

# PMR Public Report

<b>Operation Number</b>	BL-L1028	<b>Chief of Operations Validation Date</b>	04/13/22
<b>Year- PMR Cycle</b>	Second period Jan-Dec 2021	<b>Division Chief Validation Date</b>	04/13/22
<b>Last Update</b>	04/12/22	<b>Country Representative Validation Date</b>	05/06/22
<b>PMR Validation Stage</b>	Validated by Representative		

## Basic Data

### Operation Profile

<b>Operation Name</b>	Climate Vulnerability Reduction Program	<b>Loan Number</b>	4426/OC-BL
<b>Executing Agency</b>	Ministry of Works, MINISTRY OF INFRASTRUCTURE DEVELOPMENT AND HOUSING	<b>Sector/Subsector</b>	ENVIRONMENT AND NATURAL DISASTERS-CLIMATE CHANGE ADAPTATION POLICY
<b>Team Leader</b>	SUAREZ VAZQUEZ, GINES	<b>Overall Stage</b>	Disbursing (From eligibility until all the Operations are closed)
<b>Operation Type</b>	Loan Operation	<b>Country</b>	Belize
<b>Lending Instrument</b>	Investment Loan	<b>Convergence related Operation(s)</b>	
<b>Borrower</b>	BELIZE		

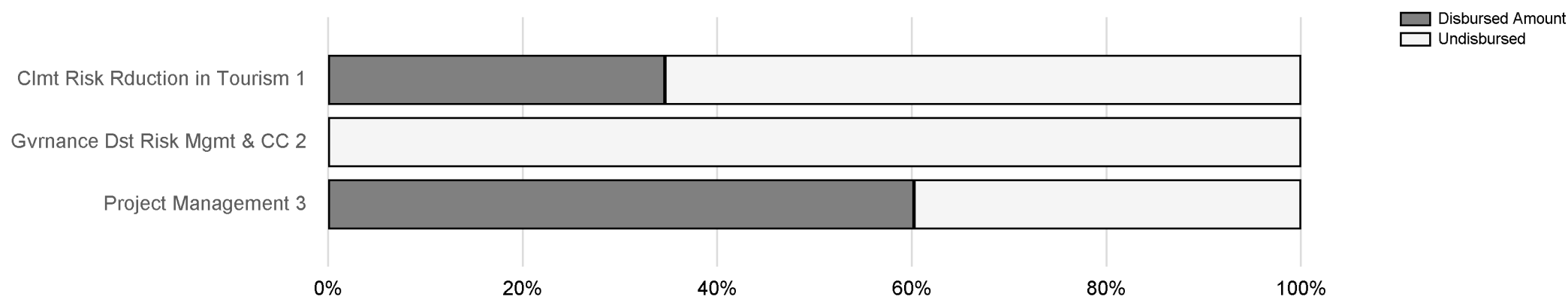
### Environmental and Social Safeguards

<b>Impacts Category</b>	B	<b>Was/Were the objective(s) of this operation reformulated?</b>	NO
<b>Safeguard Performance Rating</b>	Satisfactory	<b>Date of approval</b>	
<b>Safeguard Performance Rating - Rationale</b>	The operation has an Environmental and Social Management Plan (ESMP) and a Livelihood Restoration Plan (LRP). The Ministry of Infrastructure, Development and Housing (MIDH), which has experienced environmental and social specialists, is implementing adequately the ESMP and LRP, that was expanded and improved with Bank support during 2020. Although some documentation needs to be updated, both plans are being carried out in accordance with the Bank's standards and requirements.		

### Financial Data

Operations	Total Cost and Source					Available Funds (US\$)			
	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Amount
BL-L1028	10,000,000	10,000,000	0	0	10,000,000	10,000,000	6,013,372	60.13%	3,986,628
<b>Aggregated</b>	<b>10,000,000</b>	<b>10,000,000</b>	<b>0</b>	<b>0</b>	<b>10,000,000</b>	<b>10,000,000</b>	<b>6,013,372</b>	<b>60.13%</b>	<b>3,986,628</b>

### Expense Categories by Loan Contract (cumulative values)



Please note that inactive indicators and outputs are not displayed; totals in the actual cost table may not match the sum of the cost of the outputs displayed, due to the cost of inactive outputs.

**RESULTS MATRIX**

**General Development Objectives**

**General Development Objectives Nbr. 0:** Climate vulnerability and risk reduced

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
0.0	Reduction of household annual economic losses caused by recurrent floods in the Orange St. area	% change	0	2018	2022	P	100
						A	-

**Details**

**Means of Verification:** Baseline and follow-up surveys for ex ante economic analysis and impact evaluation

**Observations:** Economic losses caused by floods represent the economic vulnerability to floods. They include the disaster effects on physical assets and economic flows and consider comparable recurrent events (1-5 years).

**The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO):** No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	
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Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
0.1	Reduction of household annual economic losses caused by recurrent floods in Caye Caulker	% change	0	2018	2022	P	100
						A	-

**Details**

**Means of Verification:** Baseline and follow-up surveys for ex ante economic analysis and impact evaluation

**Observations:** Economic losses caused by floods represent the economic vulnerability to floods. They include the disaster effects on physical assets and economic flows and consider comparable recurrent events (1-5 years).

**The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO):** No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	
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Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
0.2	Reduction of projected losses of overnight visitor expenditures in Belize City	% change	0	2018	2022	P	12
						A	-

**Details**

**Means of Verification:** Risk assessment model for Belize City, adjusted with baseline and follow-up survey data for ex ante economic analysis and impact evaluation, and data from The Belize Tourism Board

**Observations:** The intervention will result in avoided visitor expenditure losses.

**The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO):** No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	
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Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
0.3	Reduction of projected losses of overnight visitor expenditures in Caye Caulker	% change	0	2018	2022	P	12
						A	-

**Details**

**Means of Verification:** Risk assessment model for Caye Caulker, adjusted with baseline and follow-up survey data for ex ante economic analysis and impact evaluation, and data from The Belize Tourism Board

**Observations:** The intervention will result in avoided visitor expenditure losses.

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			
Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2023	
0.4	Decrease in the annual disaster mortality rate in Belize City	% change	0	2018	2022	P	3
						A	-

**Details**  
**Means of Verification:** Statistical Institute of Belize and National Emergency Management Office

**Observations:** Expected decrease based on estimates by Guerrero, Salazar and Lacambra (2017).

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

## RESULTS MATRIX

### Specific Development Objectives

**Specific Development Objectives Nbr. 0:** Mitigation of risk for residents

**Observation:**

Indicator	Unit of Measure	Baseline	Baseline Year		2022	EOP 2023	
0.0	Reduction of people affected by recurrent floods in the Orange St. area.	# of beneficiaries	0	2018	P	-	7,079
					A	-	-

#### Details

**Means of Verification:** Risk assessment model for Belize City, adjusted with baseline and follow up surveys information for ex ante economic analysis and impact evaluation

**Observations:** People affected by floods represent the human vulnerability to floods. People affected include injured, evacuated, relocated, with houses and its assets being damaged or destroyed, or requiring emergency assistance and considers comparable recurrent events (1-5 years).

**Evaluation Methodology:** -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.20.a Beneficiaries of enhanced disaster and climate change resilience (# beneficiaries) (C)

Indicator	Unit of Measure	Baseline	Baseline Year		2022	EOP 2023	
0.1	Reduction of people affected by recurrent floods in Caye Caulker.	# of beneficiaries	0	2018	P	-	144
					A	-	-

#### Details

**Means of Verification:** Risk assessment model for Caye Caulker, adjusted with baseline and follow-up surveys information for ex ante economic analysis and impact evaluation

**Observations:** People affected by floods represent the human vulnerability to floods. People affected include injured, evacuated, relocated, with houses and its assets being damaged or destroyed, or requiring emergency assistance and considers comparable recurrent events (1-5 years).

**Evaluation Methodology:** -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.20.a Beneficiaries of enhanced disaster and climate change resilience (# beneficiaries) (C)

**Specific Development Objectives Nbr. 1:** Enhanced tourism

**Observation:**

Indicator	Unit of Measure	Baseline	Baseline Year		2022	EOP 2023	
1.0	Tourist satisfaction in Palapa Beach (Caye Caulker) and Goff's Caye	# of score	59	2018	P	-	67
					A	-	-

#### Details

**Means of Verification:** Baseline and follow up surveys for the ex ante economic analysis and impact evaluation and Goff's Caye Visitor Satisfaction Survey Report

**Observations:** Score is the percentage of respondents who answered that the overall satisfaction of the site/reef is high.

**Evaluation Methodology:** -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

**Specific Development Objectives Nbr. 2:** Improved government performance in disaster risk governance

**Observation:**

Indicator	Unit of Measure	Baseline	Baseline Year		2022	EOP 2023	
2.0	Government agencies benefited by projects that strengthen technological and managerial tools to improve public service delivery	# of government agencies	0	2018	P	-	5
					A	-	-

#### Details

**Means of Verification:** Semiannual progress reports

**Observations:** The Ministry of Works (MoW), the Ministry of Tourism and Civil Aviation (MTCA), the Climate Change Office (NCCO), the National Emergency Management Office (NEMO) and the Coastal Zone Management Authority and Institute (CZMAI) will be the target agencies. The MoW will execute the investments of Component 1, and the MoW, MTCA and CZMAI will be the users of the Climate Risk Information System, building codes and financial protection strategy.

**Evaluation Methodology:** -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator				
<b>Indicator</b>				<b>Unit of Measure</b>	<b>Baseline</b>	<b>Baseline Year</b>	<b>2022</b>	<b>EOP 2023</b>
2.1	Improvement in iGOPP Financial Protection component			% increase	0	2018	P	-
							A	-

**Details**

**Means of Verification:** iGOPP report for Belize; follow-up iGOPP estimation after completion of the program

**Observations:** The current value of the financial protection index is 8% and with the intervention it's expected that the indicator FP-2-15 (Does the Ministry of Agriculture have a structure for the financial protection of the agriculture sector (or equivalent) against disaster risk?) will be fulfilled and the sub-index will reach a value of 9% (increase 12.5%). Improvement derives from actions not financed by the project but attributable to the intervention.

**Evaluation Methodology:** -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator				
<b>Indicator</b>				<b>Unit of Measure</b>	<b>Baseline</b>	<b>Baseline Year</b>	<b>2022</b>	<b>EOP 2023</b>
2.2	Improvement in iGOPP's Risk Identification component			% increase	0	2018	P	-
							A	-

**Details**

**Means of Verification:** iGOPP report for Belize; follow-up iGOPP estimation after completion of the program

**Observations:** The current value of the risk identification index is 8% and with the intervention it's expected that the indicator IR-1A-3 (Are there regulations ordering the creation and maintenance of Information Systems for Disaster Risk Management?) against disaster risk?) will be fulfilled and the sub-index reach a value of 13% (increase 62.5%). Improvement derives from actions not financed by the project but attributable to the intervention.

**Evaluation Methodology:** -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator				

**RESULTS MATRIX**
**OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS**
**Component Nbr. 1 Climate risk reduction in the tourism sector**

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2023	2021	EOP 2023
1.01	Flood reduction investment works in Belize City, executed	# Project sites	P	1	6	2,645,363	6,761,020
			P (a)	3	5	3,189,643	5,835,282
			A	2	3	2,263,905	3,597,197
1.02	Coastal protection hybrid and nature-based infrastructure in Caye Caulker, implemented	# of structures	P	1	1	31,156.25	443,700
			P (a)	-	1	-	443,700
			A	-	-	-	-
1.03	Coastal protection intervention and tourism enhancement in Goff's Caye, implemented	# of structures	P	1	1	39,856.25	617,700
			P (a)	-	1	100,000	540,917
			A	-	-	23,217	23,217
1.04	Management plans approved	Plans (#) approved	P	-	2	-	417,341
			P (a)	-	2	417,341	50,691
			A	-	-	50,691	50,691

**Component Nbr. 2 Governance for disaster risk management and climate change adaptation**

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2021	EOP 2023	2021	EOP 2023
2.01	Climate Risk Information System in operation	accomplishment of milestone	P	1	1	143,472	478,241
			P (a)	-	1	334,769	143,472
			A	-	-	-	-
2.02	Tourism and land use building codes incorporating nature-based solutions approved	proposal document submitted	P	-	1	-	70,000
			P (a)	1	-	70,000	18,009
			A	-	-	18,009	18,009
2.03	Climate Risk Financial Strategy for the Agricultural and Tourism Sectors	proposal document and 5 year operational plan submitted	P	1	1	21,000	70,000
			P (a)	1	-	49,000	21,000
			A	-	-	-	-

**Other Cost**

Technical Unit	P	282,010	926,998
	P (a)	282,010	733,740
	A	88,752	508,723
Annual Evaluations and Audits	P	30,000	215,000
	P (a)	55,000	172,440
	A	12,440	29,023

**Total Cost**

Total Cost	P	3,192,857.5	10,000,000
	P (a)	4,497,763	7,959,251
	A	2,457,014	4,226,860

**CHANGES TO THE MATRIX**

<b>Section</b>	<b>Name</b>	<b>Type of Change</b>	<b>Sub type</b>	<b>Modified By</b>	<b>Entered in System</b>
Output	Coastal protection intervention and tourism enhancement in Goff's Caye, implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ASTRIDS	3/24/2022
	Flood reduction investment works in Belize City, executed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ASTRIDS	3/24/2022
	Management plans approved	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ASTRIDS	3/24/2022
	Tourism and land use building codes incorporating nature-based solutions approved	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	ASTRIDS	3/24/2022

**RISKS AND PLANNED RESPONSES**

Risk ID	Risk Status	Risk Taxonomy	
2	Inactive	Environmental and Social Safeguards	
	<b>Response Actions</b>		
	2.1	Management Strategy	Status
		MITIGATE	INACTIVE

Risk ID	Risk Status	Risk Taxonomy	
4	Inactive	Environmental and Social Safeguards	
	<b>Response Actions</b>		
	4.1	Management Strategy	Status
		MITIGATE	INACTIVE

Risk ID	Risk Status	Risk Taxonomy	
5	Active	Environmental and Social Safeguards	
	<b>Response Actions</b>		
	5.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
7	Active	Environmental and Social Safeguards	
	<b>Response Actions</b>		
	7.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
10	Active	Governance Framework	
	<b>Response Actions</b>		
	10.1	Management Strategy	Status
		MITIGATE	INACTIVE



Risk ID	Risk Status	Risk Taxonomy	
12	Active	Environmental and Social Safeguards	
	<b>Response Actions</b>		
	12.1	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
14	Active	Human Resources	
	<b>Response Actions</b>		
	14.1	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
15	Active	Sustainability	
	<b>Response Actions</b>		
	15.1	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
18	Active	Environmental and Social Safeguards	
	<b>Response Actions</b>		
	18.1	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
19	Active	Environmental and Social Safeguards	
	<b>Response Actions</b>		
	19.1	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
21	Active	Environmental and Social Safeguards	
	<b>Response Actions</b>		
	21.1	<b>Management Strategy</b>	<b>Status</b>
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
24	Inactive	Political Environment	
	<b>Response Actions</b>		
	24.1	Management Strategy	Status
		MITIGATE	INACTIVE

Risk ID	Risk Status	Risk Taxonomy	
25	Active	Internal Processes	
	<b>Response Actions</b>		
	25.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
28	Active	Internal Processes	
	<b>Response Actions</b>		
	28.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy	
30	Inactive	Internal Processes	
	<b>Response Actions</b>		
	30.1	Management Strategy	Status
		MITIGATE	INACTIVE

**IMPLEMENTATION STATUS AND LEARNING**

**Lesson Learned - Categories**

Project Management Capacity