



Integrated POPs Management (P106885)

EAST ASIA AND PACIFIC | Philippines | Environment & Natural Resources Global Practice |
Global Environment Project | Specific Investment Loan | FY 2010 | Seq No: 16 | ARCHIVED on 23-May-2017 | ISR27887 |

Implementing Agencies: The Republic of the Philippines, Department of Environment and Natural Resources

Key Dates

Key Project Dates

Bank Approval Date:20-May-2010

Effectiveness Date:24-Jun-2011

Planned Mid Term Review Date:30-Jun-2014

Actual Mid-Term Review Date:01-Oct-2014

Original Closing Date:30-Jun-2016

Revised Closing Date:30-Jun-2017

Global Development Objectives

Global Environmental Objective (from Project Appraisal Document)

The project development objective (PDO) is to assist the Philippines in minimizing the risk of human and environmental exposure to POPs by strengthening the regulatory and monitoring framework and improving capacity for and providing demonstrations of, safe management of PCBs, reduction of releases of unintentionally produced POPs, and reduction of exposure to POPs in contaminated sites.

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

No

Components

Name

Strengthening Regulatory Framework and Capacity Building for POPs Monitoring:(Cost \$1.04 M)

Reduction of Releases of Unintentionally Produced Persistent Organic Pollutants:(Cost \$2.72 M)

Management of Polychlorinated Biphenyls (PCBs):(Cost \$2.34 M)

Identification and Remediation of POPs Contaminated Sites:(Cost \$1.69 M)

Project Management:(Cost \$0.85 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Unsatisfactory	● Unsatisfactory
Overall Implementation Progress (IP)	● Unsatisfactory	● Unsatisfactory
Overall Risk Rating	● Substantial	● Substantial



Implementation Status and Key Decisions

Implementation progress has been very limited during the past year, with the exception of the dumpsite closure related activities in Legazpi aimed at reducing the release of unintentionally produced persistent organic pollutants (dioxins and furans). This is expected to have strong demonstration value, but will directly remediate only one-third of the planned UPOPs sites. The project has substantially exceeded its goal for preparation and approval of PCB management plans, but their implementation rate to date is very low. A national strategy on management of contaminated sites is now in place, and three of the seven planned legal instruments intended to strengthen the regulatory environment for POPs management have been adopted. The remaining four instruments are at various earlier stages of development and their adoption by project closing is uncertain. Significant progress has been made in updating PCB inventories and providing training related to regulatory enforcement, PCB management, and site remediation and control techniques. However, overall progress and completion of various demonstration activities is still significantly behind schedule, with some key planned activities unlikely to be completed by project closing. The government and the Bank are currently in discussion for a possible extension of the project closing date.

Risks

Systematic Operations Risk-rating Tool

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

Results

Global Environmental Objective Indicators



► Number of new legal instruments formulated/modified for POPs management that are adopted (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3.00	3.00	7.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

3 legal instruments adopted:

(i) EMB MC No. 2014-007: Guidelines for the Registration of Laboratories to Perform Analysis of PCBs - issued on Aug 8, 2014

(ii) EMB MC No. 2015-004: Clarifications on the Chemical Control Order (CCO) for PCBs - issued on January 30, 2015

(iii) EMB MC No. 2015-007: Technical Guidance Document on PCB Management - issued on May 9, 2015

4 legal instruments not yet adopted:

(iv) Legal instrument for inter-agency cooperation on POPs management - After several discussions within DENR-EMB on how to accomplish this output, it was decided that a Memorandum will be sent by the DENR Secretary, as chairman of the Interagency Technical Advisory Council (IATAC) created under RA6969, to the IATAC member-agencies. The member-Secretaries will be asked to sign the Memorandum as acknowledgement and manifestation of support to the request to tap and activate the IATAC for the implementation of the Philippine National Implementation Plan (NIP) on POPs and include the concerns on POPs management in their respective legal and regular functions. Stakeholders' consultation held on July 7, 2016.

(v) Legal instrument for guidelines on site characterization of POPs contaminated sites – Legal-Institutional Specialist (LIS) submitted draft DAO/MC adopting this guideline. This draft legal instrument will be modified once EMB gives clearance on the final guidelines, subject to review by the PTWG

(vi) Legal instrument for guidelines on site remediation of POPs contaminated sites - LIS submitted draft DAO/MC adopting this guideline. This draft legal instrument will be modified once EMB gives clearance on the final guidelines, subject to review by the PTWG

(vii) Legal instrument for guidelines on site control of POPs contaminated sites – first draft guidelines submitted by Package 9 firm on June 16, 2016 and revised guidelines submitted last December 15, 2016.

► Contaminated land managed or dump sites closed under the project (Hectare (Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	2.32	6.00
Date	10-May-2010	10-Jun-2015	17-Mar-2017	30-Jun-2017

Comments

Based on the EMB Region 5 report, closure works of Banquerohan open dumpsite in Legazpi City is 100% complete as of December 9, 2016. Final inspection conducted on December 15, 2016 reported findings on soil stabilization and vegetation which were scoured due to torrential rains in the area. Contractor was instructed to provide remedial works to address these issues. Status report from EMB Region 5 showed that during their December 22, 2016 inspection, the contractor was able to



comply with the directive.

Demonstration of site remediation at an open ground within PAF, Clark, Pampanga - preparations for demonstration activity underway.

► LGUs certified by EMB as having no operating dumpsite within their jurisdictions.(Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	1.00	3.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

EMB Region 5 issued certification, through letter dated January 16, 2017 and received on February 7, 2017, that the Legazpi City LGU has properly closed Banquerohan open dumpsite and that no new dumpsite is being operated.

► LGUs certified by EMB as having a sanitary landfill operating according to standard operating procedures, including application of daily soil cover.(Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	20-May-2010	10-Jun-2015	30-Mar-2017	30-Jun-2017

Comments

The Legazpi sanitary landfill is now in operation, but some shortcomings in adherence to good standard operating procedure have been identified and validation of necessary corrective actions is still pending.



► POPs&pops waste destroyed,disposed or contained in environmentally sound manner(Metric ton, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	14.29	435.00
Date	20-May-2010	10-Jun-2015	17-Mar-2017	30-Jun-2017

Comments

San Miguel Brewery – Mandaue Plant, through Globecare Services, sent 3-unit 12.2MT PCB transformers and 2.09MT PCB waste oil and materials for incineration by Tredi in St. Vulbas France in October 2015.

Remaining PCB managed in Online PCB Inventory will be determined upon submission by EMB regional offices of reports of their inspections from July 1, 2016 to June 30, 2017 with financial assistance from the project.

► National strategy on management of POPs contaminated sites adopted(Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	N	Y	Y
Date	20-May-2010	10-Jun-2015	17-Mar-2017	30-Jun-2017

Comments

EMB issued a memorandum, dated February 9, 2016, to all regional offices for the adoption of the strategy and its use as a reference document in addressing issues and concerns related to management of POPs contaminated sites. Said strategy is available for download at EMB - Chemical Management Section website.

► Direct project beneficiaries(Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	85.00	182,286.00	764,671.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments



85 DENR and EMB officials and staff are currently involved in the implementation of project activities.
182,201 residents of Legazpi benefited from the project with the closure of the Banquerohan open dumpsite and operation of the Banquerohan sanitary landfill.

Female beneficiaries(Percentage, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	48.00	48.00	48.00

Overall Comments

Attendance records of missions, meetings, trainings, workshops etc. confirm that on average about 48% of attendees or participants are female.

Intermediate Results Indicators

Legal instruments formulated/modified and presented to stakeholders (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.00	4.00	7.00
Date	20-May-2010	10-Jun-2015	17-Mar-2017	30-Jun-2017

Comments

4 legal instruments had been formulated and presented to stakeholders (see related PDO indicator above):

(i) EMB MC No. 2014-007: Guidelines for the Registration of Laboratories to Perform Analysis of PCBs – stakeholders’ consultation held on January 27, 2014

(ii) EMB MC No. 2015-004: Clarifications on the Chemical Control Order (CCO) for PCBs - stakeholders’ consultation held on December 17, 2014

(iii) EMB MC No. 2015-007: Technical Guidance Document on PCB Management - stakeholders’ consultation held on March 26, 2015

(iv) DENR Memo for Activation of IATAC for NIP on POPs – stakeholders’ consultation held on July 7, 2016

3 legal instruments currently being reviewed and deliberated (see related PDO indicator above for status):

(v) legal instrument for guidelines on site characterization of POPs contaminated sites

(vi) legal instrument for guidelines on site remediation of POPs contaminated sites



(vii) legal instrument for guidelines on site control of POPs contaminated sites

► National health monitoring program for POPs exposure established. (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	N	N	Y
Date	20-May-2010	10-Jun-2015	17-Mar-2017	30-Jun-2017

Comments

After 2 failed biddings for the selection of Package 7 firm, it was agreed during the 7th Mission in July 2015 to cancel this activity.

► DENR staff trained on laboratory procedures and equipment operation for POPs analysis (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	11.00	5.00
Date	20-Jun-2010	10-Jun-2015	17-Mar-2017	30-Jun-2017

Comments

Completed activities:

2017 - 4 EMB staff attended training on dioxin & furan air sampling and modeling in Raleigh, North Carolina, USA in January 2017 (1st batch) + 4 EMB staff attended training on dioxin & furan air sampling and modeling in Raleigh, North Carolina, USA in February 2017 (2nd batch)

2017 - 3 EMB staff attended training on laboratory analysis of dioxins & furans in Sydney, Australia in February 2017 (1st batch)

Ongoing:

2017 - 3 EMB staff to attend training on laboratory analysis of dioxins & furans in Sydney, Australia on March 20 – April 12, 2017 (2nd batch)



► National inventory of dioxins and furans updated (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	Y	Y	Y
Date	20-Jun-2010	08-Mar-2017	17-Mar-2017	30-Jun-2017

Comments

Updating of the national inventory of dioxins and furans (3rd update) completed in June 2013.

► Number of LGUs implementing measures to reduce open burning (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	1.00	3.00
Date	20-May-2010	30-Sep-2016	30-Sep-2016	30-Jun-2017

Comments

Legazpi City LGU currently implementing their UPOPs Action Plan for both disposal and collection windows, including ESMP.

► Collection equipment and vehicles in operation to improve collection efficiency and prevent backyard burning (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	9.00	41.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

Target should be 11, and not 41, all to be deployed in Legazpi City:



► Market assessment study on waste electrical electronic equipment conducted (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	N	N	Y
Date	20-May-2010	08-Mar-2017	17-Mar-2017	30-Jun-2017

Comments

Due to time constraints in implementation, this activity was dropped as agreed during the 8th mission in October 2016.

► DENR and LGU staff and stakeholders trained in the application of the BAT/BEP to reduce dioxins and furans emitted from solid wastes dumps and from industrial/agricultural sources (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	207.00	215.00	390.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

Completed activities:

2013 - 41 EMB & LGU staff trained by Package 2 firm in March 2013 + 34 EMB & LGU staff trained by Package 2 firm in July 2013
2015 - 118 stakeholders trained by Package 8 firm in January 2015 + 14 DENR-EMB & LGU staff attended international training in Cagliari, Italy in October 2015

2017 - 8 EMB & LGU staff attended training on SWM in Kitakyushu, Japan in January 2017

Remaining/ongoing capacity building activities:

(i) 2017 - 10 participants from DENR, LGU, and other concerned agencies to attend the 3rd Symposium of International Waste Working Group Asian Regional Branch (IWWGARB) in Seoul, Republic of Korea to be conducted by IWWG on April 12-14, 2017

(ii) 2017 - 74 participants from DENR-EMB and BFP to attend the Training on Solid Waste Management and Technology: BAT/BEP to Reduce the Emissions of Dioxins and Furans to be conducted by UP National Engineering Center from March to May 2017 in 10 batches.

► Staff from non-project LGUs trained on the health effects of UPOPs and practices to reduce UPOPs from solid waste dumps (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	300.00	640.00
Date	20-May-2010	30-Sep-2016	28-Apr-2017	30-Jun-2017

Comments



With the cancellation of the activity on development of National Health Monitoring Program, the topic on health effects of UPOPS will not be included in this indicator. However, the BAT/BEP practices to reduce UPOPs from solid wastes dumps will be pursued, including the topic on fire suppression techniques in waste dumps.

Ongoing:

Officials from non-project LGUs to attend the Training on Solid Waste Management and Technology: BAT/BEP to Reduce the Emissions of Dioxins and Furans to be conducted by UP National Engineering Center from March to May 2017 in 10 batches.

The numbers of participants in six batch up to April 28 are as follows: 1st – 61, 2nd – 62, 3rd – 21, 4th – 45, 5th – 45, and 6th - 66.

► National inventory of PCB owners updated (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	102.00	120.63	100.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

Target of 800 PCB owners.

Of the 1,341 PCB owners with approved CCO registrations, 965 have submitted their PCB inventories.

► PCB management plans approved by EMB regional offices (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	442.00	743.00	300.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

Of the 965 PCB owners who have submitted their PCB inventories, 838 have submitted their PCB management plans with 743 approved by EMB regional offices.



► PCB management plans validated by EMB regional offices (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	40.00	40.00	40.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

Validation visits for 40 establishments were conducted by EMB regional offices with assistance by Package 4 firm on May-July 2016. Further validation visits to be determined upon submission by EMB regional offices of reports of their inspections being conducted from October 1, 2016 to June 30, 2017.

► DENR staff trained in enforcing the regulatory requirements on managing PCBs (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	40.00	108.00	60.00
Date	20-May-2010	10-Jun-2015	17-Mar-2017	30-Jun-2017

Comments

Done:

2014 - 40 EMB staff trained by Package 4 firm in September 2014; 2015 - 5 EMB staff attended international training in Hanoi, Vietnam in May 2015 + 10 DENR-EMB staff attended international training in Turin, Italy in November 2015 (1st batch)

2016 - 43 EMB staff trained by Package 4 firm in May-July 2016 + 10 DENR-EMB staff attended international training in Turin, Italy in November 2016 (2nd batch).

► PCB owners and technical staff trained on the environmentally sound management of PCBs and in complying with regulatory requirements (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	572.00	572.00	572.00
Date	20-May-2010	10-Jun-2015	17-Mar-2017	30-Jun-2017

Comments

Done:

572 participants working in establishments with PCBs or PCB-contaminated equipment (PCB owners) were capacitated in 16 runs of training conducted nationwide by Package 4 firm in June-November 2013.



► National inventory of contaminated sites completed (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	N	N	Y
Date	20-May-2010	08-Mar-2017	17-Mar-2017	30-Jun-2017

Comments

Partially Completed:

A list of potentially POPs-contaminated sites has been completed in April 2013. This output is considered to represent 50% of the effort necessary to prepare a national inventory of contaminated sites. However, no further action on this is planned under the project.

► DENR and other relevant agency staff trained on site characterization, site remediation, and site control techniques and in enforcing regulatory requirements to manage contaminated sites (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	193.00	193.00	230.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

Done:

2012 - 5 DENR-EMB staff attended international training in Toronto, Canada in June 2012 (1st batch) 2013 - 21 EMB and other agencies staff trained by Package 6 firm in February 2013 + 5 EMB staff attended international training in Toronto, Canada in June 2013 (2nd batch) 2014 - 27 EMB and other agencies staff trained by Package 6 firm in April 2014 + 32 EMB staff trained by Package 5 firm in May 2014 2015 - 8 EMB staff attended international training in Toronto, Canada in June 2015 (3rd batch) + 40 EMB and other agencies trained by Package 5 firm in June 2015 + 55 EMB staff trained by Package 6 firm in October-December 2015

Remaining capacity building activities:

(i) 2017 – 70 participants from DENR-EMB and other agencies to attend training on site control measures to be conducted by ERGONS Project Marketing Consultants on March 23-24, 2017.



► Owners of contaminated sites, consulting groups, industries and other stakeholders trained on site characterization, site remediation, site control, and regulatory requirements (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	127.00	127.00	150.00
Date	20-May-2010	30-Sep-2016	17-Mar-2017	30-Jun-2017

Comments

Done:

2015 - 73 stakeholders trained by Package 5 firm in June-August 2015 + 54 stakeholders trained by Package 6 firm in October-December 2015

Remaining capacity building activities:

(i) 2017 – 50 stakeholders to attend training on site control measures to be conducted by ERGONS Project Marketing Consultants on 2Q 2017.

► National strategy on management of POPs contaminated sites developed (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	Y	Y	Y
Date	20-May-2010	08-Mar-2017	17-Mar-2017	30-Jun-2017

Comments

EMB issued a memorandum, dated February 9, 2016, to all regional offices for the adoption of the strategy and its use as a reference document in addressing issues and concerns related to management of POPs contaminated sites. Said strategy is available for download at EMB - Chemical Management Section website.



► Contaminated Site Management Demonstration (Number, Custom)


	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	20-May-2010	09-Mar-2017	17-Mar-2017	30-Jun-2017

Overall Comments

Demonstration of site remediation at an open ground within PAF, Clark, Pampanga (see related PDO indicator above for status).

Data on Financial Performance

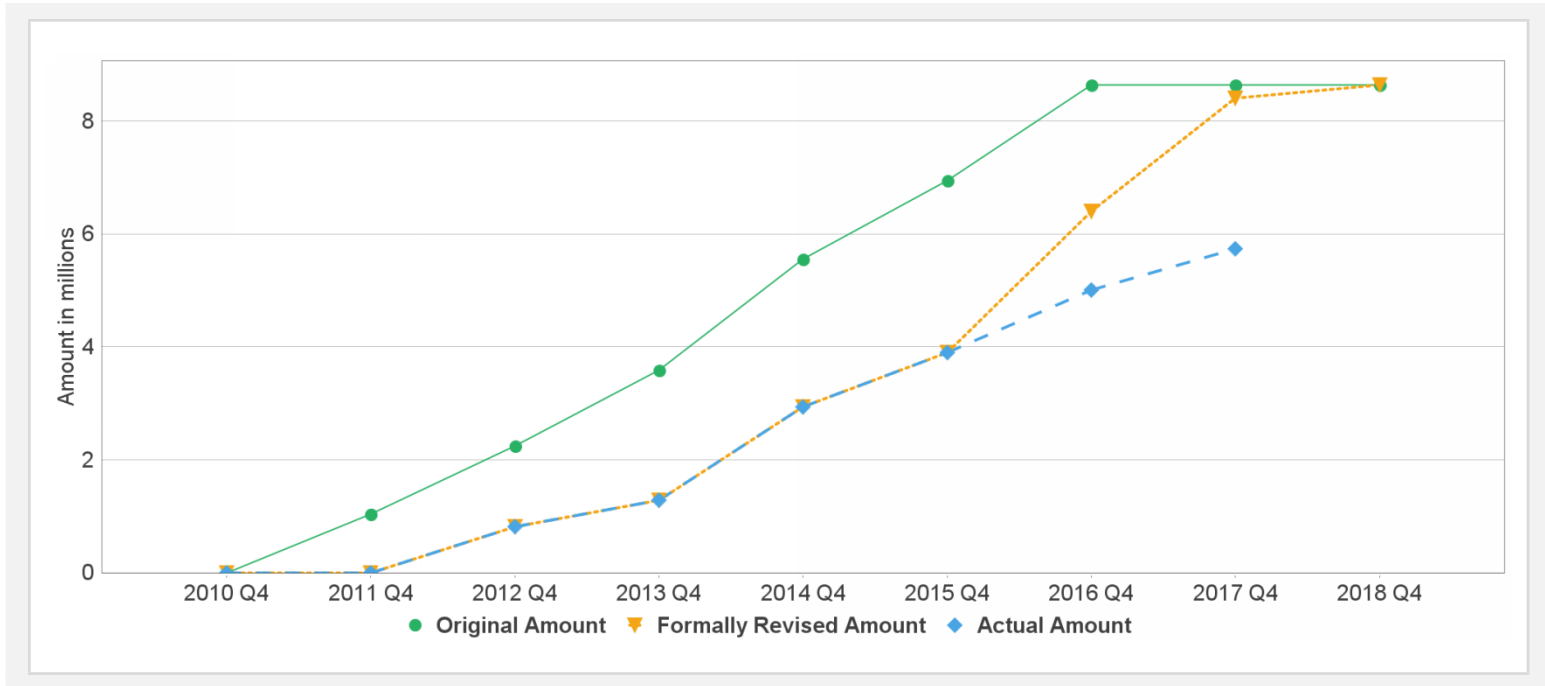
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P106885	TF-95839	Effective	USD	8.64	8.64	0.00	5.74	2.90	 66%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P106885	TF-95839	Effective	28-Jun-2010	28-Jun-2010	24-Jun-2011	30-Jun-2016	30-Jun-2017

Cumulative Disbursements



Restructuring History

Level Approved on 29-Apr-2011 ,Level 2 Approved on 30-Jun-2015

Related Project(s)

There are no related projects.