

India : West Bengal Electricity Distribution Grid Modernization Project

Project ID:	P000454	Instrument ID:	L0454A											
Member:	India	Region:	Southern Asia											
Sector:	Energy	Sub-sector:	Electricity transmission and distribution											
Instrument type:	⊠Loan:135.00 US Dollar million □Guarantee	Lead Co-financier(s):	World Bank											
ES category:	В	Borrowing Entity:	Ministry of Finance, India											
Implementing Entity:	Government of India	1	1											
Project Team Leader:	Pratyush Mishra													
Responsible DG:	Rajat Misra													
Responsible Department:	INF1													
Project Team Members:	Ting Wang, Alternate Counsel; Christopher Damandl, Project C Aditi Khosla, Alternate Counsel Guoping Yu, OSD - Procuremer Shodi Nazarov, OSD - Financial Parthapriya Ghosh, OSD - Envir	; ht Specialist; Management Specialist;	ent Specialist											
Completed Site Visits by AIIB:	Jun, 2022 First combined implementation Mar, 2023 World Bank mission	n support mission along witl	n the World Bank											
Planned Site Visits by AIIB:														
Current Red Flags Assigned:	0													
Current Monitoring Regime:	Regular Monitoring													
Previous Red Flags Assigned:	0													
Previous Red Flags Assigned Date:	2022/12													

2. Project Summary and Objectives

The objective of the project is to improve the operational efficiency and reliability of electricity supply in selected areas of West Bengal.

The project aims to modernize West Bengal's electricity distribution system by providing financial and technical support for investments in:

(i)High voltage distribution system, aerial bunched cabling, 33/11 kilovolt gas insulated substations and underground cables;

(ii)Smart consumer meters, deployment of distribution automation technologies and improving the existing commercial and enterprise information technology solutions; and

(iii) Technical assistance for institutional development and capacity building of West Bengal State Electricity



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Distribution Company Limited.

3. Key Dates

Approval:	Jan. 24, 2022	Signing:	Jan. 28, 2022
Effective:	Mar. 15, 2022	Restructured (if any):	
Orig. Closing:	Nov. 30, 2026	Rev. Closing (if any):	

4. Disbursement Summary (USD million)

Contract Awarded:		Cancellation (if any):	0.00
		Most recent	
Disbursed:	36.35	disbursement	2.63/Jul. 18, 2023
		(amount/date):	
Undisbursed:	98.65	Disbursement Ratio	26.02
Undisbursed:	98.05	(%) ¹ :	26.93

5. Project Implementation Update

Project implementation progress (including physical progress) is satisfactory, Procurement for most components is in advanced stages.

Components	Physical Progress	Environmental & Social Compliance	Procurement
High Voltage Distribution System (HVDS) works in the districts of Howrah, East Medinipur, Bankura, Purulia, Nadia, Murshidabad, Malda, North Dinajpur, South Dinajpur, Cooch Behar, Alipurduar,	Contracts for these works have been awarded over a period of nearly a year (between March 2021 February 2022). Physical progress till September 2022 varies at each location depending on the date of contract award, with earlier contracts having higher physical progress.	Impact on trees and crops: In most of the districts/ packages no tree cutting, and trimming are required. The agricultural land & crops are not likely to be affected. So far, no major issues have been observed during execution of work. Noise and dust: There are no major issues related to particulate matter (PM10 and PM2.5) and fugitive dust pollution has been observed. Emission of gaseous pollutant like SOX, NOX, and CO will not occur.	All 14 packages, in the districts of Howrah, Purba Medinipur, Bankura, Purulia, Alipurduar, Coochbehar, Uttar Dinajpur, Dakshin Dinajpur, Malda, Nadia, Murshidabad, Jalpaiguri and plain and hilly areas of Darjeeling & Kalimpong have been awarded.
plain areas of Darjeeling & Kalimpong and Jalpaiguri.	Howrah has the highest physical progress at 95%.	Sprinkling of water has been done during the excavation work when necessary to minimize dust pollution. Construction is being done in the daytime only. So far, no major issues have been observed during execution of work. Safety: The work has been executed so far with compliance of standard safety norms & protocol and	

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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		provision as per IE rules. PPE/ Safety equipment provided to the workers and utilised during execution. So far, no major issues have been observed during execution of work.	
Conversion of Overhead Cables to Underground in Rajarhat, Baguiati & Kestopur, Baruipur, Kharagpur, Asansol and Chandannagar	Contracts have been awarded over a period more than a year (April 2021 to June 2022). Physical progress ranges between 13% (Chandan Nagar) and 51% (Rajarhat).	As above	Procurement of 7 packages is completed. Bids for the remaining package have been invited for the Siliguri package.
15 GIS Substations in Howrah, East Medinipur, Bankura, Nadia, Murshidabad, Malda, North Dinajpur, South Dinajpur, Alipurduar, and Jalpaiguri	The progress at Alipurduar is 88%. Contracts for the other districts have been awarded in over a period of time with the most recent being in April 2023 and the progress is 3% in the recently awarded locations.	As above	All 10 packages have been awarded.
Implementation of Advanced Metering Infrastructure (AMI) in the form of smart meters	N/A	As Above	Tenders have been awarded in July 2023
Deployment of Supervisory Control and Data Acquisition System (SCADA)/Distributi on Management System (DMS)/ Outage Management System (OMS) in Alipurduar, Coochbehar, Jalpaiguri, Raiganj, Balurghat, Burdwan, Newtown, Baruipur	N/A	As Above	Bids for the package have been invited.

Financial Management:

The Project expenditure is pre-financed by the GoWB/WBSEDCL, and then reimbursement is sought from IBRD/AIIB. The Government has approved project budget for FY2023/24, equivalent to US\$63 million, which may need to be reassessed and increased considering the progress of the work. The backlog in funds flow to WBSEDCL has been cleared and further



funds provided by GoWB to create a buffer with WBSEDCL to meet the capital requirement for timely payment of contractor dues. Accounting and financial reporting are up to date, but WBSEDCL was advised to discontinue manual parallel records and use the SAP/ERP system. Internal audit of the Project has been carried out by a private audit firm up to September 2022. The external audit of project financial statements has been completed up to FY2021/22 and primary audit opinion is unqualified. WBSEDCL has proposed to appoint its statutory auditors as the Project auditors for FY2022/23, and the audited Project financial statements for FY2022/23 are due by December 31, 2023.

6. Status of the Grievance Redress Mechanism (GRM)

A 3-tiered Grievance Mechanism already exists in the WBSEDCL. To strengthen it to effectively address grievances related to ESMP implementation under the project, two additional bodies are namely a Project Steering Committee at the corporate level and District Grievance Redressal Committees at the district level for subprojects have been established.

7. Results Monitoring (please refer to the full RMF, which can be found on the last page of this PIMR)
Progress towards results indicators is satisfactory

Remarks:

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Project Implementation Monitoring Report (#2)

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			Cumula	tive Target \	/alues																			
Project Objective Indicators	Indicator level	Unit of Measure	Baseline	9	2020		2021		2022		2023		2024		2025		2026		End Targ	get		Frequency	Responsibility	Comments
indicators			Year	Value	Target	Actual	Year	Target	Actual															
Reduction in Aggregate Technical and Commercial (AT&C) losses in select districts - Bankura district	Project	Percent	2020	37.94	-	-	-	-	-	-	-		-		-		20		2026	20		Annual	WBSEDCL	
Reduction in Aggregate Technical and Commercial (AT&C) losses in select districts - Nadia district	Project	Percent	2020	26.22	-	-	-	-	-	-	1		-		-		18		2026	18		Annual	WBSEDCL	
Reduction in Aggregate Technical and Commercial (AT&C) losses in select districts - East Medinapur district	Project	Percent	2020	23.13	-	-	-	-	-	-	-		-		-		17.50		2026	17.50		Annual	WBSEDCL	
Reduction in Aggregate Technical & Commercial (AT&C) loss in select districts - Alipurduar district	Project	Percent	2020	20.41	-	-	-	-	-	-	-		-		-		16		2026	16		Annual	WBSEDCL	
Reduction in Aggregate Technical and Commercial (AT&C) losses in select districts - Dakshin Dinajpur district	Project	Percent	2020	42.75	-	-	-	-	-	-	-		-		-		20		2026	20		Annual	WBSEDCL	
Reduction in SAIDI (System Average Interruption Duration Index) in select towns - Asansol town	Project	Hours	2020	187.43	-	-	-	-	-	-	-		-		-		95		2026	95		Annual	WBSEDCL	
Reduction in SAIDI (System Average Interruption Duration Index) in select towns	Project	Hours	2020	249.78	-	-	-	-	-	-	-		-		-		125		2026	125		Annual	WBSEDCL	

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- Kharagpur town																			
Reduction in SAIFI (System Average Interruption Frequency Index) in select towns - Asansol town	Project	Number	2020	117.28	-	-	-	-	-	-	-	-	-	85	2026	85	Annual	WBSEDCL	
Reduction in SAIFI (System Average Interruption Frequency Index) in select towns - Kharagpur town	Project	Number	2020	114.92	-	-	-	-	-	-	-	-	1	80	2026	80	Annual	WBSEDCL	

			Cumulat	ive Target	Values																			
Project Intermediate Indicators	Indicator level	Unit of Measure	Baseline		2020		2021		2022		2023		2024		2025		2026		End Tar	get		Frequency	Responsibility	Comments
			Year	Value	Target	Actual	Target	Actual	Year	Target	Actual													
Distribution Lines constructed	Project	Km	2020	0	-	-	-	-	-	-	-		-		-		1,900		2026	1,900		Annual	WBSEDCL	
Increase in Distribution Transformation Capacity	Project	KVA	2020	0	-	-	-	-	-	-	-		-		-		85,300		2026	85,300		Annual	WBSEDCL	
Distribution lines retrofitted to reduce energy use	Project	Km	2020	0	-	-	-	-	-	-	-		-		-		12,100		2026	12,100		Annual	WBSEDCL	
Distribution lines moved under the ground to reduce exposure to storm and tree damage	Project	Km	2020	0	-	-	-	-	-	-	-		-		-		1,700		2026	1,700		Annual	WBSEDCL	
Consumers put on advanced metering infrastructure (AMI) meters (for efficient and reduced energy consumption)	Project	Number	2020	0	-	-	-	-	-	-	-		-		-		200,000		2026	200,000		Annual	WBSEDCL	

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Sub-stations integrated with SCADA system	Project	Number	2020	0	-	-	-	-	-	-	-	-	-	50	2026	50	Annual	WBSEDCL	
Person Days of Training Provided to WBSEDCL officials - Total	Project	Number	2020	0	-	-	-	-	-	-	-	-	-	5,000	2026	5,000	Annual	WBSEDCL	
Person-days of ICT/OT technical trainings/capacity building activities (females) in WBSEDCL	Project	Number	2020	0	-	-	-	-	-	-	-	-	-	1,000	2026	1,000	Annual	WBSEDCL	
Grievances received that are addressed within two months of receipt	Project	Percentage	2020	0	-	-	-	-	-	-	-	-	-	90	2026	90	Annual	WBSEDCL	
Percentage increase in total technical/ICT staff (females) in WBSEDCL	Project	Percentage	2020	0	-	-	-	-	-	-	-	-	-	7.5	2026	7.5	Annual	WBSEDCL	
Person-days of internship/ training for students in ICT/OT/ technical areas (females) provided by WBSEDCL	Project	Number	2020	0	-	-	-	-	-	-	-	-	-	10,000	2026	10,000	Annual	WBSEDCL	