



**North-West Power Generation Company Limited**  
**Annual Public Environmental and Social Report (2019-2020)**

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

**October - 2020**

## 1. About the Project:

NWPGCL is already constructed two 225MW Combined Cycle Power Plant at Saydabad under Sirajganj district beside the Sirajganj 225MW Combined Cycle Power Plant (unit-1) with the bidder's finance. Out of two, Sirajganj 225 MW Combined Cycle Power Plant Project (2nd Unit - Dual Fuel) has been commissioned at 5<sup>th</sup> February 2018.

The configuration of the proposed Sirajganj 225 MW Combined Cycle Power Plant (2<sup>nd</sup> Unit-Dual Fuel) is multi shaft 1:1:1 consisting of one gas turbine, one HRSG and one steam turbine with by-pass stack for GT single operation of each unit. 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(2<sup>nd</sup> Unit-Dual Fuel):

- 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 2<sup>nd</sup> and 3<sup>rd</sup> 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 150MWelectricity. 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.

## 2. 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>)

## 3. 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>)

## 4. Environmental and Social Permit

SL#	Name of the Permits	Organizations
1.	Trade License	Dhaka City Corporation
2.	License for River Water/Jetty	BIWTA
3.	Site Clearance	DoE
4.	EIA	DoE
5.	Permission of Acid/alkali Storage	Explosive Department
6.	License for Fire Permit	Fire Service
7.	License for Storage of CO2 (if required)	Explosive Department
8.	License for Storage of Diesel	Explosive Department
9.	License for Boiler	Chief Inspector of Boiler
10.	License for Propane Cylinder Storage (if required)	Explosive Department
11.	License for Compress Cylinder Storage (if required)	Explosive Department

## 5. Environmental and Social Action Plan

Depicted at ANNEX-A.

## 6. 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>)

## 7. 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>)

## 8. 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>)

## **9. ADB's Safeguard Policy Statement, 2009**

The project is not funded by ADB

## **10. Basic Terms and Conditions of Employment**

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

## **11. Core Labour Standards**

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

## **12. Community Engagement Programs**

Depicted at ANNEX-B.

**ANNEX – A**  
**Environmental and Social Action Plan**

S. No	Elements	Gaps	Recommendation	Timeline	Deliverables	Frequency	Responsibility	Status upto October 2020
1	Environment and Social Management System (ESMS) and Policy	A formal EHS and Social policy at company level and dedicated ESMS for the Sirajganj complex has not been formulated by NWPGL.	(a) Formulate a company level Environment, Health & Safety and Social policy statement duly endorsed by senior management of NWPGL and communicated.	CP to firstutilization	EHSS Policy by seniormanagement	One time	NWPGLManagement	It has already been done before Financial Closing
			(b) Submission of annual compliance certificate	Continuous Monitoring	Annual Compliance Certificate	Annual	NWPGL Management	Annex -c
			(c) Develop an Environment and Social Management System for whole site (considering operational Unit 1, proposed Unit 2 and other Planned Units). This should also include Stakeholder engagement plan, supply chain and grievance redress procedure. ESMS should also have elements pertaining to human resources management for direct and indirect employees for the project life cycle.	CP to first utilization	ESMS with all the procedures to the satisfaction of E&S Advisor of the investor (s)	One time	NWPGL Management/ Consultant appointed byNWPGL Management	It has already been done before Financial Closing
			(d) Legal Register to be developed for the entire Sirajganj Complex (as part of ESMS)	CP to first utilization	Legal Register is a part of the ESMS being developed	One time	NWPGLManagement/ Consultant appointed by NWPGL Management	It has already been done before Financial Closing/ It is depicted in ESMS report

S. No	Elements	Gaps	Recommendation	Timeline	Deliverables	Frequency	Responsibility	Status upto October 2020
			(d) Organization structure to include deployment of dedicated EHS and Social officer during the construction and operation phase. The compliance requirements to HR policies and procedures to be part of contract documents of contractor including compliance with accommodation standards.	CP to first utilization	Organogram for EHS & Social Management before contract sign with formal consent of EPC Contractor	One time	NWPGCL Management	It has already been done before Financial Closing/ It is depicted in ESMS report
			(e) Procedure for monitoring, review and reporting to be developed.	CP to first utilization	Procedure development Implementation is Continuous	Monthly Internal Audits	NWPGCL Management	It has already been done before Financial Closing/ It is depicted in ESMS report
			(f) GHG emissions disclosure	Continuous Monitoring	Report GHG emissions from the facility	Annual	NWPGCL Management	Annex D
			(g) Engage a suitably qualified independent consultant to help develop and implement the ESMS.	CP to first utilization	Appointment letter of consultant	One time	NWPGCL Management	It has already been done before Financial Closing/ It is depicted in ESMS report
2	Identification of Risks and Impacts	ESIA Report needs to be updated to incorporate the following elements	(a) Obtain prior permission from the Bangladesh Bridge authority before starting any up gradation works of Jetty.	CS	Before jetty upgradation	One time	NWPGCL Management	Provided in Public Environmental and Social Report -2017
		- HAZOP for plant equipments and utilities - Job Safety Analysis and	(b) The baseline conditions updation for of the Jamuna Eco Park, social baseline with land use map of the project site covering 5 km around the site.	CP prior to first utilization	Updated ESIA Report	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing/ It is depicted in upgraded ESIA report.

S. No	Elements	Gaps	Recommendation	Timeline	Deliverables	Frequency	Responsibility	Status upto October 2020
		Risk assessment - Social Baseline information	(c) HAZOP for plant equipment and utilities to be included	CP prior to first utilization	HAZOP - will be a part of updated ESIA	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing/ It is depicted in upgraded ESIA report.
		- Updation of baseline and impacts of Jetty on Jamuna Eco Park	(d) Job Safety Analysis and Risk assessment procedure to be included	CP to first utilization	JSA/HIRA for plant to be covered in the updated ESIA	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing/ It is depicted in upgraded ESIA report.
			(e) ESIA to include air quality dispersion modelling and water balance (considering emissions from Sirajganj 1 and 2)	CP prior to first utilization	Updated ESIA Report	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing/ It is depicted in upgraded ESIA report.
			(f) ESIA to include Environmental Management Plans for construction and operations phase including the following –  - Traffic Safety Management Plan  - Security Policy  - Construction Labour  - Management Plan - Stakeholder Engagement Plan	CP prior to first utilization	Updated ESIA Report	One time	NWPGCL Management / EAL engaged by NWPGCL Management	It has already been done before Financial Closing/ It is depicted in upgraded ESIA report.
			(g) Environment and Social Management Plan to be developed based on the risks and impacts for Jetty upgradation	CS	Develop ESMP for within 60 days before Jetty upgradation	One time	NWPGCL Management / EAL engaged by NWPGCL Management	Already Provided in Public Environmental and Social Report -2017

S. No	Elements	Gaps	Recommendation	Timeline	Deliverables	Frequency	Responsibility	Status upto October 2020
3	Occupational Health and Safety	NWPGCL has not developed occupational health and safety procedures for construction and operation phase for compliance to legal requirements , IFC performance standards and World Bank EHS and Thermal Power Sector guidelines. Emergency response procedures has not been developed and implemented .	As part of the ESMS develop a comprehensive occupational health and safety procedures in line with applicable regulations and World Bank EHS Guidelines, for operation and construction phase of the project and ensure compliance.	CP to first utilization	Develop procedures in one month and implement throughout the project life cycle Emergency Preparedness to be developed as a part of the ESMS	One time	NWPGCL Management / Consultant appointed by NWPGCL Management	It has already been done before Financial Closing/It is depicted in ESMS report.
4	Environment Management	Environment management procedures for the construction and operation phase have not been developed.	(a) Ensure Contractor formulate an intensive environment monitoring programme during construction and operation phase of the project comprising of frequency of monitoring permitting comparison with the General Worldbank/IFC Environmental, Health and Safety Guidelines und EHS Guidelines for Thermal Power Plants.	CP to first utilization	Develop Procedure and formally communicated and agreed by EPC contractor	One time	NWPGCL	It has already been done before Financial Closing.

S. No	Elements	Gaps	Recommendation	Timeline	Deliverables	Frequency	Responsibility	Status upto October 2020
			(b) Install pollution control facilities during construction and operation phase of the project.	Continuous Monitoring	Implementation during construction and operation phase	Continuous	NWPGCL and Contractor	<ul style="list-style-type: none"> <li>• Continuous Emission Monitoring Station (CEMS) has been installed;</li> <li>• Low NOx burner has been installed.</li> </ul>
			(c) Environmental Monitoring Programme to be developed	CS - 60 days to first utilization	Development of environmental monitoring plan to the satisfaction of the E&S advisor of the investors	One time	NWPGCL and Contractor	Third party environmental monitoring team has been engaged during operational Phase
			(d) Implementation of the programs developed	Continuous Monitoring	Implementation during construction and operation phase	Continuous	NWPGCL and Contractor	Already Provided in Public Environmental and Social Report -2017
			(e) Identify DoE approved vendors and starts initiate signing an agreement with them for disposal of oily sludge to the vendors.	CS –Within 60 days of first utilization	Contract with the vendors	One time	NWPGCL	Already Provided in Public Environmental and Social Report -2017
			(f) Inventorize hazardous materials to be used during construction and operation of the project.	CS –Within 60 days of first utilization	Inventorisation and risk assessment	One time	NWPGCL	Already Provided in Public Environmental and Social Report -2017
			(f) Adequate labels, secondary containment and spill response kit should be provided wherever the hazardous material (HAZMAT) is used and workers should be trained to respond to accidental spills and emergencies due to hazardous material.	CP to first utilization	Development of HAZMAT procedure as part of ESMS and implement	One time	NWPGCL	It has already been done before Financial Closing/ It is depicted in ESMS report.

S. No	Elements	Gaps	Recommendation	Timeline	Deliverables	Frequency	Responsibility	Status upto October 2020
5	Community Health and Safety	Studies for identification of community health and safety impacts, ensuring infrastructure design and safety and offsite emergency management has not been identified and implemented .	(a) Adequate studies for existing and proposed infrastructure, design and equipments should be undertaken by engaging a third party consultant should be undertaken	CS - 60 days to first utilization	Infrastructure design and safety report by engaging third party	One time	NWPGCL Management	Already Provided in Public Environmental and Social Report -2018
			(b) Offsite emergency preparedness plan should be developed.	CP to first utilization	Offsite Emergency preparedness and response plan to the satisfaction of Investor E&S Advisor	One time	NWPGCL Management	Already Provided in Public Environmental and Social Report -2018
			(c) Assist and collaborate with the potentially affected Communities (see Performance Standard 4) and the local government agencies in their preparations to respond effectively to emergency situations.	Continuous Monitoring		Annual	NWPGCL Management	Annex E
			(d) Document emergency preparedness and response activities, resources, and responsibilities, and should provide appropriate information to potentially affected Community and relevant government agencies.	Continuous Monitoring	Emergency preparedness and response Plan and its implementation to the satisfaction of Investor E&S Advisor	Continuous	NWPGCL Management	Already Provided in Public Environmental and Social Report -2018



## ANNEX – B

### Community Engagement Program



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

#### Community Development Programme

Date: 28.03.2020

Title	Distribution of hand sanitizer to local community
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj.
Time	11.00 AM-02.00 PM
Venue	Panchashona Village, Punarbashan, Soydabad Union Porishad.
Participants	-Local Community beside Sirajganj Power Station
No. of Hand Sanitizer	Around 1000 bottles (200 ml each).

Pictorial Evidence







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

**Community Development Programme**

Date: 18.01.2020

Title	Distribution of Sewing Machine (30) & Motor driven Van (20)
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj.
Time	11.00 AM-01.00 PM
Venue	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj.
Participants	Sewing machine for 30 poor women and motor driven van for 20 poor men.

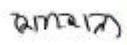
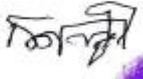
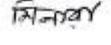
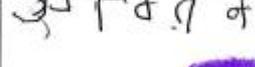
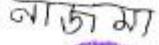
**Pictorial Evidence**



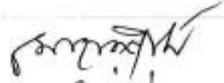


নর্থ-ওয়েস্ট পাওয়ার জেনারেশন কোম্পানি লিঃ-এর “সিএসআর” কার্যক্রমের আওতায়  
সিরাজগঞ্জ বিদ্যুৎ কেন্দ্রের তত্ত্বাবধানে বিতরণকৃত  
সেলাই মেশিন গ্রহীতাদের তালিকা ও অঙ্গীকারনামাঃ

আমি এই মর্মে অঙ্গীকার করিতেছি যে, নর্থ-ওয়েস্ট পাওয়ার জেনারেশন কোম্পানি লিঃ-এর “সিএসআর” কার্যক্রমের আওতায় সিরাজগঞ্জ বিদ্যুৎ কেন্দ্র হইতে প্রাপ্ত সেলাই মেশিন অন্য কাহাকেও হস্তান্তর বা বিক্রয় করিব না।

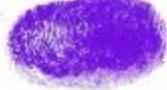
ক্রঃ নং	নাম ও পিতা/স্বামীর নাম	ঠিকানা ও মোবাইল নং	স্বাক্ষর
✓ ১.	মোছাঃ শাহিদা সুলতানা পিতাঃ সাহেব আলী	জারিলা, পোড়াবাড়ী ০১৩০৮-৯২৬৮০৮	 
✓ ২.	মোমেনা খাতুন পিতাঃ মফেল আকন্দ	দুখিয়াবাড়ী, সয়দাবাদ ০১৭৪৮-৭১০১৪৩	 
✓ ৩.	মোছাঃ শিল্পী বেগম পিতাঃ মোঃ জুলমাত প্রাং	দুখিয়াবাড়ী, সয়দাবাদ ০১৭৭৪-৯৪০৩৭৩	 
✓ ৪.	মোছাঃ মিনারা খাতুন পিতাঃ মোঃ তারা মিয়া	পূর্ব মোহনপুর, সয়দাবাদ ০১৭৮৫-৫৫৩৬০৮	 
✓ ৫.	মোছাঃ অবিরন পিতাঃ সোরহাব মোল্লা	বড়শিমুল পঞ্চসোনা, যমুনা সেতু ০১৭৬০-৬৭৭২৩৫	 
✓ ৬.	মোছাঃ নাজমা খাতুন পিতাঃ মোঃ আমির হোসেন	বড়শিমুল পঞ্চসোনা, যমুনা সেতু ০১৭৪৮-১১১৯৩৮	 

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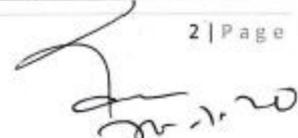
  
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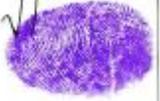
ক্রঃ নং	নাম ও পিতা/স্বামীর নাম	ঠিকানা ও মোবাইল নং	স্বাক্ষর
✓ ৭.	মোছাঃ পলী খাতুন পিতাঃ মোঃ আঃ মালেক সরকার	বড়শিমুল পঞ্চসোনা, যমুনা সেতু ০১৭৪৪-১৯৬১০৭	পলি 
✓ ৮.	মোছাঃ রিনা খাতুন পিতাঃ হযরত আলী তালুকদার	মুলিবাড়ী, সয়দাবাদ ০১৭০৪-৫০৬৭১০	রিনা 
✓ ৯.	আরতী পিতাঃ হরি চরন	পোড়াবাড়ী উত্তর, জামতৈল দাস ০১৭৪১-৬৪০২৮৫	আরতী 
✓ ১০.	মোছাঃ জহরা বেগম পিতাঃ মোঃ আব্দুল জলিল	গাছাবাড়ী, সারটিয়া ০১৭০১-৬৬০২২৪	জহরা 
✓ ১১.	উম্মে কুলছুম পিতাঃ মোঃ আব্দুল কুদ্দুস	চর গাছাবাড়ী, সয়দাবাদ ০১৭৮০-৭২০১৩৬	কুলছুম 
✓ ১২.	মোছাঃ নুপসী খাতুন পিতাঃ মোঃ মেরাজ প্রাঃ	হাট সারটিয়া, সয়দাবাদ ০১৭১৫-৩২১১৪৫	নুপসী 
✓ ১৩.	মোছাঃ সিরিয়া বেগম পিতাঃ মোঃ সেরাজুল ইসলাম	সয়দাবাদ ০১৭৭৮-৯০৩১৬০	সিরিয়া বেগম 
✓ ১৪.	মোছাঃ মনোয়ারা বেগম স্বামীঃ মোঃ আব্দুস ছালাম আকন্দ	সয়দাবাদ ০১৭৭৬-১১৭৩৫৫	

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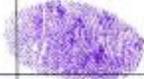
ক্রঃ নং	নাম ও পিতা/স্বামীর নাম	ঠিকানা ও মোবাইল নং	স্বাক্ষর
✓ ১৫.	মোছাঃ সুফিয়া বেগম পিতাঃ মোঃ সফিকুল ইসলাম	পুনর্বাসন, বঙ্গবন্ধু সেতু ০১৭০৪-৪৫৩০৫৪	
✓ ১৬.	মোছাঃ দুলিয়া খাতুন পিতাঃ মোঃ মুক্তার হোসেন মন্ডল	গাছাবাড়ী, সয়দাবাদ ০১৯৭৪-২০৫৩০০	দুলিয়া 
✓ ১৭.	বিউটি রানী ঘোষ স্বামীঃ পরমেশ্বর চন্দ্র ঘোষ	চর সারটিয়া ০১৭৪৮-৯৭৬৪১১	বিউটি 
✓ ১৮.	মোছাঃ রাশিদা বেগম পিতাঃ মোঃ আজিজ মন্ডল	পুনর্বাসন, বঙ্গবন্ধু সেতু ০১৭৫৮-২৪৭৭৩৪	রাশিদা 
✓ ১৯.	স্বর্ন রানী পিতাঃ প্রভাত চন্দ্র দাস	পঞ্চ সারটিয়া, সয়দাবাদ ০১৭৩৩-০৫৫৭৭৩	স্বর্ন 
২০.	মোছাঃ রাজিয়া বেগম পিতাঃ গোলজার মন্ডল	সদানন্দপুর, পোড়াবাড়ী ০১৭১৬-৭৪৬১১৪	
✓ ২১.	মোছাঃ খাদিজা খাতুন পিতাঃ মোঃ মুক্তার হোসেন	গাছাবাড়ী, সয়দাবাদ ০১৭০৬-১৭৬৪৭৫	খাদিজা 
✓ ২২.	মোছাঃ হাসিনা বেগম পিতাঃ মোঃ হাসান আলী সরকার	খাসবড়শিমুল, সয়দাবাদ ০১৩১৫-৫৪৫৮০৩	হাসিনা 

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ক্রঃ নং	নাম ও পিতা/স্বামীর নাম	ঠিকানা ও মোবাইল নং	স্বাক্ষর
২৩.	মোছাঃ বিউটি খাতুন পিতাঃ আঃ হাকিম	জারিলা, পোড়াবাড়ী ০১৭৬৬-৬২৪৮৮৯	বিউটি 
✓ ২৪.	মোছাঃ হাছিনা খাতুন পিতাঃ মোঃ হাছেন শেখ	বড়শিমুল পঞ্চসোনা, বঙ্গবন্ধু সেতু ০১৩১৭-৩৩৭৭৪৩	হাছিনা 
✓ ২৫.	মোছাঃ রহিমা বেগম পিতাঃ মোঃ ওহাব	পূর্ব মোহনপুর, সয়দাবাদ ০১৭১৯-৫৩৮৯৩৮	রহিমা (বেগম) 
✓ ২৬.	মোছাঃ সুমী খাতুন মৃত জুড়ান আলী	গাছাবাড়ী, সারটিয়া ০১৭০৪-৭৫২০৪০	সুমী 
✓ ২৭.	মোছাঃ সরিফন খাতুন আব্বেল আলী শেখ	সয়দাবাদ, বঙ্গবন্ধু সেতু ০১৭৭৭-০২৮৩৯৮	সরিফন 
✓ ২৮.	মোছাঃ শ্যামলা খাতুন পিতাঃ মোঃ আঃ রাজ্জাক	বড়শিমুল পঞ্চসোনা, সয়দাবাদ ০১৭০৭-৭২৩০৩৮	শ্যামলা 
✓ ২৯.	মোঃ এরশাদ পিতাঃ মোঃ সোলেমান সেখ	সয়াশেখা, সিরাজগঞ্জ সদর ০১৭৭১-৫৪৫৫৫২	 ১৩০৯৬৫৫ ১৩০৯৬৫৫
✓ ৩০.	শ্রী গীতা রানী শ্রী বাদল লাল	মাহমুদপুর হরিজন কলোমী, সিরাজগঞ্জ ০১৯৩৪-১৬৬০৩১	

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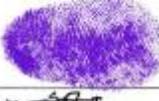
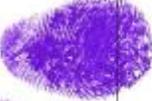
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**নর্থ-ওয়েস্ট পাওয়ার জেনারেশন কোম্পানি লিঃ-এর “সিএসআর” কার্যক্রমের আওতায়  
সিরাজগঞ্জ বিদ্যুৎ কেন্দ্রের তত্ত্বাবধানে বিতরণকৃত  
ভ্যানগাড়ী গ্রহীতাদের তালিকা ও অঙ্গীকারনামাঃ**

আমি এই মর্মে অঙ্গীকার করিতেছি যে, নর্থ-ওয়েস্ট পাওয়ার জেনারেশন কোম্পানি লিঃ-এর “সিএসআর” কার্যক্রমের আওতায় সিরাজগঞ্জ বিদ্যুৎ কেন্দ্র হইতে প্রাপ্ত ভ্যানগাড়ী অন্য কাহাকেও হস্তান্তর বা বিক্রয় করিব না।

ক্রঃ নং	নাম ও পিতার নাম	ঠিকানা ও মোবাইল নং	স্বাক্ষর
১. ✓	হাশেম পিতাঃ ইমান ভূইয়া	পূর্নবাসন, বঙ্গবন্ধু সেতু-৬৭০০ ০১৭২৮-২৩৩৩৭০	
২. ✓	মোঃ শাহা জামাল মৃত আনশোব মন্ডল	বড়শিমুল পঞ্চসোনা ০১৭৫১-৫৮৩২৮৩	মোঃ জামাল 
৩. ✓	মোঃ আলাউদ্দিন পিতাঃ মোঃ আবুল হোসেন	চক বয়ড়া, সয়দাবাদ ০১৭৫২-৫৬৭৫৩২	মোঃ আলোউদ্দিন 
৪. ✓	শ্রী মানিক চন্দ্র দাস পিতাঃ সূর্য চন্দ্র দাস	সয়দাবাদ, সিরাজগঞ্জ-৬৭০০ ০১৭৯৫-০৩১৯৪৭	শ্রী মানিক চন্দ্র দাস 
৫. ✓	মোঃ উজ্জল শেখ পিতাঃ মৃত আমজাদ শেখ	বড়শিমুল পঞ্চসোনা, বঙ্গবন্ধু সেতু-৬৭০০ ০১৬২৭-২৮২৮৪০	উজ্জল 
৬. ✓	মোঃ নাসির উদ্দিন পিতাঃ মোঃ আবু সাইদ মোল্লা	চক বয়ড়া, সয়দাবাদ ০১৩১৭-২৩৬৯৩৫	নাসির 
৭. ✓	মোঃ জহির উদ্দিন পিতাঃ মোঃ মোকহেদ	পূর্নবাসন, যমুনা সেতু-৬৭০০ ০১৮৭২-০৩৫১৯৬	

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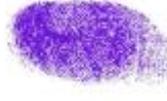
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৮.	মোঃ শফিকুল ইসলাম পিতাঃ মোঃ শান্তা মন্ডল	গাছাবাড়ী, সারটিয়া-৬৭০০ ০১৭৮৩৬৩৪১৫৫	
৯.	মোঃ বেলাল হোসেন পিতাঃ মোঃ জিন্নাহ সরকার	খাস বড়শিমুল, সয়দাবাদ-৬৭০০ ০১৭৭৯-৪০৪৩৩০	
১০.	মোঃ শহিন শেখ পিতাঃ মোঃ হাম্মান মোল্লা	খাস বড়শিমুল ০১৩০৫-২০৬১২৫	
১১.	মোঃ আরশাদুল মোল্লা পিতাঃ মোঃ আবু ছাইদ মোল্লা	বিরহাটি, সয়দাবাদ-৬৭০০ ০১৭৮৮-৫৫৩৭৯৯	
১২.	মোঃ খাদেমুল ইসলাম পিতাঃ বাদল	সয়দাবাদ ০১৭৪১-৯৭৬২৮০	
১৩.	মোঃ আনোয়ার হোসেন পিতাঃ জানিফ	সয়দাবাদ ০১৯০৪-৭২২৪৯৩	
১৪.	মোঃ শহিদুল ইসলাম পিতাঃ মোঃ হারুন রশিদ	খাস বড়শিমুল, সয়দাবাদ-৬৭০০ ০১৭৫১৭২৬০৭১	
১৫.	মোঃ কোরবান আলী শেখ পিতাঃ ছাবেদ আলী শেখ	পুনর্বাসন, বঙ্গাবন্ধু সেতু-৬৭০০ ০১৩০০-২৩৮৩২৬	

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ক্রঃ নং	নাম ও পিতার নাম	ঠিকানা ও মোবাইল নং	স্বাক্ষর
১৬.	মোঃ ফরিদুল সরকার পিতাঃ মোঃ সোবাহান সরকার	জারিলা, পোড়াবাড়ী ০১৭৬০-০০৫৯৩৩	ফরিদুল 
১৭.	মোঃ মিরু সরকার পিতাঃ মৃতঃ আবুল হোসেন সরকার	তেতুলিয়া, বড়হর, উল্লাপাড়া ০১৭৭৬-৩০৫৬৮৪	মোঃ মিরু সরকার 
১৮.	ক্লিনার	সিরাজগঞ্জ বিদ্যুৎ কেন্দ্র, সিরাজগঞ্জ	ক্লিনার 
১৯.	মোঃ আঃ ছোবাহান পিতাঃ হাছেন আলী	সয়দাবাদ ০১৭২৩৭৫৮৭২৩	
২০.	মোঃ সেলিম পিতাঃ মৃতঃ নায়েব আলী	দুখিয়াবাড়ি, সয়দাবাদ ০১৩১৭-৯৬৪৯৮৩	সেলিম 

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

**Community Development Programme**

Date: 20.04.2020

Title	Relief distribution to unprivileged local community during COVID-19 pandemic
Organizer	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj
Time	10.00 AM-05.00 PM
Venue	District Commissioner's office of Sirajganj Sadar
Participants	Local Community beside Sirajganj Power Station
No. of Relief Bags	700 bags (Each bag contained rice (10 kg), pulse (2 kg), potato (3 kg), salt (1 kg), soyabean oil (1 L), Onion (1 kg) and soap (2pcs.))

Pictorial Evidence







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

**Community Development Programme**

Date: 28.07.2020 & 29.07.2020

<b>Title</b>	<b>Relief distribution to flood affected people</b>
<b>Organizer</b>	Sirajganj Power Station, NWPGL, Soydabad, Sirajganj.
<b>Time</b>	10.00 AM-04.00 PM
<b>Venue</b>	Pach Thakuri Village of Sadar Upazilla and Bir Shuvogacha & Dakkhin Burundi Villages of Kazipur Upazilla, Sirajganj.
<b>Participants</b>	Local Community beside Sirajganj Power Station and given venue's people
<b>No. of Relief Bags</b>	1000 bags (Each bag contained rice (10 kg), pulse (2 kg), potato (3 kg), salt (1 kg), soyabean oil (1 L), Onion (1 kg), sugar (1 kg), powder milk (500 g), Molasses (1 kg), Chira (3 kg), Shemai (3 Packets), Saline (1 box or 20 pcs.) and soap (5 pcs.)).

Pictorial Evidence





## ANNEX – C

### Completion Certificate



নর্থ-ওয়েস্ট পাওয়ার জেনারেশন কোম্পানী লিমিটেড

**NORTH-WEST POWER GENERATION COMPANY LIMITED**

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

(An Enterprise of Bangladesh Power Development Board)

UTC Building (Level-3&4), 8-Panthapath, Kawran bazar, Dhaka-1215, Bangladesh

Phone : 9145291-92, 9145427-28, e-mail: info@nwpocl.gov.bd, web : www.nwpocl.gov.bd

Memo No. 27.28.0000.301.99.001.19.55/2

Date: 03/02/2020

#### CERTIFICATE OF COMPLIANCE

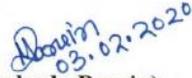
To: Standard Chartered Bank- as Intercreditor Agent

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

Dear Sirs,

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

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

  
(Mashuda Parvin)

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

  
(Md. Abdus Samad)

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

**ANNEX – D**

**GHG Emission**

**Sirajganj 225 MW CCPP Power Plant (2<sup>nd</sup> Unit\_ Dual fuel)**

**Date: 01 February-2019 to 31 January-2020**

**GHG Emission calculation: Using IFC Carbon Emissions Estimation Tool (CEET)**

SL	Particular	Value		Unit
		Gas	HSD	
A*	Net Heat Rate (Combined Cycle)	7627.02	7585.77	KJ/KWH
B*	Gross Generation Capacity (Combined Cycle)	228500	228500	KW
C	Operating Days	216.75	1.73	days
D	Daily Operating Hours	24	24	Hours/day
E	Total Annual Output(= B x C x D)	1,188,657,000	9,487,320	KWH
F	Annual Fuel Consumption (= E x A)	9,065,910,712,140	71,968,627,436.4	KJ
		9065.91	71.97	TJ
G*	Annual GHG Emission	517,415	5,547	tCO <sub>2</sub> e/year

## **ANNEX – E**

### **Stakeholder Engagement Report**



**North-West Power Generation Company Limited**

## **Stakeholder Engagement Report**

### **2019-2020**

**For**

### **Sirajganj Power Plant**

**(Unit- 2 & Unit- 3)**

**Prepared By**



**EQMS CONSULTING LIMITED**

**SUIT# C1, HOUSE# 76, ROAD# 05, BLOCK# F, BANANI**

## **1 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 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 its 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 2019-2020 as guided by the established SEP of NWPGL.

### 1.1 Consultation with Fire Service and Civil Defense

Name of the Stakeholder (Institution/Community): Fire Service & Civil Defense, Sirajganj		Date: 27.09.2020
Consulted person: Md. Atiqul Islam	Position: Inspector (Wire House)	Mobile No: 01721419032
Consulted by: Md. Abdur Rahman		Position: Assistant Consultant (EQMS Consulting Ltd.)

Concerned Issues	Discussion
Involvement with the emergency preparedness programs taken by the NWPGL	Involved for Fire Safety Training on Need Basis. Approximately 4-5 Training Program Held in the Last Year.
Frequency of programs taken	Once or Twice in a Quarterly Time Period
Any fire incidents reported	Not reported
Remarks	Fire drill needed by a 2-month interval. Should have the initiative to give training on fire safety.



#### Recommendations

- Fire drilling/ fire safety training needs to be conducted periodically

## 1.2 Consultation with Ministry of Health and Family Welfare

Name of the Stakeholder (Institution/Community): Upazila Health and Family Welfare office, Sirajganj Sadar Upazila		Date: 28.09.2020
Consulted person: Dr. Md. Jahidul Islam	Position: Upazila Health and Family Welfare Officer	Mobile No:
Consulted by: Md. Abdur Rahman	Position: Assistant Consultant (EQMS Consulting Ltd.)	

Concerned Issues	Discussion
Available health facilities	Information Unavailable
Common exposure diseases (last one year)	Information Unavailable
Health problems created from the project activities (if any)	Information Unavailable
Health improvement initiatives may be taken by NWPGL	Information Unavailable
Remarks	Denied to Take Pictures



### Limitations

- No information has been found from the respective department

### 1.3 Consultation with Dept. of Agriculture

Name of the Stakeholder (Institution/Community): Upazila Agricultural Office		Date: 28.09.2020
Consulted person: Krishibid Rustom Ali	Position: Upazila Agricultural Officer	Mobile No: 01706625535
Consulted by: Md. Abdur Rahman		Position: Assistant Consultant (EQMS Consulting Ltd.)

Concerned Issues	Discussion
Agricultural practices (Saidabad Union)	Two crops field maximum. Some 3 crops.
Irrigation practices (Saidabad Union)	Shallow tube well, River water, Deep Tube well (rare)
Irrigation cost (last year and present year; if increased compared to previous year, why )	Not been increased significantly. For Rice production per Bigha 16000-18000 BDT
Production rate (Saidabad Union)	Not recorded union wise.
Annual revenue (Saidabad Union)	Not recorded union wise.
Availability of agricultural labor (Saidabad Union)	Not available all the season.
Labor wages (Both male & female in Saidabad Union)	Vary season to season 400-700
Agricultural problems created from the project activities (Yes/No)	No problems identified yet. Maximum are null lands near the plant.
Measures, suggestions and engagements if required	Need Deep Tube-well (within WAPDA area) Help to increase communication system.
Remarks	Not specified



### Recommendations

- Deep tube-well installation may help increase agriculture productivity.

#### 1.4 Consultation with Dept. of Fisheries

Name of the Stakeholder (Institution/Community): Upazila Fisheries Office		Date: 28.09.2020
Consulted person: Md. Amzad Hossain	Position: Assistant Fisheries officer	Mobile No: 01716732855
Consulted by: Md. Abdur Rahman	Position: Assistant Consultant (EQMS Consulting Ltd.)	

Concerned Issues	Discussion
Fishing scenario and practices around the project site	Aquaculture, open water fishing, Home pond. Generally Used Cast Net, Bittle, Thela Jal, Polo. Fishes: Elish, Bagha Aeer, Kajoli, Chingri, Pabda, Piali, Baim, kachki, Chapila, Boal etc.
Yearly Yield (Saidabad Union)	13678 metric ton total (10 unions) last year. Union wise not updated.
Total fishing activities (around the project site)	Not updated.
Fish availability (around the project site)	Fish availability rate is satisfactory.
Fishing areas (around the project site)	River/open water fishing areas near the plant
Fishing problems created from the project activities (Yes/No)	Not reported
Measures, suggestions and engagements if required	Need Fish sanctuary.
Remarks	Any kind of support for fishermen in lean fishing season.
	

#### Recommendations

- NWPGL may support for fish sanctuary establishment;
- Fishermen stay jobless during lean season; any kind of supports for fishermen in lean season will be appreciated.

### 1.5 Consultation with Dept. of Public Health Engineering

Name of the Stakeholder (Institution/Community): Department of Public Health Engineering, Sirajganj Upazila		Date: 28.09.2020
Consulted person: Md. Kamrul Hasan	Position: Estimator	Mobile No: 01715149341
Consulted by: Md. Abdur Rahman	Position: Assistant Consultant (EQMS Consulting Ltd.)	

Concerned Issues	Discussion
Ground water condition around the project site area	Overall fine. Iron found in the deep around the project area.
DTW depth	Max 300 feet, Min 150 feet
STW depth	35 to 40 Feet
DTW installation cost (last year and present year; if increased compared to previous year, why )	No Recent installation by DPHE.
STW installation cost (last year and present year; if increased compared to previous year, why )	35 to 40 feet total cost 10000 BDT
Remarks	It's better if the mega project use surface water.



### Recommendations

- Use surface water as much as possible instead of using ground water

## 1.6 Consultation with Fishing Community

Name of the Stakeholder (Community): Fishing Community	Date: 29.09.2020
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Name of the Participants	Age	Location
Iqbal	19	Barashimul Panchasona
Konok	23	Barashimul Panchasona
Ibrahim	30	Barashimul Panchasona
Ajgor	36	Punarbashon
Akbar	42	Punarbashon
Mojammel	31	Barashimul Panchasona

Concerned Issues	Discussion
Fishing areas around the project site (Number)	River side mainly. Some ponds but not nearest to the plant.
Fishing practices	Current jal, Ber jal.
Available fisheries	Aair, Boal, Prawn, Elish etc.
Quantity of fisheries	Enough in the Season.
Fishing problems created by project activities around the project site area (Yes/No)	No
Measures, suggestions and engagements if required	Try not to pollute surface water
Remarks	



## 1.7 Consultation with Agricultural Farmers

Name of the Stakeholder (Community): Farmers Community	Date: 29.09.2020
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Name of the Participants	Age	Location
Aziz	24	Punarbashan
Moinul	29	Punarbashan
Anwar	20	Barashimul
Rofique	45	Barashimul
Romij	34	Barashimul

Concerned Issues	Discussion
Agricultural practices (single, double and triple)	Previous-Triple, Now- Double (Paddy-Mustard)
Crop types	Amon, Wheat, Pulse, Paddy, Mustard
Production rate	Increased compared to the previous year.
Irrigation practices	Shallow, Natural and Surface water.
Irrigation cost (last and present year)	3500 BDT per bigha.
Annual revenue	N/A
Agricultural Labor Availability	Not available in peak season.
Labor wages (male, female)	500 BDT per day in last season (Male only). No female worker is available in this area.
Existing problems and others relevant issues around the project site	No relevant problems have been identified.
Remarks	



## **Recommendations**

No relevant recommendations

### **1.8 Consultation with Community**

Community consultations regarding project activities and community health, safety and emergency preparedness could not be conducted due to the Covid 19 situation.