



West Bengal Major Irrigation and Flood Management Project (P162679)

SOUTH ASIA | India | Water Global Practice |
IBRD/IDA | Investment Project Financing | FY 2020 | Seq No: 4 | ARCHIVED on 30-Sep-2021 | ISR47721 |

Implementing Agencies: Irrigation and Waterways Department of West Bengal, Republic of India

Key Dates**Key Project Dates**

Bank Approval Date: 10-Dec-2019

Effectiveness Date: 11-Aug-2020

Planned Mid Term Review Date: 01-Dec-2023

Actual Mid-Term Review Date:

Original Closing Date: 30-Nov-2025

Revised Closing Date: 30-Nov-2025

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objectives are to improve irrigation service delivery, strengthen flood risk management and improve climate change resilience in the Project area.

Improving irrigation services includes management reforms as pursued under Component A, and infrastructure modernization to reinforce the management improvements under Component B. Strengthening flood risk management is addressed under Component C. These improvements together will help improve the resilience of the Project area to climate change.

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

No

Components Table

Name

Component A: Irrigation Management:(Cost \$7.40 M)

Component B: Modernization of Irrigation Infrastructure:(Cost \$65.30 M)

Component C: Flood Management:(Cost \$66.10 M)

Component D: Project Management:(Cost \$5.80 M)

Overall Ratings

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

Implementation Status and Key Decisions

The Implementation Support Mission on which this status report is based was conducted from July 01 – 02, 2021 confirmed that the project implementation progress is assessed as MS, with progress in all aspects of project implementation.



Risks

Systematic Operations Risk-rating Tool

| Risk Category | Rating at Approval | Previous Rating | Current Rating |
|--|--------------------------------------|--------------------------------------|--------------------------------------|
| Political and Governance | <input type="checkbox"/> Moderate | <input type="checkbox"/> Moderate | <input type="checkbox"/> Moderate |
| Macroeconomic | <input type="checkbox"/> Low | <input type="checkbox"/> Low | <input type="checkbox"/> Low |
| Sector Strategies and Policies | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial |
| Technical Design of Project or Program | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial |
| Institutional Capacity for Implementation and Sustainability | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial |
| Fiduciary | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial |
| Environment and Social | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial |
| Stakeholders | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial |
| Other | -- | -- | -- |
| Overall | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial | <input type="checkbox"/> Substantial |

Results

PDO Indicators by Objectives / Outcomes

| To improve irrigation service delivery | | | | |
|--|--|-------------------|------------------|-------------|
| ▶ Area provided with new/improved irrigation or drainage services (Hectare(Ha), Corporate) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 0.00 | 376,448.00 |
| Date | 01-Jun-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | This indicator measures the total area of land provided with irrigation and drainage services under the project, including in (i) the area provided with new irrigation and drainage services, and (ii) the area provided with improved irrigation and drainage services, expressed in hectare (ha). | | | |
| □ Area provided with improved irrigation or drainage services (Hectare(Ha), Corporate Breakdown) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 0.00 | 376,448.00 |
| Date | 01-Jun-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |



| ► Compliance with agreed water delivery schedule of the ISPs' contract (Percentage, Custom) | | | | |
|--|---|-------------------|------------------|-------------|
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 0.00 | 90.00 |
| Date | 29-May-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | A water delivery schedule will be agreed as part of the annual contract. The M&E consultant will monitor the performance of the ISPs against the agreed delivery schedule. | | | |
| ► Compliance with irrigation water supply from Main Canal to Distributory Canal (Percentage, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 0.00 | 90.00 |
| Date | 29-May-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | IWD and the ISPs will sign annual bulk water delivery contracts that define the amount of water that will be delivered to the head of the Distributory canal. The M&E consultant will monitor the compliance with the contract. | | | |

| To strengthen flood risk management | | | | |
|---|--|-------------------|------------------|-------------|
| ► Rate of reduced flood depth at the monitoring points compared with equivalent flood depth from 2008-2017 (Percentage, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 0.00 | 30.00 |
| Date | 29-May-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | This indicator will measure how much percentage of inundation depth is reduced at the monitoring point compared with similar level of historical events from 1999-2017. The following historical data of depth by return level will be used as base for comparison: 0.76 to 0.9 m for range of 1.98 - 3.1 year return; 1.4 m for 9 year return; and 1.52 m for 20 year return. | | | |

| To improve climate change resilience | | | | |
|--|---|-------------------|------------------|---|
| ► Arrest in the rate of decline of groundwater levels in semi-critical blocks in each defined groundwater management area (Text, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0% | 0.00 | 0.00 | 50 percent in area south of Damodar River; 50 percent in area between Damodar and Hoogli rivers |
| Date | 30-Oct-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | The indicator will measure groundwater level at selected observation wells in each of two areas: i) south of Damodar River and ii) between Damoda and Hoogli rivers during the 5-week pre-monsoon period. The indicator will be considered achieved if the pre-monsoon groundwater level in at least 50 percent of the predefined observation wells in semi-critical blocks in each of the two areas is equal to or above the | | | |



| | | | | |
|---|---|-------------------|------------------|---|
| baseline groundwater level (normalized for trend and rainfall). The baseline groundwater level is the average of trend-corrected pre-monsoon water level in the observation wells over 2012–18. | | | | |
| ► No deterioration of groundwater level trends in safe blocks in each defined groundwater management area (Text, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0% | 0% | 0% | 100 percent in area south of Damodar River; 100 percent in area between Damodar and Hoogli rivers |
| Date | 30-Oct-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | The indicator will measure groundwater level at selected observation wells in each of two areas: i) south of Damodar River and ii) between Damodar and Hoogli rivers during the 5-week pre-monsoon period. The indicator will be considered achieved if the pre-monsoon groundwater level in 100 percent of the safe blocks shall not have a deteriorating trend. The baseline groundwater level is the average of trend-corrected pre-monsoon water level in the observation wells over 2012–18. | | | |

Intermediate Results Indicators by Components

| | | | | |
|--|---|-----------------------------|--|------------------|
| Component A: Irrigation Management | | | | |
| ► Three modules of MIS functional (Text, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | NONE | No module has been prepared | MIS application development activity have been executed based on the modules framed in the Project implementation Manual (PIM). Structure of the modules have been re-organized keeping in line with the Project Appraisal document (PAD). | Fully functional |
| Date | 01-Jun-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | The MIS with the following modules: administrative functions, irrigation operations and decision support system, and performance monitoring and irrigation efficiency evaluation, will be functional. | | | |
| ► Grievances registered related to delivery of project benefits that are resolved (Percentage, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 50.00 | 80.00 |
| Date | 01-Jun-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |



| | | | | |
|--|---|-------------------|---------------------|-------------|
| Comments: | Grievances will cover all aspects of project implementation, including, inter alia, grievances related to involuntary resettlement. The GRM will also include a pro-active element through which the PIU will seek comments from beneficiaries once a year, as well as establishing the systems for receiving and processing unsolicited comments/ complaints. | | | |
| <input type="checkbox"/> Of which females (Percentage, Custom Breakdown) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 0.00 | 0.00 | 30.00 | 35.00 |
| Date | 14-Dec-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| ▶ Asset Management Plan prepared (Yes/No, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | No | No | Yes | Yes |
| Date | 01-Jun-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | The Project will finance introduction of rational asset management, including establishment of a geo-tagged asset database, budget planning, development of maintenance standards, and reporting on these. The indicator will measure if asset management is prepared. | | | |
| ▶ Groundwater study completed to the satisfaction of the Bank (Text, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | Not yet started | Under preparation | Yet to be initiated | Completed |
| Date | 01-Jun-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | This indicator will monitor whether the groundwater study completed to the satisfaction of the Bank. | | | |
| ▶ Percentage of women engineers recruited by IWD (Percentage, Custom) | | | | |
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
| Value | 4.50 | 0.00 | 0.00 | 7.00 |
| Date | 25-Mar-2019 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | The indicator will measure the Project's addressing the gender gap identified during the Project preparation. The Project will increase the number of women engineers hired to 7 percent from the baseline of 4.5% by a) outreach activities targeting female students enrolled in STEM courses across local universities; b) gender-sensitive infrastructure in IWD premises such as separate toilets, adequate lighting, separate seating spaces, etc. and c) strengthened anti-sexual harassment cell. | | | |

Component B: Modernization of Irrigation Infrastructure

▶ Length of main canals modernized (Kilometers, Custom)

| | | | | |
|--|----------|-------------------|------------------|------------|
| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|--|----------|-------------------|------------------|------------|



| | | | | |
|-----------|--|-------------|-------------|-------------|
| Value | 0.00 | 0.00 | 0.00 | 166.90 |
| Date | 01-Jun-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | This indicator measures the length of the two main canals modernized, including installation of flapgates, repair of cross-regulators and selected lining. | | | |

Component C: Flood Management

► Length of river embankment rehabilitated (Kilometers, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-----------|--|-------------------|------------------|-------------|
| Value | 0.00 | 0.00 | 18.99 | 111.00 |
| Date | 01-Jun-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | This indicator will measure progress of rehabilitation work on the left and right banks of the Amta Channel and Mundeswari river by total length of completed works. | | | |

Component D: Project Management

► Number of Project monitoring reports submitted on time annually (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-----------|---|-------------------|------------------|-------------|
| Value | 0.00 | 0.00 | 0.00 | 4.00 |
| Date | 14-Dec-2018 | 11-Mar-2020 | 22-Jul-2021 | 30-Nov-2025 |
| Comments: | This indicator measure the number of Project monitoring reports submitted on time annually. | | | |

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

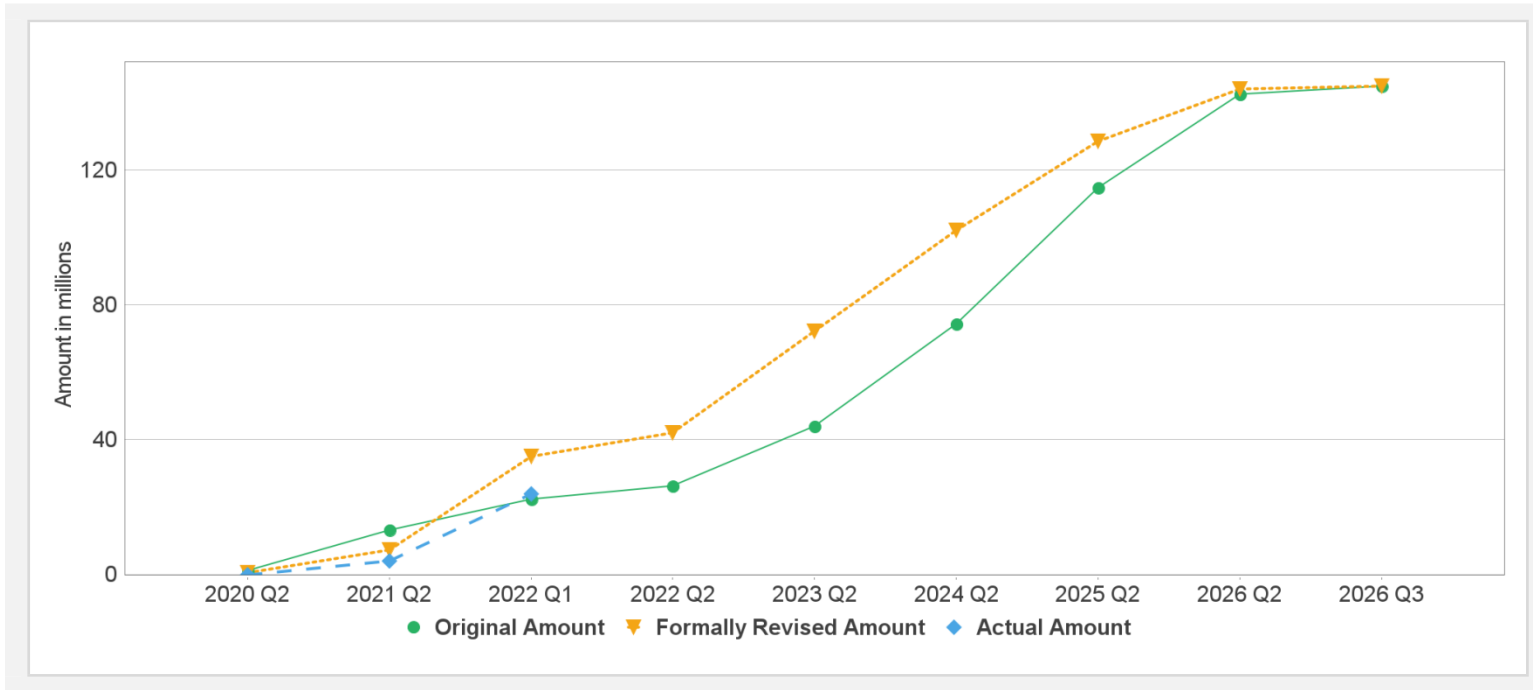
| Project | Loan/Credit/TF | Status | Currency | Original | Revised | Cancelled | Disbursed | Undisbursed | % Disbursed |
|---------|----------------|-----------|----------|----------|---------|-----------|-----------|-------------|-------------|
| P162679 | IBRD-90250 | Effective | USD | 145.00 | 145.00 | 0.00 | 24.31 | 120.69 | 17% |

Key Dates (by loan)

| Project | Loan/Credit/TF | Status | Approval Date | Signing Date | Effectiveness Date | Orig. Closing Date | Rev. Closing Date |
|---------|----------------|-----------|---------------|--------------|--------------------|--------------------|-------------------|
| P162679 | IBRD-90250 | Effective | 10-Dec-2019 | 15-May-2020 | 11-Aug-2020 | 30-Nov-2025 | 30-Nov-2025 |



Cumulative Disbursements



PBC Disbursement

| PBC ID | PBC Type | Description | Coc | PBC Amount | Achievement Status | Disbursed amount in Coc | Disbursement % for PBC |
|--------|----------|-------------|-----|------------|--------------------|-------------------------|------------------------|
|--------|----------|-------------|-----|------------|--------------------|-------------------------|------------------------|

Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.