



Multilateral Investment Guarantee Agency

World Bank Group

ANNUAL MONITORING REPORT (AMR)

Sirajganj 2 CCPP
Bangladesh
Project #13171

REPORTING PERIOD: (Feb/2022) through (Jan/2023)

AMR COMPLETION DATE: (01/02/2023)

I. INTRODUCTION

MIGA's Economics and Sustainability Group (MIGES)

The Economics and Sustainability Group (MIGES) oversee M I I C ø u " e q w p v t { " c p f " r assessment; analysis of development impact of individual projects and MIGA's portfolio: evaluates and monitors project compliance with environmental, social and integrity policies.

Information r t q x k f g f " k p " v j kSuEnvGroOntaljadnSocial'speKlitCasse 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. E n ks 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" q tNð-Information Possible" to such questions.

Contact Information

Completed by	Mashuda Parvin		
Position in Organization:	Manager	Tel:	+880201777736469
Email:	parvin@nwpogl.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, 2025
ISO 14001: 2015						13 ^h October, 2025
ISO 45001:2018						13 ^h October, 2025
Other	Environmental Clearance Certificate from Department of Environment (DoE)					Certificate Validity up-to 25/10/2023 (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 8 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 (Procurement)
- ◁ ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 Internal Auditor Training from BV
 - Mashuda Parvin, Manager (EHS), Corporate Office
 - M. Ijaz Ahmad Saadi, SDE (P&D), Corporate Office

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

- Mashioor Mahmud Khan, DM (EHS), SPS
- Tasdidul Anwar, AM (Admin), Corporate Office
- Md. Julkar Nain, AM (EHS), SPS
- S. M. Jahid Anwar, JAM (EHS), Corporate Office
- ◁ IFC Performance Standard Training by EQMS
 - Abdullah Al Quraishi, SE,
 - Mashuda Parvin, Manager (EHS), Corporate Office
 - Mashioor Mahmud Khan, DM (EHS), SPS
 - Tahira 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 Tube lights 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)

- ◁ Renovation of toilets and washrooms in Jame Masjid beside Bangabandhu West Police Station near SPS.
- ◁ Humanitarian relief to poor people and food distribution to orphans near Sirajganj Power Station.

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	27/01/2022, 23/02/2022, 24/03/2022, 18/04/2022, 24/05/2022, 27/07/2022, 27/08/2022, 26/09/2022, 24/10/2022, 17/11/2022 &		Enhance Staff training

		24/12/2022		
Inspect and certify fire detection & suppression electrical & mechanical systems	Minimum	As per maintenance schedule		
Inspect, refill/recharge portable fire extinguisher	Minimum	<p>Inspection is done monthly, Refilled on 30/10/2022 & 06/11/2022 for U2</p> <p>Inspection is done monthly, Refilled on 05/02/2022 & 10/02/2022 for U3</p>	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	81	1	0	0	-

Has the Project been subject to any ongoing or, threatened, strikes, slowdowns or work stoppages 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 óprevious 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? [13 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 u v c p f c t f . " G E T ø 3 ; ; 9 " c p f " u w d u g s w g p v " c o g p j
 `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	V g o r " * • E +
15.01.2022	8.31	28.9
10.02.2022	8.31	28.0
16.03.2022	8.25	30.1
14.04.2022	8.21	29.5
15.05.2022	8.29	30.1
13.06.2022	8.36	30.6
15.07.2022	8.31	31.2
16.08.2022	8.31	30.0
14.09.2022	8.41	28.6
15.10.2022	8.45	30.0
10.11.2022	-	-
11.12.2022	-	-

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 (Jan 2022- Dec 2022)

Utility Type	Units	Annual Consumption			Total	Remarks
		S 1	S 2	S 3		
Water Use	Cubic Meter			4009851	4009851	
Gas	SCM					

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 2022 implementation was done on 19.09.2022.	September,2023

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 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 (December 2022).

(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 of 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(s) are listed on the next page(s)

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

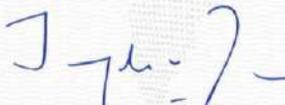
Scope of certification

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 2022
Recertification Audit date:	07 August 2022
Recertification cycle start date:	11 October 2022

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **13 October 2025**

Certificate No. **IND.22.8649/IM/U** Version: 1 Issue date: **11 October 2022**



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



0008

Certification body address: 5th Floor, 86 Prescott Street, London, E1 8HG, United Kingdom
 Local office: Bureau Veritas (Bangladesh) Pvt. Ltd
 Symphony (5th Floor), Plot- SC(F)9, Road-142
 South Avenue, Gulshan-1, Dhaka-1212, Bangladesh.

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) 8836766.

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Bureau Veritas Certification

NORTH-WEST POWER GENERATION COMPANY LIMITED



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.

SITE	ADDRESS	SCOPE
HEAD OFFICE	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)	SOYDABAD, SIRAJGANJ, BANGLADESH	POWER GENERATION & SUPPLY TO THE NATIONAL GRID
KHULNA 225 MW COMBINED CYCLE POWER PLANT	GOALPARA, KHALISHPUR, KHULNA, BANGLADESH	POWER GENERATION & SUPPLY TO THE NATIONAL GRID
BHERAMARA 410 MW COMBINED CYCLE POWER PLANT	BHERAMARA, KUSHTIA, BANGLADESH	POWER GENERATION & SUPPLY TO THE NATIONAL GRID
MADHUMATI 100 MW HFO BASED POWER PLANT	MOLLAHAT, BAGERHAT, BANGLADESH	POWER GENERATION & SUPPLY TO THE NATIONAL GRID
SIRAJGANJ 7.6 MW GRID CONNECTED SOLAR PV POWER PLANT	SOYDABAD, SIRAJGANJ, BANGLADESH	POWER GENERATION & SUPPLY TO NORTHERN ELECTRICITY SUPPLY COMPANY

Certificate No. IND.22.8649/IM/U

Version: 1

Issue date: 11 October 2022

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



0008

Certification body address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom.

Local office: Bureau Veritas (Bangladesh) Pvt. Ltd.
Symphony (5th Floor), Plot- SE(F)9, Road-142
South Avenue, Gulshan-1, Dhaka-1212, Bangladesh.

Pg 2 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 + 88 (02) 8836765.





গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পরিবেশ অধিদপ্তর
সিরাজগঞ্জ জেলা কার্যালয়
সপ্তর্ষি হাউস, হোল্ডিং নং-১৭৫, হোসেনপুর (দক্ষিণ)
সি. ও. রোড, সদর, সিরাজগঞ্জ-৬৭০০
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পরিবেশগত ছাড়পত্র নবায়ন

ছাড়পত্র নং: ২২-৮৭৪২১

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

প্রতিষ্ঠান/প্রকল্পের নাম	: সিরাজগঞ্জ ২২৫ মেগাওয়াট সিসিপিপ (ডুয়েল ফুয়েল ২য় ইউনিট)
উদ্যোক্তার নাম	: ব্যবস্থাপনা পরিচালক
সনাক্তকরণ নং	: ৬৭১২৮
প্রতিষ্ঠান/প্রকল্পের কার্যক্রম	: ২২৫ মেগাওয়াট বিদ্যুৎ উপাদান
প্রতিষ্ঠান/প্রকল্পের শ্রেণী	: Red
প্রতিষ্ঠান/প্রকল্পের ঠিকানা	: সয়দাবাদ, সদর, সিরাজগঞ্জ।
প্রদানের তারিখ	: ০৬/১১/২০২২ ইং
মোয়াদ উত্তীর্ণের তারিখ	: ২৫/১০/২০২৩ খ্রিঃ



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

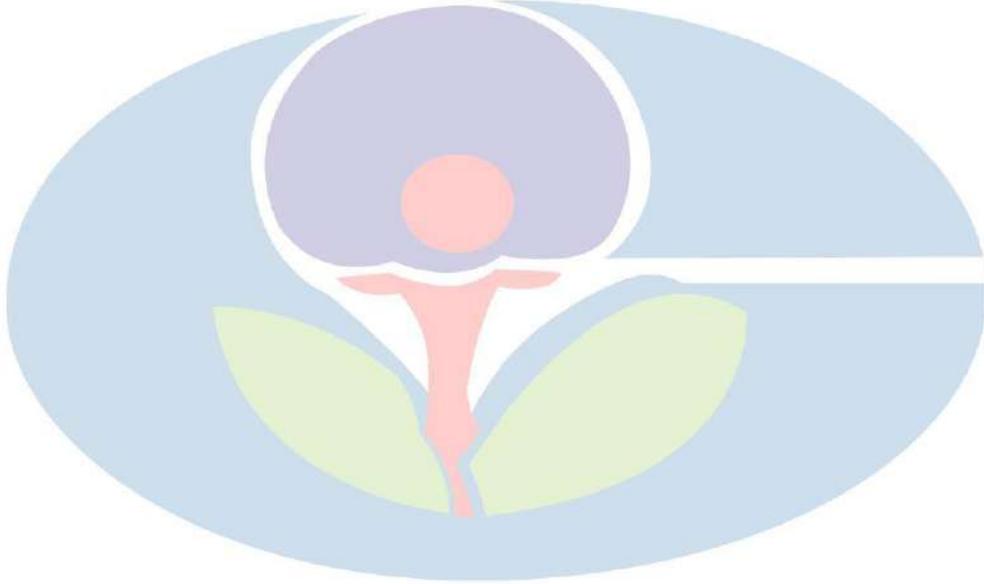
বিঃদ্রঃ এটি একটি সিস্টেম জেনারেটেড ছাড়পত্র এবং এতে কোনোরূপ স্বাক্ষরের প্রয়োজন নেই।

পরিবেশগত ছাড়পত্র নবায়ন এর জন্য প্রযোজ্য শর্তাবলী:

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

সনাক্তকরণ নং: ৬৭১২৮ সিরাজগঞ্জ ২২৫ মেগাওয়াট সিসিপিপ (ডুয়েল ফুয়েল ২য় ইউনিট) ছাড়পত্র নং: ২২-৮৭৪২১

১. সয়দাবাদ, সদর, সিরাজগঞ্জ-এ অবস্থিত সিরাজগঞ্জ ২২৫ মেগাওয়াট সিসিপিপ (ডুয়েল ফুয়েল ২য় ইউনিট) নামক ২২৫ মেগাওয়াট বিদ্যুৎ উৎপাদনকারী পাওয়ার প্ল্যান্টের অনুকূলে ২৫/১০/১৭ খ্রি: তারিখে জারীকৃত DoE/Clearance/5243/2013/530 সংখ্যক ছাড়পত্রের সকল শর্ত অপরিবর্তিত রেখে ছাড়পত্র আগামী ২৪ অক্টোবর ২০২৩ খ্রি:তারিখ পর্যন্ত নবায়ন করা হলো।



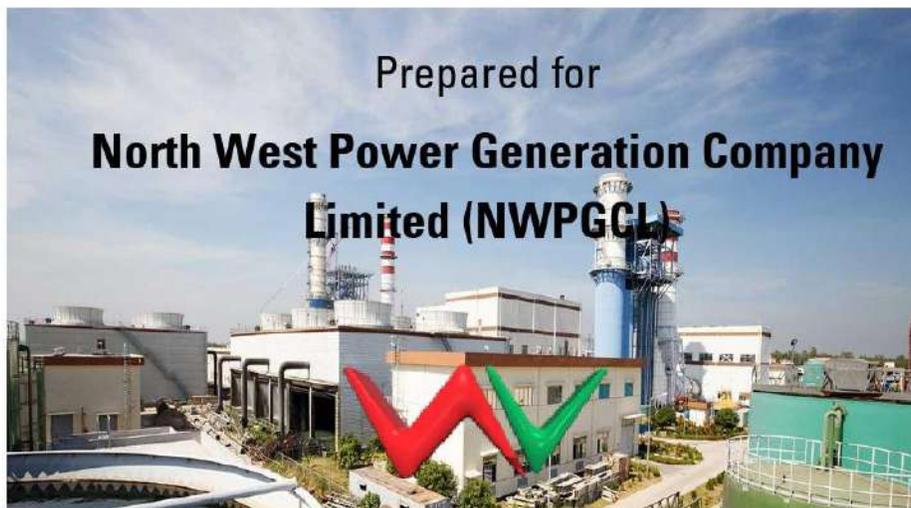
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ANNEX-B: Stakeholder Engagement Program

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

Operation Stage



Prepared for
**North West Power Generation Company
Limited (NWPGCL)**

Stakeholder Engagement Report

Prepared By



871/1, Kazipara, Kafrul, Mirpur,
Dhaka-1216, Bangladesh

September 2022

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 northwest 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 Soydabad, 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 Sirajganj 225 MW Combined Cycle Power Plant in Soydabad, 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 12545 MW, 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. Considering fuel gas & High-Speed Diesel (HSD) supply facilities in the area, the northwest 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), 2nd and 3rd unit at Soydabad, 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). NWPGL 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. NWPGL is seeking financial assistance from Standard Chartered Bank (hereinafter referred to as SCB or Bank or the Lenders). AECOM India has been engaged by NWPGL 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 (Approximately 10 acres for Sirajganj 225 MW 2nd Unit and approximately 7.5 acres for Sirajganj 225 MW 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, feedwater 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.

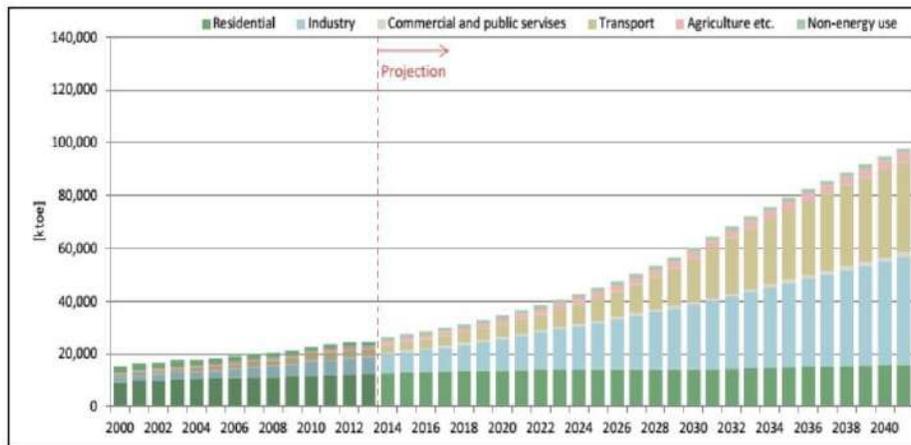


Figure 2-1: Projection of Final Energy Consumption (Energy Efficiency Scenario)¹

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 economic development to the

¹ Source: PSMP 2016

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

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	Syed Galib Shah
Designation/Position	Consultant, ELRC
Date	19 July 2022
Time	10:35 AM

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 aware 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. Iftekhar Ahmed Toslim
Designation/Position	Upazila Health and Family Welfare Officer
Cell No.	01919848050
Consulted By	Md. Abdur Rab
Designation/Position	Consultant, ELRC
Date	19 July 2022
Time	11:13 AM

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	No Initiative taken
Remarks	Denied to take pictures

4.2.3 Photographs

Denied Taking 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. Alauddin Bhuyia
Designation/Position	Sub-Assistant Agriculture Officer
Cell No.	01714801918
Consulted By	Syed Galib Shah
Designation/Position	Consultant, ELRC
Date	19 July 2022
Time	02:15 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): About 10000-12000 BDT
Production Rate	Not recorded
Annual Revenue	Not recorded
Availability of Agricultural Labor	Not available all the season
Labor Wages	Vary season to season 400-700 BDT
Agricultural Problems Created from The Project Activities (Yes/No)	No issues related to agriculture has been occurred till the reporting period.
Remarks	Need Deep tube-well installation for proper irrigation

4.3.3 Photographs



Photo 4-3: Consultation with SAAO, 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. Amzad Hossain
Designation/Position	Asst. Fisheries Officer
Cell No.	01716732855
Consulted By	Syed Galib Shah
Designation/Position	Consultant, ELRC
Date	20 July 2022
Time	10:25 AM

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, ber net, wheel, dragnet, etc. Fishes: Chanda, Chela, Pangas, Chital, Rui, Katla, Bhangana, Kalbaosh, Punti, Baila Cavasi Tengra, Tilapia, Phasa, Pholi, Horina Chingri, Darkina, Parshi, Golda Chingri, Mrigal, Koi, Kolisha, Mola, Gazar/Gojar, Tara Baim, Tengra, Veda, Shal Baim, Shol, Taki, Madhu pabda, Magur
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 area
Fishing Problems Created from The Project Activities (Yes/No)	No problem has been reported yet
Remarks	The NWPGL may help to do any kind of support for fishermen in the lean season

4.4.3 Photographs



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

4.4.4 Recommendations

The NWPGL may help to do any kind of support for fishermen in the lean season.

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. Kamrul Hossain
Designation	Sub Assistant Engineer
Cell No.	01715149341
Consulted By	Syed Galib Shah
Designation	Consultant, ELRC
Date	20 July 2022
Time	11:27 AM

4.5.2 Discussion

Concerned Issues	Discussions
Ground Water Condition Around the Project Site Area	Iron has been found in some tubewells. In a nutshell, the overall quality is good.
DTW Depth	About 150-300 ft
STW Depth	About 35-40 ft
DTW Installation Cost	No recent installation has been incurred by DPHE
STW Installation Cost	About 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
Remarks	Use surface water as an alternative to groundwater for cooling tower

4.5.3 Photographs



Photo 4-5: Consultation with Assistant 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 following relevant government rules and regulations.

4.6 Fishing Community

4.6.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Fishing Community, Boroshimul Village, Soydabad, Sirajganj
Consulted By	Md. Abdur Rab and Syed Galib Shah
Designation/Position	Consultant, ELRC
Date	20 July 2022
Time	12:18 PM

4.6.2 Participants Details

Sl. No.	Name	Age	Locations
1.	Md Abdul Goni Mia	55	Ponchosona Village
2.	Sukkur Ali Sadeq	42	Ponchosona Village
3.	Md. Khalek Howlader	51	Ponchosona Village
4.	Kiron karmaker	27	Ponchosona Village
5.	Md. Aziz Shikder	53	Ponchosona Village
6.	Khokon Howlader	24	Boroshimul Village
7.	Md. Malek Mridha	47	Boroshimul Village
8.	Md. Ruhul mia	42	Boroshimul Village
9.	Md. Kabir howlader	29	Boroshimul Village
10.	Mokhlesur Rahman	34	Boroshimul Village

4.6.3 Discussions

Concerned Issues	Discussions
Fishing Areas Around the Project Site (Number)	Mainly the Jamuna riverside and some ponds nearest the local residential area but not nearest to the project area
Fishing Practices	Current net, ber net, wheel, dragnet are using in this area
Available Fisheries	Mrigal, Koi, Kolisha, Madhu Pabda, Chital, Rui, Katla, Bhangon, Kalbaosh, Punt, Bala, Mola, Tilapia, Phasa Cavasi Tengra, Chanda, Chela, Pangas, Horina Chingri, Darkina, Parshi, Golda Chingri, Magur, , Pholi, Gazar/Gojar, Tara Baim, Tengra, Veda, Shal Baim, Shol, Taki
Quantity of Fisheries	Quantity is sufficient for the season.
Fishing Problems Created by Project Activities Around the Project Site Area (Yes/No)	Not yet observed any problem related to project activities
Remarks	No significant issues have been raised during the reporting report. The fisheries community reported overall well condition regarding fisheries resources.

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. As per the consultation with fisheries officer and fisherman of the project area, the project has no direct or indirect impact on the fisheries growth or mortality. Therefore, a comprehensive fisheries survey within the project area is recommended to identify more about fisheries resources of the project area.

4.7 Agricultural Farmers

4.7.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Farmers Community, Boroshimul Village, Soydabad, Sirajganj
Consulted By	Syed Galib Shah
Designation/Position	Consultant, ELRC

Date	21 July 2022
Time	10:40 PM

4.7.2 Participants Details

Sl. No.	Name	Age	Locations
1.	Md. Salam Howlader	45	Boroshimul Village
2.	Md. Kuddus Molla	43	Boroshimul Village
3.	Md. Khalek Shikder	36	Boroshimul Village
4.	Shah Aman Ullah	29	Boroshimul Village
5.	Abdul Halim	52	Ponchosona Village
6.	Md. Habibur Rahman	25	Ponchosona Village
7.	Md. Babul Mia	43	Ponchosona Village
8.	Sobhan Munshi	40	Ponchosona Village

4.7.3 Discussions

Concerned Issues	Discussions
Agricultural Practices (Single, Double and Triple)	Double (paddy-jute)
Crop Types	Common Crops are paddy, pulse, jute, wheat, mustard, vegetables, etc.
Production Rate	Productivity is being decreasing 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)	It was 450-500 BDT per day in last season for male labour, whether 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 Community Consultation

Community Health, Safety, and Emergency Preparedness Program has been conducted on 19 September 2022 at Punorbason Madrasha at Soydabad in Sirajganj Sadar Upazila under Sirajganj district with proper COVID-19 precaution and following management guidelines. The proceedings commenced at 12:15 PM. The program has been attended by a total of 36 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.

- a. Flood
- b. Gas Pipeline leakage
- c. Oil Pipeline leakage
- d. Traffic accident
- e. Communicable and non-communicable diseases

4.8.1 Consultation Details

Name of the Stakeholder (Institution/Community)	Local Residence/Community
Consulted By	Md. Rofiul Karim and Md. Shafiqul Islam
Designation/Position	Consultant, ELRC
Date	19.09.2022
Time	12:15 PM

4.8.2 Photographs

The photographs of the Community Health, Safety, and Emergency Preparedness Program are given in the following table.





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

4.9 EMF Awareness Training

An EMF Awareness training has been conducted on 20 September 2022 at Training room of Sirajganj 225 MW Combined Cycle Power Plant (Unit 2 & 3), Soydabad, Sadar, Sirajganj with proper precaution of COVID-19 pandemic. The proceedings commenced at 02:30 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. Shafiqul Islam
Designation/Position	Consultant, ELRC
Date	20.09.2022
Time	02:30 PM

4.9.2 Photographs

The photographs of the Community Health, Safety, and Emergency Preparedness Program are given in the following table.



Photo 4-8: 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 NWP GCL trained on it with precaution, prevention and reduction.

The proponent is recommended to properly maintain the stakeholder engagement program.

ANNEXURE

Annex 1: PCM Presentation Slides

 **WELCOME/স্বাগতম**

Community Health Safety and Emergency Preparedness Program 2022
“সামাজিক স্বাস্থ্য নিরাপত্তা ও জরুরি প্রস্তুতিমূলক কার্যক্রম ২০২২”

Date: 19.09.2022 Time: 12:15 PM
Venue: Punorbason Graveyard Madrasha, Soydabad Sirajganj

North-West Power Generation Company Limited
Sirajganj 225 MW Combined Cycle Power Plant (Unit 2 and 3)

 1

 সামাজিক স্বাস্থ্য নিরাপত্তা ও জরুরি প্রস্তুতিমূলক কার্যক্রম ২০২২

আলোচ্যসূচি

- বন্যা
- গ্যাস নিঃসরণ
- তেল নিঃসরণ
- সড়ক দুর্ঘটনা
- সংক্রামক এবং অসংক্রামক রোগ



 2



INTRODUCTION/ভূমিকা

- কমিউনিটিতে স্বাস্থ্য ছমকি, রাসায়নিক পদার্থ, ধোঁয়া, ভাইরাস, ব্যাকটেরিয়া, নিম্ন স্তরের বিকিরণ এবং পরিবেশে অন্যান্য সম্ভাব্য ক্ষতিকারক সাধারণ পদার্থ
- কমিউনিটি হেলথ অ্যান্ড সেকিটি বলতে স্থানীয় কমিউনিটিগুলিকে প্রকল্পের কর্মক্রম (বন্যা, ভূমিধস, দূষণ বা অন্যান্য প্রাকৃতিক বা মালবসৃষ্ট বিপদ সহ), রোগ এবং দুর্ঘটনাজনিত পতনের কারণে সৃষ্ট বিপদ থেকে রক্ষা করাকে বোঝায়।
- কমিউনিটি প্রস্তুতি বলতে নাগরিকদের প্রশিক্ষণ, শিক্ষা এবং সম্পদ প্রদানের জন্য প্রচেষ্টা বোঝায় যা তাদের ব্যক্তিগত এবং সমষ্টিগত স্তরে সম্ভাব্য স্থানীয় দুর্ঘটনের ছমকির বিরুদ্ধে আগাম প্রস্তুতি নিতে সহায়তা করে থাকে।

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FLOODS/বন্যা

Floods in Bangladesh/বাংলাদেশে বন্যা

- বাংলাদেশে প্রতি বছর প্রায় ২৬,০০০ বর্গ কিলোমিটার প্লাবিত হয়
- ৫০ হাজারেরও বেশি লোক মারা যায় এবং সাত মিলিয়নেরও বেশি বাড়ি ক্ষয়স করে
- এদের অধিকাংশই দেশের উত্তরাঞ্চলে ঘটে



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FLOODS/বন্যা

Floods in Project Area

- গত বছর হঠাৎ করে জেলার ৯ টি উপজেলার প্রমাল অংশ প্লাবিত হয়েছিল
- এটি প্রতি বছরের ঘটনা
- অনেক মানুষ গৃহহীন এবং অনাহারে ছিল
- উন্নয়নের কারণে, আজকাল কম লোকই ডুকভোগী



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5

FLOODS/বন্যা

Preparation

THE ULTIMATE FLOOD SURVIVAL KIT

❑ 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

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FLOODS/বন্যা

During A Flood

DURING THE FLOOD

❑ বন্যার সময় করণীয়

- ❖ স্থানীয় নির্দেশনা অনুযায়ী শুকনো পথ চলাচলের জন্য ব্যবহার করা
- ❖ ঘূর্ণমান 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

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FLOODS/বন্যা

After A Flood

AFTER

❑ বন্যা পরবর্তী করণীয়

- ❖ সাপ ও ক্ষতিকর পোকামাকড় থেকে রক্ষা পেতে প্রয়োজনীয় ব্যবস্থা নেয়া
- ❖ বিশুদ্ধ পানি পান করা। সত্ত্বব 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

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GAS PIPELINE LEAKAGE/ গ্যাস পাইপলাইনের ছিঁদ্র

Activities During Gas Leaking



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

GAS PIPELINE LEAKAGE/ গ্যাস পাইপলাইনের ছিঁদ্র

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

 **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 অস্পর্শন করা যাবে না
 - ❖ তেল যেন ছড়িয়ে না পড়ে সেদিকে খেয়াল রাখতে হবে

 12

 **OIL PIPELINE LEAKAGE/তেল পাইপলাইনের ছিদ্র**

Activities After Oil Leaking



- ❑ তেলের পাইপলাইন ফুটোর পরবর্তী করণীয়
 - ❖ স্থানটিকে বেইন 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

 13

 **TRAFFIC ACCIDENT/সড়ক দুর্ঘটনা**

Causes/কারণসমূহ

- ❑ অতিরিক্ত গতি
- ❑ ফোন ব্যবহার
- ❑ ঘুমান
- ❑ অতিরিক্ত বোঝা
- ❑ সিট বেল্ট ব্যবহার না করা
- ❑ না দেখে রাস্তা পারাপার

Chance Takers are Accident Makers

 14

 **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

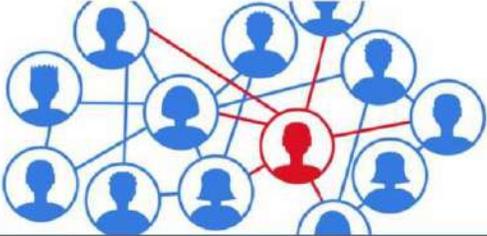
ELRC 17

COMMUNICABLE DISEASES/ সংক্রামক ৰোগ

□ সংক্রামক ৰোগ সংক্রামক এজেন্টগুলি (যেনহু ভাইরাস, ব্যাকটেরিয়া, ফাংগাস, ইনফেকশন) দ্বারা সৃষ্ট হয় যা সংক্রামিত ব্যক্তি, প্ৰাণী বা পরিবেশের উৎস থেকে অন্য মানুৰেৰ কাছৈ প্ৰেৰণ কৰা যেতে পাৰে।

□ সংক্রামিত ৰোগসমূহঃ

- ❖ যক্ষ্মা
- ❖ হেপাটাইটিস
- ❖ ম্যালেরিয়া
- ❖ কলেরা
- ❖ ইনফ্লুয়েঞ্জা
- ❖ এইচআইভি/এইডস



ELRC 18

COMMUNICABLE DISEASES/ সংক্রামক ৰোগ

Prevention/প্ৰতিৰোধ





□ পৰিষ্কাৰ -পৰিচ্ছন্ন থাকুন

□ টিকা দেওয়া

□ স্বাস্থ্যকৰ খাদ্য

ELRC 19

NON-COMMUNICABLE DISEASES/অসংক্রামক ৰোগ

□ এমন ৰোগ যা ব্যক্তি থেকে ব্যক্তিৰ কাছৈ প্ৰেৰণ কৰা যায় না - এতে কাৰ্ডিওভাসকুলার ৰোগ (যেনহু হাৰ্ট অ্যাটাক এবং স্ট্ৰোক), ক্যান্সাৰ, দীৰ্ঘস্থায়ী শ্বাসযন্ত্ৰেৰ ৰোগ (যেনহু দীৰ্ঘস্থায়ী প্ৰতিৰোধী ফুসফুসেৰ ৰোগ এবং হাঁপানি) এবং ডায়াবেটিস অন্তৰ্ভুক্ত।

□ ৰুিকিৰ কাৰনসমূহঃ

- ❖ ধূমপান
- ❖ উচ্চ ৰক্তচাপ
- ❖ স্থূলতা
- ❖ মানসিক দুশ্চিন্তা
- ❖ শাৰিৰীক পৰিশ্ৰম না কৰা

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

The 4 major categories of non-communicable diseases



ELRC 20

 **NON-COMMUNICABLE DISEASES/অসংক্রামক রোগ**

Prevention/প্রতিরোধ

 **NO SMOKING**





- ধূমপান মুক্ত থাকুন
- শারীরিক ব্যায়াম করুন
- নিয়মিত চেকআপ করান

ELRC

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 **CONCLUSIONS/উপসংহার**

- এই কর্মসূচি অনুযায়ী, আমাদের স্বাস্থ্য ও নিরাপত্তা-সংক্রান্ত সতর্কতা মেনে চলা উচিত
- ব্যক্তিগত বা সম্মিলিতভাবে যে কোন ধরনের কমিউনিটি স্বাস্থ্য সুরক্ষার ব্যাঘাত সম্পর্কে আমাদের আরো সচেতন হওয়া উচিত
- গ্যাস এবং পাইপলাইন লিকেজের মতো কোন প্রকল্প-ভিত্তিক সমস্যা হলে, অবিলম্বে যথাযথ কর্তৃপক্ষকে জানাতে হবে

ELRC

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ELRC

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Annex 2: PCM Attendance Sheets

ELRC

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NWPGCL

Public Consultation Meeting
Community Health, Safety and Emergency Preparedness Program 2022
 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: 10/09/22; Time: 12:15 PM Location: Punokbaron Madrasna, Soydabad, Sirajganj

S/N	Participant Name	Profession	Address	Mobile No.	Signature
1.	আলী হোসেন	স্বাস্থ্যকর্মী	সুখারাম	01728258644	আলী হোসেন
2.	আব্দুল হক	চাকরী	সিদ্দিকুল ফজল	01708152311	আব্দুল হক
3.	ডাঃ জাহাঙ্গীর হোসেন	ডাক্তার	নিমন্তুল হোসেন	02909-829200	Dr. Jahangir
4.	আব্দুল	কৃষি	আব্দুল	02928-829960	
5.	আব্দুল হক	কৃষি	"	01710906118	আব্দুল হক
6.	আব্দুল হক	কর্মচারী	"	01710034728	আব্দুল হক
7.	ডাঃ আব্দুল হক	ডাক্তার	"	01712-113812	ডাঃ আব্দুল হক
8.	আব্দুল হক	কর্মচারী	"	-	
9.	আব্দুল হক	কর্মচারী	"	01712 076665	আব্দুল হক
10.	আব্দুল হক	কর্মচারী	"	0174588924	আব্দুল হক
11.	আব্দুল হক	কর্মচারী	"	02928 880690	
12.	আব্দুল হক	কর্মচারী	"	02928 70258486	
13.	আব্দুল হক	কর্মচারী	"	02928 90828	
14.	আব্দুল হক	কর্মচারী	"	01763-98024	
15.	আব্দুল হক	কর্মচারী	"	02928 80005	

Sirajganj 225 MW CAPP 1 Public Consultation Meeting

Annex 3: EMF Awareness Training Presentation Slides



WELCOME

ELECTROMAGNETIC FIELD (EMF) EXPOSURE AWARENESS TRAINING

Date: 20.09.2022Time: 02:30 PM

North-West Power Generation Company Limited
Sirajganj 225 MW Combined Cycle Power Plant (Unit 2 and 3)



ELECTROMAGNETIC FIELD (EMF) EXPOSURE AWARENESS TRAINING

OUTLINE

- Introduction
- Sources
- Health Effect
- Precaution
- Reduction
- Awareness
- Conclusion





INTRODUCTION

- Electromagnetic fields (EMF) are ubiquitous in our daily life
- EMFs are **static electric, static magnetic and time-varying electric, magnetic and electromagnetic (radio wave) fields** with frequencies
- In certain working environments, the application of **high electric currents** leads to **extremely low frequency magnetic fields** or **electric fields** with a frequency range of **1 Hz to 100 kHz**



SOURCES

Typical Outdoor Sources of Exposure:

- Overhead Powerlines
- High Power Transmission Lines
- Electric Means of Transportation, such as Trams and Trains
- Higher doses of EMF occur in the workplace, for example with MRI scanners, welding equipment, induction heaters, and in power plants

HEALTH IMPACT

Two Categories of health effect:

- **Thermal Effects** – a body absorbs the radiation leading to localized tissue heating
- **Non-thermal Effects** – more subtle effects

Field and frequency range	Effects	Examples of activities and equipment
Static electric and static magnetic fields 0-1 Hz	Indirect effects: Uncontrolled attraction of ferromagnetic objects, is the risk of injury from objects in a large static magnetic field being attracted to magnets in the workplace and hitting anyone in the way. Sensory effects: Nausea, vertigo, metallic taste in the mouth, flickering sensations (magnetophosphenes) in peripheral vision. Health effects: Micro shocks	MRI scanners (main magnet) Electrochemical processes, eg industrial electrolysis, aluminium extraction Nuclear magnetic resonance spectrometers Electromagnetic lifting cranes Electric vehicles (cars, underground trains)

HEALTH IMPACT

Field and frequency range	Effects	Examples of activities and equipment
Low frequency magnetic and electric fields: 1 Hz- 10 MHz	Indirect effects: Interference with devices or equipment or body-worn medical devices (more information is provided later in this guidance), electric shock, causing electro-physiologic devices to behave as when used in close proximity to equipment that have an electrical means of isolation. Sparks caused by induced fields triggering fires or explosions where flammable fuels, vapours or gases are present. Sensory effects: Nausea, vertigo, metallic taste in the mouth, flickering sensations magnetophosphenes. Health effects: Nerve stimulation, effects on the central and peripheral nervous system of the body; tingling, muscle contractions, heart arrhythmias. Contact currents caused by a person touching a conductive object if an EMF while one of them is grounded and the other is not, which can result in electric shock.	High voltage power lines Production and distribution of electricity Working cars and spott Electrical arc furnaces Industrial induction heating (eg large coils used around the site of a well) AM radio Electric hand-held tools Electric vehicles (cars, trams, trains, metro) Magnetic resonance imaging (MRI) (static gradient fields)

HEALTH IMPACT		
<p>Intermediate frequency fields: 100 MHz–10 MHz</p>	<p>The health effects of both high and low frequencies can be experienced as detailed above and below (see also Annex 1)</p>	<p>Surgical diathermy Broadcasting systems and devices (AM radio) Anti-theft devices Military and research radiofrequency systems</p>
<p>High frequency fields: 100 MHz–300 GHz</p>	<p>Indirect effects: Interference with active or passive implanted or body worn medical devices (more information is provided later in this guidance), electric shocks, causing electro-explosive devices to initiate, is when used in close proximity to explosives that have an electrical means of initiation</p> <p>Sparks caused by induced fields triggering fires or explosions where flammable fuels, vapours or gases are present</p>	<p>RFI (RF coils) Broadcasting and TV antennas Radar and radio transmitters Diathermy Dielectric heating (eg vulcanising, plastics welding or microwave drying) Anti-theft systems</p>



HEALTH IMPACT		
Field and frequency range	Effects	Examples of activities & equipment
100 kHz–300 GHz	<p>Sensory effects: Auditory effects such as perception of clicks or buzzing caused by pulsed radar systems</p> <p>Health effects: Thermal stress, heating effects leading to a rise in core body temperature or localised limb heating (eg knees or ankles)</p> <p>Contact with charged conducting bodies can lead to RF shock or deep tissue burns (see also Annex 1)</p>	<p>Broadcasting and TV antennas Radar and radio transmitters Diathermy Dielectric heating (eg vulcanising, plastics welding or microwave drying) Anti-theft systems</p>



HEALTH IMPACT	
<p><input type="checkbox"/> Direct Effect</p>	
<p><input type="checkbox"/> Indirect Effects</p> <ul style="list-style-type: none"> ▪ Interference with active or passive medical devices ▪ Projectile risks from ferromagnetic objects ▪ Electric shocks or burns from a conductive object in an EMF ▪ Ignition of electrical detonators / fires / explosions 	





PRECAUTION

- **Warning Signs** Indicating Strong Electromagnetic Fields
- **Fencing** Around the EMF Generating Area
- **Entry Restriction** Signage
- Additional **Warning** Stickers
- Adequate Use of BodyWorn **Medical Devices**
- Proper Use of Full **Covered Safety Gown** or Vest





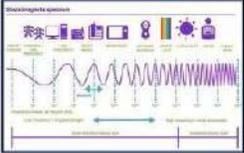


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REDUCTION

- Assess the **Levels of EMFs**
- Ensure that Exposure is Below a Set of ELVs, ' **Exposure Limit Values** '
- Assess the Risks of Employees' **Exposure** and **Eliminate or Minimize** Those Risks
- **Plantation** Around the EMF Area
- **Displace** Multi EMF Generating Devices
- Initiating **EMF Absorbing** Devices



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AWARENESS

- Provide **Information and Training** on the Particular Risks Posed to Employees by EMFs in the Workplace
- The Information should also be Made Available to **Safety Representatives**, as Appropriate
- **Take Action** if Employees are Exposed to EMFs in Excess of the ELVs
- Provide **Health Surveillance** or **Medical Examination**, as Appropriate

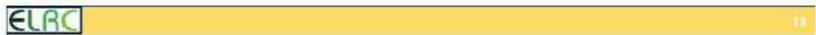






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 NORTH WEST POWER GENERATION CORPORATION (NWPGCL)	<h2>CONCLUSIONS</h2>
<ul style="list-style-type: none"><input type="checkbox"/> Precaution, Prevention and Reduction is the best way to control the EMF exposure in work place<input type="checkbox"/> Proper guidance and controlled environment can be important for reducing EMF<input type="checkbox"/> Considering health impact scenario, proper management should be demonstrated for reducing EMF<input type="checkbox"/> Awareness training, knowledge sharing, information exchanging etc. may help to manage the low level EMF exposure in workplace	



 NORTH WEST POWER GENERATION CORPORATION (NWPGCL)	
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Annex 4: EMF Awareness Training Attendance Sheets

Electromagnetic Field Exposure (EMF) awareness Training
Sirajganj 225 MW Combined Cycle Power Plant (Unit 2 & 3), Saidabad, Sadar, Sirajganj

Date: 20/09/2022 Time: 2:30 PM Location: Training Room, Unit 2 and 3, NWPGL

S/N	Participant Name	Profession/ Designation	Address	Mobile No.	Signature
1.	Md. Jaleel Akin	Service SPS (EHS)	SPS	01737-997236	<i>Jaleel</i>
2.	Md. Salim সালিম	Foreman EMD-U-3	SPS	01718-412441	<i>Salim</i>
3.	Shipon	EMD-U-3	Sirajganj	01719534323	<i>Shipon</i>
4.	Muhammedul	EMD-U-2	SPS	0174522526	<i>Muhammedul</i>
5.	Nahid	EMD-U-2	SPS	01760823713	<i>Nahid</i>
6.	Md Baorussaman	EMD-U-3	SPS	01701061223	<i>Baorussaman</i>
7.	Mithun Chandra Das	EMD-U-2	SPS	01746386179	<i>Mithun</i>
8.	Mashjour Mahmud Khan	DM (EHS)	MIS, AE's office, SPS	01702-152295	<i>Mashjour</i>
9.	Md. Khaled Islam	JAM (EHS)	MIS, AE's office SPS	01820557178	<i>Khaled</i>
10.	Syed Golib Shah	ELRC	Dhaka	01717502349	<i>Golib</i>
11.					
12.					
13.					
14.					
15.					

Sirajganj 225 MW CCPP 1 Electromagnetic Field Exposure
Awareness Training

ANNEX-C: Community Development Programme



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

Community Development Programme

Date: 09.03.2022

Title	Renovation of toilets and washrooms in Jame Masjid beside Bangabandhu West Police Station near SPS
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj
Time	02:00 PM
Venue	Jame Masjid beside Bangabandhu West Police Station
Participants	Employees of Bangabandhu West Police Station, local people and Sirajganj Power Station.
Monetary Amount	1,90,1165/-

Pictorial Evidence







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

Community Development Programme

Date: 13.08.2022 & 15.08.2022

Title	Humanitarian relief to poor people and food distribution to orphans near Sirajganj Power Station.
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj
Time	09:00 AM-05.00 PM & 02:00 PM
Venue	Various places
Participants	Police Super, Tangail; Director, NWPGL; CE, SPS & Employees of Sirajganj Power Station.
No of bags	5000 (Two Thousand) bags
No of food packets	150 (which cost 200/- per packet)
Each bag contains:	<ol style="list-style-type: none">1. 10 kg rice2. 2 kg pulse3. 0.5 liter soyabean oil4. 2 kg potato5. 1 kg salt6. 0.5 kg onion

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
					No grievance is found @Kripa 01/07/2022				

**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>Kamal</i> <i>29/05/2022</i>				

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**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>Kamal</i> <i>29/05/2022</i>				

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**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 grievances as found Atkinson 30/10/2022</i>				

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**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 grievances as found Atkinson 29/11/2022</i>				

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CS CamScanner

ANNEX-E: Updated Fire License

ক্রমিক নং			অনিবেশ ০০৩			
			প্রথম সংস্করণ ২০১২			
			V-09, P-35			
		ফায়ার লাইসেন্স				
লাইসেন্স নম্বর	এডি/পাবনা-৩৮ ৪১/২০২১-২০২২					
এতদ্বারা অগ্নি প্রতিরোধ ও নির্বাপন আইন ২০০৩ এর ৪ ধারা অনুযায়ী এবং উল্লিখিত শর্তাবলী সাপেক্ষে ফায়ার লাইসেন্স ইস্যু করা হইল।						
১। মালগুদাম/কারখানার মালিক/ব্যবহারকারী/কর্তৃপক্ষের নাম, পদবী ও ঠিকানা :						
প্রতিষ্ঠানের নাম : সিরাজগঞ্জ ২২৫ মে:ও:ক:সা:বিদ্যাৎ কেন্দ্র(১ম, ২য়, ৩য়)ইউনিট ও ৭.৬ মে:ও: সোলার প্রাফ্ট						
মালিকের নাম : প্রধান প্রকৌশলী।						
গ্রাম/রাস্তা: মন্ডলগাতী, ডাকঘর: ভেবুটিয়া-৭৪০০, যশোর সদর, যশোর।						
ফোন :..... ফ্যাক্স..... ই-মেইল :						
২। মালগুদাম/কারখানার অবস্থান : (ক) প্লট নং/হোল্ডিং নং..... বড়শিমুল পঞ্চসোনা						
(খ) দাগ নং..... (গ) খতিয়ান নং..... (ঘ) জে এল নং.....						
(ঙ) মৌজা..... (চ) রোড নং..... (ছ) ডাকঘর সয়দাবাদ						
(জ) থানা সিরাজগঞ্জ (ঝ) উপজেলা সিরাজগঞ্জ (ঞ) জেলা সিরাজগঞ্জ						
৩। ভবনের ব্যবহার শ্রেণী :						
৪। ভবনের নির্মাণ শ্রেণী ও পরিমাপ : পাকা ভবন						
শ্রেণী-১	শ্রেণী-২	শ্রেণী-৩	দৈর্ঘ্য	প্রস্থ	উচ্চতা	মোট মেবোর ক্ষেত্রফল (বর্গ মিটার)
						৩,৪৯,৩৫০ বর্গফুট।

- ৫। দাহ্য বস্তুর নাম ও মজুদ পরিমাণ : প্লাস্টিক জাতীয় দ্রব্য।
- ৬। ব্যবসার ধরন : বিদ্যুৎ উৎপাদন।
- 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.....%
- ০৯। মাগুলের পরিমাণ=১২০০/-টাকা, ভ্যাট=১৮০/- টাকা।
- ১০। নবায়ন অর্থবছর ২০২১-২০২২(৩০ জুন ২০২২ খ্রি: পর্যন্ত)।

শিশুশ্রম নিষিদ্ধ

জরুরী প্রয়োজনে

সিরাজগঞ্জ ফায়ার স্টেশন-০১৭৩০-০০২৫৪৯
বিভাগীয় নিয়ন্ত্রণ কক্ষ- ০১৭৩০-৩৩৬৬৫৫

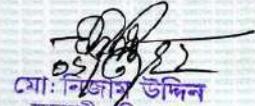
লাইসেন্সের শর্তাবলী

- (১) প্রতি বছর ৩০ জুনের মধ্যে এই লাইসেন্সের অনুকূলে মাগুলের 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।

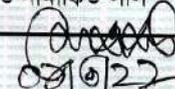
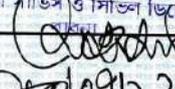
০৬। উক্ত প্রতিষ্ঠানে আইএসও মান সম্পন্ন ৫/৬ কেজি ৪২২ টি ডিসিপি, ২১১ টি সিওটু, ০৯/১০ লিঃ কোম ১০ টি ফায়ার এক্সটিংগুইশার সংরক্ষণ করিতে হইবে।

০৭। ০১ টি হোজরীজ ব্যবস্থা এবং পর্যাপ্ত পানি ধারণ ক্ষমতা সম্পন্ন ভগ্নপ্ত জলাধার রাখতে হবে।

কর্মকর্তা ও কর্মচারীদের ফায়ার সার্ভিস কর্তৃক প্রশিক্ষণের ব্যবস্থা করতে হবে। এছাড়াও আরও কোন শর্ত আরোপিত হলে তা পালন করতে হবে।


মো: নিজামুদ্দিন

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

তারিখ	চালান নং	মাণ্ডলের পরিমাণ	অর্থ বছর (১ জুলাই-৩০ জুন)	নবায়নকারীর স্বাক্ষর ও নামাক্রিত সীল
২৮/২/২২	৮৮, ৮৯	২২০৮- vat: ২৮০৮-	২০২২-২০২২	 ০৯/৩/২২ মোঃ আব্দুল মালেক ওয়ালমহুউজ ইসলামপেট্র সহকারী সার্ভিস ও সিভিল ডিফেন্স স্বাক্ষর
২৫/৩/২২	৩২৬ ৩২৭	২২০০৮- vat: ২৮০৮-	২০২২-২০২৬	 ২৫/০৭/২২ মোঃ আব্দুল মালেক ওয়ালমহুউজ ইসলামপেট্র সহকারী সার্ভিস ও সিভিল ডিফেন্স স্বাক্ষর



ANNEX F: First Aid Training



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

Training on First Aid

Date: 08.09.2024

Trainer	Dr. Md. Golam Kibria
Time	10: 30-03 30 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

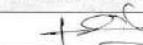
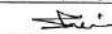
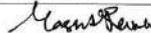
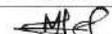
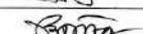
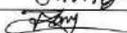
Attendance Sheet

	NORTH-WEST POWER GENERATION COMPANY LIMITED 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	: Admin, Sirajganj Power Station
Course Name and ID	: Primary Management of Incident/Accident (First Aid).
Date	: 08/09/2022
Duration	: 10:30 AM to 01:30 PM
Total Man Hour	:
Facilitator(s)	: জনাব ডা. মোঃ 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	Participant's Signature
1.	Tanbir Almad	SBE (OP)	
2.	Moh. Shamim Hosen	AE (OP)	
3.	Masud Rana	AE (OP)	
4.	Masud Hossain	SAE (OP)	
5.	Md. Mizanur Rahman	SAE (U-2, OP)	
6.	Md. Manin Hossen	SAE (OP)	
7.	Md. Tahaed Farhan	SAE (OP)	
8.	Md. Niazul Tahaed Farhan	AE (OP)	