



Regional Disaster Vulnerability Reduction APL1 - Grenada and St. Vincent and the Grenadines (P117871)

LATIN AMERICA AND CARIBBEAN | OECS Countries | Social, Urban, Rural and Resilience Global Practice Global Practice | IBRD/IDA | Investment Project Financing | FY 2011 | Seq No: 14 | ARCHIVED on 25-Jul-2019 | ISR36941 |

Implementing Agencies: Ministry of Finance, Planning, Sustainable Development and Information Technology, Government of Grenada, Government of St. Vincent and the Grenadines, Ministry Infrastructure Development, Public Utilities, Energy, Transport and Implementation

Key Dates

Key Project Dates

Bank Approval Date: 23-Jun-2011

Effectiveness Date: 18-Oct-2011

Planned Mid Term Review Date: 15-May-2014

Actual Mid-Term Review Date: 19-May-2014

Original Closing Date: 31-Dec-2016

Revised Closing Date: 31-Dec-2020

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Program aims at measurably reducing vulnerability to natural hazards and climate change impacts in the Eastern Caribbean Sub-region. The objective of the Project in Grenada is to measurably reduce vulnerability to natural hazards and climate change impacts in Grenada and in the Eastern Caribbean Sub-region. The objective of the Project in Saint Vincent and the Grenadines is to measurably reduce vulnerability to natural hazards and climate change impacts in Saint Vincent and the Grenadines and in the Eastern Caribbean Sub-region. The achievement of the Program Development Objectives of the Regional Disaster Vulnerability Reduction Program (RDVRP) would be measured using the following key indicators: (a) Reduced risk of OECS population to failure of public buildings and infrastructure due to natural hazards or climate change impacts; and (b) Increased capacity of OECS Governments to identify and monitor climate risk and impacts.

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

No

Components

Name

Component 1 - Prevention and Adaptation Investments:(Cost \$54.23 M)

Component 2 - Regional Platforms for Hazard and Risk Evaluation, and Applications for Improved Decision Making:(Cost \$40.82 M)

Component 3 - Natural Disaster Response Investments:(Cost \$1.00 M)

Component 4 - Project Management and Implementation Support:(Cost \$5.26 M)

Payment of CCRIF Insurance Premium:(Cost \$2.00 M)

Overall Ratings

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



Implementation Status and Key Decisions

The Project has been extended to December 2020 to allow for full achievement of its project development objectives (PDO).

In Grenada, the project has largely met its development objectives with full achievement of most of the PDO-level and intermediate results objectives. Works at Holy Cross RC School have been completed and the contract has been signed for the Hydromet network upgrade. Over the next 6 months the procurement processes for the St Johns River flood mitigation works are expected as well as the tender processes for firms to undertake a national soil survey and a national forest inventory.

In SVG, there are advancements in project implementation and overall execution of works is generally good quality reaching a satisfactory completion in line with the objectives of the Project. Since the last ISR, the following contracts have been awarded (a) construction of Bequia satellite warehouse; (b) slope stabilization and road rehabilitation at Belle Isle, Grand Sable and Longline; (c) reconstruction of the Chateaubelair Jetty; (d) river protection works at Arnos Vale/Warrows river, Fenton, Dauphine and Green Hill; and (e) Kingstown Government School. Over the next six months it is expected that contracts will be awarded for all civil works under the Project including, the coastal defense works and the river strengthening works at Buccament. The Project's technical capacity has been strengthened with the recruitment of additional project engineers and Procurement/Contract Management specialist. In addition, the Bank will provide more hands-on support to ensure that critical milestones are met.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Low	● Low
Macroeconomic	--	● Moderate	● Moderate
Sector Strategies and Policies	--	● Low	● Low
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	--	● Low	● Low
Other	--	--	--
Overall	--	● Substantial	● Substantial

Results

PDO Indicators by Objectives / Outcomes

Reduce vulnerability to natural hazards and climate change impacts in Grenada, SVG and EC

► Direct project beneficiaries (Number, Custom)

Baseline

Actual (Previous)

Actual (Current)

End Target



Value	0.00	110,000.00	110,000.00	110,000.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
▲Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	49.00	49.00	49.00
▶Number of beneficiaries with reduced risk to failure of public buildings and infrastructure due to natural hazards or climate change impacts in SVG and Grenada (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	409.00	609.00	764.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	Grenada - 444 - with the completion of the Holy Cross RC School all works contributing to this indicator are complete. SVG - Dorsetshire School (40), Union Learning Resource Center (125). It is expected that this indication will be fully met with the completion of works at Kingstown Government school in March 2020.			
▲Relocated low income households with access to safe infrastructure addressed under the Project (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	41.00	41.00	41.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
▲Number of beneficiaries with reduced risk to failure of public buildings due to natural hazards or climate change impacts in SVG (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	165.00	165.00	320.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
▶Number of beneficiaries with reduced risk to failure of public buildings due to natural hazards or climate change impacts in Grenada (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	244.00	444.00	444.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	With the completion of the Holy Cross RC School, all the works contributing to this indicator are now complete.			
▶Number of government officials from Public Works; Agriculture; Forestry; NAWASA able to set up and run watershed analysis software (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	15.00



Date	31-Dec-2014	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	Progress on this indicator will be expected within a year on completion of the supply and installation of the hydro-meteorological network. This is currently at contract signature stage.			

Overall Comments

It is expected that all PDO indicators will be achieved by Project closing.

Intermediate Results Indicators by Components

Prevention and Adaptation Investments				
▶Number of beneficiaries with reduced risk to flooding in areas with flood mitigation works financed by the Project in SVG (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	425.00	1,700.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	South River embankment strengthening works are completed. North River embankment strengthening works are ongoing and are expected to be completed by September 2019. Arnos Vale/Warrawarrow river strengthening works are ongoing and expected to be completed by October 2019. Buccament and Carriere river strengthening works expected to start in July 2019 and be completed by February 2020.			
▶Grenada's infrastructure made less vulnerable to natural hazard and climate change impacts in Project areas (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	66.00	100.00	100.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the works contributing to this indicator are now complete.			
▶Designs and Pre engineering/geotechnical studies completed for road protection and bridges rehabilitated under the Project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	6.00	6.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the technical inputs, designs and studies contributing to this indicator are complete.			
▶Designs and Pre engineering/geotechnical studies completed for roads and bridges rehabilitated under the Project in SVG (Number, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	25.00	49.00	27.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	With the completion of the designs and studies for river strengthening works at Buccament, all studies and designs contributing to this indicator are now complete.			
►Number of gallons increase of water storage capacity as a result of the Project in Grenada (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	550,000.00	550,000.00	450,000.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the works contributing to this indicator are complete.			
►Number of gabion baskets used in construction of flood mitigation works in SVG (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,458.00	3,753.00	8,400.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	<p>The indicator incorporates the use of gabions baskets for works by the Government both inside and outside of the Project.</p> <p><i>Within the Project:</i> Gabions were used for works at South River embankment strengthening (completed); are being used for the river strengthening works at North River and Warrowwarrow River (works ongoing) and will be used at the river strengthening works at Buccament (expected to start in the next 6 months).</p> <p><i>Outside the Project:</i> So far, gabions have been used in the execution of defense works at Langley Park (Basin Hole Realignment Project) and the reconstruction of bridges at Top Sharpes and Plan (Chateaubelair), and Kakarta (Fitz Hughes).</p> <p>It is expected that this indicator will be fully achieved with the completion of the river defense at Buccament and Carriere in September 2020.</p>			
►Number of beneficiaries with reduced risk to failure of roads and bridges due to natural hazards or climate change impacts in SVG (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10,000.00	11,956.00	32,156.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	<p>With the Completion of South River Bridge there would be an increase of 10,000 in the number of beneficiaries.</p> <p>Completion of slope stabilization works at English Gutter, German Gutter and practical completion at Ginger Village would result in an additional 10200 beneficiaries.</p> <p>This indicator is expected to be fully achieved with the completion of works in Dark View - May 2020.</p>			
▲of which Female (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,895.00	4,895.00	15,660.00



Date	17-Oct-2016	07-Jan-2019	12-Jul-2019	31-Dec-2020
►Roads rehabilitated, Rural (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	4.00	4.15
Date	17-Oct-2016	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	Works at the Fireburn Feeder road are ongoing with expected completion by December 2019. Works at Ginger Village are substantively completed.			
►Number of agriculture workers benefitting from upgraded feeder roads in SVG (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	142.00
Date	17-Oct-2016	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	Works at the Fireburn Feeder road are ongoing with expected completion by December 2019.			
►Farms benefitting from upgraded access roads (acreage) in SVG (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	268.00	24.30
Date	17-Oct-2016	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	With the completion of works at Ginger Village, about 268 acreage of farm lands are benefitting from access to improved road infrastructure. Ongoing rehabilitation works at the Fireburn Feeder Road will also improve access to farms. It is expected that this activity will be completed by December 2019.			

Regional Platforms for Hazard and Risk Evaluation and Applications

►Number of Government officials trained in forest management under the Project in Grenada (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	8.00
Date	31-Dec-2014	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	Progress is expected within a year on commencement of the forest management exercise and activities. This activity is expected to start on August 2019			
►Increased seedling holding capacity within rehabilitated nurseries in Grenada (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50,000.00



Date	31-Dec-2014	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	Tendering and commencement of this activity expected within the next reporting period.			
►Number of Government officials trained in spatial data analysis under the Project in Grenada (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	15.00
Date	31-Dec-2014	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	Progress expected to start by December 2019.			
►Number of functional hydromet stations providing data to a shared platform in Grenada (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	35.00
Date	31-Dec-2014	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	Progress expected by January 2020 on completion of installation and shared common platform.			
►LiDAR mapping for the entire territory of Grenada completed and available on a shared platform (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	31-Dec-2014	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the activities contributing to this indicator are complete.			
►Public building geo spatial information collected in SVG (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	366.00	366.00	160.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the activities contributing to this indicator are complete.			
►Percentage of public buildings geo referenced in a national exposure database in SVG (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the activities contributing to this indicator are complete.			



►Country-wide Emergency Communication Network is in place (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	17-Feb-2015	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	This activity is expected to begin by September 2019 and be completed by September 2020.			
►Increased capacity of communities to respond to disaster events (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2.00	3.00	6.00
Date	17-Dec-2013	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	This indicator applies to SVG where six satellite warehouses are being constructed under the project. Three satellite warehouses at Sandy Bay (Magum), Georgetown and Rose Hall were completed. Construction is ongoing for satellite warehouses at Mesopotamia (Marriaqua) and Union Island with expected completion in September 2019. Construction for the Satellite warehouse in Bequia has started and is expected be completed by March 2020.			
►Number of location specific exposure maps completed by staff trained under the Project in SVG (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	21.00	21.00	20.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
►Number of Government officials who complete training on producing location specific exposure maps in SVG (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2.00	23.00	23.00	23.00
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the activities contributing to this indicator are complete.			
Natural Disaster Response Investments				
►Operations Manual prepared and action plan of activities updated annually to ensure preparation to facilitate disbursement in the event of an emergency (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	23-Jun-2011	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the activities contributing to this indicator are complete.			



Payment of CCRIF Insurance Premium				
►Country is eligible for insurance payment (and has received payment) in case of an insured event (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	23-Apr-2013	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All the activities contributing to this indicator are complete.			

Project Management and Implementation Support				
►Percentage of activities that have incorporated a beneficiary feedback system in SVG (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	50.00
Date	17-Oct-2016	07-Jan-2019	12-Jul-2019	31-Dec-2020
Comments:	All activities include a beneficiary feedback system including: public meetings, stakeholder consultations, presentation of designs to communities, media announcements (when appropriate) and the grievance redress mechanism.			

Overall Comments

It is expected that all Intermediate indicators will be achieved by Project closing.

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P117871	IDA-49850	Effective	USD	10.00	10.00	0.00	8.87	0.05	99%
P117871	IDA-49860	Effective	USD	10.92	10.92	0.00	5.46	4.45	55%
P117871	IDA-54500	Effective	USD	35.60	35.60	0.00	1.86	30.09	5.8%
P117871	TF-10204	Closed	USD	8.00	8.00	0.00	8.00	0.00	100%
P117871	TF-10206	Closed	USD	7.00	7.00	0.00	7.00	0.00	100%

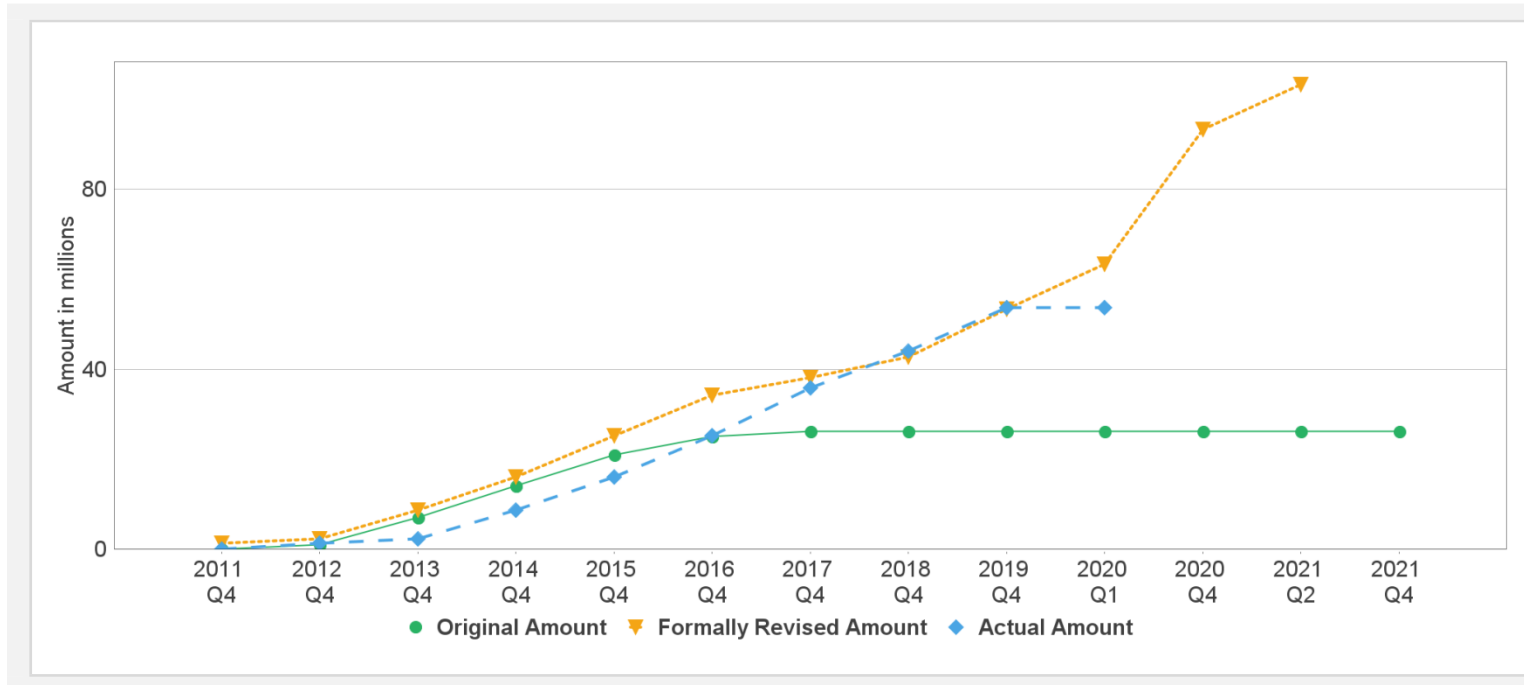


Project ID	Loan/Credit/TF	Status	Currency	Approved	Disbursed	Uncommitted	Committed	Disbursed	Progress	Completion %
P117871	TF-11131	Effective	USD	8.20	8.20	0.00	5.67	2.53		69%
P117871	TF-11132	Effective	USD	3.00	3.00	0.00	2.09	0.91		70%
P117871	TF-16733	Effective	USD	5.00	5.00	0.00	5.00	0.00		100%
P117871	TF-19232	Closed	USD	5.00	5.00	0.00	5.00	0.00		100%
P117871	TF-19396	Effective	USD	3.80	3.80	0.00	0.00	3.80		0%
P117871	TF-A3698	Effective	USD	5.48	5.48	0.00	4.72	0.90		84%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P117871	IDA-49850	Effective	23-Jun-2011	20-Sep-2011	01-Nov-2011	31-Dec-2016	31-Dec-2020
P117871	IDA-49860	Effective	23-Jun-2011	09-Sep-2011	18-Oct-2011	31-Dec-2016	31-Dec-2020
P117871	IDA-54500	Effective	09-May-2014	14-Aug-2014	12-Nov-2014	31-Dec-2018	31-Dec-2020
P117871	TF-10204	Closed	20-Sep-2011	20-Sep-2011	01-Nov-2011	31-Dec-2016	31-Dec-2018
P117871	TF-10206	Closed	09-Sep-2011	09-Sep-2011	18-Oct-2011	31-Dec-2016	31-Dec-2018
P117871	TF-11131	Effective	23-Jun-2011	20-Sep-2011	01-Nov-2011	31-Dec-2016	31-Dec-2020
P117871	TF-11132	Effective	23-Jun-2011	09-Sep-2011	18-Oct-2011	31-Dec-2016	31-Dec-2020
P117871	TF-16733	Effective	14-Aug-2014	14-Aug-2014	12-Nov-2014	31-Dec-2018	31-Dec-2020
P117871	TF-19232	Closed	08-Jun-2015	12-Aug-2015	10-Nov-2015	31-Dec-2018	31-Dec-2018
P117871	TF-19396	Effective	08-Jun-2015	12-Aug-2015	10-Nov-2015	31-Dec-2018	31-Dec-2020
P117871	TF-A3698	Effective	16-May-2017	16-May-2017	31-Jul-2017	31-Dec-2018	30-Dec-2020

Cumulative Disbursements



Restructuring History

Level 1 Approved on 08-May-2012 ,Level 2 Approved on 25-Jun-2012 ,Level 2 Approved on 31-May-2013 ,Level 2 Approved on 10-Aug-2015 ,Level 1 Approved on 08-Feb-2017 ,Level 2 Approved on 10-Dec-2018

Related Project(s)

P146768-Regional Disaster Vulnerability Reduction Project (Additional Finance) ,P149259-Regional Disaster Vulnerability Reduction Project (Additional Finance) ,P157918-St. Vincent and the Grenadines RDVRP AF