



Tamil Nadu Irrigated Agriculture Modernization Project (P158522)

SOUTH ASIA | India | Agriculture and Food Global Practice |
IBRD/IDA | Investment Project Financing | FY 2018 | Seq No: 10 | ARCHIVED on 22-May-2023 | ISR54825 |

Implementing Agencies: India, Water Resources Department, Public Works Department, GoTN

Key Dates**Key Project Dates**

Bank Approval Date: 01-Dec-2017

Effectiveness Date: 23-Mar-2018

Planned Mid Term Review Date: 10-Mar-2021

Actual Mid-Term Review Date: 27-Sep-2021

Original Closing Date: 02-Jun-2025

Revised Closing Date: 02-Jun-2025

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective (PDO) is to enhance productivity and climate resilience of irrigated agriculture, improve water management, and increase market opportunities for farmers and agro-entrepreneurs in selected sub-basin areas of Tamil Nadu.

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

No

Components Table

Name

Component A: Irrigation and Water Management:(Cost \$352.80 M)

Component B: Agriculture Productivity Enhancement, Diversification, Improved Livelihoods, Marketing, and Value Addition:(Cost \$95.60 M)

Component C: Project Management Support:(Cost \$7.40 M)

Component Z: Contingency Response

Overall Ratings

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

Implementation Status and Key Decisions

The project continues to make acceptable progress in terms of physical targets, meeting most but falling short of just a few. Targets for the end of FY2023 have been achieved for seven of the eight PDO outcome indicators outlined in the project results framework. Of the 14 intermediate result indicators, FY2023 targets have been reached for eight, in half of which the Project team has been able to go far beyond and exceed final project targets. Shortfalls are within reach, but activity related to water user associations (WUA) – creation and strengthening – requires sustained oversight to ensure progress gets on course.

While the project continues to demonstrate progress in achieving physical targets, integration, sustainability and broad-based impact of interventions require special attention. Field-level data on fundamental elements of project interventions and their interconnectedness along a causal pathway are required in order to adequately analyze and assess the extent to which activities are leading to desired long-term outcomes.



Many of the reported numbers continue to be drawn from project-supported demonstrations plots rather than field-level data from the broader beneficiary pool, as already noted over the last few missions. Farmer adoption of improved technologies, and its impact on productivity, diversification, resource use efficiency and incomes, and the capacity and performance of WUAs, seed and bio villages, and farmer producer companies (FPC), are all areas that require strategic measurements and analysis to understand the effectiveness, coherence and sustainability of the results being achieved.

Progress in meeting disbursement targets, on the other hand, continues to lag. The project has disbursed US\$174.79 million or 55% of the total commitment amount of US\$318.0 million, but only disbursed just above a third (US\$ 16.25 million) of the FY2023 target of US \$45 million, following an equally low disbursing FY2022 (45.24%). Delays in administrative sanctions (AS) during the first half of FY2023 has been a major factor affecting the rate of project implementation and disbursements, in particular for the Water Resources Department leading the sizeable investments in Component A interventions. The Mission has highlighted the importance of boosting disbursement rates in line with planned project implementation.

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Improved Irrigation Systems				
► 1. Area provided with new/improved irrigation or drainage services (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	67,000.00	71,520.00	160,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025



Comments: This will be achieved in the proposed implementation in 4 Phases. Against the overall project area of 5.43 L Ha in Phase I 2.07 L Ha are expected to be provided with new/improved irrigation or drainage services

Increased Crop Productivity

► 2.A. Yields of agriculture crops (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	0.00
Date	27-Nov-2017	21-Apr-2022	19-Apr-2023	02-Jun-2025

□ i). Rice (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3,390.00	4,363.00	4,363.00	4,250.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

□ ii). Maize (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	4,943.00	7,770.00	7,770.00	6,200.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

□ iii). Pulses (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	520.00	963.00	963.00	600.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

► 2B. Yields of horticulture crops (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	0.00
Date	27-Nov-2017	21-Apr-2022	19-Apr-2023	02-Jun-2025

Comments: Harvest of Vegetables and TC Banana are yet to be started.

□ i). Vegetables (Brinjal, Bhendi & Tomato) (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	9.22	24.18	37.03	12.76



Date	27-Nov-2017	21-Apr-2022	19-Apr-2023	02-Jun-2025
□ii). Tissue Culture Banana (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	42.00	70.22	70.22	63.00
Date	27-Nov-2017	21-Apr-2022	19-Apr-2023	02-Jun-2025

Increased Area under Climate-Resilient

▶3. Area under climate-resilient technologies (SRI, resource-conserving technology, etc.) (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	77,029.00	99,673.00	75,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

▶4. Area under non-paddy crops (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	97,901.00	123,775.00	75,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

▶5. Share of selected commodities sold through new marketing channels (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	5.00	29.10	47.30	20.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

Number of Project Beneficiaries - Segregated by Gender

▶6.A. Project Beneficiaries (including female) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	836,373.00	916,606.00	500,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

▶6.B. Female Project Beneficiaries (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
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Value	0.00	237,331.00	291,350.00	225,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

Intermediate Results Indicators by Components

Component A: Irrigation and Water Management				
► 1. Staff trained in water resources planning and management, improved service delivery both within WRD & allied departments and agencies. (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2,093.00	2,340.00	1,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
► 2. Sub-basin development plans jointly prepared, agreed and under Implementation by multiple agencies. (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	47.00	47.00	66.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
► 3. Tank irrigation systems modernized (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	59.00	2,212.00	2,264.00	4,800.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
► 4. Staffing and operationalizing PIM Wing in E-in-C office and regional offices (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	13.00	24.00	24.00	24.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
► 5. Operational water users' associations created and/or strengthened (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	4,632.00
Date	27-Nov-2017	21-Sep-2022	21-Sep-2022	02-Jun-2025



Comments:	Activity to take place after the PIM Cell becomes operational.			
<input type="checkbox"/> 5.A. Operational water users' associations created (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	522.00	618.00	3,200.00
<input type="checkbox"/> 5.B. i. WUAs undertaking OFD works (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	25.00
<input type="checkbox"/> 5.B. ii. WUAs conducting rotational water supply or utilizing other water management practice (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	500.00
<input checked="" type="checkbox"/> 6. Multi-sectoral convergence and vision building trainings, with officers etc. and community involvement on a single platform. (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	59.00	63.00	132.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
<input checked="" type="checkbox"/> 7. Area under micro irrigation (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10,737.00	12,248.00	12,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
Component B: Agriculture Productivity Enhancement, Diversification, Improved Livelihoods, Marketing, and Value Addition				
<input checked="" type="checkbox"/> 8. Area under improved agronomic practices (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	139,894.00	177,745.00	100,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
<input checked="" type="checkbox"/> 9. Area covered by IPM/INM/Organic farming. (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	22,815.00	30,508.00	8,000.00



Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
► 10. Increase in milk productivity by dairy cow (Liter, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	5.00	5.40	5.50	6.25
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
► 11. Production of heifer calves (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	91,645.00	125,701.00	160,000.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
► 12. Area under improved fish production (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	26,396.00	26,396.00	25,100.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025
► 13. Number of FPOs formed and strengthened (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	81.00	107.00	120.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

Component C: Project Management Support

► 14. MDPU adequately staffed and functioning effectively (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	27.00	74.00	49.00	55.00
Date	27-Nov-2017	21-Sep-2022	19-Apr-2023	02-Jun-2025

Performance-Based Conditions

Data on Financial Performance



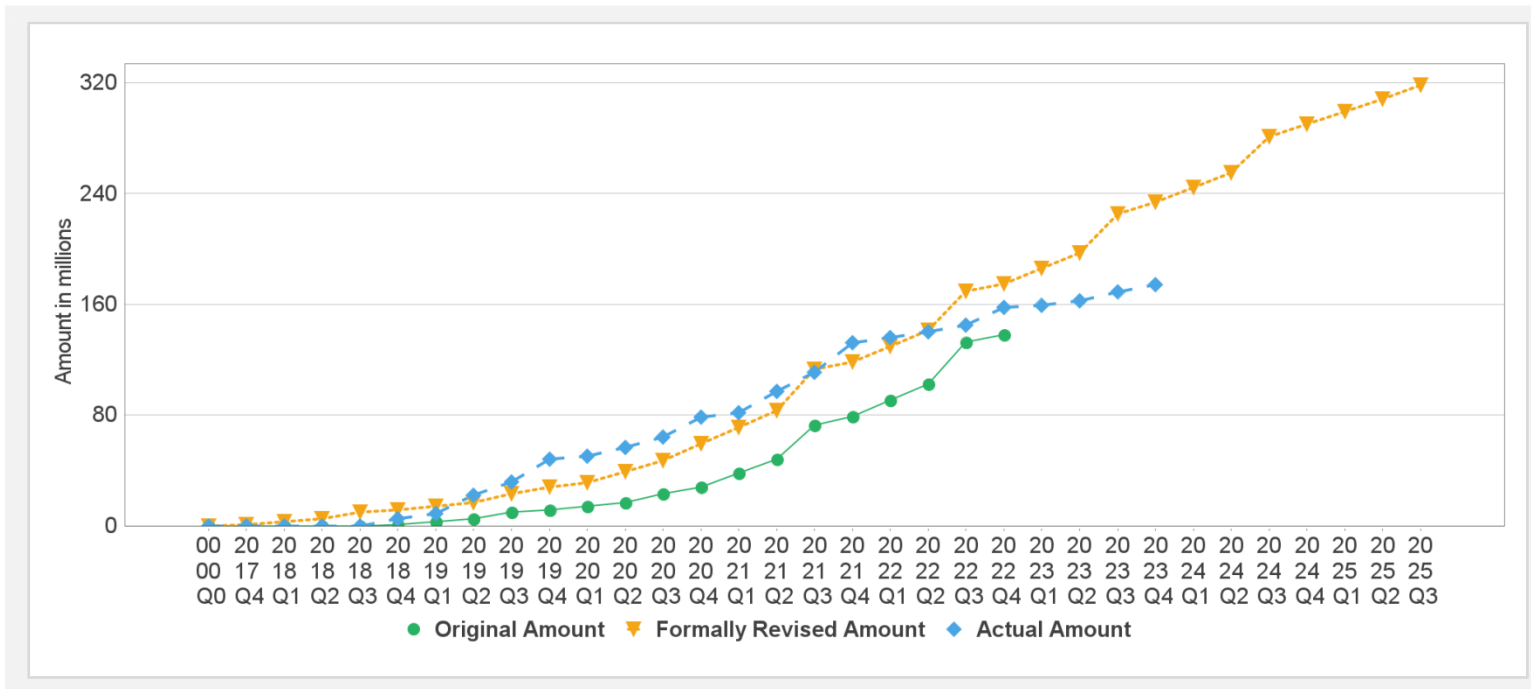
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P158522	IBRD-87970	Effective	USD	318.00	318.00	0.00	174.91	143.09	55%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P158522	IBRD-87970	Effective	01-Dec-2017	26-Dec-2017	23-Mar-2018	02-Jun-2025	02-Jun-2025

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.