



China Guangdong Agricultural Pollution Control (P127775)

EAST ASIA AND PACIFIC | China | Agriculture Global Practice |
IBRD/IDA | Investment Project Financing | FY 2014 | Seq No: 10 | ARCHIVED on 29-Jun-2018 | ISR33066 |

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

Global Environmental 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 Global Environmental Objective been changed since Board Approval of the Project Objective?

No

Components

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	● Moderately Satisfactory	● Moderately Satisfactory
Overall Implementation Progress (IP)	● Moderately Unsatisfactory	● Moderately Satisfactory
Overall Risk Rating	● Moderate	● Moderate

Implementation Status and Key Decisions

This Implementation Status and Results Report (ISR) is based on the World Bank's 9th Implementation Support Mission carried out from June 4-12, 2018. The mission noted significant improvement on project management by the PPMO. The mission noted that, the project implementation has accelerated since last mission. By end of May 2018, the investment completion rate was 28%, increased by 8 percentage points since last mission. The disbursement rates for IBRD loan and GEF grants were 44.54% and 57.84%, up 17.87 and 13.10 percentage points, respectively, by end of May, 2018.

Good progress was made in Component 1. As of March 31, 2018, the project activities in component 1 was carried out in 28 counties, covering a total of 134,000 farmer households in 601 villages from 99 project towns. According to data in the annual progress report, in 2017, compared with non-project households, average application rates of chemical fertilizers and pesticides per mu in project areas were reduced by 33.6% and 29.4%, respectively. At the same time, average rice yield in some of the project areas increased by 45kg/mu, representing a 12.5 percent increase compared with the yield before the project start. The total reduction of pesticides in project area reached 344.58 tons (active component), 255% of the project objective indicator value (125 tons/year).

All 10 CA sites are in operation. The mission noted that the reduced-tillage operations are slightly more popular compared to no-till. However, the no-till dry direct seeding has the highest area coverage (3802mu). In total the project has just below 10 mu under CA.

Good progress was made to implement livestock waste management as well. As of March 2018, the investment completion rate was 20.48%, up 7.75 percentage points from last mission. It is expected to pick up significantly by end of the calendar year. The mission further noted that, as of March 2018, among the 134 project livestock farms, construction of 37 traditional LWM farms was completed, among which 16 traditional LWM farms and 3 high-rise farms are accepted, and the other 3 high-rise farms have been inspected and are in operation. Moreover, 67 traditional LWM facilities are under construction, and 19 LWM contracts are listed in the procurement plan for 2018. The 134 project farms have a standing pig population (SPP) of 1.4 million head (1.13 million is with traditional farms and 275000 head is with high-rise farms). According to the estimate, in 2017, the total reductions of COD, BOD, ammonia nitrogen, and TP were 20130.42 tons, 3661.4 tons, 1162.5 tons, and 290.2 tons respectively.

The next ISM is planned for fall 2018.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Moderate	● Moderate
Macroeconomic	--	● Low	● Low
Sector Strategies and Policies	--	● Low	● Low
Technical Design of Project or Program	--	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	--	● Moderate	● Moderate
Fiduciary	--	● Moderate	● Moderate



Environment and Social	--	● Moderate	● Moderate
Stakeholders	--	● Moderate	● Moderate
Other	--	--	--
Overall	--	● Moderate	● Moderate

Results

Project Development Objective Indicators

► Mass of COD pollution load reduction achieved under the project (Tones/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	8,122.04	20,130.42	45,000.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	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	934.01	1,162.50	5,000.00
Date	01-May-2013	31-Dec-2016	31-Dec-2017	30-Jun-2021

Overall Comments

Global Environmental Objective Indicators



► Mass of COD pollution load reduction achieved under the project (Tones/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	8,122.04	20,130.42	45,000.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

Overall Comments

Intermediate Results Indicators

► BOD load reduction achieved under the project (Tones/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3,842.04	3,661.40	14,000.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

► Phosphorus load reduction (TP) achieved under the project (Metric ton, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	188.14	290.20	250.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	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	138.36	344.58	135.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

► WHO Class I pesticide residue compliance rates (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	90.00	100.00	99.67	100.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

► WHO Class II pesticide residue compliance rates (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	90.00	99.66	99.62	96.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

► Farmers adopting improved agricultural technology (Number, Corporate)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	95,216.00	95,212.00	60,000.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	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	15,324.00	15,324.00	12,000.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

▶ Crop production areas adopted project promoted practices (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	33,789.00	33,789.00	28,000.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

▶ Number of livestock waste management facilities constructed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	25.00	26.00	200.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

▶ Number of project supported pig farms in compliance of performance requirements (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	9.00	19.00	200.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021



► Number of policy studies completed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	7.00	11.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

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

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	76,831.00	110,577.00	36,000.00
Date	01-May-2013	30-Jun-2017	31-Dec-2017	30-Jun-2021

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

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	21,041.00	33,075.00	7,000.00
Date	01-May-2013	30-Dec-2016	31-Dec-2017	30-Jun-2021

Overall Comments

Data on Financial Performance

Disbursements (by loan)

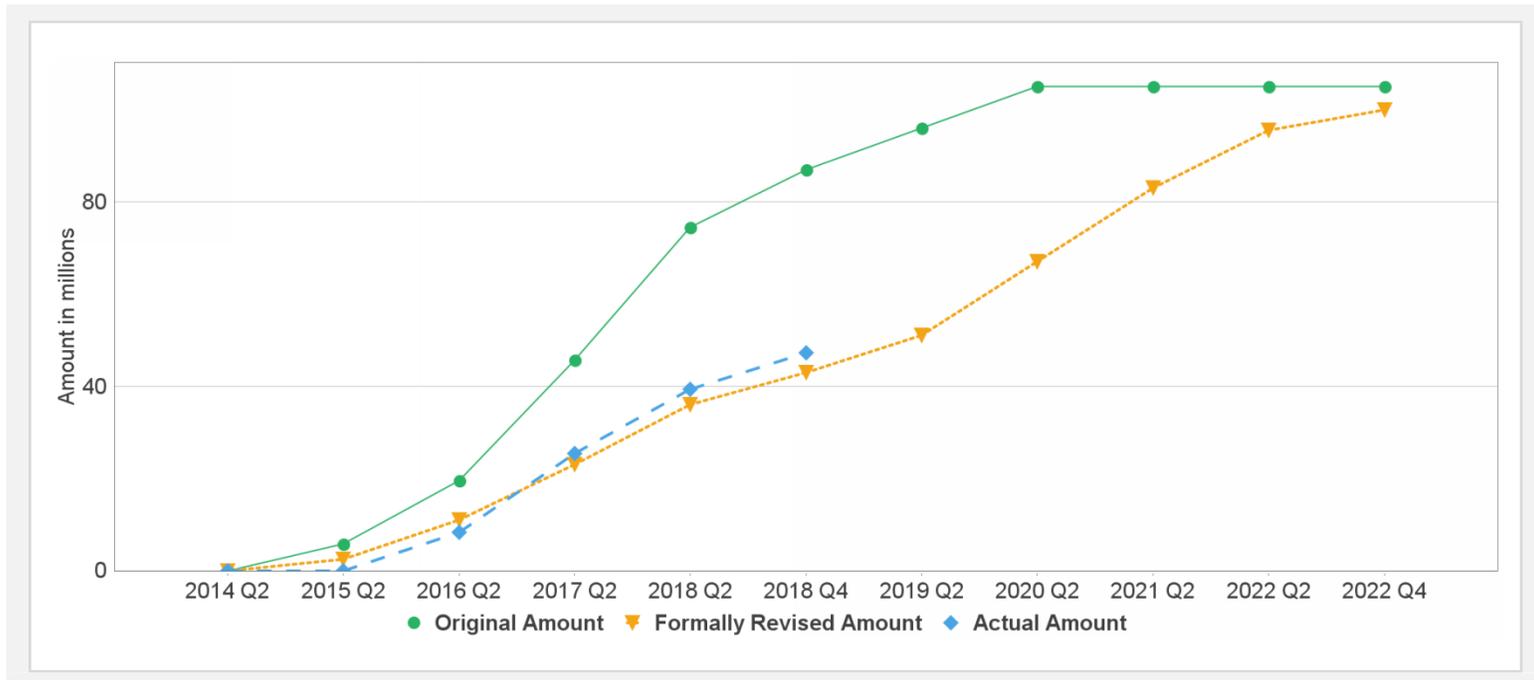
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P127775	IBRD-83110	Effective	USD	100.00	100.00	0.00	44.54	55.46	 45%
P127815	TF-15418	Effective	USD	5.10	5.10	0.00	2.95	2.15	 58%

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	31-Dec-2019

Cumulative Disbursements



Restructuring History

Level 1 Approved on 06-Apr-2017

Related Project(s)

P127815-China Guangdong Agricultural Pollution Control