

Bangladesh : Power System Upgrade and Expansion (Chattogram Area) Project

Project ID:	P000088	Instrument ID:	L0088A								
Member:	Bangladesh	Region:	Southern Asia								
Sector:	Energy	Sub-sector:	Electricity transmission and distribution								
Instrument type:	⊠Loan:120.00 US Dollar million □Guarantee	Lead Co-financier (s):									
ES category:	Borrowing Entity: Ministry of Finance, Bangla										
Implementing Entity:	Power Grid Company of Bangladesh Limited (PGCB)										
Project Team Leader:	Raqib Ahmed Chowdhury										
Responsible DG:	Rajat Misra										
Responsible Department:	INF1										
Project Team Members:	Liu Yang, Project Counsel; Shonell Robinson, OSD - Financial Management Specialist; Sheikh Naveed Ahmed, OSD - Social Development Specialist; Pedro Ferraz, OSD - Environment Specialist; Yunlong Liu, OSD - Procurement Specialist										
Completed Site Visits by AIIB:	Nov, 2018 The team visited the project sit Dec, 2020 Review meeting conducted virt Sep, 2021 Review meeting conducted virt Apr, 2022 Multiple virtual implementation Aug, 2022 Site Visit with ES specialists	ually									
Planned Site Visits by	Jun, 2023										
AIIB:	Physical meeting with PIE										
Current Red Flags	1										
Assigned:											
Current Monitoring Regime:	Regular Monitoring										
Previous Red Flags Assigned:	1										
Previous Red Flags Assigned Date:	2022/06										

1.

2. Project Summary and Objectives

The objective of the project is to upgrade and strengthen power transmission systems in the Chittagong area to ensure an adequate and reliable power supply. Project activities include:

- Constructing double circuit transmission lines: (a) for 400 kilovolts covering a distance of approx. 27 kilometers from Anowara to Anandabazar; and (b) for 230 kilovolts covering in total a distance of approx. 26 kilometers, consisting of the following two underground segments: (i) approx. 10-kilometer long transmission line from Khulshi



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to Anandabazar, and Anandabazar to Rampur; and (ii) approx. 16-kilometer long transmission line from Madunaghat to Khulshi.

- Constructing two 230 kilovolts gas-insulated switchgear (GIS) substations: (a) a GIS substation at Anandabazar with transformers of 2x350/450 megavolt ampere; and (b) a GIS substation at Khulshi with transformers of 2x350/450 megavolt ampere and 3x80/120 megavolt ampere.

- Constructing two GIS bay extensions of 230 kilovolts at Madunaghat substation and two GIS bay extensions of 230 kilovolts at Khulshi substation.

After completion of the project, the grid network capacity of Chattogram area will be enhanced. The growing demand of this area will be fulfilled with the reliable power supply to industrial, commercial, and residential load points. This will improve voltage stability of 132kV level in the transmission side along with 33kV in distribution side.

3. Key Dates

Approval:	Mar. 26, 2019	Signing:	Nov. 08, 2019
Effective:	Aug. 03, 2020	Restructured (if any):	
Orig. Closing:	Jun. 30, 2023	Rev. Closing (if any):	Jun. 30, 2025; Jun. 30, 2025;

4. Disbursement Summary (USD million)

Contract Awarded:		Cancellation (if any):	0.00		
		Most recent			
Disbursed:	5.51	disbursement	0.33/Aug. 03, 2022		
		(amount/date):			
Undisbursed:	114.49	Disbursement Ratio	4 50		
Undisbursed:	114.49	(%) ¹ :	4.59		

5. Project Implementation Update

There are three procurement packages, and the bidding process for all the packages has been completed. Contract agreements for Packages 1 and 3 have been signed and disbursements have started since Q1 2022.

Notification of Award for package 2 has been issued in Q4-2022 and is pending for contract agreement signing.

Components	Physical Progress	Environmental & Social Compliance	Procurement
Component1:Procurementofmaterial&equipmentandnecessary	1%	The consultant has been onboarded by PGCB (PIE) for ESMP Implementation	The bidding process has been completed. The contract agreement for this package (Package 1) has been signed in Q4 2021.

¹Disbursement Ratio is defined as the volume (e.g. the dollar amount) of total disbursed amount as a percentage of the net committed volume.



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including design, erection, testing, and commissioning for Anowara to Anandabazar (New Mooring) 400 kV double circuit overhead line portion: approx. 19.932 km Component 2:	0%	The consultant has been onboarded	The bid evaluation process
Procurement of material & equipment and necessary installation work including design, erection, testing, and commissioning for Anowara to Anandabazar (New Mooring) 400 kV double circuit underground cable portion: approx. 5.253 km; Khulshi to Anandabazar, and Anandabazar, and Anandabazar to Rampur 230 kV double circuit underground cable line: approx. 26 km; and Madunaghat to Khulshi 230 kV double circuit underground cable line: approx. 16km.		by PGCB (PIE) for ESMP Implementation	of the relevant procurement package (Package 2) has been completed and the Notification of Award has been issued to the eligible bidder. The contract agreement is expected to be signed within Q1-2023.
Component 3: Procurement of material & equipment and necessary installation works including design, erection, testing, and commissioning for 230/132 kV GIS Substation: Anandabazar (New Mooring) with 2x350/450 MVA 230/132 kV transformer; 230/132/33 kV GIS Substation: Khulshi with 2x350/450	1%	The consultant has been onboarded by PGCB (PIE) for ESMP Implementation	The bidding process has been completed. The contract agreement for this package (package 3) has been signed in Q1 2022.



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MVA 230/132 kV		
and 3x80/120 MVA		
132/33 kV		
transformer; Two		
nos. 230 kV GIS bay		
extension at		
Madunaghat		
Substation, two		
nos. 230kV GIS bay		
extension at		
Khulshi Substation.		

Financial Management:

It is expected to receive the project's first audit report in 2023.

6. Status of the Grievance Redress Mechanism (GRM)

At the PGCB entity level, GRM is in place. Also, a project-level Grievance Redress Committee has been formed.

7. Results Monitoring (please refer to the full RMF, which can be found on the last page of this PIMR)

Project Outcome Indicators:

- 1. Capacity of power transmission added
- 2. Additional electricity transmitted annually
- 3. Daily load shedding in Chittagong

Project Output Indicators:

- 1. 400 kV transmission lines constructed
- 2. 230 kV transmission lines constructed
- 230 kV GIS substations constructed
- 4. 230 kV line bays constructed

Remarks:

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Project Implementation Monitoring Report (#5)

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		Unit of Measure	Cumula	ative Target Val	lues																					
Project Objective Indicators	Indicator level		Baseline		2017		2018		2019		2020		2021		2022		2023		2024		End Target			Frequency	Responsibility	Comments
			Year	Value	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Year	Target	Actual			
Capacity of power transmission added	Project	MVA	2018	0 (Baseline)			0 (Baseline)	-	-	-	-	-	-	-	-	-	-		-			1400		End of Project	PIE	
Additional electricity transmitted annually	Project	GWh	2018	0 (Baseline)			0 (Baseline)	-	-	-	-	-	-	-	-	-	-		-			2500		End of Project	PIE	
Daily Load Shedding in Chattogram	Project	%	2018	11.5 (Baseline)			11.5 (Baseline)	-	-	-	-	-	-	-	-	-	-		-			6		End of Project	PIE	

			Cumula	itive Target	t Values																					
	Indicator level	Unit of Measure	Baseline		2018		2019		2020		2021		2022		2023		2024		2025		End Target			Frequency	Responsibility	Comments
manators			Year	Value	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Year	Target	Actual	1		
400kV transmission line constructed	Project	Km	2018	0	0	0	-	0	-	0	-	0	-	0	15		20		27			27		Annually	PIE	
230 kV transmission line constructed	Project	Km	2018	0	0	0	-	0	-	0	-	0	-	0	-		12		19			19		Annually	PIE	
230 kV GIS substations constructed	Project	No.	2018	0	0	0	-	0	-	0	-	0	-	0	-		1		2			2		Annually	PIE	
230 kV line bays constructed	Project	No.	2018	0	0	0	-	0	-	0	-	0	-	0	-		1		2			2		Annually	PIE	