



PK Sindh Irrigated Agriculture Productivity Enhancement Project (P145813)

SOUTH ASIA | Pakistan | Agriculture and Food Global Practice |
IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 14 | ARCHIVED on 17-Feb-2022 | ISR48301 |

Implementing Agencies: The Islamic Republic of Pakistan, Agriculture Department

Key Dates

Key Project Dates

Bank Approval Date: 20-Mar-2015

Effectiveness Date: 21-Aug-2015

Planned Mid Term Review Date: 03-Dec-2018

Actual Mid-Term Review Date: 29-Apr-2019

Original Closing Date: 31-Dec-2021

Revised Closing Date: 31-Dec-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The objective of the Project is to improve irrigation water management at tertiary and field level in Sindh.

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

No

Components Table

Name

Component A: Community Water Infrastructure Improvement:(Cost \$120.20 M)

Component B: Promotion and Installation of High Efficiency Irrigation Systems:(Cost \$65.80 M)

Component C: Improved Agriculture Practices:(Cost \$24.40 M)

Component D: Project Management, Monitoring and Evaluation, and Strategic Studies:(Cost \$31.70 M)

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"/> Substantial	<input type="checkbox"/> Substantial

Implementation Status and Key Decisions

Overall progress of the project towards achieving PDO remains Moderately Satisfactory. The disbursement rate increased from 67.4% in May, 2021 to 75.9% at the end of December, 2021, after 6 years of implementation. Five PDO indicators out of 9 have an achievement rate ranging between 84 and 90%, and the final targets for the 2 PDO indicators on cropping intensity increase (in lined watercourses areas and through High Efficiency Irrigation Systems - HEIS) have already been exceeded. However, overall implementation progress remains moderately satisfactory mainly due to the limited progress observed in the dissemination of HEIS.

The plan of activities for the project's last year of implementation has been discussed and finalized during a recent mission. The last year's activities will focus on (i) consolidating and expanding achievements in the components that have obtained very satisfactory results (watercourse lining, kitchen garden (KG) HEIS kits, mostly in favor of women, provision of land levelling equipment, and beneficiaries' capacity building), (ii) exploring the possibilities of easing the constraints that have weighed on the dissemination of open-field HEIS technology,



(iii) improving the project's gender results, and (iv) consolidating the sustainability of the project's achievements, namely in the fields of farmers training and biological pest control.

In order to boost the HEIS subcomponent, the following recommendations were made: (i) As of immediately, the project should dedicate resources at district level to accompany the interested farmers in their relations with financing institutions, and possibly with the Revenue Department for farmers lacking the required land title (Passbook); (ii) Solarization should be included in the HEIS package for all farmers interested, and alternative and readily available solutions to subsidize solar panels at the same rate as the rest of the HEIS equipment should be sought; (iii) A revised overall final target of 6,000 hectares was set, i.e. about double what has been achieved so far, with specific targets for small and medium beneficiaries to be defined.

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Indicator-1				
▶ Water courses with an increase in water course conveyance efficiency of at least 15%. (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,491.00	4,957.00	5,500.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021



Comments: Water flow measurements show that due to rehabilitation, water conveyance efficiency in watercourses has increased by 16 percentage points.

Indicator-2

► Direct project beneficiaries (HHs) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	186,304.00	197,485.00	235,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

□ Direct project beneficiaries, of which female (HHs) (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	39,683.00	49,371.00	58,750.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Indicator-3

► Project direct beneficiary (population) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,585,563.00	1,761,519.00	2,000,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

□ Project direct beneficiary (population), of which female (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	337,725.00	375,204.00	1,000,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Indicator-4

► Water users provided with new/improved irrigation and drainage services (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	162,087.00	178,944.00	200,600.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

□ Water users provided with new/improved irrigation and drainage services, of which female (Number, Custom Breakdown)



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	34,453.00	38,038.00	50,150.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Indicator-5

► Increase in cropping intensity (CI) in water course areas. /b (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	115.00	145.00	145.00	138.00
Date	03-Jan-2017	21-May-2021	30-Nov-2021	31-Dec-2021
Comments:	Impact Assessment Survey of 48 watercourses has been completed. The results show that cropping intensity has increased to 145 percent. After complete Impact Assessment Survey of 550 sample watercourses, it may change, however.			

Indicator-6

► Increase in cropping intensity through HEIS. /c (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	115.00	179.00	179.00	172.50
Date	01-Jan-2018	21-May-2021	30-Nov-2021	31-Dec-2021
Comments:	The impact assessment of 24 HEIS farms was done one year after completion. The results show that cropping intensity has increased to 179 percent on the average. This survey will continue when the full sample of 265 HEIS farms is completed.			

Intermediate Results Indicators by Components

Component A: Community Water Infrastructure Improvement

► Improved WC that are fully functional (including a functioning water course association). (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,491.00	4,957.00	5,500.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
► Operational water user associations created and/or strengthened (Number, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,491.00	4,957.00	5,500.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
► Farmers benefitting from improved water courses (HHs) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	161,676.00	178,452.00	198,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
□ Farmers benefitting from improved water courses, of which female (HHs) (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	34,437.00	38,010.00	49,500.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
► Total command area of improved WC. (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	559,130.00	617,147.00	550,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
► Area provided with irrigation and drainage services (i) New (ii) Improved (Ha.) (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	561,616.00	620,259.00	564,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
Comments:	Actual is Command Catchment Area (CCA) of watercourses completed plus area under HEIS completed			
► Flood shelters established (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	380.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
Comments:	This intervention was dropped during MTR and confirmed by P&D. The released funding from the activity was allocated to a) providing additional 2,500 units of laser land leveling equipment; and b) investing in watercourse improvement due to anticipated increased costs of using PCPS material. This arrangement was also ratified by P&D.			



▶ People having access to the shelters, of which female headed households (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	106,650.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
Comments:	The activity was dropped during the MTR in April 2019. P&D endorsed the dropping.			

Component B: Promotion and Installation of High Efficiency Irrigation Systems				
▶ Farmers provided with HEIS (HHs) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	411.00	489.00	2,600.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
Comments:	PAD target for female is set at 25% of total			
□ Farmers provided with HEIS, of which females (HHs) (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	33.00	53.00	650.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
▶ Area sustainably managed under HEIS introduced by the project (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2,486.00	3,095.00	14,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
Comments:	The value entered in May 2020 was incorrect.			
▶ Households provided with HEIS in kitchen gardens (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	7,889.00	10,100.00	10,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021
□ Households provided with HEIS in kitchen gardens, of which female (HHs) (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	7,337.00	9,730.00	5,000.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Component C: Improved Agriculture Practices

► Households provided with a Unit of Laser land leveller (HHs) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,290.00	1,290.00	1,100.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

► Area covered by laser levelling (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	168,015.00	459,637.00	160,256.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Comments: The value entered in May 2020 was incorrect, both value and unit (acres versus hectares).

► Households provided with a unit of Deep Rippers (HHs) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	170.00	190.00	1,100.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Comments: The value entered in May was incorrect. This number won't change a lot as this type of equipment seems finally not well adapted to the needs of the farmers community. It has also been proposed to replace this equipment with a similar equipment contributing to improved agriculture practices .

► Area covered by Deep Ripping (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6,685.00	19,037.00	106,837.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Comments: The value entered in May was incorrect because the unit was incorrect (Acres versus hectares).

► Farmers trained on improved agronomic practices and technologies (Number, Custom)

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



Value	0.00	36,589.00	40,510.00	37,500.00
Date	01-Jul-2016	21-May-2021	30-Nov-2021	31-Dec-2021
<input type="checkbox"/> Farmers trained on improved agronomic practices and technologies, of which female (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,270.00	5,944.00	7,500.00
Date	26-Apr-2019	21-May-2021	30-Nov-2021	31-Dec-2021
<input type="checkbox"/> Area under improved agronomic practices (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	55,404.00	59,256.00	52,500.00
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Component D: Project Management, Monitoring and Evaluation, and Strategic Studies

Essential staff for project management fully operational and retained during project live, incl. 100 field teams. (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Yes	Yes	Yes	Yes
Date	01-Jan-2016	21-May-2021	30-Nov-2021	31-Dec-2021

Performance-Based Conditions

Data on Financial Performance

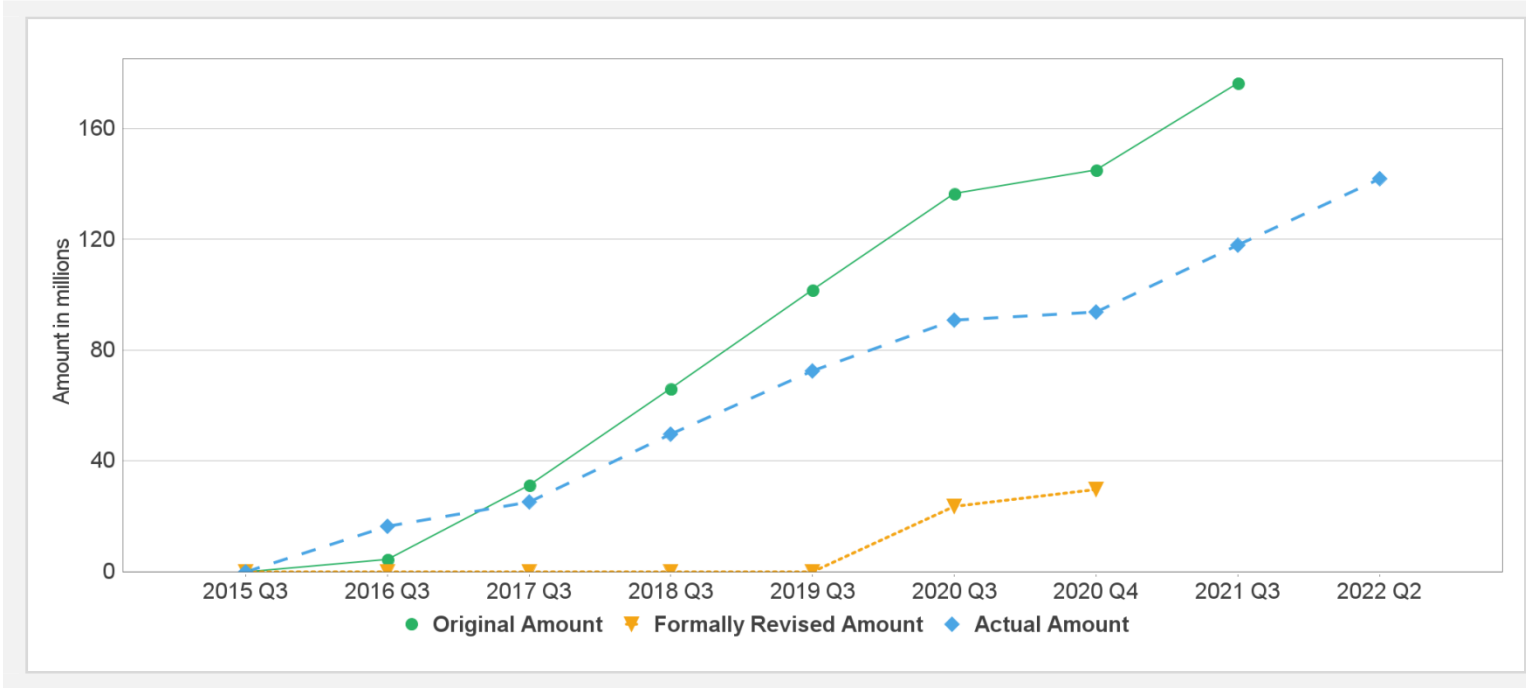
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P145813	IDA-56040	Effective	USD	187.00	187.00	0.00	141.98	43.85	76%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P145813	IDA-56040	Effective	20-Mar-2015	09-Jul-2015	21-Aug-2015	31-Dec-2021	31-Dec-2022

Cumulative Disbursements



PBC Disbursement

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

Restructuring History

Level 2 Approved on 11-Nov-2021

Related Project(s)

There are no related projects.