Improving Climate Data and Information Management (P129633)

LATIN AMERICA AND CARIBBEAN | Jamaica | Environment, Natural Resources & the Blue Economy Global Practice | Recipient Executed Activities | Investment Project Financing | FY 2016 | Seq No: 13 | ARCHIVED on 21-Dec-2021 | ISR49438 |

Implementing Agencies: Planning Institute of Jamaica, Jamaica

Key Dates

Key Project Dates

Bank Approval Date: 28-Jul-2015 Effectiveness Date: 14-Dec-2015

Planned Mid Term Review Date: 14-Sep-2018 Actual Mid-Term Review Date: 17-Oct-2018

Original Closing Date: 30-Apr-2021 Revised Closing Date: 30-Apr-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objective is to improve the quality and use of climate related data and information for effective planning and action at local and national levels.

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

Components

Name

Component 1: Upgrading hydro-meteorological data collection, processing and forecasting systems:(Cost \$4.01 M)

Component 2 : Climate Resilient Planning and Hydro-meteorological Information Services:(Cost \$1.39 M)

Component 3: Climate Change Education, Awareness and Behavior Change: (Cost \$0.67 M)

Component 4: Project Management, Monitoring and Evaluation: (Cost \$0.73 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	□Satisfactory	□Satisfactory
Overall Implementation Progress (IP)	□Satisfactory	□Satisfactory
Overall Risk Rating	□Moderate	□Moderate

Implementation Status and Key Decisions

Overall: Since the last reporting period, the Project has made significant progress and is on track to achieve the PDO before the Project closure of April 30, 2022. It has already accomplished extensive upgrading and/or providing new equipment, systems and training for data collection and processing. This expanded hydro-met network and increased real-time data collection, in turn, improves the information upon which decisions are made in several technical entities. more than 93% of the total Grant has been disbursed (approximately US\$6.32 million). The summary of the recent implementation status per component is as follows:

Component 1 - Upgrading hydro-meteorological data collection, processing and forecasting systems

Component 1 continued to make significant progress toward upgrading and/or providing new equipment, systems and training for data collection and processing. The Doppler Weather Radar has become operational, the fencing of the station has been completed and the solarization is

12/21/2021 Page 1 of 7 underway and is planned to be completed before the end of December 2021. The equipment for the Meteorological Service of Jamaica (MSJ) including the installation of 18 automatic weather stations (AWSs) and the two sea level tide gauges is expected to commence shortly. Additionally, and even though the delivery of equipment for the MSJ AWS Real Time Data Platform was delayed, the work is on track and the installation is expected to commence in December 2021.

Component 2 - Climate Resilient Planning and Hydro-meteorological Information Services

Component 2 continued to make significant progress in improving Jamaica's climate resilience through a number of activities that have been completed. Recent progress includes the advancements in the implementation of the several Health Vulnerability Assessment Study recommendations, which were approved as part of the Project restructuring. In particular, technical specifications for the procurement and installation of the generators for a number of health facilities have been completed and the procurement process is expected to commence shortly. The process of installation of water tanks will be done between January 2022 and April 2022. The PIU confirmed that this work will be accelerated to the extent possible to ensure that all equipment is installed and operational before the end of the project. The development of early warning messaging is also underway and planned to be completed by March 2022. Additionally, the community risk profiles have been prepared and their validation is underway. The State of Jamaica's Climate (SOJC) Report has also been finalized and is now in the publishing process.

Component 3 - Climate Change Education, Awareness and Behavior Change

Under Component 3, the most notable achievement is related to the advancement of the Final Report of the Knowledge, Attitudes and Practice Survey. Even though this activity faced some particular challenges related to COVID-19 restrictions, it is expected to be finalized by December 2021.

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

To improve the quality of climate data and information

▶ Quality of weather forecasts (Quantitative Precipitation forecast) (Percentage, Custom)

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	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	66.00	72.00	72.00	75.00			
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022			
Comments:	MSJ currently calculating quantitative precipitation forecasts based on the above normal rainfall periods over the period September to November 2020. The results will be ready at the end of December 2020 and the indicator will be updated accordingly.						
►Targeted Technical Ir	mplementing Agencies who use	·	,	,			
	Baseline	Actual (Previous)	Actual (Current)	End Target			
►Targeted Technical Ir		·	,	,			
	Baseline	Actual (Previous)	Actual (Current)	End Target			

To improve the use of climate data and information

▶ Targeted vulnerable groups having access to early warning messaging (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	0.00	0.00	6.00		
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022		
Comments:	Six groups within 14 target communities have been identified and are being engaged with, as part of the Community Risk Profiles activities. As such, the target for this indicator is on track and is expected to be achieved in the course of coming months.					

To improve the effective planning and action

▶ Instruments for climate planning and action informed by improved climate data and information (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End larget			
Value	0.00	5.00	5.00	6.00			
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022			
Comments:	The end target for this indicator was revised as part of the recent project restructuring and changed from 5 to 6. More ambitious target reflects the extension of the Project closing date and additional activity in this regard (namely Action plan for the health sector). Completed activities, as of December 2020, measured under this indicator include: (1) 2015 SOJC Report; (20) Vulnerability Assessment in Health Sector; (3) Action plan in Health Sector; (4) NSDMD, Climate Data node. Other activities that are in progress are 2019 SOJC and community Risk Profiles.						

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Intermediate Results Indicators by Components

Component 1: Upgrading hydro-meteorological data collection, processing and forecasting systems

► Meteorological, hydro-met and agro-met stations reporting data in real time and meeting quality standards (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	15.00	39.00	39.00	30.00
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022

The baseline for this indicator includes 0% stations for Water Resource Authority (WRA) and 31% of stations for Meteorological Services of Jamaica (MSJ) (with an average baseline of 15%). Currently, 58% of stations for MSJ and 51% of stations for WRA are reporting in real time, averaging to 39% increase.

Comments:

▶ Technical staff and other personnel trained in development, dissemination and use of weather, climate and hydrological data (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	237.00	367.00	320.00
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022

Comments:

The end target for this indicator was revised as part of recent project restructuring and changed from 300 to 320. More ambitious target reflects the extension of the Project closing date and additional engagement and training of technical staff during that time. Though training delivery was delayed due to COVID 19, the achievement of this indicator is on track with the following training planned and to be completed within the project lifetime: (1) Weather Radar training for MSJ staff which was postponed due to Covid-19 and will be done on site in January 2021; (2) Training in the use of radar data and products for MSJ, WRA, and RADA; (3) Training in the use of SOJC 2019 for Municipal corporations; (4) Training of MOHW staff in operations of Disaster Action Card.

► Meteorological, hydromet and agromet equipment operational (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	158.00	158.00	160.00
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022

Comments:

The end target for this indicator was revised as part of recent Project restructuring and changed from 120 to 160. The current value for this indicator includes: 20 Soil moisture probes MSJ; 35 AWS for MSJ;12 Soil Moisture probes by WRA; 57 hydro-met stations; 30 Others (ground water probes, surface water velocity radars etc.). The contract has been signed for the procurement of 10 additional AWS for the MSJ and 4 Aquacalc meters, which will reflect in the increase of the indicator.

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	Danalina	Astrol (Draviana)	A street (Oromoust)	Ford Townsh		
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	3.00	4.00	5.00		
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022		
Comments:	The end target for this indicator was revised as part of recent project restructuring and changed from 4 to 5. Following the logic in tracking progress for the indicator "Doppler Radar Operational", the end year target is being changed to 5 to reflect the objective of making the Radar solar powered. The current value of this indicator (2) reflects that the contract has been signed and that the radar is being assembled. The Radar tower was installed and the Radar system shipped and received in Jamaica on December 8, 2020. It is anticipated that the indicator value will move from 2 to 4 by March 2021. The project has also completed the design for a hybrid solar power system for the Radar station; procurement to commence after installation of the radar in March 2021.					

Component 2 : Climate Resilient Planning and Hydro-meteorological Information Services

► Accurate and high resolution national and sectoral climate change scenarios developed (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022
Comments:		ange scenarios have been de 2015 scenarios completed a rios.		

Component 3: Climate Change Education, Awareness and Behavior Change

► Change in climate change knowledge, attitude and practice (KAP) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	66.00	77.00	77.00	86.00
Date	01-Sep-2015	09-Jun-2021	29-Oct-2021	29-Apr-2022
Comments:		ndicator (77%) reflects results P survey which will provide a		

Performance-Based Conditions

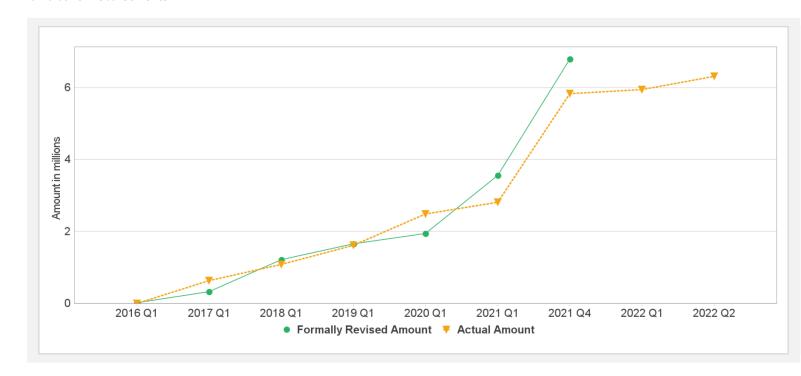
Data on Financial Performance

Disbursements (by loan)

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Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P129633	TF-A0433	Effective	USD	6.80	6.80	0.00	6.32	0.48	93%
Key Dates Project	(by loan) Loan/Credit/TF	Status	Approval Date	e Signii	ng Date	Effectiveness D	ate Orig.	Closing Date	Rev. Closing Date
P129633	TF-A0433	Effective	28-Jul-2015	02-0	ct-2015	14-Dec-2015	30-Ap	or-2021	30-Apr-2022

Cumulative Disbursements



PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC

Restructuring History

Level 2 Approved on 02-May-2019 ,Level 2 Approved on 06-Oct-2020 ,Level Approved on 21-Oct-2020

Related Project(s)

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There are no related projects.

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