



China Guangdong Agricultural Pollution Control (P127775)

EAST ASIA AND PACIFIC | China | Agriculture and Food Global Practice |
IBRD/IDA | Investment Project Financing | FY 2014 | Seq No: 14 | ARCHIVED on 25-Jun-2020 | ISR42370 |

Implementing Agencies: Department of Agriculture, Guangdong Province, THE PEOPLE'S REPUBLIC OF CHINA

Key Dates**Key Project Dates**

Bank Approval Date: 27-Dec-2013

Effectiveness Date: 23-May-2014

Planned Mid Term Review Date: 23-Sep-2016

Actual Mid-Term Review Date: 28-Sep-2016

Original Closing Date: 31-Dec-2019

Revised Closing Date: 30-Jun-2021

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The proposed development objective is to reduce water pollutant releases from crop and livestock production in selected areas of Guangdong Province.

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

No

Components Table

Name

Environmentally Friendly Crop Production:(Cost \$51.66 M)

Livestock Waste Management (LWM):(Cost \$125.80 M)

Monitoring and Evaluation (M&E), Capacity Development and Knowledge Management (KM):(Cost \$16.14 M)

Project Management:(Cost \$10.69 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"/> Moderate	<input type="checkbox"/> Moderate

Implementation Status and Key Decisions

The objective of the project is to reduce water pollutant releases from crop and livestock production in selected areas of Guangdong Province. Despite the disruptions caused by the COVID-19 pandemic the project implementation progressed reasonably well. The most affected project activities included civil works, monitoring and evaluation (M&E), and training and capacity building.



Component 1 – Environmentally Friendly Crop Production. The M&E report shows that the average rice yield in 2019 was 390.93 kg/mu compared to (383.01 kg/mu) achieved in 2018. Compared with the baseline data the chemical fertilizer and pesticide use by farmer households in the project areas were reduced by 30.9 percent and 30.6 percent, respectively. The cost for fertilizers and pesticide in project areas was reduced by 18.49 percent and 16.71 percent, respectively, with the total cost reduction standing at 35.2 percent. Even after the removing or reducing subsidies for crop-specific compound and slow release compound fertilizers in 2019, there were still 68.79 percent of farmers from the first six original project counties and 97.69 percent farmers from the four newly added project counties (added at mid-term review) who continued to use the project recommended environmentally friendly fertilizers. The total area under conservation agriculture (CA) in 2019 was 17,520 mu of which 15,110 mu (86.2 percent) were operated in reduced tillage, while 2,410 mu (13.8 percent) were operated in no-till rice production systems. In total the sweet corn area under CA in 2019 was 3,145 mu of which 2,500 mu (80 percent) were under reduced tillage, while 645 mu (20 percent) were operated in no-till sweet corn production systems. Monitoring data for 2020 were not available due to disruptions related to COVID-19 pandemic.

Component 2 – Livestock Waste Management. The mission noted some implementation progress, albeit still significantly lagging behind Component 1. The PPMO developed a one-farm-one-approach under the technical guidance of its team of experts. As a result, the implementation of Livestock Waste Management (LWM) activities picked up: 14 projects resumed civil works, five new projects were started, 23 projects were completed, and 28 projects were accepted during the period under review. By end of December 2019, the number of completed LWM projects has reached 108, accounting for 81.82 percent of the total LWM projects, and the 75 projects accepted have been accepted, accounting for 56.82 percent of the total number of LWM projects. Monitoring data for 2020 were not available due to disruptions related to COVID-19 pandemic.

Performance Ratings. Given the modest implementation progress since the last ISM held in October 2019, which was mainly due to the lockdown and travel restrictions during the COVID-19 pandemic, the implementation progress (IP) and the progress towards achieving the PDO retain their Moderately Satisfactory (MS) ratings.

Table 3.1

Multiphase Programmatic Approach (MPA) Status

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
Macroeconomic	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Sector Strategies and Policies	--	<input type="checkbox"/> Low	<input type="checkbox"/> Low
Technical Design of Project or Program	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Institutional Capacity for Implementation and Sustainability	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Fiduciary	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Environment and Social	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Stakeholders	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Other	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Overall	--	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate

Results

PDO Indicators by Objectives / Outcomes



reduce water pollutant releases from crop and livestock production				
▶ Mass of COD pollution load reduction achieved under the project (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	20,009.52	20,395.00	45,000.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
▶ Nutrient load reduction (nitrogen- ammonia) achieved under the project (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2,117.05	2,243.00	5,000.00
Date	01-May-2013	31-Dec-2018	31-Dec-2019	30-Jun-2021

Intermediate Results Indicators by Components

Environmentally Friendly Crop Production				
▶ WHO Class II pesticide residue compliance rates (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	90.00	99.13	99.66	96.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
Comments:	No updated data in this ISR.			
▶ Crop production areas adopted project promoted practices (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	38,354.00	38,354.00	28,000.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
▶ Clients who have adopted an improved agr. technology promoted by the project (Number, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	108,526.00	108,526.00	60,000.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
□ Clients who adopted an improved agr. technology promoted by project – female (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	18,195.00	18,195.00	12,000.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
► Reduction in total consumption of pesticides in project areas (Metric ton, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	183.50	435.18	135.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
Comments:	No updated data in this ISR.			
► WHO Class I pesticide residue compliance rates (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	90.00	99.48	99.93	100.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
Comments:	No updated data in this ISR.			
► Phosphorus load reduction (TP) achieved under the project (Metric ton, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	483.75	484.00	250.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
► BOD load reduction achieved under the project (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	9,312.49	10,197.00	14,000.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021

Livestock Waste Management (LWM)				
► Number of project supported pig farms in compliance of performance requirements (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	137.00	108.00	200.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021
► Number of livestock waste management facilities constructed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	50.00	23.00	50.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021

Monitoring and Evaluation (M&E), Capacity Development and Knowledge Management (KM)

► Client days of training provided (number) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	17,517.50	66,116.00	36,000.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021

□ Client days of training provided - Female (number) (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6,665.00	23,254.00	7,000.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021

► Number of policy studies completed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	11.00
Date	01-May-2013	30-Jun-2019	31-Dec-2019	30-Jun-2021

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

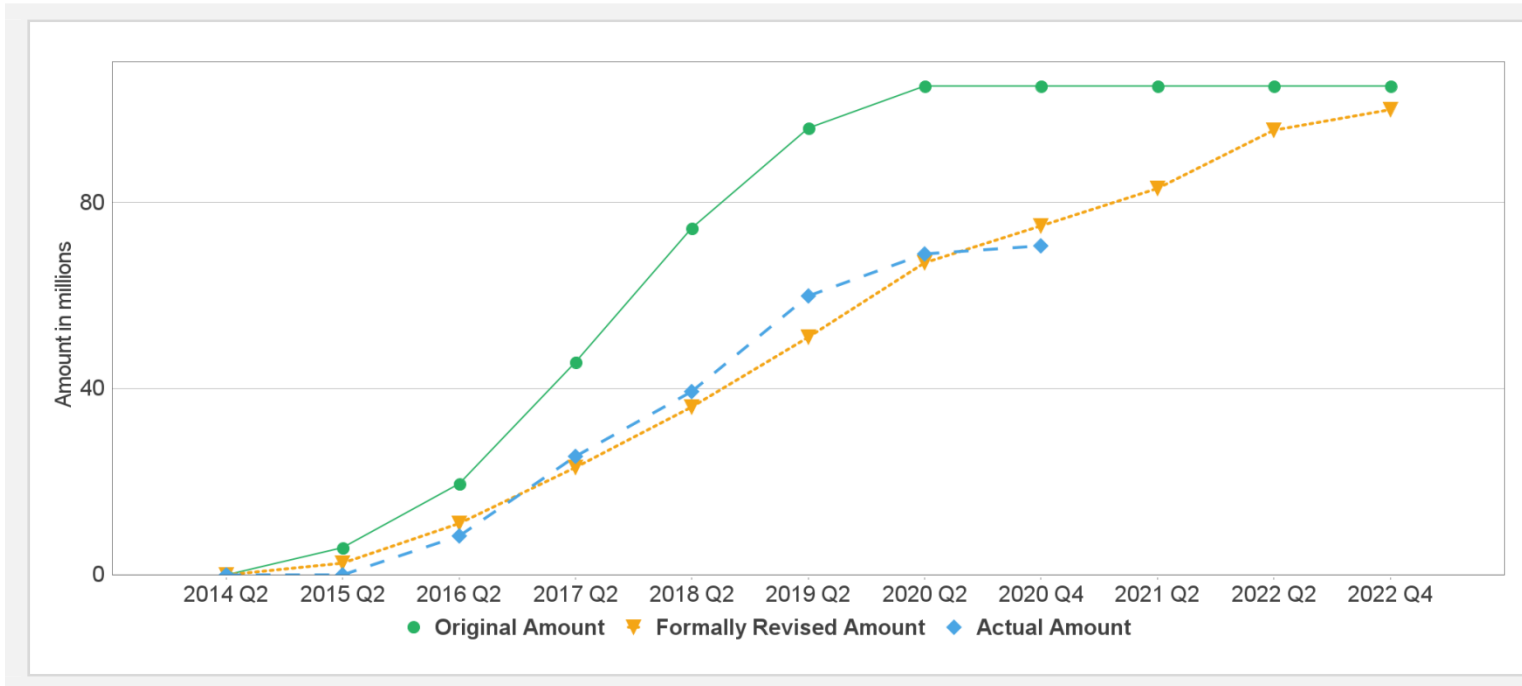
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P127775	IBRD-83110	Effective	USD	100.00	100.00	0.00	67.13	32.87	67%
P127815	TF-15418	Effective	USD	5.10	5.10	0.00	3.80	1.30	75%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P127775	IBRD-83110	Effective	27-Dec-2013	28-Feb-2014	23-May-2014	31-Dec-2019	30-Jun-2021
P127815	TF-15418	Effective	28-Feb-2014	28-Feb-2014	23-May-2014	31-Dec-2019	30-Jun-2021



Cumulative Disbursements



Restructuring History

Level 1 Approved on 06-Apr-2017

Related Project(s)

P127815-China Guangdong Agricultural Pollution Control