



Saramacca Canal System Rehabilitation Project (P165973)

LATIN AMERICA AND CARIBBEAN | Suriname | IBRD/IDA | Investment Project Financing (IPF) | FY 2019 | Seq No: 11 |
Archived on 03-Sep-2024 | ISR00914

Implementing Agencies: Ministry of Public Works, Transport and Communication (MoPWTC)

1. OBJECTIVE

1.1 Development Objective

Original Development Objective (Approved as part of Approval package on 13-Feb-2019)

(i) reduce flood risk for the people and assets in the Greater Paramaribo Area and improve the operation of the Saramacca Canal System; and (ii) provide immediate and effective response to an Eligible Emergency.

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

No

2. COMPONENTS

Name

Improving the Drainage Infrastructure:(Cost 28,090,000.00)

Strengthening the Saramacca Canal System:(Cost 3,000,000.00)

Providing a Contingent Emergency Response:(Cost 410,000.00)

Supporting Project Management and Implementation:(Cost 3,500,000.00)

3. OVERALL RATINGS

Name	Previous	Current
Progress towards achievement of PDO	● Moderately Satisfactory	● Moderately Satisfactory
Overall Implementation Progress (IP)	● Satisfactory	● Satisfactory
Overall Risk Rating	● Moderate	● Moderate

4. KEY ISSUES & STATUS



4.1 Implementation Status and Key Decisions

The loan amount is US\$35.0 million, of which US\$12.98 million (37 percent) has been disbursed, and an additional \$US11.3 million civil works contract for the Doorsteek Sluice-Lock Complex Rehabilitation was awarded on June 3, 2024. Progress towards achievement of the Project Development Objective (PDO) is rated Moderately Satisfactory, and overall implementation progress is rated Satisfactory. The status of the PDO-level indicators is as follows:

1. Number of people benefitting from reduced flood risk for a 10-year return period: 42,000 (end target: 57,000). The target is expected to be achieved through completion of the pumping station at the western outlet of the Saramacca Canal (Uitkijk).
2. Introduction of a risk-based maintenance system for the drainage of the Saramacca Canal System: upon completion of the Doorsteek Sluice-Lock Complex Rehabilitation works this target will be achieved.
3. Increased flood forecast lead time for the Saramacca Canal System: upon completion of (i) the Doorsteek Sluice-Lock Complex Rehabilitation works and updated guidelines, and (ii) operational procedures for managing flood control and navigation of the Saramacca Canal drainage system (completed), this indicator will be achieved.
4. Client's capacity to withstand an emergency has been strengthened (within one month of the occurrence of an emergency): this indicator (related to the Contingent Emergency Response Component) has been achieved.

Project restructuring. The Project was restructured on July 8, 2024 to: (i) finance the installation of a pumping station at the western outlet of the Saramacca Canal (which was found, at the MTR, to more effectively contribute to the PDO than the intervention originally included in the Project design); (ii) extend the Project closing date to October 31, 2026; (iii) and adjust the Results Framework accordingly. The specific changes are as follows:

- Only the ship lock and the sluice gates at the Canal's eastern outlet (Doorsteek) to the Suriname River will be rehabilitated under the Project. The pilots intended to be implemented under sub-component 1.2 have been dropped (as per a Government request letter dated June 24, 2024), and replaced by construction of a pumping station at Uitkijk (the Canal's western outlet to the Saramacca River).
- The Results Framework was adjusted accordingly, including addition of the World Bank Group Scorecard indicator on people with enhanced resilience to climate risks, and adjusting the end target dates of indicators.
- The Project closing date has been extended from December 31, 2024, to October 31, 2026.

Overall Implementation Progress.

- *Subcomponent 1.1:* a major civil works contract is underway for Saramacca Canal Maintenance (US\$ 2.52 million, or 7.2 percent of the loan). The civil works contract for the rehabilitation of Doorsteek ship lock and discharge sluices (US\$ 11.3 million, or 32 percent of the loan) was awarded on June 3, 2024.
- *Subcomponent 1.2:* development of interventions for selected localities (Paramaribo Centre, Winti Wai /Belfima/Rahemal, and Creola) has been completed.
- *Subcomponent 2.1:* The Greater Paramaribo Drainage Masterplan has been developed and submitted to the Project Committee.
- *Subcomponents 2.2 (Saramacca Canal asset management platform) and 2.3 (feasibility study for a water management platform)* are being designed in parallel to the findings from Subcomponent 2.1.
- *Component 3 (Contingent Emergency Response)* was successfully implemented in response to the COVID-19 pandemic.

5. SYSTEMATIC OPERATIONS RISK-RATING TOOL



Risk Category	Rating at Approval Approval Package - 14 Feb 2019	Last Approved Rating ISR Seq. 010 - 09 Feb 2024	Proposed Rating
Political and Governance	● Substantial	● Substantial	● Substantial
Macroeconomic	● Substantial	● Substantial	● Substantial
Sector Strategies and Policies	● Moderate	● Moderate	● Moderate
Technical Design of Project or Program	● Moderate	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	● High	● Substantial	● Substantial
Fiduciary	● High	● Substantial	● Substantial
Environment and Social	● Substantial	● Moderate	● Moderate
Stakeholders	● Moderate	● Moderate	● Moderate
Overall	● Substantial	● Moderate	● Moderate



6. RESULTS

6.1 PDO Indicators by PDO Outcomes

Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Number of people benefitting from reduced flood risk for a 10-year return period. (Number)			0.00	05-Feb-2024				
Number of female beneficiaries benefitting from reduced flood risk for a 10-year return period. (Percentage)			0.00					
Reduce flood risk for the people living in the Greater Paramaribo area								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
People with enhanced resilience to climate risks (Number of people)	0	Feb/2019	42,000	11-Jun-2024			57,000	Oct/2026
	Comments on achieving targets		The target is expected to be achieved through completion of the pumping station at Uitkijk.					
People with enhanced resilience to climate risks – Youth (Number of people)	0	Feb/2019	10,500	11-Jun-2024			14,000	Oct/2026



People with enhanced resilience to climate risks – Female (Number of people)	0	Feb/2019	21,000	11-Jun-2024			28,000	Oct/2026
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Improve the operation of the Saramacca Canal System for flood risk management and navigation

Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Introduction of a risk-based maintenance system for the drainage of the Saramacca Canal System (Yes/No)	No	Feb/2019	No	06-Jun-2024			Yes	Oct/2026
	Comments on achieving targets		Upon completion of the Doorsteek Sluice-Lock Rehabilitation works this target will be achieved.					
Increased flood forecast lead time for the Saramacca Canal System (Hours)	12.00	Feb/2019	12.00	06-Jun-2024			4.00	Oct/2026
	Comments on achieving targets		Upon completion of the Doorsteek Sluice-Lock Rehabilitation works and updated guidelines and operational procedures for managing flood control and navigation of the Saramacca Canal drainage system (Completed), this indicator will be achieved.					

Provide immediate and effective response to an Eligible Emergency

Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Client's capacity to withstand an emergency has been strengthened within one month after emergency occurrence (Yes/No)	No	Mar/2020	Yes	23-May-2022			Yes	Dec/2024
	Comments on achieving targets		This indicator confirms whether the Government's capacity has been strengthened by the project, through triggering of the Contingent Emergency Response Component, within one month after the occurrence of an eligible emergency.					

6.2 Intermediate Results Indicators by Components

Not Categorized



Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Interventions for the selected pilot works to improve localized drainage completed (Yes/No)			No	05-Feb-2024				
Improving the Drainage Infrastructure								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Engineering design completed for the works for the improved capacity of the Saramacca Canal to discharge water into the Suriname and Saramacca Rivers (Yes/No)	No	Feb/2019	Yes	17-Nov-2022			Yes	Dec/2024
	Comments on achieving targets		This indicator has been met.					
Improved capacity of the Saramacca Canal to discharge water into the Suriname River (Percentage)	38.00	Jul/2018	38.00	14-Jun-2023			100.00	Oct/2026
Improved functioning of the Saramacca Canal for navigation (Hours)	2.00	Jul/2018	2.00	06-Jun-2024			12.00	Oct/2026
	Comments on achieving targets		Upon completion of the Saramacca Canal Maintenance works and Doorsteek sluice-lock complex rehabilitation works, this indicator will be met.					
Area with increased drainage capacity for a 10-year return period (Square kilometer(km2))	0.00	Jul/2018	50.00	06-Jun-2024			70.00	Oct/2026
	Comments on achieving targets		Upon completion of the Doorsteek sluice-lock complex rehabilitation works, this indicator will be met.					
Number of engaging information events on the implementation of the	0.00	Feb/2019	9.00	14-Jun-2023			5.00	Dec/2024
	Comments on achieving targets		This indicator has been exceeded.					



activities to improve the Saramacca Canal conveyance (Number)			The preparation of the events and campaigns has considered venues, timing, and discussion dynamics that effectively enable the participation of both women and men. Given the ample diversity of Suriname’s citizens’ origin, the approach is also mindful of the needed adjustments to encourage participation from all backgrounds.					
Number of beneficiaries consulted on the proposed project designs, associated environmental and social impacts, and envisaged mitigation measures (Number)	0.00	Sep/2018	200.00	17-Nov-2022			200.00	Dec/2023
	Comments on achieving targets		This indicator has been met. The preparation of the events and campaigns considered venues, timing, and discussion dynamics that effectively enable the participation of both women and men. Given the ample diversity of Suriname’s citizens’ origin, the approach is also mindful of the needed adjustments to encourage participation from all backgrounds.					
Number of female beneficiaries consulted on the proposed project designs (Percentage)			50.00					
Secondary and Tertiary canal system baseline and prioritization for pilot works developed (Yes/No)	No	Feb/2019	Yes	17-Nov-2022			Yes	Dec/2024
	Comments on achieving targets		Three pilot areas have already been selected. This indicator has been met.					
Strengthening the Saramacca Canal System								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Updated guidelines and operational procedures for managing flood control and navigation of the Saramacca Canal drainage system (Yes/No)	No	Feb/2019	Yes	17-Nov-2022			Yes	Dec/2024
	Comments on achieving targets		These have been developed under the Masterplan activity.					

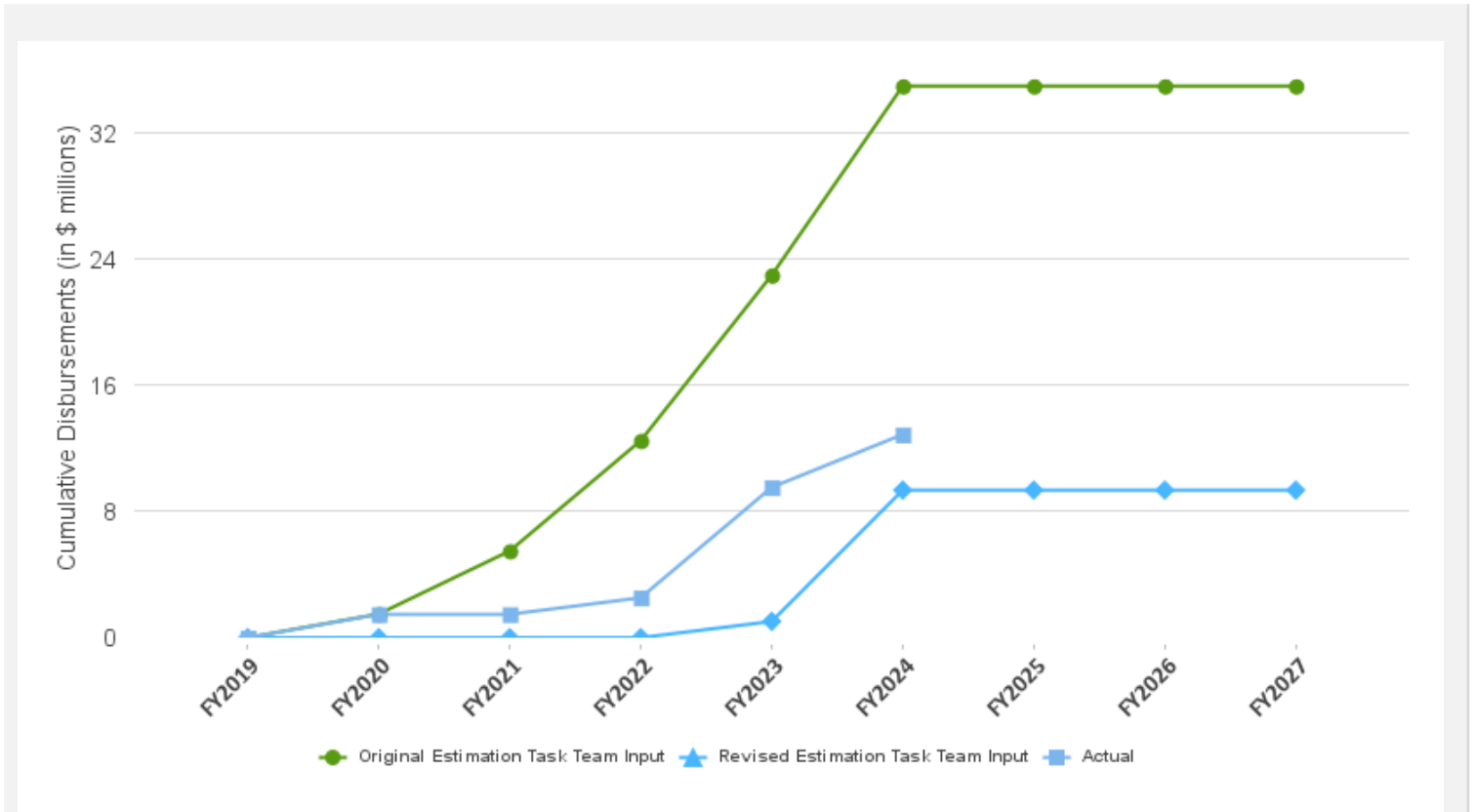


Endorsement of the feasibility study toward the establishment of a Saramacca Canal System management platform (or similar mechanism responsible) for the system sustainability (Yes/No)	No	Jul/2018	No	05-Feb-2024		Yes	Dec/2024	
	Comments on achieving targets		Feasibility study toward the establishment of a Saramacca Canal System management platform (or similar mechanism) for the system sustainability.					
Providing a Contingent Emergency Response								
Indicator Name	Baseline		Actual (Previous)		Actual (Current)		Closing Period	
	Value	Month/Year	Value	Date	Value	Date	Value	Month/Year
Number of hospitals supplied with protective gear to fight against the COVID19 pandemics (Number)	0.00	Mar/2020	13.00	23-May-2022			13.00	Dec/2024
	Comments on achieving targets		The indicator measured the number of hospitals in Suriname that were supplied with personal protective equipment (PPE) to effectively respond to the COVID19 pandemic.					



7. DATA ON FINANCIAL PERFORMANCE

7.1 Cumulative Disbursements



7.2 Disbursements (by loan)

Loan/Credit/TF	Status	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
IBRD-89240	Effective	35.00	35.00	0.00	12.98	22.02	37.09%

7.3 Key Dates (by loan)

Loan/Credit/TF	Status	Approval	Signing	Effectiveness	Orig. Closing	Rev. Closing
IBRD-89240	Effective	14-Feb-2019	11-Apr-2019	11-Jul-2019	31-Dec-2024	31-Oct-2026

8. KEY DATES



Key Events	Planned	Actual
Approval	14-Feb-2019	14-Feb-2019
Effectiveness	12-Apr-2019	11-Jul-2019
Mid-Term Review No. 01	04-Sep-2023	17-Nov-2023
Operation Closing/Cancellation	31-Dec-2024	31-Oct-2026

9. RESTRUCTURING HISTORY

Restructuring Level 2 Approved on 04-Aug-2020

Restructuring Level 2 Approved on 28-Jun-2024

10. ASSOCIATED OPERATION(S)

There are no associated operations