

Program Performance Indicators

A. Title of Program	Metropolitan Manila Solid Waste Management Program
B. Organizational Outcome to which the program belongs	Ecological, Safe and Efficient solid waste disposal and management ensured
C. Program objective Statement	To ensure the availability of disposal space; monitor/document volume of incoming waste at the designated disposal facilities, to conduct compliance monitoring of the environmental standards to protect the environment and public health and to promote recycling thru IEC to reduce volume of waste disposed to decelerate use of diminishing landfill space.
D. Program description, narrative outline of the program strategy, monitoring and evaluation and risk management strategies	<p>Pursuant to the provisions of RA 7924, MMDA is mandated to establish, operate and manage SLF where to dispose the collected waste from LGUs in Metro Manila. Metropolitan Manila Development Authority developed two (2) disposal facilities/SLFs and implemented these in 1991 and 1993 but operations were untimely closed (inspite of available space) that precipitated outsourcing. Since the use of SLFs is outsourced, it is imperative that MMDA properly documents the incoming wastes to the SLFs as basis for payment of tipping fees.</p> <p>It is important to decrease/reduce the waste to be disposed not only to reduce total amount of tipping fees but also to prolong the life of landfills since it is extremely difficult to secure lands to be developed primarily because of NIMBY (not in my backyard) syndrome and considering that a wide part of the country is within the watershed area.</p> <p>Information, education and communications (IEC) is one of available strategies to increase the awareness and knowledge of the public (barangays, schools, institutions, etc.) on the importance of waste segregation, recycling and composting with the end in view of reducing waste that end up in the landfills, thus, conserving space.</p> <p>Compliance monitoring of environmental standards is also important to protect the environment from aquifers contamination and greenhouse gas production, and subsequently protect public health. Compliance monitoring by MMDA and the Multi-Partite Monitoring Team will also allow the anticipation of possible slope integrity problems that may result to collapse/slide of fill areas that may hamper landfill operations and continuous dumping.</p> <p>Although compliance monitoring of the environmental standards/requirements are conducted regularly by both the MMDA-SWMO and Multi-Partite Monitoring Team, extreme weather conditions such as prolonged high temperature during summer and continuous rains over a long period may bring about spontaneous occurrence of fire or weakening of the integrity of the fill area which might cause sliding of the fill area that can subsequently hamper operations.</p>

**ORGANIZATIONAL OUTCOMES (OO)/
PERFORMANCE INDICATORS (PIs) AND 2018 TARGETS
Solid Waste Management Office**

Organizational Outcome (OO)/ Performance Indicators (PI)	BASELINE 2017	2018 Targets
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Ecological, Safe and Efficient solid waste disposal and management ensured

METROPOLITAN MANILA SOLID WASTE MANAGEMENT PROGRAM

Outcome indicators			
1.	Available capacity of current landfill space	21 yrs. & 6 mos. lifespan	20 yrs. & 2 mos. lifespan
2.	Percentage of solid waste diverted as a result of recycling activities of LGUs	57% Diversion Rate based on the LGUs' 10-year SWM Plans in 2017	60% Diversion Rate based on the LGUs' 10-year SWM Plans.
3.	Percentage compliance of landfills of ECC requirements and other environmental regulations	100%	100%
Output indicators			
1.	Percentage of daily reports on sanitary landfills filed	100% Monitored	100% Monitored
2.	Number of monitoring activities conducted by MMDA and Multi – Partite Monitoring Team (MMT) to ensure operational environmental compliance	Quarterly MMT Monitoring/Meetings	Quarterly MMT Monitoring/Meetings
3.	Number of information, education campaign on solid waste management conducted	240 seminars	240 seminars Note: 2016 Target – 240 seminars 2016 accomplishment – 324 seminars 2017 target – 240 seminars 2018 target – 240 seminars

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Matrix of Indicator Definition

Department/Agency: SWMO-MMDA

Program/Sub-Program	Output/Outcome Indicators	Definition	Means of Verification	Monitoring Mechanism
Program: Metropolitan Manila Solid Waste Management	Increase of waste diversion rate of LGUs through recovery of recyclables and/or composting	<p>*Diversion of waste refers to the amount of recyclable materials recovered and biodegradable wastes that are composted and have avoided being disposed in the sanitary landfill (SLF).</p> <p>*Diversion rate is the amount of waste recovered (did not reach SLF) vs the estimated waste generation (EWG) of LGU multiplied 100% (amount of recovered waste divided by EWG x 100%).</p>	<p>*Record on data submitted by the Solid Waste Management Office (SWMO) of LGUs.</p> <p>*Record of the amount of incoming waste in the SLF submitted by staff in the field.</p> <p>*Record of volume of collected waste by LGUs.</p> <p>*Compared data to diversion targets of LGUs indicated in their 10 year SWM plans.</p>	*LGUs are required to submit to MMDA-SWMO reports on collected waste and level of segregation at source. MMDA-SWMO tracks and processes the volume indicated in the trip.
	Volume of waste disposed properly recorded	<p>The total volume of waste disposed daily or monthly or the whole year by the LGUs in their designated disposal facilities.</p> <p>Disposal rate refers to the total volume of waste disposed vs the Estimated waste generation.</p>	<p>Daily disposal record (DDR) which shows the following:</p> <p>*Identification of truck i.e. plate number, body number, trip ticket, time in/time out, etc.</p> <p>*volume capacity of each truck</p> <p>*LGU source of waste if dumptruck is accredited, it should be listed in the</p>	<p>*Checking of trip tickets of incoming trucks and recording of data/information contained in the trip ticket.</p> <p>*Checking if trip tickets are signed by concerned LGU and by MMDA-SWMO checker after checking.</p> <p>*Checking if truck is</p>

Program/Sub-Program	Output/Outcome Indicators	Definition	Means of Verification	Monitoring Mechanism
	Environmentally compliant disposal facilities	There is a set of environmental standards contained in related environmental laws and the Environmental Compliance Certificate (ECC) issued by the DENR to guide the operations of the SLFs	<p>masterlist.</p> <p>* Volume of waste disposed as measured by the SWMO personnel .</p> <p>*Reports of the Multi-Partite Monitoring Team (MMT) after every inspection, showing compliance to environmental standards indicated in the ECC</p> <p>*After inspections reports of MMDA-SWMO staff</p>	<p>accredited.</p> <p>*Volume disposed is compared to the capacity of truck.</p> <p>*The MMT uses a guideline listed on a checklist which the MMT monitors in its regular inspection</p> <p>*Laboratory testing of effluents</p> <p>*Observance of triggers/redflags that may require further investigations i.e. signs of slope failure</p> <p>*Observance of proper venting of gas, among others</p> <p>*MMDA-SWMO staff uses a checklist of disposal operations standards</p>
	Availability of disposal space	Availability of disposal space refers to the designed capacity of a developed SLF	Site development plan of the designated SLF and the volume of waste intake	Tracking of volume of waste intake vis-à-vis configuration of current fill area
	Effective Information , Education and Communication (IEC)	Information, Education and Communication Campaign refers to the activities such as conduct	*Post activity report describing the activity conducted; attendance	Tracking of the number of IECs conducted vis-à-vis target; random inspection of

	campaign on proper solid waste management	of seminars, orientations, recycling fairs, special projects to promote recycling and production/reproduction of flyers.	sheet; photos of the activity *Baseline information (profile) need analysis about the SWM practices of the target area/group. *Evaluation report	areas/sites where the IECs were conducted.
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