causes/কারণসমূহ

- অতিরিক্ত গতি
- ফোন ব্যবহার
- ঘুমাল
- অতিরিক্তবোঝা
- সিট বেল্ট ব্যবহারনা করা
- না দেখে রাস্তা পারাপার





TRAFFIC ACCIDENT/ সড়ক দুর্ঘটনা

Prevention/প্রতিরোধ

- সিট বেল্ট ব্যবহার করা
- ফোন ব্যবহার না করা
- গতি সিমীত রাখা
- রাস্তা পারাপারে সতর্ক থাকা



ELRC 15



TRAFFIC ACCIDENT/ সড়ক দুর্ঘটনা

During An Accident

- দুর্ঘটনার সময় করণীয়
 - ❖ দুর্ঘটনাকবলিত যানবাহন থেকে যাত্রীদের নিরাপদে সরিয়ে আনতে হবে
 - ❖ দুর্ঘটনাকবলিত স্থানে গাড়ি চলাচল সাময়িকভাবে বন্ধ রাখতে হবে
 - ❖ প্রাথমিক চিকিৎসা সেবা প্রদানকারী টিমের সাথে যোগাযোগ করতে হবে
 - ❖ দুর্ঘটনার মাত্রা বেশি হলে আহত ব্যক্তিদের স্থানীয় যানবাহনে করে চিকিৎসাকেন্দ্রে বা কোম্পানী কর্তৃক নির্ধারিত চিকিৎসাসেবা কেন্দ্রে নিতে হবে
 - ❖ নিকটস্থ থানায় দ্রুত যোগাযোগ করতে হবে



ELRC 16



TRAFFIC ACCIDENT/ সড়ক দুর্ঘটনা

After An Accident

- দুর্ঘটনা পরবর্তী করণীয়
 - ❖ আহত ব্যক্তিদের যতদ্রুত সম্ভব নিকটস্থ স্বাস্থ্যকেন্দ্রে নিয়ে প্রাথমিক চিকিৎসা দিতে হবে
 - ❖ দুর্ঘটনাকবলিত এলাকা নিরাপদ ফিতা দিয়ে বেষ্টিত করতে হবে
 - ❖ দুর্ঘটনা সংক্রান্ত তথ্য সংগ্রহ করতে হবে



ELRC 17



COMMUNICABLE DISEASES/ সংক্রামক রোগ

সংক্রামক রোগ সংক্রামক এজেন্টগুলির (যেমন ভাইরাস, ব্যাকটেরিয়া, ফাংগাস, ইনফেকশন) দ্বারা সৃষ্ট হয় যা সংক্রামিত ব্যক্তি, প্রাণী বা পরিবেশের উৎস থেকে অন্য মানুষের কাছে প্রেরণ করা যেতে পারে।

সংক্রামিত রোগসমূহঃ

- ◆ যক্ষা
- ◆ হেপাটাইটিস
- ◆ ম্যালেরিয়া
- ◆ কলেরা
- ◆ ইনফ্লুয়েন্সা
- ◆ এইচআইভি/এইডস




19



COMMUNICABLE DISEASES/ সংক্রামক রোগ



Prevention/প্রতিরোধ





পরিষ্কার - পরিষ্কার থাকুক

টিকা দেওয়া

স্বাস্থ্যকর খাদ্য


19

NON-COMMUNICABLE DISEASES/অসংক্রামক রোগ

এমন রোগ যা ব্যক্তি থেকে ব্যক্তির কাছে প্রেরণ করা যায় না - এতে কার্ডিওভাস্কুলার রোগ (যেমন হাট অ্যাটাক এবং স্ট্রোক), ক্যান্সার, দীর্ঘস্থায়ী শ্বাসযন্ত্রের রোগ (যেমন দীর্ঘস্থায়ী প্রতিরোধী ফুসফুসের রোগ এবং হাঁপানি) এবং ডায়াবেটিস অন্তর্ভুক্ত।

বুকের কারণসমূহ:

- ❖ ধূমপান
- ❖ উচ্চ রক্তচাপ
- ❖ স্থূলতা
- ❖ মানসিক দুশ্চিন্তা
- ❖ শারীরিক পরিশ্রম না করা

Non-Communicable Diseases account for 71% of all deaths globally

The 4 major categories of non-communicable diseases



Cardiovascular Diseases, Diabetes, Chronic Respiratory Diseases, Cancer

ELRC

20

NON-COMMUNICABLE DISEASES/অসংক্রামক রোগ

Prevention/ প্রতিরোধ

NO SMOKING



ধূমপানমুক্ত থাকুন
শারীরিক ব্যায়ামকরুন
নিয়মিত চেকআপ করুন

ELRC

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4.8.3.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Local Residence/Community
Consulted By	Md. Abdur Rahman
Designation/Position	Consultant, ELRC
Date	30.09.2021
Time	11:00 AM

4.8.3.2 Photographs





Photo 4-8: Public Consultation Meeting (PCM) with Local Community

4.9 EMF Awareness Training

An EMF Awareness training has been conducted on 03rd October 2021 at conference room of Sirajganj 225 MW Combined Cycle Power Plant (Unit 2 & 3), Saidabad, Sadar, Sirajganj with proper precaution of COVID-19 pandemic. The proceedings commenced at 03:30 PM. The training has been attended by a total of 10 people, which represent officers, staffs and workers of NWPGL and ELRC personnel. The presented personnel have been trained on EMF phenomenon, precaution, reduction and other safety issues. The details of the training session have been presented below.

4.9.1 Training Details

Target Audience	Officers, Staffs and Workers of NWPGL
Trainer	Md. Abdur Rahman
Designation/Position	Consultant, ELRC
Date	03.10.2021
Time	03:30 PM

4.9.2 Photographs

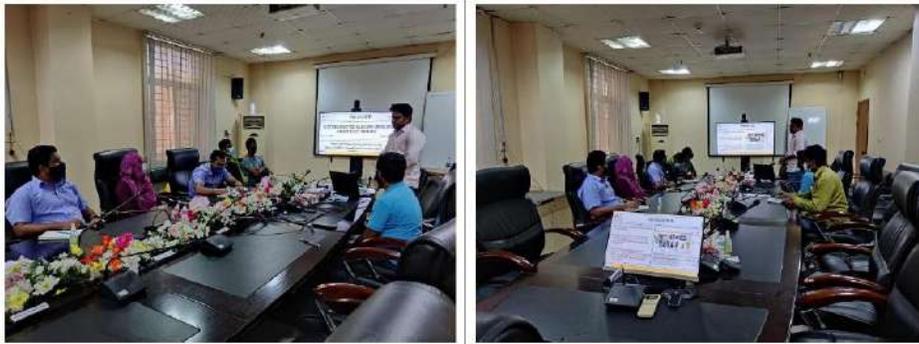




Photo 4-9: EMF Awareness Training with NWPGL

5 CHAPTER 5: CONCLUSION

The project operation is the major concern for the proponent to establish a fully functioning power plant. Before the operation activity, a management plan had been submitted. Before the activity, different responses had been observed but during the operation activity and according to the interview session, a positive response is achieved. The local people in the interview look happy about the project and also have no objection to the operation of the power plant activity. Besides, this interview is so effective on future stakeholder engagement. Different professionals are participated in the interview and showed their positive responses on the whole agenda as well as operation activity.

All of the impacted stakeholders are considered for this interview session including the local healthcare unit, family welfare, agriculture office, fisheries department, fishing community, agricultural community, and local people. All of them are well responded and well behaved. All of the stakeholders are commented about the operation as positive view and they demand just to continue the activities with considering the adverse impacts. A training has also been conducted on electromagnetic field exposure and the personnel of NWPGL trained on it with precaution, prevention and reduction.

The proponent is recommended to properly maintain the stakeholder engagement following the stakeholder engagement plan regularly.

Public Consultation Meeting
Community Health, Safety and Emergency Preparedness Program 2021
 Sirajganj 225 MW Combined Cycle Power Plant (Dual Fuel), Saidabad, Sadar, Sirajganj
Organized By: North-West Power Generation Company Limited (NWPGL)
 Supported By: Environmental Laboratory and Research Center (ELRC)

Date: 09:09:2024 Time: 11:00AM. Location: Saidabad Union Parishad Auditorium.

SN#	Participant Name	Profession	Address	Mobile No.	Signature
1.	শ্রী: রতন	কৃষক	সাইদাবাদ	০১৭০৪৬	৬৫২৬৪
2.	সুখান্তি বসু	"	"	০১৩৭০৭৪৫২১	
3.	হুমায়ূন	"	"		
4.	সাবিন বেগম	"	"	০১৭৭২৬০২২৩	
5.	আব্দুল হক	কৃষক	"	০১৭২৭৪৩৫২৭১	
6.	সাবিত্রী	কৃষক	"	০১৭৮৬৭২৫৪৬৫	
7.	শ্রী: রতন	কৃষক	"	০১৭২৬০৭২৬২০	
8.	শ্রী: রতন	কৃষক	"	০১৭৪৬৫৭১৪১৬	
9.	আবু জিদ্দিক	"	"	০১৭৬৫২০০	৭০৫
10.	শ্রী: রতন	"	"	০১৭২৮	৭০৫৭৫২
11.	শ্রী: রতন	"	সাইদাবাদ	০১৬০৫২৬	৬৬২৬
12.	শ্রী: রতন	কৃষক	"	০১৭৬৫৪৬৬৬৬৭	
13.	শ্রী: রতন	-	"	০১৭৬৭০৬২২২৬	
14.	শ্রী: রতন	-	"	০১৭৪৫০৪৬০৭৫	
15.	শ্রী: রতন	কৃষক	"	০১৭৬৪০২২৬৫৬	

Public Consultation Meeting
Community Health, Safety and Emergency Preparedness Program 2021
 Sirajganj 225 MW Combined Cycle Power Plant (Dual Fuel), Saidabad, Sadar, Sirajganj
Organized By: North-West Power Generation Company Limited (NWPGL)
 Supported By: Environmental Laboratory and Research Center (ELRC)

Date: ১০.০৯.২০২১ Time: ১১:০০ AM Location: Saidabad U.T. Auditorium.....

SN#	Participant Name	Profession	Address	Mobile No.	Signature
16.	মোহাম্মদ সোমদাস	স্বাস্থ্য কর্মী	সাইদাবাদ	০১৭৬৭৪৬৪৪২০	
17.	সোমদাস	কৃষক	"	০১৭৪৬৭৩৩৬৩০	
18.	সোমদাস	কৃষক	"	০১৭৬৪৬৭৪৩০	
19.	সোমদাস	-	"	০১৭৭২৬০৬৬৩০	
20.	সোমদাস	স্বাস্থ্য কর্মী	সাইদাবাদ	০১৭০৭৬০০২০০	
21.	সোমদাস	কৃষক	"	-	-
22.	সোমদাস	"	"	০১৭৭১৩৩১৫৩	
23.	সোমদাস	"	"		
24.	সোমদাস	"	"	০১৭৪০৫৬৭৫৩৬	
25.	সোমদাস	"	-	-	-
26.	সোমদাস	"	-	-	-
27.	সোমদাস	"	-	০১৭৫১৭১৩৪৫৬	
28.	সোমদাস	"	-	০১৭২৪৬২৬২০২	
29.	সোমদাস	"	সাইদাবাদ	০১৭৫০৩১৬৭৭	
30.	সোমদাস	"	"	০১৭৫৪০৩৭৬০৭	

Public Consultation Meeting
Community Health, Safety and Emergency Preparedness Program 2021
 Sirajganj 225 MW Combined Cycle Power Plant (Dual Fuel), Saidabad, Sadar, Sirajganj
Organized By: North-West Power Generation Company Limited (NWPGL)
 Supported By: Environmental Laboratory and Research Center (ELRC)

Date: 01.09.2021; Time: 11:00 AM Location: Saidabad, U.P. Auditorium

SN#	Participant Name	Profession	Address	Mobile No.	Signature
31.	ডাঃ সুলতান	ডাক্তার	সাইদাবাদ	01753682318	
32.	শ্রী রাম	"	সাইদাবাদ	01733055775	
33.	আব্দুল হক	স্বাস্থ্য কর্মী	সাইদাবাদ	01706176475	
34.	আব্দুল হক	"	"	01745299791	
35.	সুলতান	কিলাফত	"	0753325290	
36.	সুলতান	ডাক্তার	"	01729104115	
37.	সুলতান	"	"	01792497493	
38.	সুলতান	"	"	01753801712	
39.	আব্দুল হক	স্বাস্থ্য	"	-	-
40.	সুলতান	-	সাইদাবাদ	-	-
41.	সুলতান	-	"	01716720563	
42.	সুলতান	-	"		
43.	সুলতান	-	"	01821352153	
44.	সুলতান	-	"	-	-
45.	সুলতান	-	"	-	-

Public Consultation Meeting
Community Health, Safety and Emergency Preparedness Program 2021
 Sirajganj 225 MW Combined Cycle Power Plant (Dual Fuel), Saidabad, Sadar, Sirajganj
Organized By: North-West Power Generation Company Limited (NWPGL)
 Supported By: Environmental Laboratory and Research Center (ELRC)

Date: 30/09/2021 Time: 11:00 Location: Saidabad O.P Auditorium

SN#	Participant Name	Profession	Address	Mobile No.	Signature
46.	আবুল	-	-	0172022222	
47.	আবুল	-	-	-	-
48.	আবুল	"	সাইদাবাদ	-	-
49.	আবুল	"	"	01713257325	
50.	আবুল	"	"	-	
51.	আবুল	"	সাইদাবাদ	01725392531	
52.	আবুল	-	"	-	-
53.	আবুল	-	"	0292856007	
54.					
55.					
56.					
57.					
58.					
59.					
60.					

Electromagnetic Field (EMF) Exposure Awareness Training

North-West Power Generation Company Limited

Sirajganj 225 MW Combined Cycle Power Plant (Unit 2 and 3)

Date: 03.10.2021

Time: 03:30 PM

Location: Conference Room, Unit 2 & 3, NWPGL

Organizer: ELRC, Badda, Dhaka

Participant Details:

SN#	Participant Name	Profession	Address	Mobile No.	Signature
1.	Mashioor Mahmud Khan	AM (EHS)	Sirajganj Power Station, NWPGL	0170815 2295	<i>Kamruddin</i> 03.10.21
2.	Romana Sultana	JAM (EHS)	Sirajganj Power Station, NWPGL	01686051963	<i>Romana</i> 03.10.2021
3.	Md. Shirazul Islam	SAE (EMD)	u	01727161850	<i>Shirazul</i> 03.10.21
4.	মোঃ মোস্তাফিজুর রহমান	রেলকার	u	01745225110	3.10.21
5.	মাসুম রশিদ	W/A	u	01760823713	3.10.21
6.	M. RAHIM UDDIN CHHOOR DILORU	Electrician	Sirajganj NWPGL	01918256980	3.10.21
7.	Md. Atiqul Hossain	Electrician	u	01912-842368	3.10.21
8.	ফজলুল হোসেন	ELRC	Dhaka	01728148077	<i>Fazlul</i> 27
9.	MD: Abul Bab	ELRC	Dhaka	01714333491	<i>Abul Bab</i>
10.	MD. Shihon	Electric	u	01719534383	<i>Shihon</i>
11.					
12.					
13.					
14.					

ANNEX-C: Community Development Programme



North-West Power Generation Company Ltd. (NWPGL)
Sirajganj Power Station
Soydabad, Sirajganj

Community Development Programme

Date: 12.04.2021

Title	High Flow Nasal Cannula handover to provide medical services to the people affected by Covid-19
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj
Time	05.30 AM-06.30 PM
Venue	Divisional Commissioner Office, Rajshahi
Participants	Employees of Divisional Commissioner Office and Sirajganj Power Station. Honorable Secretary of Power Department Mr. Md. Habibur Rahman and Chief Executive Officer (CEO) of North-West Power Generation Company Ltd. A.M. Khurshedul Alam was also present through video conference.
No. of Nasal Cannula	05 (Five) High Flow Nasal Cannula

Pictorial Evidence





North-West Power Generation Company Ltd. (NWPGL)
Sirajganj Power Station
Soydabad, Sirajganj

Community Development Programme

Date: 15.04.2021

Title	Handover of Oxygen Concentrator to provide medical services to the people affected by Covid-19
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj
Time	12.00 AM-01.00 PM
Venue	Office of Deputy Commissioner, Sirajganj District
Participants	Employees of Office of Deputy Commissioner and Sirajganj Power Station.
No. of Oxygen Concentrator	05 (Five) Oxygen Concentrator

Pictorial Evidence





North-West Power Generation Company Ltd. (NWPGL)
Sirajganj Power Station
Soydabad, Sirajganj

Community Development Programme

Date: 30.05.2021

Title	Cheque handover to the Superintendent of Police, Sirajganj for implementation of security measures with closed circuit cameras in all important areas of Sirajganj Municipality.
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj
Time	5.00PM-06.00 PM
Venue	Office of Superintendent of Police, Sirajganj Sadar.
Participants	Employees of Office of Superintendent of Police and Sirajganj Power Station
Monetary Amount	BDT 5,00,000 (Five Lakh Taka Only)

Pictorial Evidence







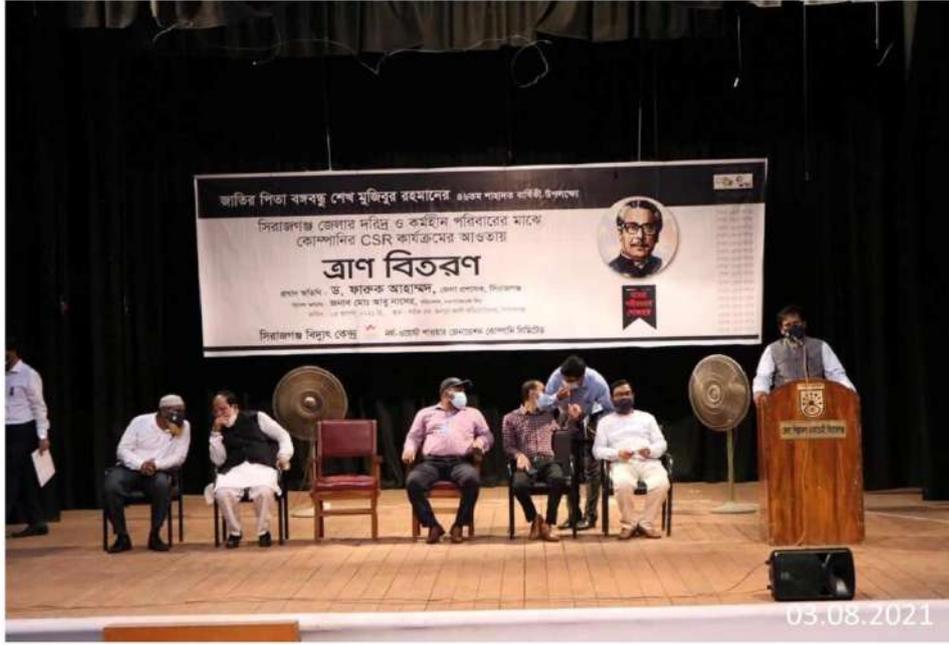
North-West Power Generation Company Ltd. (NWPGL)
Sirajganj Power Station
Soydabad, Sirajganj

Community Development Programme

Date: 03.08.2021

Title	Distribution of relief among destitute and helpless families of Sirajganj.
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj
Time	10.00 AM-06.00 PM
Venue	Office of Deputy Commissioner, Sirajganj.
Participants	Employees of Office of Deputy Commissioner and Sirajganj Power Station. Mr. Abu Naser, Director of NWPGL was also present as special guest.
No of Bags	1000 (One Thousand) Bags
Each bag contains:	<ol style="list-style-type: none">1. 12 kg rice2. 2.5 kg pulse3. 1-liter soyabean oil4. 3 kg potato5. 2 kg salt6. 1 kg onion7. 1 piece soap

Pictorial Evidence









North-West Power Generation Company Ltd. (NWPGL)
Sirajganj Power Station
Soydabad, Sirajganj

Community Development Programme

Date: 14.08.2021& 15.08.2021

Title	Distribution of relief among unemployed and helpless families of Sirajganj.
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj
Time	10:00 AM-06.00 PM
Venue	Office of Deputy Commissioner, Sirajganj.
Participants	Employees of Office of Deputy Commissioner, Sirajganj and Sirajganj Power Station.
No of bags	2000 (Two Thousand) bags
Each bag contains:	<ol style="list-style-type: none">1. 12 kg rice2. 2.5 kg pulse3. 1 liter soyabean oil4. 3 kg potato5. 2 kg salt6. 1 kg onion7. 2 pieces of soap8. 5 pieces of mask

Pictorial Evidence











North-West Power Generation Company Ltd. (NWPGL)
Sirajganj Power Station
Soydabad, Sirajganj

Community Development Programme

Date: 24.08.2021

Title	Cheque handover to Bangladesh Scouts Sirajganj District for renovating the Sirajganj District Scouts Building and constructing an auditorium.
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj.
Time	11.00 AM-12.00 PM
Venue	Office of Bangladesh Scouts Sirajganj District.
Participants	Employees of Bangladesh Scouts Sirajganj District and Sirajganj Power Station.
Monetary Amount	BDT 5,00,000 (Five Lakh Taka Only)

Pictorial Evidence





ANNEX-D: Scan Copy of GRM Book

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

SL. No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline /Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress
					<i>No grievance is found</i> <i>23/02/2021</i> <i>(Signature)</i>				

Grievance Register_SPS_001 9

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

Sl. No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline / Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress
					<i>No grievance is found</i> <i>27/03/2021</i> <i>Admin</i>				

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

SL No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline /Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress
					<i>No grievance is found</i>				

No grievance is found
28/04/2022
Aulamin

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

Sl. No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline / Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress

*No grievance is found
20/05/2021
Aulhanni*

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

Sl No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline /Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress

No grievance is found
 27/06/2023
 Aulhanain

NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER

Sl. No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline / Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress
<p><i>No grievance is found</i> <i>28/07/2021</i> <i>Ashwini</i></p>									

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

Sl. No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline / Mobile	Whether acknowledgment given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress
					<i>No grievance is found.</i> <i>[Signature]</i> <i>28/08/2021</i>				

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

Sl. No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline / Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress
					<i>No grievance is found.</i> <i>[Signature]</i> <i>23/09/2021</i>				

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

Sl. No.	Date of Receipt	Particulars of Complaint			Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Particulars of Grievance	
		Name	Address	Landline /Mobile				Brief Description	Date of Acknowledgment/Address
					<p>No grievance is found</p> <p><i>[Signature]</i> 30/10/2021</p>				

**NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER**

SL No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline / Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress
					No grievance is found				

(Signature)
27/11/2021

NORTH-WEST POWER GENERATION COMPANY LIMITED
SIRAJGANJ POWER STATION (UNIT-1, 2 & 3)
GRIEVANCE REGISTER

SL No.	Date of Receipt	Particulars of Complaint				Particulars of Grievance			
		Name	Address	Landline /Mobile	Whether acknowledgement given at the time of receipt	Subject of the Grievance	Office	Brief Description	Date of Acknowledgement/redress
					<i>No grievance is found.</i> <i>[Signature]</i> <i>30/12/2021</i>				

ANNEX-E: Updated Fire License

ক্রমিক নং	অনিবেশ ০০৩
	প্রথম সংস্করণ ২০১২


ফায়ার লাইসেন্স

লাইসেন্স নম্বর: **১৫৫ - ১৭৭ - ০৭২৪ - ২০২৭ - ২০২৮**

এতদ্বারা অগ্নি প্রতিরোধ ও নির্বাণ আইন ২০০৩ এর ৪ ধারা অনুযায়ী এবং উল্লেখিত শর্তাবলী সাপেক্ষে ফায়ার লাইসেন্স ইস্যু করা হইল।

১। মালগুদাম/কারখানার মালিক/ব্যবহারকারী/কর্তৃপক্ষের নাম, পদবী ও ঠিকানা :

প্রতিষ্ঠানের নাম : সিরাজগঞ্জ-২২মেগাওয়াট কন্সট্রাক্ট সাইকেল বিদ্যুৎ কেন্দ্র(১ম, ২য় ও ৩য় ইউনিট)

মালিকের নাম : প্রান্ত ম্যানেজার (প্রধান প্রকৌশলী) গ্রামঃ বড় শিমুল, সয়দাবাদ

ঢাকা রোড, সদর, সিরাজগঞ্জ।

ফোন : ফ্যাক্স : ই-মেইল :

২। মালগুদাম/কারখানার অবস্থান : (ক) প্লট নং/হোল্ডিং নং

(খ) দাগ নং (গ) খতিয়ান নং (ঘ) জে এল নং

(ঙ) মৌজা (চ) রোড নং (ছ) ডাকঘর

(জ) থানা (ঝ) উপজেলা সদর (ঞ) জেলা সিরাজগঞ্জ

৩। ভবনের ব্যবহার শ্রেণী :

৪। ভবনের নির্মাণ শ্রেণী ও পরিমাপ :

শ্রেণী-১	শ্রেণী-২	শ্রেণী-৩	দৈর্ঘ্য	প্রস্থ	উচ্চতা	মোট মেঝের ক্ষেত্রফল (বর্গ মিটার)

৫। দাহ্য বস্তুর নাম ও মজুদ পরিমাণ :

কাঠজাত দ্রব্য

৬। ব্যবসার ধরন :

বিদ্যুৎ উৎপাদন কেন্দ্র

৭। অগ্নি ঝুঁকির মাত্রা : (ক) হালকা-১ (খ) হালকা-২ (গ) সাধারণ-১ (ঘ) সাধারণ-২ (ঙ) সাধারণ-৩ (চ) অতিমাত্রা

৮। অগ্নি ঝুঁকির শ্রেণীবিন্যাস (মোট ফ্লোর এরিয়ার আনুপাত ভিত্তিতে) : A.....%, B.....%, C.....%,
D.....%, K.....%

প্রতিষ্ঠানের জন্য ০১/০৭/২০১৭ খ্রিঃ হইতে ৩০/০৬/২০১৮ খ্রিঃ পর্যন্ত বার্ষিক লাইসেন্স মাসুল = ১৫৫২/- টাকা নির্ধারণ করা হইল এবং ০৩/০৫/২০১৮ খ্রিঃ হইতে ৩০/০৬/২০১৮ খ্রিঃ পর্যন্ত মোট = ১৫৫২/- টাকা লাইসেন্স মাসুল বাবদ পাওয়া গেল।

উপ-পরিচালক/সহকারী পরিচালক/উপ-সহকারী পরিচালক
ফায়ার সার্ভিস ও সিভিল ডিফেন্স

১১/০৬/০৭/১৮
(মোঃ নূরুল ইসলাম)

উপ-পরিচালক
ফায়ার সার্ভিস ও সিভিল ডিফেন্স
রাজশাহী বিভাগ, রাজশাহী।

লাইসেন্সের শর্তাবলী

- (১) প্রতি বছর ৩০ জুনের মধ্যে এই লাইসেন্সের অনুকূলে মাসুলের টাকা অগ্রিম লাইসেন্স ফি হিসাবে পরিশোধ করিতে হইবে।
- (২) এই লাইসেন্স হস্তান্তরযোগ্য নহে এবং কেবলমাত্র ক্রমিক ২ এ উল্লেখিত অবস্থানের জন্যই প্রযোজ্য হইবে।
- (৩) লাইসেন্সের শর্তাবলী যথাযথভাবে পালিত হইতেছে কিনা তাহা যাচাই করার জন্য অধিদপ্তরের ক্ষমতাপ্রাপ্ত কর্মকর্তা যে কোন কার্য দিবসে গুদাম বা কারখানা পরিদর্শন করিতে পারিবেন এবং পরিদর্শনকালে সংশ্লিষ্ট কর্তৃপক্ষ ইস্যুকৃত ফায়ার লাইসেন্সটি প্রদর্শন করিতে বাধ্য থাকিবেন।
- (৪) সার্বিক অগ্নি নিরাপত্তা ব্যবস্থা বাংলাদেশ ন্যাশনাল বিল্ডিং কোড ও অগ্নি প্রতিরোধ ও নির্বাপন আইন ২০০৩ এবং সংশ্লিষ্ট বিধির ভিত্তিতে নিশ্চিত করিতে হইবে।
- (৫) অগ্নি প্রতিরোধ ও নির্বাপন আইন ২০০৩ মোতাবেক লাইসেন্সের শর্ত ভঙ্গ করিলে শাস্তিযোগ্য অপরাধ হিসাবে গণ্য হইবে।

ANNEX–F: First Aid Training



North-West Power Generation Company Ltd. (NWPGCL)
Sirajganj 225 MW Combined Cycle Power Plant (Dual Fuel-2nd Unit)
Soydabad, Sirajganj

Training on First Aid

Date: 18.09.2021

Trainer	Dr. Md. GolamKibria
Time	02:00-05:10 PM
Venue	Zoom Meeting
Participants	All employee of Sirajganj Power Station
Training Session	<ol style="list-style-type: none">i. Discussion on First aid and importanceii. Use of First aid Kitiii. Question & Answer
Discussion issue	<ol style="list-style-type: none">1. Definition of first aid2. Emergency needs3. Incident in power plant4. First aid after attack<ol style="list-style-type: none">i. Unconsciousnessii. Heat strokeiii. Burnsiv. Wounds, Cut injury, Accident Injuryv. Electric Shockvi. Snake bite/Dog bite/Insects bitevii. Chemicals burn of eyeviii. Fracture5. First aid Items on First Aid Kits6. Use of First aid items

Attachment:

Attendance Sheet

Attendance Sheet

 NORTH-WEST POWER GENERATION COMPANY LIMITED	NORTH-WEST POWER GENERATION COMPANY LIMITED Training Attendance Sheet	FORM NO: NW-DH-HR-F-005 EFFECTIVE DATE: 21.04.2018 REVISION NO: 00
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Location: Sirajganj Power Station

Organizer Department	: HR
Course Name and ID	: Primary Management of Incident/Accident (First Aid)
Date	: 18/09/2021
Duration	: 02:00 pm to 05:10 pm
Total Man Hour	:
Facilitator	: জনাব ডা. গোলাম কিবরিয়া, সিনিয়র মেডিকেল অফিসার (ভারপ্রাপ্ত)

Office: Sirajganj 225 MW Combined Cycle Power Plant (Unit-02)

Sl. No.	Name of the Participants	Designation and Department/Office	Participant's Signature
1.	Md. Shamsur Rahman	XEN (OPA.)	S. Rahman
2.	Muhammed Arifur Rahman	Xen (IGC)	Arifur
3.	Md. Habibul Rahman	XEN (MMD)	Habib
4.	Md. Feroz	AM Admin	Feroz
5.	Md. Razibul Islam	SDE (IEC)	Razibul
6.	Indrojit. Kr. Ch.	SDE (MMD)	Indrojit
7.	Nasim Ismail Royen	JAM (Admin)	Nasim
8.	Haridas Saha	SDE	Haridas
9.	Mohammad Arifur Rahman	O/A	Arifur
10.	Md Naved Sarkar	SAE	Naved
11.	Fayhan Pervez Ahmed	AE (EMD)	Fayhan
12.	Md. Shariful Islam	SAE (MMD)	Shariful
13.	Fayhan Ahmed	SDE (MMD)	Fayhan
14.	Md. Siddik Hossen	W/A	Siddik
15.	MD. NAHID HASAN	W/A (EMD)	Nahid
16.	PERZ PERVEZ	O.S.S	Pervez
17.	Masrur Rahman	Cooperator	Masrur
18.	Abdur Rahim	Welder	Abdur
19.	MD. NUKUL	F: A	Nukul
20.	Md Sabbar Hossen	W/A	Sabbar
21.	Md. Sabbar Rahman	Machinist	Sabbar
22.	Md. Md. Abdul Awal	Att. WTP-2	Abdul
23.	ABDUL RADER MERAZ	Instrument mechanic	Abdul
24.	Rafiqul Islam		Rafiqul

Signature of facilitator: 
 Date: 18.09.2021

ANNEX-G: Greenhouse Gas Emissions

Green House gas Emission Report for Operational Phase of Sirajganj 225 MW CCPP (Duel Fuel- 2nd Unit)

[01 January-2021 to 31 December-2021]

The Kyoto Protocol – United Nations Framework Convention on Climate Change nominates the following GHGs:

- Carbon dioxide (CO₂);
- Methane (CH₄);
- Nitrous Oxide (N₂O);
- Hydro fluorocarbons (HFCs); and
- Per fluorocarbons (PFCs).

Inventories of GHG emissions can be calculated using published emission factors. Different gases have different greenhouse warming effects (referred to as warming potentials) and emission factors take into account the global warming potentials of the gases created during combustion. Typically, greenhouse gas emissions are reported in units of carbon dioxide equivalent (CO₂e). Gases are converted to CO₂e by multiplying by the gas global warming potential (GWP). The GWP of gases are as follows²:

- GWP for CO₂ = 1
- GWP for CH₄ = 21
- GWP for N₂O = 310

When the global warming potentials are applied to the estimated emissions then the resulting estimate is referred in terms of CO₂-equivalent (CO₂e) emissions.

²Source: Intergovernmental Panel on Climate Change (IPCC) (1995), Second Assessment Report

The combustion of natural gas produces GHGs. The amount of GHGs emitted by a power plant is a measure of its contribution to global warming and can be estimated based on fuel consumption. In order to estimate GHG emissions, the IFC recommended Carbon Emission Estimation Tool (CEET model – Version February 2014)³ has been used as set out below.

Data from 01 January-2021 to 31 December-2021:

1. Net Heat rate: Gas: 8264.61 kJ/kWh (considering HHV)
2. HSD: N/A for this reporting period
3. Gross Generation: 228500 KW (for Gas and HSD)
4. Operating Days: 283.09 days (for Gas), 0 days (for HSD)
5. Daily Operating hour: 24 hrs (As per NLDC demand)
6. Power Produced: 1185.03 GWh

Estimated GHG Emissions: (In Natural Gas)

SL#	Particular	Value	Unit
A*	Net Heat Rate (Natural Gas in Combined Cycle)	8264.61	KJ/KWH
B*	Gross Generation Capacity (Combined Cycle)	228500.00	KW
C	Operating Days per year	283.09	days
D	Daily Operating Hours	24	Hours/day
E	Total Annual Output (B X C X D)	1,552,465,560.00	KWH
F	Annual Fuel Consumption (= E x A)	12,830,522,391,832	KJ
		12831	TJ
G*	Annual GHG Emission	731994	tCO ₂ e/year

In this reporting period HSD is not used. So, from January 2021 to December 2021, the annual emission of GHG from Unit 2 is about 731994 tCO₂/year.

³http://www.ifc.org/wps/wcm/connect/Topics_Ext_Content/IFC_External_Corporate_Site/CB_Home/Measuring+Reporting/

ANNEX-H: Updated ESAP & CS

S. No.	Elements	Gaps	Recommendation	Timeline	Deliverables	Frequency	Responsibility	Status upto Feb 2018	Status upto Jan 2019	Status upto Jan, 2020	Status upto Jan 2021	Status upto Jan 2022
1	Environment and Social Management System (ESMS) and Policy	A formal EHS and Social policy at company level and dedicated ESMS for the Sirajganj complex has not been formulated by NWPGL.	(a) Formulate a company level Environment, Health & Safety and Social policy statement duly endorsed by senior management of NWPGL and communicated.	CP to first utilization	EHSS Policy by senior management	One time	NWPGL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(b) Submission of annual compliance certificate	Continuous Monitoring	Annual Compliance Certificate	Annual	NWPGL Management	Submitted to SCB on February 2017 & November 2017	Continuous ANNEX J	Annex J	Annex J	Annex J
			(c) Develop an Environment and Social Management System for whole site (considering operational Unit 1, proposed Unit 2 and other Planned Units). This should also include Stakeholder engagement plan, supply chain and grievance redress procedure. ESMS should also have elements pertaining to human resources management for direct and indirect employees for the project life cycle.	CP to first utilization	ESMS with all the procedures to the satisfaction of E&S Advisor of the investor (s)	One time	NWPGL Management/ Consultant appointed by NWPGL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(d) Legal Register to be developed for the entire Sirajganj Complex (as part of ESMS)	CP to first utilization	Legal Register is a part of the ESMS being developed	One time	NWPGL Management/ Consultant appointed by NWPGL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(d) Organisation structure to include deployment of dedicated EHS and Social officer during the construction and operation phase. The compliance requirements to HR policies and procedures to be part of contract documents of contractor including compliance with accommodation standards.	CP to first utilization	Organogram for EHS & Social Management before contract sign with formal consent of EPC Contractor	One time	NWPGL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(e) Procedure for monitoring, review and reporting to be developed.	CP to first utilization	Procedure development Implementation is continuous	Monthly Internal Audits	NWPGL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(f) GHG emissions disclosure	Continuous Monitoring	Report GHG emissions from the facility	Annual	NWPGL Management	NWPGL declare possible GHG emission during operational phase in ESIA report.	Submitted in AMR (Jan 2019) and ANNEX G	Submitted in AMR (Jan 2020) and ANNEX G	Submitted in AMR(Jan, 2021) & Annex G	Submitted in AMR(Jan, 2022) & Annex G
			(g) Engage a suitably qualified independent consultant to help develop and implement the ESMS.	CP to first utilization	Appointment letter of consultant	One time	NWPGL Management	It has already been done before Financial Closing	Done	Done	Done	Done

2	Identification of Risks and Impacts	ESIA Report needs to be updated to incorporate the following elements - HAZOP for plant equipments and utilities - Job Safety Analysis and Risk assessment - Social Baseline information - Updation of baseline and impacts of Jetty on Jamuna Eco Park	(a) Obtain prior permission from the Bangladesh Bridge authority before starting any up gradation works of Jetty.	CS	Before jetty upgradation	One time	NWPGCL Management	Done at August 2016 and document has been shared with SCB	Done	Done	Done	Done
			(b) The baseline conditions updation for of the Jamuna Eco Park, social baseline with land use map of the project site covering 5 km around the site.	CP prior to first utilization	Updated ESIA Report	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(c) HAZOP for plant equipment and utilities to be included	CP prior to first utilization	HAZOP - will be a part of updated ESIA	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(d) Job Safety Analysis and Risk assessment procedure to be included	CP to first utilization	JSA/HIRA for plant to be covered in the updated ESIA	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(e) ESIA to include air quality dispersion modelling and water balance (considering emissions from Sirajganj 1 and 2)	CP prior to first utilization	Updated ESIA Report	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(f) ESIA to include Environmental Management Plans for construction and operations phase including the following - - Traffic Safety Management Plan - Security Policy - Construction Labour Management Plan - Stakeholder Engagement Plan	CP prior to first utilization	Updated ESIA Report	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(g) Environment and Social Management Plan to be developed based on the risks and impacts for Jetty upgradation	CS	Develop ESMP for within 60 days before Jetty upgradation	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has been done and report has been shared in June 2016 with SCB	Done	Done	Done	Done

3	Occupational Health and Safety	NWPGCL has not developed occupational health and safety procedures for construction and operation phase for compliance to legal requirements, IFC performance standards and World Bank EHS and Thermal Power Sector guidelines. Emergency response procedures has not been developed and implemented.	As part of the ESMS develop a comprehensive occupational health and safety procedures in line with applicable regulations and World Bank EHS Guidelines, for operation and construction phase of the project and ensure compliance.	CP to first utilization	Develop procedures in one month and implement throughout the project life cycle Emergency Preparedness to be developed as a part of the ESMS	One time	NWPGCL Management / Consultant appointed by NWPGCL Management	It has already been done before Financial Closing	Done	Done	Done	Done
4	Environment Management	Environment management procedures for the construction and operation phase have not been developed.	(a) Ensure Contractor formulate an intensive environment monitoring programme during construction and operation phase of the project comprising of frequency of monitoring permitting comparison with the General Worldbank/IFC Environmental, Health and Safety Guidelines und EHS Guidelines for Thermal Power Plants.	CP to first utilization	Develop Procedure and formally communicated and agreed by EPC contractor	One time	NWPGCL	It has already been done before Financial Closing	Done	Done	Done	Done
			(b) Install pollution control facilities during construction and operation phase of the project.	Continuous Monitoring	Implementation during construction and operation phase	Continuous	NWPGCL and Contractor	During Construction phase, all kind of EMP measurement has been taken	Done	Done	Done	Done
			(c) Environmental Monitoring Programme to be developed	CS - 60 days to first utilization	Development of environmental monitoring plan to the satisfaction of the E&S advisor of the investors	One time	NWPGCL and Contractor	CMC has been following Environmental Monitoring Plan as per ESIA report	Now NWPGCL has been following Environmental Monitoring Plan as per ESIA report (Operational Phase)	Now NWPGCL has been following Environmental Monitoring Plan as per ESIA report (Operational Phase)	Following Environmental Monitoring Plan as per ESIA report (Operational Phase)	Following Environmental Monitoring Plan as per ESIA report (Operational Phase)

			(d) Implementation of the programs developed	Continous Monitoring	Implementation during construction and operation phase	Continous	NWPGCL and Contractor	Shared with SCB continuously	AMR, Annual Public and Social Report has been shared with SCB	AMR, Annual Public and Social Report has been shared with SCB	AMR, Annual Public and Social Report has been shared with SCB	AMR, Annual Public and Social Report has been shared with SCB
			(e) Identify DoE approved vendors and starts initiate signing an agreement with them for disposal of oily sludge to the vendors.	CS -Within 60 days of first utilization	Contract with the vendors	One time	NWPGCL	Done and shared with SCB on February 2016	Done	Done	Done	Done
			(f) Inventorize hazardous materials to be used during construction and operation of the project.	CS -Within 60 days of first utilization	Inventorisation and risk assessment	One time	NWPGCL	Done and shared with SCB on December 2016	Done	Done	Done	Done
			(f) Adequate labels, secondary containment and spill response kit should be provided wherever the hazardous material (HAZMAT) is used and workers should be trained to respond to accidental spills and emergencies due to hazardous material.	CP to first utilization	Development of HAZMAT procedure as part of ESMS and implement	One time	NWPGCL	It has already been done before Financial Closing	Done	Done	Done	Done
5	Community Health and Safety	Studies for identification of community health and safety impacts, ensuring infrastructure design and safety and offsite emergency management has not been identified and implemented.	(a) Adequate studies for existing and proposed infrastructure, design and equipments should be undertaken by engaging a third party consultant should be undertaken.	CS - 60 days to first utilization	Infrastructure design and safety report by engaging third party	One time	NWPGCL Management		Done	Done	Done	Done
			(b) Offsite emergency preparedness plan should be developed.	CP to first utilization	Offsite Emergency preparedness and response plan to the satisfaction of Investor E&S Advisor	One time	NWPGCL Management	It has already been done before Financial Closing	Done	Done	Done	Done
			(c) Assist and collaborate with the potentially affected Communities (see Performance Standard 4) and the local government agencies in their preparations to respond effectively to emergency situations.	Continous Monitoring		Annual	NWPGCL Management	Done	Continuous ANNEX B	Annex B	Annex B	Annex B
			(d) Document emergency preparedness and response activities, resources, and responsibilities, and should provide appropriate information to potentially affected Community and relevant government agencies.	Continous Monitoring	Emergency preparedness and response Plan and its implementation to the satisfaction of Investor E&S Advisor	Continous	NWPGCL Management	Done	Continuous ANNEX B	Annex B	Annex B	Annex B

ANNEX-I: Development Effectiveness Indicators



Memo No. 27.28.0000.301.99.001.20.248

Date: 20/09/2021

Sirajganj 225 MW Combined Cycle Power Plant Project (2nd Unit-Dual Fuel)

Development Effectiveness Indicators

Section One: General Indicators

Key Impact Area	Result	Indicator	Status
Financial Performance	Return to all capital Providers	Financial rate of return	3.40% (From July, 2020 to June, 2021)
Economic Performance	Employment	Percentage of Female Employment (%)	Female Employee: 38 Percentage: 4.48% (Up to June, 2021)
	Employment	Temporary jobs during construction; permanent jobs	Total Employee: 848 Permanent Employee: 829 Temporary Employee: 19 (Up to June, 2021)
	Contribution to government	Taxes and Fees (US\$/year)	USD 10,557,473 (From July, 2020 to June, 2021)
Environmental and Social Performance	Improved E&S conditions	E&S Management Systems: (y/n)	Yes
Private Sector Development	Supports for domestic businesses	Purchases from domestic suppliers (US\$/year)	USD 124,101,439 (From July, 2020 to June, 2021)

Definitions

Taxes and Fees: All transfers to all levels of the government made by the Project Enterprise or its parent on its behalf, including: income or profit taxes, sales, and excise taxes, and VAT receipts. Other payments collected by the government include royalties, bonuses, dividends, management/concession fees, share of profit, licensing, permitting, etc. Specific subsidies to the Project Enterprise should be deducted.

E&S Management Systems: The indicator refers to the Project Enterprise's E&S Management System ("ESMS") and tracks whether the Project Enterprise is compliant with MIGA's Performance Standard 1 and has an ESMS active and in place.

Purchases from domestic suppliers: The annual purchase of goods and services of the Project Enterprise from local suppliers (including raw materials, civil works, engineering and installation, security, gardening, cleaning, and marketing and research from local companies). This will exclude utility bills, government-provided services and imports handled through a local facilitating agent.

Direct Employment: Total number of employees working directly for the Project Enterprise as of the end of its fiscal year. The unit of account is a permanent full-time equivalent paid job. To be treated as permanent, the job should have a life expectancy of at least one year at the time of forecast. Part-time jobs are converted to full-time equivalent jobs on a pro rata basis with anything over 30 hours/week treated as full time. If the information is not available the rule-of-thumb is two part-time jobs equal a full-time job. Seasonal jobs are incidental to the operation. However, if the Investment Project relies heavily on seasonal jobs, as in the tourism sector for example, they should be included on a pro rata basis, a 3-month job becoming 0.25 of a full-time equivalent job (i.e., 4 jobs for 3 months equals one job on an annual basis).

Female Employment: Total female employment as a percentage of total employees in the Project Enterprise. This is a sub category of employment and so definition of total direct employment as described above should be used in this calculation. Subcontractor employment should not be reported.

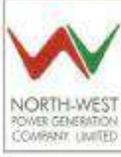
Section Two: Sector - Specific Indicators

Power Produced	1187.65 GWhs (July, 2020 to June, 2021)
Improved Occupational Health and Safety	No Injury
Minimize Green House Gas Emission	730,139 tCO ₂ equivalent (July, 2020 to June, 2021)
Water efficiency	(During operations 54,07,685 m ³ consumed/ unit of production for S2&S3) (July, 2020 to June, 2021)

Mashuda Parvin
20/09/2021
Mashuda Parvin
Manager (EHS)
NWPGL, Dhaka

Engr. Md. Saiful Islam
20/09/2021
Engr. Md. Saiful Islam
Chief Engineer
Planning and Design, Corporate Office
NWPGL, Dhaka

ANNEX-J: Compliance Certificate



“শেখ হাসিনার উদ্যোগ, ঘরে ঘরে বিদ্যুৎ”
নর্থ-ওয়েস্ট পাওয়ার জেনারেশন কোম্পানি লিমিটেড
NORTH-WEST POWER GENERATION COMPANY LIMITED
ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified
(An Enterprise of Bangladesh Power Development Board)
UTC Building (Level- 4), 8 Panthapath, Kawranbazar, Dhaka- 1215, Bangladesh
Phone: 9145291-92, 9145427-28 Fax : 9143745, e-mail : info@nwpgcd.gov.bd, web : www.nwpgcd.gov.bd



Memo No. 27.28.0000.300.99.001.21.018

Date: 18/01/2022

CERTIFICATE OF COMPLIANCE

To: Standard Chartered Bank- as Intercreditor Agent

From: North-West Power Generation Company Ltd- as Borrower

Dear Sirs,

North-West Power Generation Company Limited–Common Terms Agreement dated 27-October, 2015 (the "Common Terms Agreement")

1. We refer to the Common Terms Agreement. This is a Compliance Certificate. Terms defined in the Common Terms Agreement have the same meaning as used in the Compliance Certificate unless given a different meaning.
2. On the basis of Annual Environmental Audit, Environmental Health and Safety (EHS) condition has been improved. We confirm that EHS condition will be improved continuously in future.

Mashuda Parvin
18/01/2022
(Mashuda Parvin)

Manager (EHS), Corporate Office
North-West Power Generation Co. Ltd

Engr. Md. Saiful Islam
18/01/2022
(Engr. Md. Saiful Islam)

Chief Engineer
Planning & Design, Corporate Office
North-West Power Generation Co. Ltd