



West Bengal Accelerated Development of Minor Irrigation Project - Phase II (P177876)

SOUTH ASIA | India | Water Global Practice |
IBRD/IDA | Investment Project Financing | FY 2023 | Seq No: 1 | ARCHIVED on 18-Sep-2023 | ISR57806 |

Implementing Agencies: DWRID, Government of West Bengal, India

Key Dates**Key Project Dates**

Bank Approval Date: 09-Jun-2023

Effectiveness Date: --

Planned Mid Term Review Date: 30-Sep-2025

Actual Mid-Term Review Date:

Original Closing Date: 29-Jun-2029

Revised Closing Date: 29-Jun-2029

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The PDO is to augment water availability and strengthen water user associations for improved irrigated agriculture in Project Areas of West Bengal.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

- A. Strengthening Community-based Institutions:(Cost \$14.00 M)
- B. Minor Irrigation Services:(Cost \$120.00 M)
- C. Agricultural Support Services:(Cost \$36.00 M)
- D. Project Management and Technical Support:(Cost \$41.00 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	--	<input type="checkbox"/> Satisfactory
Overall Implementation Progress (IP)	--	<input type="checkbox"/> Satisfactory
Overall Risk Rating	--	<input type="checkbox"/> Moderate

Implementation Status and Key Decisions

The project is not yet effective. However, contracts for about INR 180 crores are ready for implementation.



Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	☐ Low	--	☐ Low
Macroeconomic	☐ Moderate	--	☐ Moderate
Sector Strategies and Policies	☐ Low	--	☐ Low
Technical Design of Project or Program	☐ Moderate	--	☐ Moderate
Institutional Capacity for Implementation and Sustainability	☐ Substantial	--	☐ Substantial
Fiduciary	☐ Moderate	--	☐ Moderate
Environment and Social	☐ Moderate	--	☐ Moderate
Stakeholders	☐ Moderate	--	☐ Moderate
Other	--	--	--
Overall	☐ Moderate	--	☐ Moderate

Results

PDO Indicators by Objectives / Outcomes

Augment water availability and strengthen water user associations for improved irrigated agriculture				
▶ Water harnessed through new irrigation schemes (Cubic meters/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	120,000,000.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	This indicator relates to improved irrigation services newly established in Phase II and accounts for both rainfall runoff water harvesting and groundwater pumping from wells. This will represent improved water availability for both irrigation and fish and, hence, improved irrigation service delivery. The water storage capacity will be determined with respect to the total number of fillings of surface storage during a crop year. The groundwater harnessed will be estimated with respect to the amount of water pumped during a crop year.			
▶ Well performing WUAs operating and maintaining irrigation schemes successfully (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	60.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	This indicator measures the institutional strengthening and empowerment of WUAs. A well-performing WUA is one that provides improved irrigation service delivery for Rabi crops and fisheries. Using the WUA			



grading methodology, the WUAs with A and/or B will be considered as well performing. The WUAs from Phase I (2700) and Phase II (1100), totaling 3800 WUAs, will be targeted.

► Value-weighted index for agricultural outputs (fixed base price) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	90.00	--	90.00	150.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029

Comments: This indicator measures the effectiveness of the agriculture service delivery and is a composite indicator accounting for crop intensification, diversification to high-value crops, and productivity. The unit price of each commodity will be fixed at the base price so price inflation will not impact this indicator. This will be estimated as the ratio of composite value at baseline and post-implementation.

Production of oilseed (Metric tons/year, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1,500.00	--	1,500.00	17,000.00

Production of pulses (Metric tons/year, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	250.00	--	250.00	5,600.00

Production of fish (Metric tons/year, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	500.00	--	500.00	10,000.00

► Beneficiaries provided with improved irrigated agriculture and allied services (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	240,000.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029

Comments: This indicator measures direct beneficiaries of irrigation and agricultural services provided by the Project. The indicator accounts for 80,000 farm households benefiting from the new irrigation schemes and additional 150,000 households benefiting from agriculture, horticulture, and fisheries livelihood support activities.

of whom are small and marginal farmers (Percentage, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	85.00

of whom are farmers belonging to tribal communities (Percentage, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
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Value	0.00	--	0.00	11.00
□of whom are female farmers (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	20.00

Intermediate Results Indicators by Components

Component A: Strengthening community-based institutions				
▶Water user associations created/strengthened (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	3,800.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	The water user associations are the immediate outcome of strengthening community-based institutions of farmers which include support to existing as well as new WUAs. This indicator will account for all WUAs including existing ones from Phase I (2,700), and newly created ones under Phase II (1,100).			
▶Beneficiaries satisfied with the services (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	50.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	Measures accountability and governance of WUAs and project management support. This is measured through the satisfaction levels of beneficiary farmers, particularly with the new irrigation services.			
▶Water user association with women in leadership role (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	15.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	Measures the inclusion and equity aspects of WUAs strengthening in Phase II WUAs. The indicator measures women members occupying leadership positions within the executive committee of WUA. During Phase I, 7 percent of WUA leadership positions were held by women. The indicator will aim to improve this during Phase II in new WUAs (1,100 numbers).			
Component B: Minor irrigation services				
▶Area improved with new/improved irrigation services (Hectare(Ha), Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	30,000.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	<p>The indicator measures the impact of the Project in transforming rain-fed areas cultivated during a single crop season to irrigated cultivation with potentially multiple crop seasons. The indicator includes command areas of the new irrigation services established (19,000 ha) and an additional area of 11,000 ha developed during the last batches of schemes from Phase I. The transformation to irrigated cultivation happens not only through assured irrigation but also through the adoption of water management practices, utilization of assured solar pumping, support with production technologies, and marketing-related services. Farmers in drought-prone areas need time to convince themselves in taking the risk of additional crops, and this normally takes initially 2-3 years of continued work with farmers. Although the Project is aiming to establish new irrigation services for around 26,000 ha, this indicator would account for the areas showing impact during the Project period only.</p>			

► Farm lands improved with water management practices (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	10,000.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	<p>This indicator measures the convergence of agriculture support services within the command areas of schemes commissioned. The indicator will account for command areas served with improved water management practices including sprinklers, drip irrigation systems, vermicompost, irrigation scheduling supported by soil moisture measurement, or other agri-advisory support services.</p>			

► Area irrigated with green energy (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	10,000.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	<p>This indicator measures the effectiveness of using green/renewable (predominantly solar) energy for powering the irrigation schemes and serving the command area. This will be provided to both phase I and II schemes.</p>			

Component C: Agricultural support services

► Area diversified to high value crops (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	6,000.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	<p>This indicator measures the effectiveness of agriculture support services. The indicator will account for command areas cultivating newer crops than the traditional ones, including high-value crops like vegetables, flowers, fruits, and other horticulture crops. The command area that benefitted from phase I and II schemes will be considered.</p>			



► Area under plantation (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	2,500.00
Date	17-Jul-2023	--	08-Sep-2023	29-Jun-2029
Comments:	This indicator measures resilience efforts for catchment management and shifting from risky seasonal crops to tree and plantation crops as mitigation against climate uncertainties. The indicator will account for command areas brought under cultivation of mixed fruit plantation and other tree crops, especially on the fringes of WDS and other water harvesting structures and catchment areas.			

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P177876	IBRD-95430	Not Effective	USD	148.00	148.00	0.00	0.00	148.00	0%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P177876	IBRD-95430	Not Effective	09-Jun-2023	--	--	29-Jun-2029	29-Jun-2029

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.