PMR Public Report

Operation Number	BH-L1043	**Chief of Operations Validation Date**	04/06/22
Year- PMR Cycle	Second period Jan-Dec 2021	**Division Chief Validation Date**	04/18/22
Last Update	03/28/22	**Country Representative Validation Date**	05/04/22
PMR Validation Stage	Validated by Representative		

Basic Data

Operation Profile

Operation Name	Climate Resilient Coastal Mangement and Infrastructure Program	**Loan Number**	4363/OC-BH
Executing Agency	MINISTRY OF PUBLIC WORKS	**Sector/Subsector**	ENVIRONMENT AND NATURAL DISASTERS-COASTAL ZONE MANAGEMENT
Team Leader	HORI, TSUNEKI	**Overall Stage**	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Loan Operation	**Country**	Bahamas
Lending Instrument	Investment Loan	**Convergence related Operation(s)**	
Borrower	THE COMMONWEALTH OF THE BAHAMAS		

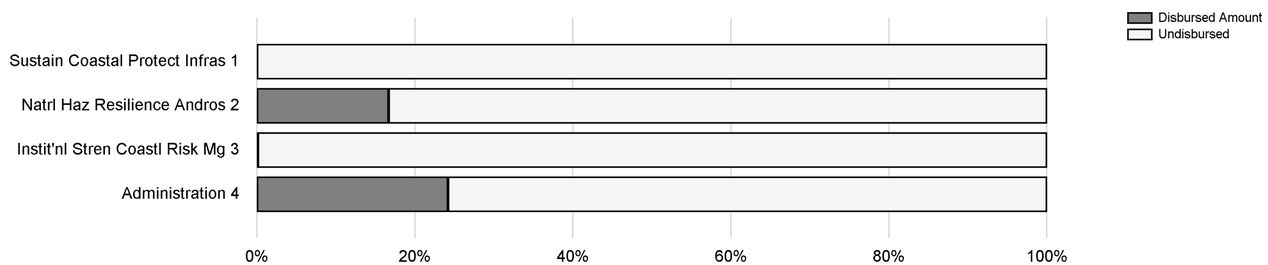
Environmental and Social Safeguards

Impacts Category	B	**Was/Were the objective(s) of this operation reformulated?**	NO
Safeguard Performance Rating		**Date of approval**	
Safeguard Performance Rating - Rationale			

Financial Data

	Total Cost and Source					Available Funds (US$)			
Operations	**Original IDB**	**Current IDB**	**Local Counterpart**	**Co-Financing / Country**	**Total Original Cost**	**Current IDB**	**Disb. Amount to Date**	**% Disbursed**	**Undisbursed Amount**
BH-L1043	35,000,000	35,000,000	0	0	35,000,000	35,000,000	1,028,166.68	2.94%	33,971,833.32
Aggregated	**35,000,000**	**35,000,000**	**0**	**0**	**35,000,000**	**35,000,000**	**1,028,166.68**	**2.94%**	**33,971,833.32**

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. 1: Social resilience to coastal hazard events in New Providence, Eastern Grand Bahama, Central Long Island and Andros increased

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		EOP 2024
1.1	People injured, evacuated, relocated, with houses being damaged or destroyed, or requiring emergency assistance due to storms and floods over a three-year period.	# of beneficiaries	6710	2014	2024	P	6,370
						A	-

Details

Means of Verification: DesInventar

Observations: This is a lower-bound 2014-2016 estimate as it currently includes data from large-scale disasters only. It will be updated yearly through new DesInventar records as they become available

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	2.20.a Beneficiaries of enhanced disaster and climate change resilience (# beneficiaries) (C)

	Male	P	-
		A	-
	Female	P	-
		A	-

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		EOP 2024
1.1	Economic losses caused by storms and floods over a three-year period.	USD millions of 2015	543	2018	2024	P	516
						A	-

Details

Means of Verification: DesInventar

Observations: This is a lower-bound 2014-2016 estimate as it currently includes data from large-scale disasters only. It will be updated yearly through new DesInventar records as they become available

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	

General Development Objectives Nbr. 2: Environmental resilience to coastal hazard events in New Providence, Eastern Grand Bahama, Central Long Island and Andros maintained or increased

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		EOP 2024
2.1	People exposed to reduced coastal risk due to attenuation of waves, erosion and flooding by coral reefs, mangroves and seagrasses.	# of beneficiaries	4610	2015	2024	P	4,953
						A	-

Details

Means of Verification: InVEST Coastal Vulnerability Model

Observations:

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	2.20.a Beneficiaries of enhanced disaster and climate change resilience (# beneficiaries) (C)

	Male	P	-

		Male	A	-
		Female	P	-
			A	-

General Development Objectives Nbr. 3: Economic resilience to coastal hazard events in New Providence increased

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement		EOP 2024
3.1	Total cruise ship tourism expenditures in Nassau and Paradise Island	USD millions of 2015	1109	2015	2024	P	1,192
						A	-
Details							

Means of Verification: Department of Statistics, GOBH

Observations:

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. 1: Component 1. Sustainable coastal protection infrastructure

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.1	Terrestrial and marine protected areas with improved coastal zone management in EGB	hectares	0	2017	P	-	-	-	-	-	-	48,764.62	48,764.62
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from The Bahamas National Trust (BNT)

Observations: The definition of this indicator is total terrestrial and marine area that is designated as a protected area and is managed systematically with effective measures by the government. See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	**Pro-Ethnicity**	No	CRF indicator	2.21 Habitat that is sustainably managed using ecosystem-based approaches (hectares) (C)

Disaggregation		Forest and forest dominated	P	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-
		Wetlands and freshwater systems	P	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-
		Coastal and marine	P	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.2	# of households with improved road access to Freeport due to flood reduction in EGB	# of households	0	2017	P	-	-	-	-	-	-	77	77
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from the Department of Statistics (statistical office in Freeport)

Observations: See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	**Pro-Ethnicity**	No	CRF indicator	2.20.b Households with enhanced disaster and climate change resilience (# households) (C)

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.3	# of people visiting the beaches and harbor area in New Providence	Visitors (#)	3266353	2017	P	-	-	-	-	-	-	3,985,280	3,985,280
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from The Bahamas Ministry of Tourism

Observations: See M&E plan and Economic Assessment Report for details

Evaluation Methodology: -

Pro-Gender	No	**Pro-Ethnicity**	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.4	Households protected from flood risk (#) in Central Long Island	# of households	0	2017	P	-	-	-	-	-	-	328	328
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from the Department of Statistics

Observations: See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	2.20.b Households with enhanced disaster and climate change resilience (# households) (C)

Specific Development Objectives Nbr. 2: Component 2. Natural infrastructure for hazard resilience in Andros

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.1	# of people in the local communities participating in the designing, monitoring and maintenance of the nature based solution	People (#)	0	2017	P	-	-	-	-	-	-	220	220
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Community workshop reports

Observations: See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.2	Coastline where coastal risk is reduced based on the protection provided by natural habitat	Shoreline coverage (%)	71	2018	P	-	-	-	-	-	-	71	71
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: InVEST Coastal Vulnerability Model

Observations: Baseline is the share of Andros coastline where coastal habitats reduce risks from waves, flooding and erosion in 2015. National estimates will be provided for both baseline and end-of-project years in the ex-post impact evaluation

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.3	% of women participating in the designing, monitoring and maintenance of the nature based solution.	Women (%)	51	2018	P	-	-	-	-	-	-	61	61
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Community workshop reports

Observations: Gender tracking See M&E plan for the EOI value calculation used for this indicator

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.4	Amount of CO2 captured by restored mangrove	Volume (tons)	0	2018	P	-	-	-	-	-	-	28,800	28,800
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data (Mangrove restoration area) from BNT

Observations: See M&E plan for the CO2 calculation model used for this indicator

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator	

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.5	Beneficiaries of improved management and sustainable use of natural capital	# of beneficiaries	0	2018	P	-	-	-	-	-	-	9,221	9,221
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Data from the Department of Statistics

Observations: See M&E plan for the EOI value calculation used for this indicator

Evaluation Methodology: -

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

				2018	2019	2020	2021	2022	2023	2024	EOP 2024
Disaggregation		Male	P	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-
		Female	P	-	-	-	-	-	-	-	-
			A	-	-	-	-	-	-	-	-

Specific Development Objectives Nbr. 3: Component 3. Institutional strengthening for coastal risk management

Observation:

	Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
3.1	Government agencies benefited by projects that strengthen technological and managerial tools to improve public service delivery (#)	Government agencies (#)	0	2017	P	-	-	-	-	-	-	1	1
					A	-	-	-	-	-	-	-	-

Details

Means of Verification: Semiannual progress reports

Observations: MOWUD as the government agency will be the target agency. “strengthen technological and managerial tools to improve public service delivery” refers to the accomplishment of: - Coastal Program Management Unit (CPU) in operation (output 3.1) - Costal Hazard monitoring in operation (output 3.2) - Sustainable finance study developed and approved (output 3.3) See M&E plan for details

Evaluation Methodology: -

Pro-Gender	No	**Pro-Ethnicity**	No	CRF indicator	

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Component # 1: Sustainable coastal protection infrastructure

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2024	2021	EOP 2024
1.01	Output 1.1.1: Baseline study at East Grand Bahama completed	Studies (#)	P	1	1	200,000	447,000
			P (a)	-	1	125,000	430,000
			A	-	-	1,500	1,500
1.02	Output 1.1.2: Detailed infrastructure design at East Grand Bahama completed	Design work document (#)	P	-	1	-	50,000
			P (a)	-	1	25,000	60,000
			A	-	-	-	-
1.03	Output 1.1.3: Coastal protection natural infrastructure at EGB implemented	Project sites (#)	P	-	2	-	60,000
			P (a)	-	2	-	100,000
			A	-	-	1,500	1,500
1.04	Output 1.1.4: Coastal protection (structural solutions) infrastructure at EGB implemented	Households (#)	P	-	2	-	1,943,000
			P (a)	-	2	-	2,010,200
			A	-	-	-	-
1.05	Output 1.2.1: Baseline study in New Providence completed	Project sites (#)	P	-	1	500,000	1,172,400
			P (a)	-	1	200,000	650,000
			A	-	-	-	-
1.06	Output 1.2.2: Detailed Infrastructure design in New Providence completed	Design work document (#)	P	-	1	-	400,000
			P (a)	-	1	125,000	600,000
			A	-	-	-	-
1.07	Output 1.2.3: Coastal protection hard infrastructure in New Providence implemented	Types of Structure measures (#)	P	-	2	-	6,427,600
			P (a)	-	2	-	7,877,600
			A	-	-	-	-
1.08	Output 1.2.4: Harbor protection measures in New Providence implemented	Structure measures (#)	P	-	2	-	10,000,000
			P (a)	-	2	-	11,000,000
			A	-	-	-	-
1.09	Output 1.3.1: Baseline study in Central Long Island completed	Studies (#)	P	1	1	400,000	700,000
			P (a)	-	1	70,000	900,000
			A	-	-	-	-
1.10	Output 1.3.2: Detailed infrastructure design in Central Long Island completed	Design work document (#)	P	-	1	-	150,000
			P (a)	-	1	30,000	60,000
			A	-	-	-	-
1.11	Output 1.3.3: Coastal flood reduction infrastructure in Central Long Island implemented	Project sites (#)	P	-	4	-	2,150,000
			P (a)	-	4	-	2,150,000
			A	-	-	-	-

Component Nbr. 2 Component # 2: Natural infrastructure for hazard resilience in Andros

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2024	2021	EOP 2024
2.01	Output 2.1: Baseline study to inform selection of priority sites for demonstration projects in Andros completed	Studies (#)	P	1	1	100,000	200,000
			P (a)	1	1	200,000	700,000
			A	-	-	-	-
2.02	Output 2.2: Stakeholder validation workshops in each district executed	Workshops (#)	P	-	4	-	10,000
			P (a)	2	4	5,000	5,000
			A	-	-	-	-
2.03	Output 2.3: Site specific assessment for nature-based intervention completed	Assessment document (#)	P	-	4	-	700,000
			P (a)	-	4	75,000	700,000
			A	-	-	75,000	75,000
2.04	Output 2.4: Coastal ecosystems restoration implemented	Hectares	P	-	200	-	2,050,000
			P (a)	-	200	300,000	1,500,000
			A	-	-	400,000	400,000
2.05	Output 2.5: Communication and community participation plan for project sustainability completed	Planning document (#)	P	-	1	-	40,000
			P (a)	-	1	15,000	40,000
			A	-	-	25,000	25,000

Component Nbr. 3 Component III: Institutional strengthening for coastal risk management

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2024	2021	EOP 2024
3.01	Output 3.1: Coastal Program Management Unit (CPU) in operation	Accomplishment of milestone (#)	P	-	6	-	1,600,000
			P (a)	-	6	70,000	329,000
			A	-	-	29,000	29,000
3.02	Output 3.2: Costal Hazard monitoring in operation	Accomplishment of milestone (#)	P	-	3	-	980,000
			P (a)	-	3	100,000	880,000
			A	-	-	15,000	15,000
3.03	Output 3.3: Sustainable finance study developed and approved	Study document (#)	P	-	1	-	920,000
			P (a)	-	1	-	920,000
			A	-	-	-	-

Other Cost				
	Contingencies	P		3,000,000
		P (a)		3,000,000
		A		0
	Program Implementation Unit	P		1,500,000
		P (a)	250,000	1,046,200
		A	121,200	671,200
	Financial Audits	P		200,000
		P (a)	60,000	27,000
		A	5,000	5,000
	Evaluation and Monitoring	P		300,000
		P (a)		15,000
		A		0

Total Cost				
	Total Cost	P	1,200,000	35,000,000

	Total Cost	P (a)	1,650,000	35,000,000
		A	673,200	1,223,200

CHANGES TO THE MATRIX

Section	Name	Type of Change	Sub type	Modified By	Entered in System
Output	Output 1.1.1: Baseline study at East Grand Bahama completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 1.1.2: Detailed infrastructure design at East Grand Bahama completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 1.1.4: Coastal protection (structural solutions) infrastructure at EGB implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 1.2.1: Baseline study in New Providence completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 1.2.2: Detailed Infrastructure design in New Providence completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 1.2.3: Coastal protection hard infrastructure in New Providence implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 1.2.4: Harbor protection measures in New Providence implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 1.3.1: Baseline study in Central Long Island completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 1.3.2: Detailed infrastructure design in Central Long Island completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 2.1: Baseline study to inform selection of priority sites for demonstration projects in Andros completed	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 2.4: Coastal ecosystems restoration implemented	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022
	Output 3.1: Coastal Program Management Unit (CPU) in operation	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	TSUNEKIH	3/10/2022

RISKS AND PLANNED RESPONSES

Risk ID	Risk Status	Risk Taxonomy
2	Inactive	Planning

Response Actions

	Management Strategy	Status
2.1	MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy
4	Inactive	Planning

Response Actions

	Management Strategy	Status
4.1	ACCEPT	COMPLETE

Risk ID	Risk Status	Risk Taxonomy
5	Inactive	Planning

Response Actions

	Management Strategy	Status
5.1	ACCEPT	COMPLETE

Risk ID	Risk Status	Risk Taxonomy
8	Inactive	Natural Environment

Response Actions

	Management Strategy	Status
8.1	ACCEPT	COMPLETE
8.2	ACCEPT	ACTIVE

Risk ID	Risk Status	Risk Taxonomy
9	Inactive	Institutional Environment

Response Actions

	Management Strategy	Status
9.0	-	

Risk ID	Risk Status	Risk Taxonomy
12	Inactive	Political Environment
	Response Actions	
	12.1	**Management Strategy**	**Status**
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy
14	Inactive	Organizational Structure
	Response Actions	
	14.1	**Management Strategy**	**Status**
		MITIGATE	ACTIVE
	14.2	**Management Strategy**	**Status**
		MITIGATE	ACTIVE

Risk ID	Risk Status	Risk Taxonomy
15	Active	Political Environment
	Response Actions	
	15.1	**Management Strategy**	**Status**
		ACCEPT	ACTIVE

IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories
Project Design