

Philippines : Metro Manila Flood Management

1. Project Information

Project ID:	P000023	Instrument ID:	L0023A
Member:	Philippines	Region:	South-Eastern Asia
Sector:	Water	Sub-sector:	Water disaster resilience
Instrument type:	<input checked="" type="checkbox"/> Loan:207.60 US Dollar million <input type="checkbox"/> Guarantee	Co-financier(s):	World Bank
ES category:	A	Borrowing Entity:	
Implementing Entity:			
Project Team Leader:	Sangmoo Kim (DG: Rajat Misra; Responsible Department: INF1)		
Project Team Members:	Liu Yang, Project Counsel; Yi Geng, OSD - Financial Management Specialist; Irish Fe Aguilar, OSD - Social Development Specialist; Gerardo Pio Parco, OSD - Environment Specialist; Rabindra Shah, OSD - Procurement Specialist; Jinghui Li, Project admin;		
Completed Site Visits by AIIB:	Mar, 2018 Mar. 5-12, 2018 Oct, 2018 Oct. 1-10, 2018 Jun, 2019 Jun. 3-7, 2019 Dec, 2020 Dec. 7 – 10, 2020 (virtual) Jan, 2020 Jan. 20-24, 2020 Apr, 2021 Apr 12-16, 2021 (virtual) Jan, 2022 Jan-Feb 2022 (Virtual)		
Planned Site Visits by AIIB:	Jun, 2022 June 2022		
Current Red Flags Assigned:	1		
Current Monitoring Regime:	Regular Monitoring		
Previous Red Flags Assigned:	1		
Previous Red Flags Assigned Date:	2021/09		

2. Project Summary and Objectives

The Project aims to improve flood management in selected areas of Metro Manila. The Project focuses on about 56 potentially critical drainage areas with an approximate land area of 11,100 ha or over 17 percent of the total area of Metro Manila. The total population of these drainage areas is estimated at 3.5 million while the direct Project beneficiaries, i.e., those adversely affected by regular flooding, are estimated at 1.7 million.

The project objective will be achieved through the following activities: (i) modernizing of drainage areas, involving construction of new pumping stations or rehabilitation of existing ones and associated drainage infrastructure; (ii) strengthening of solid waste collection and disposal; and (iii) supporting participatory housing and resettlement, involving land acquisition, housing construction, rental support and livelihood assistance.

3. Key Dates

Approval:	Sep. 27, 2017	Signing:	Dec. 19, 2017
Effective:	Mar. 15, 2018	Restructured (if any):	
Orig. Closing:	Nov. 30, 2024	Rev. Closing (if any):	

4. Disbursement Summary (USD million)

Contract Awarded:		Cancellation (if any):	0.00
Disbursed:	16.27	Most recent disbursement (amount/date):	9.13/Mar. 09, 2022
Undisbursed:	191.34	Disbursement Ratio (%) ¹ :	7.84

5. Project Implementation Update

Project implementation has been progressing slower than originally agreed timelines. The COVID-19 pandemic has significantly impacted the project progress, particularly procurement process since Mar. 16, 2020. The construction of Balut pumping station is completed and the installed system functioned well during Typhoon Ulysses.

Procurement for the modernization of the batch 1 pumping stations is completed, using the innovative method of Design, Supply, and Install (DSI) tender. The tender documents for remaining pumping stations are being prepared. A number of activities related to solid waste management are ongoing, including cleaning of waste from pumping stations and increased efforts to recycle waste, including plastics. All these activities are geared towards achieving the project development objective.

Components	Physical Progress	Environmental & Social Compliance	Procurement
Component 1: Modernizing drainage areas (USD168.84 million)	The modernization of the Balut Pumping Station (PS) has been completed.	The upgrade and construction work in Balut PS has been completed. No residual ES impacts nor complaints have been reported. Consultant firm has been hired to prepare FS for the succeeding PS. ES Due diligence of the new pumping stations are ongoing. DPWH was reminded to refer to the ESMF for guidance on screening determination of appropriate safeguards instruments. Proposed dredging activities have not been finalized.	Procurement for Vitas, Labasan, Paco PS modernization is completed. Various procurement activities are ongoing including: (i) procurement of batch 2 PSs; (ii) the first procurement package for dredging; (iii) procurement of modern desilting equipment. The contract for a consultancy services for the preparation of the solid waste master plan has been awarded. With newly adopted bid document, i.e., DSI, bidding participants have

¹ Disbursement Ratio is defined as the volume (e.g. the dollar amount) of total disbursed amount as a percentage of the net committed volume.

			been increased hence the client is expecting progress in remaining procurement.
Component 2: Minimizing solid waste in waterways (USD21.6 million)	Procurement of solid waste management and cleaning equipment (USD 2million) has been completed.	Screening of Component 2 activities using the ESMF checklist has been carried out. Consultant Firms for the work on community based SWM and SW masterplan have been hired. MMDA reminded to refer to the ESMF for guidance on screening.	see above.
Component 3: Participatory housing and resettlement (USD7.64 million)	n/a	Preparation and implementation of applicable sub-project safeguard documents to be accelerated (revised RAP in Vitas under review by WB).	n/a
Component 4: Project management and coordination (USD9.0 million)	n/a	Both DPWH and MMDA maintain environmental and social safeguards specialists in their respective teams.	n/a

Financial Management:

Project financial staff are onboard for both DPWH and MMDA, interim financial statements could be prepared, and 2020 annual audit reports have been submitted and low budget utilization was noted for improvement.

6. Status of the Grievance Redress Mechanism (GRM)

GRM is operational using the Grievance Redress Systems (GRS) of DPWH and MMDA with dedicated people.

Complaints or suggestions can be registered through general departmental hotlines, text messages, websites, and walk-ins. No grievance related to the Balut PS works has been registered.

7. Results Monitoring

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Project Objective Indicators #1

Flood-prone areas that are free of water within 24 hours after a major rainfall event (Ha)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	0	-	
Jan. 01, 2018	0	-	
Jan. 01, 2019	0	-	
Jan. 01, 2020	400	-	
Jan. 01, 2021	1500	-	
Jan. 01, 2022	3000	-	
Jan. 01, 2023	4200	-	
Jan. 01, 2024	4900	-	

Project Objective Indicators #2

Direct Project beneficiaries, of which females (million (Females))

Year	Target	Actual	Comments, if any
Jan. 01, 2017	0	-	
Jan. 01, 2018	0	-	
Jan. 01, 2019	0	-	
Jan. 01, 2020	0.55 (0.27)	-	
Jan. 01, 2021	0.71 (0.35)	-	
Jan. 01, 2022	1.16(0.58)	-	
Jan. 01, 2023	1.40(0.70)	-	
Jan. 01, 2024	1.70 (0.85)	-	

Project Objective Indicators #3

Solid wastes collected at targeted existing pumping stations (1000 cu.m)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	17	-	
Jan. 01, 2018	17	-	
Jan. 01, 2019	17	-	
Jan. 01, 2020	17	-	
Jan. 01, 2021	13.5	-	
Jan. 01, 2022	11.4	-	
Jan. 01, 2023	9.5	-	
Jan. 01, 2024	8.5	-	

Project Objective Indicators #4

Households successfully resettled from areas where they would obstruct proper O&M of the drainage systems. (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	0	-	
Jan. 01, 2018	0	-	
Jan. 01, 2019	0	-	
Jan. 01, 2020	137	-	
Jan. 01, 2021	1451	-	
Jan. 01, 2022	2500	-	
Jan. 01, 2023	2500	-	
Jan. 01, 2024	2500	-	

Project Objective Indicators #5

Beneficiaries satisfied with reduced vulnerability to flooding in Project areas (Percentage)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	0	-	
Jan. 01, 2018	0	-	
Jan. 01, 2019	0	-	
Jan. 01, 2020	0	-	
Jan. 01, 2021	20	-	
Jan. 01, 2022	70	-	
Jan. 01, 2023	50	-	
Jan. 01, 2024	80	-	

Intermediate Result Indicators #1

Existing pumping stations rehabilitated (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	0	-	
Jan. 01, 2018	0	-	
Jan. 01, 2019	0	-	
Jan. 01, 2020	5	-	
Jan. 01, 2021	10	-	
Jan. 01, 2022	21	-	
Jan. 01, 2023	36	-	
Jan. 01, 2024	36	-	

Intermediate Result Indicators #2

New pumping stations constructed and operational (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	0	-	
Jan. 01, 2018	0	-	
Jan. 01, 2019	0	-	
Jan. 01, 2020	0	-	
Jan. 01, 2021	0	-	
Jan. 01, 2022	0	-	
Jan. 01, 2023	6	-	
Jan. 01, 2024	20	-	

Intermediate Result Indicators #3

Barangays with improved solid waste management programs in place. (Numbers)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	0	-	
Jan. 01, 2018	0	-	

Jan. 01, 2019	0	-	
Jan. 01, 2020	25	-	
Jan. 01, 2021	75	-	
Jan. 01, 2022	125	-	
Jan. 01, 2023	200	-	
Jan. 01, 2024	200	-	

Intermediate Result Indicators #4

Community consultations undertaken (Numbers)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	3	-	
Jan. 01, 2018	3	3	
Jan. 01, 2019	6	6	
Jan. 01, 2020	12	-	
Jan. 01, 2021	24	-	
Jan. 01, 2022	30	-	
Jan. 01, 2023	30	-	
Jan. 01, 2024	30	-	

Intermediate Result Indicators #5

Grievances registered related to delivery of Project benefits that are actually addressed (percentage)

Year	Target	Actual	Comments, if any
Jan. 01, 2017	0	-	
Jan. 01, 2018	90	-	
Jan. 01, 2019	90	-	
Jan. 01, 2020	90	-	
Jan. 01, 2021	90	-	
Jan. 01, 2022	90	-	
Jan. 01, 2023	90	-	
Jan. 01, 2024	90	-	

Remarks:

The differences between the target and the actual is explained in section 5.