



North-West Power Generation Company Limited
Annual Public Environmental and Social Report (2021-22)

Sirajganj 225MW Combined Cycle Power Plant (Dual Fuel - 3rd Unit)

October - 2022

1. About the Project:

The configuration of the Sirajganj 225MW Combined Cycle Power Plant (Dual Fuel - 3rd Unit) is multi shaft 1:1:1 consisting of one gas turbine, one HRSG and one steam turbine with by-pass stack for simple cycle operation. Natural Gas is the main fuel and HSD oil as alternative fuel. The guaranteed net output of the each power plant is 220 MW.

The following equipment are belong to Sirajganj 225MW Combined Cycle Power Plant (Dual Fuel - 3rd Unit):

1. Gas Turbine
2. Steam Turbine
3. Generators
4. Heat Recovery Steam Generator (HRSG)
5. Gas Booster Compressor
6. 230kV Switchyard in Power Plant area
7. 230kV bay at the existing Sirajganj 230kV Switching station under PGCB
8. Underground 230 kV transmission line for power evacuation
9. Water treatment system(combined for 2nd and 3rd Unit)
10. Cooling Water System
11. Stacks (main and bypass) etc.

Natural gas or High Speed Diesel will be used as fuel for Gas turbine which will be coupled with Generator to produce around 150 MW electricity. The requirement of Natural Gas for this two Power Plant is about 35MMCFD. Natural Gas will be supplied to the proposed power plant by Paschimanchal Gas Co. Ltd. (a Company of Petrobangla). The exhaust gas temperature of gas turbine will be about 500-600 degree Celsius. The exhaust gas with high temperature will be passed through Heat Recovery Steam Generator (HRSG) in which groundwater will be fed after treatment (demineralization & desalination) to produce the steam and then the steam will be passed through steam turbine coupled with generator to produce electricity of about 75MW. The temperature of the flue gas will be about 90 degree Celsius. The flue gas will be discharged to the atmosphere through main stack of adequate height.

The output voltage of the generators will be stepped up to 230 kV through a Step-up Transformer, to be installed close to generator outlets. This high voltage (230 kV) supply will be connected to the existing 230 kV Switching Station of PGCB through 230 kV underground cables.

This Project has been declared COD on 11/03/2019.

12. Environmental Law

NWPGCL has been complied all the national and international environmental law. The details have been depicted in ESIA report. (<http://www.nwpgcl.org.bd/en/pages/eia-report>)

13. Social Law

NWPGCL has been complied all the national and international social law. The details have been depicted in ESIA report. (<http://www.nwpgcl.org.bd/en/pages/eia-report>)

14. Environmental and Social Permit

SL#	Name of the Permits	Organizations
1.	Trade License	Dhaka City Corporation
2.	BERC License	Energy Regulation Commission
3.	Environment Clearance Certificate (ECC)	Department of Environment (DoE)
4.	Permission of Acid/alkali Storage	Explosive Department
5.	License for Fire Permit	Fire Service
6.	License for Storage of Diesel	Explosive Department
7.	License for Boiler	Office of Chief Inspector of Boiler
8.	Factory License	Dept. of Inspection for Factory & Establishments

9. Environmental and Social Action Plan

Depicted at ANNEX-A.

10. IFC Standards

NWPGCL has been complied IFC standards. The details have been depicted in ESIA report. (<http://www.nwpgcl.org.bd/en/pages/eia-report>)

11. The Equator Principles

NWPGCL has been complied Equator Principles. The details have been depicted in ESIA report. (<http://www.nwpgcl.org.bd/en/pages/eia-report>)

12. The EHS Guidelines

NWPGCL has been complied EHS guideline of IFC. The details have been depicted in ESIA report. (<http://www.nwpgcl.org.bd/en/pages/eia-report>)

13. ADB's Safeguard Policy Statement, 2009

The project is not funded by ADB

14. Basic Terms and Conditions of Employment

NWPGCL has an approved HR policy which is followed by all employees.

15. Core Labour Standards

NWPGCL has an approved HR policy which is complying national labour law

16. Community Engagement Programs

Depicted at ANNEX-B.

ANNEX – A

Update of Environmental and Social Action Plan

S. No (A)	Element (D)	Deliverable (E)	Responsibility	Timeline (F)
1	Submit declaration for implementation of ESMS and revised ESHIA	Declaration Letter from NWPGCL	NWPGCL	Condition Precedent
2	Environment & Social Management Plan (ESMP) to be developed by the EPC for the project taking into consideration ESMS of NWPGCL, ESHIA Environment & Social Management & Monitoring Plan and its subsequent revisions (if any).	ESMP	EPC	Condition Precedent
3	NWPGCL to appoint Environment & Social Head at the corporate level	NWPGCL to prepare a job description and appointment date for E&S Manager	NWPGCL	Condition Precedent
4	Unit-3 EHS and social reporting to corporate should be provisioned, by means of developing terms of reference/job description for EHS Manager for the Unit-3.	Job description of EHS Manager of Unit-3	NWPGCL	Condition Precedent
5	A specific training plan should be established specifying training requirements, definition of training sessions, duration, frequencies, syllabus, and verification of training programs through feedback forms. Training calendar to be developed in line with requirements of ESMS and ESHIA for construction and operation phase.	Develop a training calendar	NWPGCL&EPC	Condition Precedent
6	EPC organogram to detail position for EHS and Social Officer before start of construction works.	Contractor organogram and appointment letters	Contractor	Condition Precedent
7	Identify and finalize independent organization who will responsible for implementation of environment monitoring compliance plan and EMP	Appointment of third party consultant	NWPGCL&EPC	Condition Precedent
8	Contractor agreements to incorporate review of EHS and Social performance of EPC of Unit-3 in line with ESMS and ESHIA	Formal communication from NWPGCL to EPC and EPC agreement to the same	NWPGCL&EPC	Condition Precedent
9	Develop Stakeholder Engagement Plan as per Performance Standard 1 and ESMS requirements	NWPGCL&EPC to prepare and Lenders to approve Stakeholder Engagement Plan	NWPGCL&EPC	Condition Precedent
10	EPC to comply with Performance Standard 2 requirements such as prohibition of child and forced labour at work place, payment of wages, working hours etc. Workers accommodation to be provided as per IFC Performance Standards 2 requirements and time bound monitoring of quality of accommodation provided and basic services to be reviewed.	Formal communication from NWPGCL to EPC and EPC agreement to the same	NWPGCL&EPC	Condition Precedent
11	During the construction phase, undertake semi annual labor audits of contractors and sub-contractors.	Labour Audit report as a part of the E&S monitoring report	NWPGCL&EPC	NA (Construction phase already completed)

S. No (A)	Element (D)	Deliverable (E)	Responsibility	Timeline (F)
12	Workers and community grievance management procedure to be developed and implemented as per Performance Standard 1 requirements.	NWPGCL&EPC to prepare and Lenders to approve Grievance redress mechanism	NWPGCL&EPC	Condition Precedent
13	Provision of occupational health centre and medical examination of workers during construction phase to be ensured by EPC in line with ESMS and ESHIA requirements	Formal communication from NWPGCL to EPC and EPC agreement to the same	NWPGCL&EPC	Condition Precedent
14	i) NWPGCL required to report publicly on an annual basis on GHG emission levels during the operational phase for the project. The company should disclose their GHG emissions annually through corporate reports, or through other voluntary disclosure which specifies details project level emissions on annual basis. ii) NWPGCL should strive for technically and financially feasible and cost effective options available to reduce project-related GHG emissions during the design, construction and operation of the Project.	i) Develop mechanism for GHG quantification ii) GHG Evaluation Report / MoM of technical design meetings	NWPGCL	To be reviewed on an ongoing basis as a part of the Semi annual/annual site visits and reporting by Lender's E&S consultant
15	Adequacy and efficiency assessment of the CETP shall be provided before installation with identification of critical equipment for operations and its preventive maintenance schedule	Adequacy and efficiency assessment report/ technical design documents of ETP when finalized	NWPGCL	To be reviewed on an ongoing basis as a part of the Semi annual/annual site visits and reporting by Lender's E&S consultant
16	NWPGCL should maintain minutes of meetings conducted with their stakeholders and should consider including the stakeholders in regular training exercises (e.g., simulations, drills, and debriefs of exercises and actual events) to familiarize them with proper procedures in the event of an emergency	Records of minutes of meetings	NWPGCL	To be reviewed on an ongoing basis as a part of the Semi annual/annual site visits and reporting by Lender's E&S consultant
17	Ensure that there is no office or labour camp around the RMS station and within a radius of at least 200m from the RMS station.	NWPGCL to prepare and Lenders to approve general drawings from lenders for labour and officer accommodation	NWPGCL&EPC	To be reviewed on an ongoing basis as a part of the Semi annual/annual site visits and reporting by Lender's E&S consultant

ANNEX – B

Community Engagement Program



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

Community Development Programme

Date: 03.08.2021

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

Pictorial Evidence









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

Community Development Programme

Date: 14.08.2021& 15.08.2021

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

Pictorial Evidence











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

Community Development Programme

Date: 24.08.2021

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

Pictorial Evidence







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

Community Development Programme

Date: 13.12.2021

Title	Medicine handover to Department of Inspection for Factories and Establishments, Sirajganj District for organizing a medical camp for the labors of DIFE.
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj.
Time	3.00 PM-4.00 PM
Venue	Office of Deputy Inspector General, Department of Inspection for Factories and Establishments, Sirajganj District.
Participants	Labors under Department of Inspection for Factories and Establishments, Sirajganj District.
Monetary Amount	BDT 50,000 (Fifty Thousand Taka Only)



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



