

METRO MANILA FLOOD MANAGEMENT PROJECT PHASE-1

Project Briefer

The Metro Manila Flood Management Project is Phase 1 of the implementation of the Metro Manila Flood Management Master Plan (PHP 350 billion), approved by the government in 2012. The Master plan aims to reduce vulnerability to and to strengthen resilience against floods.

It specifically addresses the structural measures to improve urban drainage in Metro Manila. It will be achieved through an integrated set of interventions to modernize existing pumping stations and make improvements to appurtenant infrastructure; construct new pumping stations to accommodate urban expansion; increase short-term water retention capacity in the drainage areas; reduce the volume of indiscriminately dumped solid waste into waterways; and support community-driven resettlement of Informal Settler Families (ISF) encroaching in easements for drains and waterways linked to the project pumping stations to safer in-city locations.

There is a total of 1.7 million people (about 370,000 households) who are considered the direct beneficiaries of the Project. This may be changed depending on the final selection and number of drainage areas to be covered by the Project.

The Project, in cooperation with the Department of Public Works and Highways, is under the financial support of The World Bank Group - International Bank for Reconstruction and Development and Asian Infrastructure Investment Bank (AIIB). Project implementation began in 2017 and is expected to be completed on 2023.

It is divided into four (4) main components:

Component I (DPWH): Modernization of Drainage Areas

-Total Component Budget: PhP 18.1 billion (USD 386 million)

This component covers the construction of an estimated 20 new and modernize/rehabilitate an estimated 36 existing pumping stations and appurtenant infrastructure, improve the associated waterways and drainage channels, including secondary and tertiary ones as needed, and develop new drains when required. Modern, efficient and high capacity pumping units will be installed. Component 1 aims to increase water retention capacity within the project drainage areas

Component II (MMDA): Minimizing Solid Waste in Waterways

-Total Component Budget: PhP 2.2 billion (USD 47 million)

The project, through Component 2, will carry out activities that will improve the solid waste management system within the communities near the project drainage areas. It intends to introduce improved solid waste collection services, community mobilization and awareness, incentive-based improved waste collection with independently verified results, and neighborhood upgrading. Possible piloting of innovative waste management opportunities is also being considered in this Component.

Component III(DPWH): Participatory Housing and Resettlement

- Total Component Budget: PhP 1.9 billion (USD 40 million)

Participatory housing and resettlement aim to support three major groups. The first group pertains to project affected people (PAP) who were resettled before December 8, 2014. The second group refers to PAPs who were resettled from technical footprints from December 8, 2014 to Project effectiveness. While the third group covers PAPs who will be resettled from technical footprints after

Project effectiveness. This component will carry out resettlement programs that will provide easier access to better housing and basic services. It is estimated that about 11,500 people (2,500 families) will be relocated under this Component.

Component IV (MMDA and DPWH): Project Management, Support, and Coordination

–Total Component Budget: Php 1.2 billion (USD 25 million)

This component will provide support for the proper operation of the Project Management Offices in DPWH and MMDA. It is expected to provide supervision of Project activities, evaluation and monitoring of the Project, development of communication strategy, and management of grievances.

LIST OF PUMPING STATIONS

	Pumping Station	LGU	Total Catchment Area (ha)	Current Capacity (m³/s)
Existing Pumping Stations				
1.	Vitas	Manila	641.10	32.00
2.	Balut	Manila	44.88	2.00
3.	Paco	Manila	195.58	7.59
4.	Tripa de Gallina	Pasay	2,058.01	58.00
5.	Labasan	Taguig	440.78	9.00
6.	Balete-Ermita	Manila	129.75	2.58
7.	Escolta	Manila	-	1.50
8.	Sta. Clara	Manila	122.98	5.30
9.	Libertad	Pasay	772.19	48.00
10.	Makati	Makati	110.65	7.00
11.	Abucay	Manila	339.25	6.00
12.	San Andres	Manila	375.21	19.00
13.	Santibanez	Manila	-	0.35
14.	Tapayan	Taguig	281.20	15.00
15.	Taguig	Taguig	1,110.04	12.00
16.	Hagonoy	Taguig	264.52	6.00
17.	Hulong duhat	Malabon	10.00	0.11
18.	Magsaysay	Malabon	10.00	0.11
19.	Herrera	Malabon	10.00	0.11
20.	Concepcion	Malabon	10.00	0.60
21.	Balot	Malabon	10.00	0.11
22.	Merville-dampalilit	Malabon	10.00	2.19
23.	Tanza	Malabon	10.00	0.11
24.	Niugan	Malabon	10.00	0.11
25.	Artex	Malabon	10.00	0.11
26.	Muzon	Malabon	10.00	0.11
27.	Acacia	Malabon	10.00	1.30
28.	Roque	Malabon	10.00	0.33
29.	Aviles-Uliuli	Malabon	251.91	16.45
30.	Beata ind.	Manila	10.00	0.11
31.	Binondo-Escolta	Manila	252.91	11.60
32.	Pandacan	Manila	152.76	4.40
33.	Quiapo	Manila	218.11	10.85
34.	San Agustin	Manila	-	1.10

35.	Uli uli	Manila	-	6.00
36.	Valencia	Manila	296.27	11.85
	Subtotal Existing		8,188.10	298.98
	Pumping Station	LGU	Total Catchment Area (ha)	Current Capacity (m³/s)
New Pumping Stations				
1.	Cutcut	Pasay	114.10	12.00
2.	Romualdez	Manila	-	2.50
3.	Maytunas	Mandaluyong-San Juan	269.67	16.00
4.	Buhangin	Mandaluyong	130.52	5.72
5.	Casili	Caloocan-Manila	193.33	4.59
6.	Ilugin River	Valenzuela	288.86	11.43
7.	Isla	Quezon City	228.50	8.27
8.	Damayang Lagi	Quezon City	120.95	13.20
9.	Del Monte	Quezon City	32.76	6.40
10.	Doña Imelda	Quezon City	51.24	2.70
11.	Kalusugan	Quezon City	88.39	4.90
12.	Mariblo	Quezon City	50.73	2.70
13.	Masambong	Quezon City	14.41	26.00
14.	Matalahib-Talayan	Quezon City	673.38	21.00
15.	Progreso	Quezon City	64.99	6.30
16.	Roxas	Quezon City	251.15	11.00
17.	Sobrepena	Quezon City	68.87	1.80
18.	Sta. Cruz	Quezon City	40.07	3.10
19.	Talayan	Quezon City	-	3.30
20.	Tatalon	Quezon City	217.99	7.50
	Subtotal New		2,899.91	170.41
	GRAND TOTAL		11,088.01	469.39