



Sindh Water and Agriculture Transformation Project (SWAT) (P167596)

SOUTH ASIA | Pakistan | Water Global Practice |
IBRD/IDA | Investment Project Financing | FY 2023 | Seq No: 1 | ARCHIVED on 30-Mar-2023 | ISR55520 |

Implementing Agencies: Islamic Republic of Pakistan, Province of Sindh

Key Dates**Key Project Dates**

Bank Approval Date: 19-Dec-2022

Effectiveness Date: 10-Jan-2023

Planned Mid Term Review Date: --

Actual Mid-Term Review Date:

Original Closing Date: 31-Dec-2028

Revised Closing Date: 31-Dec-2028

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

To increase agricultural water productivity in Selected Farmers' Organization command areas, improve integrated water resources management, and contribute to restoring crop production by small and medium-sized farmers affected by the 2022 floods.

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

No

Components Table

Name

Component 1: Water Resources Management:(Cost \$17.00 M)
Component 2: Water Service Delivery:(Cost \$128.10 M)
Component 3: Targeted Agricultural Incentives and Investments:(Cost \$65.50 M)
Component 4: Project Coordination and Monitoring:(Cost \$11.40 M)
Component 5: Agricultural Flood Emergency Rehabilitation:(Cost \$98.00 M)
Component 6: Contingent Emergency Response

Overall Ratings

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

Implementation Status and Key Decisions

The Project was declared effective by the World Bank on January 10, 2023. Payments to small farmers under the "Flood Emergency Response Component" commenced in March 2023 are expected to continue throughout 2023. Early stages of Project implementation are proceeding smoothly, and the procurement of key consultancies to support implementation has been initiated.



Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Increased agricultural water productivity in targeted FO command areas				
► FO subprojects in which agricultural surface water productivity increases by at least 20 percent (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	12.00
Date	01-Oct-2022	--	21-Mar-2023	29-Dec-2028
Comments:	Subproject assessment reports will evaluate the change in agricultural surface water productivity (crop revenue divided by total volume of surface water supplied in PKR/m3) attributable to the project.			
► Acres of water thrifty crops supported through the smart subsidy scheme (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	80,000.00
Date	01-Oct-2022	--	21-Mar-2023	29-Dec-2028
Comments:	The smart subsidy program design will specify the procedure for tracking and criteria for inclusion in the program.			



Improved institutional framework for water resources management in Sindh province				
► FO subprojects where the AWB delivers the agreed upon water volumes in compliance with FO-AWB Water Service agreements (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	12.00
Date	01-Oct-2022	--	21-Mar-2023	29-Dec-2028
Comments:	SIDA will evaluate AWB compliance with the AWB-FO service agreement.			
► Sindh Strategic Water Plan approved by the Sindh Water Resources Commission (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2028
Comments:	The Plan is approved by the Sindh Water Resources Commission.			

Facilitate the recovery of small farmers from the 2022 floods				
► Farmers who receive cash transfers and resume agricultural production in 2023 (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	800,000.00
Date	01-Oct-2022	--	21-Mar-2023	17-Apr-2023
Comments:	Farmers affected by the 2022 floods will receive cash transfers in line with the FERC manual.			

Intermediate Results Indicators by Components

Water Resources Management				
► Draft water bill submitted to Sindh Provincial Assembly by the Sindh Law and Parliamentary Affairs Department (Yes/No, Custom, PBC)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2027
Comments:	The Sindh Law and Parliamentary Affairs Department submits a draft water resources bill for consideration by the Sindh Provincial Assembly that replaces the Irrigation Act (1879) and the Sindh			



Water Management Ordinance (2002) to create a unified legal framework for IWRM and irrigation services.				
► Irrigation Department Transformed into Irrigation and Water Resources Department (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2028
Comments:	Transformation will be indicated by successful implementation of the transformation plan.			
► Functional Hydro-Agro Informatics Program established (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	29-Dec-2028
Comments:	An operational program will offer the following three core services: (i) Flow and Irrigation Service Monitoring Reports, (ii) Crop Monitoring Reports and (iii) Agricultural Water Productivity Reports.			

Water Service Delivery				
► Water pricing reform study completed and Abiana rates increased by the Sindh Irrigation Department (Yes/No, Custom, PBC)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2026
Comments:	The Sindh Irrigation Department undertakes a water pricing reform study, and increases Abiana rates after due consideration of study recommendations.			
► Preparation studies for Right Bank investments completed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2027
Comments:	SIDA prepares engineering design studies at level sufficient for tendering along with ESIA and RAP/CAPs for the renovation of the Rice, Dadu, and Northwest Canals in line with WB Policy requirements 4.01 and 4.12 and the project's RPF.			
► Akram Wah Canal physical works completed (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	100.00



Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2028
Comments:	Percent of physical works completion measured by contract payments.			
► Groundwater actively managed in conjunction with surface water supplies in at least 2 pilot FOs (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	29-Dec-2028
Comments:	A conjunctive management plan will be developed by pilot FOs based on data from the HAI program. SIDA will evaluate the if the plan is actively implemented and provide a final public report on lessons learned for each pilot.			

Targeted Agricultural Incentives and Investment				
► Sindh Food Department Wheat Strategic Reserve Monitoring System functional (Yes/No, Custom, PBC)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	29-Dec-2028
Comments:	The SFD puts in place a wheat market monitoring system to increase transparency and predictability, and publishes an annual report based on said system for at least two years in a row.			
► New policy on Sindh agriculture research and extension adopted by the Sindh Cabinet (Yes/No, Custom, PBC)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2026
Comments:	The Sindh Cabinet adopts a program that: (i) increases the provincial budget for agriculture and livestock research as a percentage of Sindh agriculture GDP; and (ii) establishes an autonomous SARB with representatives from government, academia, private sector, and farmers to plan, allocate funds, and monitor the provincial R&E system.			
► Sindh Crop and Market Monitoring System Improved (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	13-Apr-2029
Comments:	The PMC shall evaluate implementation of crop reporting and price monitoring action plans to be prepared under the project.			
► Waterlogging and Salinity management capacity strengthened (Yes/No, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2028
Comments:	The project will support applied research activities and rehabilitation of water logging and research labs .			
<input type="checkbox"/> Acres of applied research activities (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	520.00
<input type="checkbox"/> Labs rehabilitated (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	10.00	6.00
<input checked="" type="checkbox"/> Farmers and agricultural small and medium enterprises supported to enhance value chain for high value water thrifty crops (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	2,100.00
Date	01-Oct-2022	--	21-Mar-2023	13-Apr-2029
Comments:	Small- and medium-sized farmers and agribusinesses will be supported through grants with preference given to those located in FO subprojects.			
<input checked="" type="checkbox"/> Farmers trained (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	80,000.00
Date	01-Oct-2022	--	21-Mar-2023	13-Apr-2029
Comments:	The project will provide training to male and female farmers in climate smart agriculture, value chain development, and waterlogged and salinity management.			
<input type="checkbox"/> of which female (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	10,500.00
Date	01-Oct-2022	--	21-Mar-2023	13-Apr-2029
<input checked="" type="checkbox"/> Agriculture Extension offices rehabilitated (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	15.00



Date	01-Oct-2022	--	21-Mar-2023	30-Jun-2026
Comments:	Rehabilitate facilities/ offices must be critical to the project and affected by the 2022 floods.			

Cross-Cutting				
► Acres supported with improved on-farm water management measures (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	110,000.00
Date	01-Oct-2022	--	21-Mar-2023	13-Apr-2029
Comments:	All land in a WCA is counted if: (i) flows are recorded at the corresponding FO's command area inlet (ii) flows are recorded at each WCA inlet in the FO and (iii) at least 50 percent of the WCA area has on-farm water management improvements.			
► Farmers satisfied with development/implementation of Area Development Plan (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	70.00
Date	01-Oct-2022	--	21-Mar-2023	29-Dec-2028
Comments:	Independent surveys will assess farmer satisfaction (disaggregated by gender) with the development or implementation of the FO Area Development Plan.			
► Representation of women in leadership increased in agriculture and water resources management organizations (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	No	Yes
Date	01-Oct-2022	--	21-Mar-2023	29-Dec-2028
Comments:	Women's leadership positions will be in compliance with the SWMO amendment 2021.			
□ Target FOs with at least two women on the board (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	80.00
□ Target WCAs with at least two women on the board (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	80.00
□ Target AWBs with at least two women on the board (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	--	0.00	100.00
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Performance-Based Conditions

▶PBC 1 Draft water bill submitted to Sindh Provincial Assembly by the Sindh Law and Parliamentary Affairs Department (Yes/No, Process, 5,000,000.00, 1.71%)				
	Baseline	Actual (Previous)	Actual (Current)	End Target Date
Value	No	--	No	--
Date	--	--	21-Mar-2023	--

▶PBC 2 Water pricing reform study completed and Abiana rates increased by the Sindh Irrigation Department (Yes/No, Output, 5,000,000.00, 1.71%)				
	Baseline	Actual (Previous)	Actual (Current)	End Target Date
Value	No	--	No	--
Date	--	--	21-Mar-2023	--

▶PBC 3 Sindh Food Department Wheat Strategic Reserve Monitoring System functional (Yes/No, Intermediate Outcome, 5,000,000.00, 1.71%)				
	Baseline	Actual (Previous)	Actual (Current)	End Target Date
Value	No	--	No	--
Date	--	--	21-Mar-2023	--

▶PBC 4 New policy on Sindh agriculture research and extension adopted by the Sindh Cabinet (Yes/No, Output, 5,000,000.00, 1.71%)				
	Baseline	Actual (Previous)	Actual (Current)	End Target Date
Value	No	--	No	--
Date	--	--	21-Mar-2023	--



Data on Financial Performance

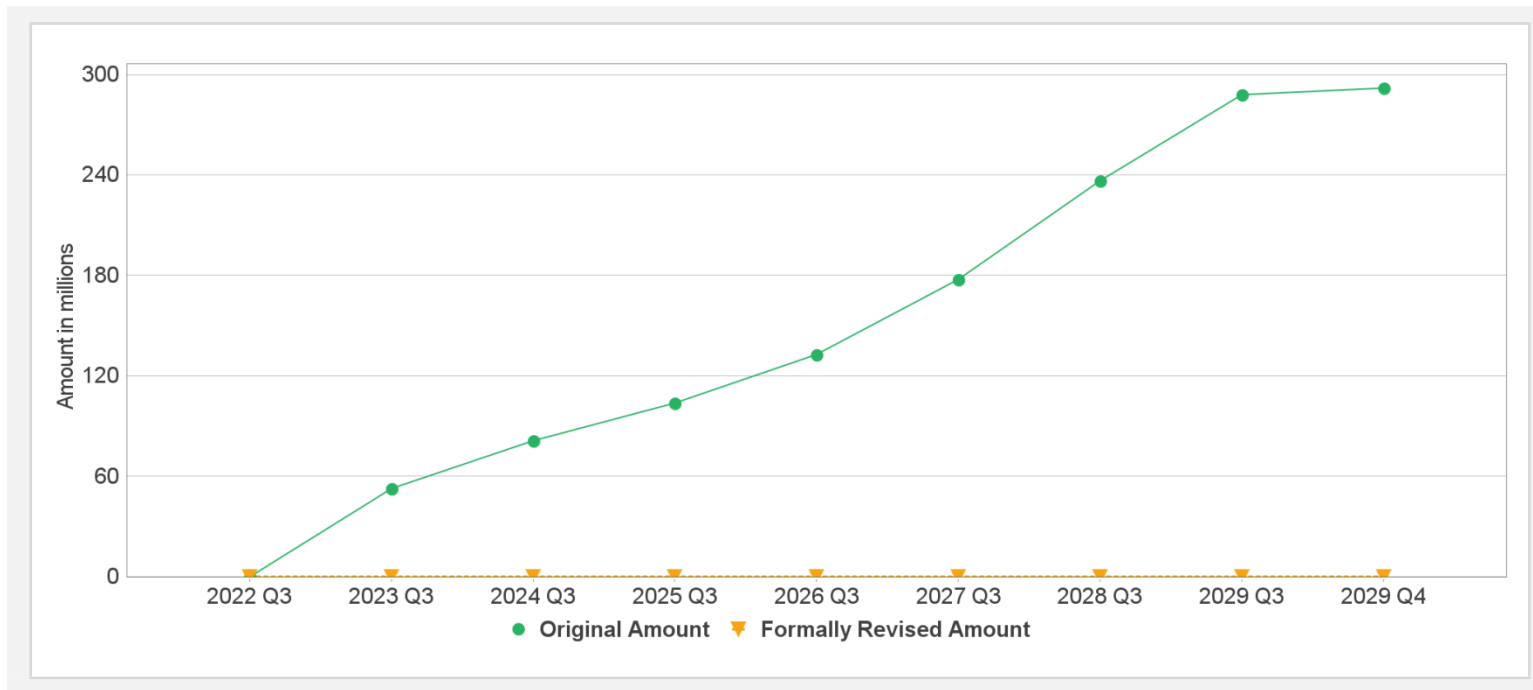
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P167596	IDA-72540	Effective	USD	98.00	98.00	0.00	0.00	103.08	0%
P167596	IDA-72550	Effective	USD	194.00	194.00	0.00	0.49	193.52	0.3%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P167596	IDA-72540	Effective	19-Dec-2022	06-Jan-2023	10-Jan-2023	31-Dec-2028	31-Dec-2028
P167596	IDA-72550	Effective	19-Dec-2022	06-Jan-2023	10-Jan-2023	31-Dec-2028	31-Dec-2028

Cumulative Disbursements





Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.
