





January 2022

Results of the 1st Regional Solid Waste Management Monitoring

1. Purpose

Based on the Regional Output 1 activity of J-PRISM II "Monitoring mechanism for solid waste management in line with Cleaner Pacific 2025 is strengthened", in February 2020, the J-PRISM II Project Office sent out the regional monitoring form to the 9 member countries (Palau, Micronesia, Marshall Islands, Papua New Guinea, Solomon Islands, Fiji, Vanuatu, Tonga, and Samoa) to collect the municipal solid waste management data and information at the national level. The objectives were as follows.

- 1. To enhance the sustainable data management system of municipal solid waste in each country by measuring the performance indicators and targets for "Cleaner Pacific 2025".
- 2. To set the 14 performance indicators of JPRISM II based on the activities of J-PRISM II in the 9 pacific island countries to support and assess the achievement level of CP2025 targets in each country.
- 3. To conduct higher needs Trainings and Workshops organized by JPRISM II Regional Project Office through identifying good practices and current challenges based on the municipal solid waste management data entered in this monitoring sheet submitted by each country.

2. Number of Responses

• Monitoring method: Monitoring Form sent by email

Monitoring Term: February to June 2020

There were three countries that responded by sending in their monitoring forms; Samoa, FSM, and Palau. During the implementation of this monitoring activity which started in February, the COVID-19 was widespread worldwide, and travel and behavioral restrictions began in the PICs, so we reminded the remaining member countries that did not respond to this monitoring form by email and waited until the end of June 2020. Instead of waiting for the remaining countries to respond, we analyzed the current situation based on the valuable responses obtained from the above 3 countries.

We appreciate the great support and commitment from Samoa, FSM, and Palau.

3 Key Monitoring Results

The respondents provided the data and information for the 14 Performance Indicators established by JPRISM II in (Table 1). Some of the indicators were designed to respond to the Performance Indicators determined in the Cleaner Pacific 2025. This document first summarizes the results of the three countries for the Indicator No.1 `Municipal Solid Waste Management Data Collection, Analysis, and Dissemination', which indicate each country's current national reporting system of. Then the results for the Indicators No. 10 to 14 are also put in the table; Per Capita Generation of Municipal Solid Waste (MSW), MSW Capture







Rate, MSW Collection Coverage, MSW Recycling Rate, and MSW Final Disposal Rate, which quantitatively explain the current waste management flow.

This document also noted the areas that are in high demand for trainings in the future. The answers were provided by the countries alongside the response to the 1st Regional Monitoring Form.

Table 1: 14 Performance Indicators of JPRISM2€

No,∈	Performance Indicators of JPRISM2	Performance Indicators of CP2025
141	Municipal Solid Waste Management Data Collection, Analysis, and Dissemination	43
241	National Strategy and/or Action Plan □	43
3+2	Container Deposit Legislation	10
442	Single Use Plastic Banning	42
542	Extended Producer Responsibility Legislation (Used oil and E-waste)	143
6₁3	User-pays System for Waste Collection ¹²	10
742	Waste Amount and Composition Survey (Waste Audit)€	43
843	Private Waste Management Operator's Licensing Program ^{c3}	ë
90	Landfill Managed in Environmentally Friendly Manner∈	V+2
10	Per Capita Generation of Municipal Solid Waste (kg/person/day)←	10
110	Municipal Solid Waste Capture Rate (%)⊢	10
12-	Municipal Solid Waste Collection Coverage Rate (% of population) [□]	10
13	Municipal Solid Waste Recycling Rate (%)	10
14€	Municipal Solid Waste Final Disposal Rate (%) ₽	43

Common indicators with CP 2025: No.3, 5, 6, 9, 10, 11, 12, 13

3.1 Results for the Performance Indicator No. 1

1) Implementation Agency for Waste Management Data Collection, Analysis and Dissemination

implementation, igency for traste management batta concertor, i maryons and bissemination					
Implementation Agency					
Samoa FSM Palau					
Ministry of Natural Resources and State EPAs and KIRMA Koror State, Solid Waste					
Environment					

2) Data Collection Frequency

Duta concentration requests				
Dut T	Data Collection Frequency			
Data Type	Samoa	FSM	Palau	
Per Capita Generation of Municipal Solid Waste	Once/ 4 years	Annual	Once/ 3 years	
Municipal Solid Waste Capture Rate	Once/ 4 years	Annual	Once/ 3 years	
Municipal Solid Waste Collection Coverage Rate	Once/ 4 years	Annual	Once/ 3 years	
Municipal Solid Waste Recycling Rate	Once/ 4 years	Annual	Once/ 3 years	
Municipal Solid Waste Final Disposal Rate	Once/ 4 years	Annual	Once/ 3 years	
CDL Data	-	-	Annual	
Waste Tires	-	-	Annual	
Scrap Metal	-	-	Annual	
Used Lead-Acid Batteries	-	-	Annual	

2



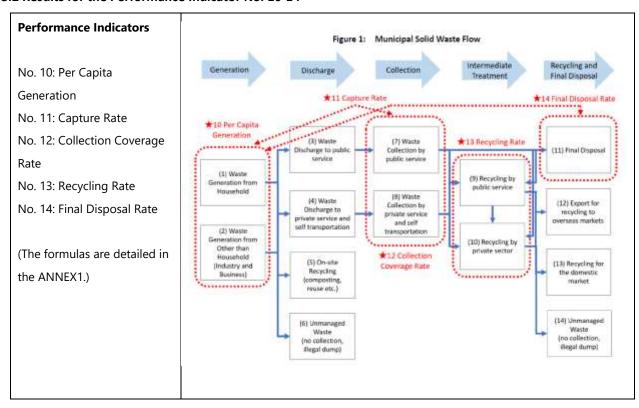




3) Latest 3 Waste Audit Survey Records (As of February 2020)

Data Tuna	Details			
Data Type	Samoa	FSM	Palau	
Latest	2017, J-PRISM	2017, J-PRISM	2019, UN Mission-APWC Consultant	
Second Latest	2011, J-PRISM	2015, J-PRISM	2017, J-PRISM	
Third Latest	2007, J-PRISM	2011, J-PRISM	2015, Amita Consultant-Japan	

3.2 Results for the Performance Indicator No. 10-141



		Samoa	FSM	Pa	lau
P	erformance Indicator	(U=Upolu Island, S=Savaii Island)	(P=Pohnpei, Y=Yap, C=Chuuk, K=Kosrae)	National	Local (Koror State)
10	Per Capita Generation of MSW (kg/person/day)	1.06 (U)	1.15 (P) 1.29 (Y) 0.92 (C) 1.13 (K)	2	2.6
11	MSW Capture Rate (%)	42(U)	N/A	99.6	100
12	MSW Collection Coverage Rate (%)	61(U) 68(S)	70 (P) 70 (Y) 70 (C) 100 (K)	84	100
13	MSW Recycling Rate (%)	44(U) *Aluminum can recycling rate for Household	20 (P) 20 (Y) N/A (C)	12	11.2

¹ See Annex "The 1st J-PRISM Regional Monitoring From" for the definition and calculation method of each performance indicator.

_







	Budd bloke				
			30 (K)		
14	MSW Final Disposal		40 (P)		
	Rate (%)	42(U)	50 (Y)	83	85.1
		42(0)	40 (C)	65	65.1
			50 (K)		

3.3 Capacity Development Needs Survey Results

Respondents were allowed to choose multiple topics in demand for trainings from the following options. Although all options were ticked by the two countries (Palau and FSM), Samoa highlighted some specific topics that seemed most relevant to their current/ upcoming initiatives.

Tonics		Target Participants			
	Topics	Samoa	FSM	Palau	
1. Bas	ic Data Collection/Analysis				
1-1	Waste Audit for Household Waste		State EPAs/KIRMA, T&I/PW, National SWM Officer, NGOs, Relevant Municipal Government Officer (*1)	Swm national/states	
1-2	Waste Audit for Industrial Waste (other than household waste)	MNRE	(same as *1)	Swm national/states	
1-3	Identifying Waste Flow from the survey result	MNRE	(same as *1)	Swm national/states	
1-4	National Monitoring on SWM (data collection/reporting)	MNRE	(same as *1)	Swm national	
	icy & Regulation Development				
2-1	National SWM Strategy/ Master Plan Development		National and State Environment Officers, T&I, R&D, Health, Education, Justice, Finance (*2)	Swm national/ EQPB	
2-2	State/ Local Government SWM Strategy/Master Plan Development		(same as *1)	Swm -states	
2-3	Comprehensive 3R Policy Intervention	MNRE	(same as *1)	Swm national/ EQPB	
2-4	Extended Producer Responsibility	MNRE	(same as *2)	Swm national/ EQPB	
2-5	Plastic Ban/ Importation Regulation		(same as *1)	Swm national/ EQPB	
3. Eco	nomic Instruments Design/Develo	pment			
3-1	Container Deposit System	MNRE	(same as *1)	Swm national/ EQPB	
3-2	Environmental Levy	MNRE	(same as *2)	Swm national/ EQPB	
3-3	User-pay for Waste Collection and Disposal		(same as *1)	Swm national/ EQPB/states	
4. Wa	ste Collection & Transportation				
4-1	Time & Motion study with/without GPS logger and analysis	MNRE	(same as *1)	Swm national/ states	
4-2	Expansion/Improvement of Collection Service	MNRE	(same as *1)	Swm national/ states	
4-3 5. Lan	Contractor Management dfill Management	MNRE	(same as *1)	Swm national/ states	
5-1	New Landfill Design/ Construction	MNRE	(same as *1)	Swm national/ states	







5-1	Landfill Rehabilitation and	MNRE	(same as *1)	Swm national/ states
	Pollution Control			
5-1	Daily Landfill Operation		(same as *1)	Swm national/ states
	Improvement			
5-1	Data Management at Landfill	MNRE	(same as *1)	Swm national/ states
5-1	Contractor Management	MNRE	(same as *1)	Swm national/ states
6. 3R	(Waste reduction, recycling, reusing	g)		
6-1	Organic Waste Processing	MNRE	(same as *1)	Swm national/ states
	(Composting)		+Agriculture dep.	
6-1	School/Youth Awareness Program		(same as *1)	Swm national/ states
	on waste and 3R		+Education and	
			Health dep.	
6-1	Community Awareness Program on		(same as *1)	Swm national/ states
	waste and 3R			
7. Disa	aster Waste Management			
7-1	Disaster Waste Management	MNRE	(same as *1)	Swm national/ states
	Planning			
8. Occ	cupational Safety & Health in SWM			
8-1	Occupational Safety & Health in	MNRE, refreshers	(same as *1)	Swm national/ states
	SWM			
9. Fac	ility Management			
9-1	Daily Maintenance and Inspection	MNRE	(same as *1)	Swm national/ states
	of Vehicles and Heavy Machineries			
10. Al	l-packaged comprehensive training			
10-1	All-Packaged Comprehensive		(same as *1)	Swm national/
	Training on SWM (novice level for			states/EQPB
	waste management officer)			
10-2	All-Packaged Comprehensive	MNRE	(same as *1)	Swm national/
	Training on SWM (intermediate/			states/EQPB
	advanced)			

4. ANNEX

The 1^{st} J-PRISM Regional Monitoring From







Version1. 2020/2/1

J-PRISM2 Regional Monitoring Form The 1st Monitoring in 2020 J-PRISM2 Regional Project

Purpose

J-PRISM2 starts collecting and monitoring the municipal solid waste management data *once a year* (Note: <u>Submission Deadline of this monitoring sheet is March 31, 2020</u>) in 9 pacific island countries from 2020 to achieve the following objectives.

- To enhance national management system of basic data on municipal solid waste in each country through measurement of the 14 Performance Indicators of JPRISM2¹
- 2. To support and assess the achievement level of Cleaner Pacific 2025² targets in each country
- 3. **To conduct higher needs trainings and workshops**³ organized by JPRISM2 through identifying good practices and current challenges in each country based on the collected data.

Table 1: 14 Performance Indicators of JPRISM2

No.	Performance Indicators of JPRISM2	Performance Indicators of CP2025
1	Municipal Solid Waste Management Data Collection, Analysis, and Dissemination	
2	National Strategy and/or Action Plan	
3	Container Deposit Legislation	✓
4	Single Use Plastic Banning	
5	Extended Producer Responsibility Legislation (Used oil and E-waste)	✓
6	User-pays System for Waste Collection	✓
7	Waste Amount and Composition Survey (Waste Audit)	
8	Private Waste Management Operator's Licensing Program	
9	Landfill Managed in Environmentally Friendly Manner	✓
10	Per Capita Generation of Municipal Solid Waste (kg/person/day)	✓
11	Municipal Solid Waste Capture Rate (%)	✓
12	Municipal Solid Waste Collection Coverage Rate (% of population)	✓
13	Municipal Solid Waste Recycling Rate (%)	/
14	Municipal Solid Waste Final Disposal Rate (%)	

_

¹ **Performance Indicators of JPRISM2**: J-PRISM2 Regional Project sets the 14 performance indicators based on the activities of JPRISM2 in the 9 countries to support and assess the achievement level of CP2025 targets in each country as shown in Table 1 above. https://www.sprep.org/publications/cleaner-pacific-2025-pacific-regional-waste-and-pollution-management-strategy

² **Performance Indicators and Targets for Cleaner Pacific 2025**: Pacific Regional Waste and Pollution Management Strategy 2016-2025 is a comprehensive long-term strategy for integrated sustainable waste management and pollution prevention and control in the Pacific Islands region until 2025. Cleaner Pacific 2025 will undergo a participative mid-term review in 2020 coordinated by SPREP, with the active involvement of Pacific island countries and territories and other stakeholders.

³ Trainings and workshops organized by JPRISM2 Regional Project Office: Trainings and workshops conducted using the budget of the JPRISM2 regional project office based on the needs of each country







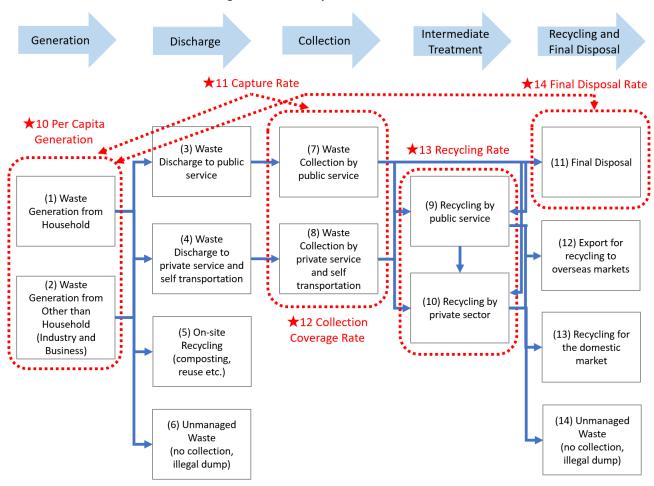


Figure 1: Municipal Solid Waste Flow

Indicator 10: "Per Capita Generation of Municipal Solid Waste" (kg/person/day)

- How to calculate
 - 1. Conduct solid waste amount and composition Surveys (= waste audits) for Household and other than household (Industry and Business) in the Performance Indicator 7.
 - 2. Based on the above surveys, measure the total number of kilograms collected for certain number of days X. Divide this amount by number of days (X) to get rate per day and divide by the number of residents in the households to get rate per day per person
 - 3. Indicator 10: Per Capita Generation of Municipal Solid Waste(kg/person/day) = (waste generated from <a href="https://doi.org/10.2016/nd.201
- Waste amount and composition surveys method
 See the Practical Guidebook page 9 developed by J-PRISM member countries: https://www.sprep.org/attachments/j-prism-2/SWM_GUIDEBOOK_pdf
- Related SDGs Indicator

[Indicator 11.6.1: Proportion of urban solid waste regularly collected and with adequate final discharge out of total urban solid waste generated, by cities.]

Recommendation: For countries and cites that doesn't have a data of Municipal Solid Waste Generation







Per Capita, it is suggested that a household survey to identify daily waste generation should be done, at least two times a year in different seasons. For more details, see the following link; https://unstats.un.org/sdgs/metadata/files/Metadata-11-06-01.pdf

Indicator 11: "Municipal Solid Waste Capture Rate" (%)

- Capture Rate (%) = [(7) Waste Collection by public service + (8) Waste Collection by private service and self-transportation] ÷ [(1) Waste Generation from Household + (2) Waste Generation from other than household (Industry and Business)] × 100
- Capture Rate (%) = Collected Amount / Generated Amount \times 100

Indicator 12: "Municipal Solid Waste Collection Coverage Rate" (% of population)

● Collection Coverage Rate (%) = [Number of people in the area where (7) waste is collected **by public service**] ÷ [Total Number of people in the area] × 100

Indicator 13: "Municipal Solid Waste Recycling Rate" (%)

- Recycling Rate (%) = [(9) Recycling by public service + (10) Recycling by private sector] ÷ [(3) Waste Discharge to public service+ (4) Waste Discharge by private service and self-transportation] × 100
- Cleaner Pacific 2025 calculation concept
 Recycling Rate (%) = [Amount of Recycled, Reused, Returned] ÷ Amount Recyclable* × 100
 "Amount Recyclable" indicates materials that can be recycled in your country or export destination, such as Used Aluminum can, PET bottle, Glass, Paper, Plastic, Metal etc..
- Related SDGs Indicator
 [Indicator 12.5.1: National recycling rate, tons of material recycled]
 Note that No data for this indicator is currently available and its methodology is still under development as of August 2018. For more details and update, see the following link;
 https://unstats.un.org/sdgs/tierIII-indicators/files/Tier3-12-05-01.pdf

Indicator 14: "Municipal Solid Waste Final Disposal Rate" (%)

• Final Disposal Rate (%) = [(11) Final Disposal] ÷ [(1) Waste Generation from Household + (2) Waste Generation from other than household (Industry and Business)] × 100







J-PRISM2 Monitoring Flow

J-PRISM2 collects and monitors the municipal solid waste management data once a year based on the following roles of each organization.

Figure 2: JPRISM2 Data Monitoring Flow

Considering Data Reporting (1) Send the format every System in each county year by email and provide 9 countries **JICA Experts** 9 countries technical support <u>Waste</u> J-PRISM2 Project Focal Management person/central Office (4) Update latest Ministries, Local <u>organization</u> (Samoa) Governments data and submit the format every year (5) Compile and (3) Check progress analyze updated and issues of each monitoring results country's activity (6) Monitor CP2025 and share with (2) Provide with experts **SPREP** performance indicators technical and targets and provide support their feedbacks to JICA JICA Experts SPREP (Each Country)

Role of each organization:

- Focal person/central organization in each country:
 - ✓ Data Report and Management: Ensure timely completion and proper data collection, analyze at the national level by the deadline for submitting the monitoring sheet
- JICA JPRISM2 Experts (Each Country):
 - ✓ Check progress and issues of each country's data collection, analyze and activities with the C/Ps
 - ✓ Collect and analyze updated monitoring data received from the C/Ps once a year
- JICA JPRISM2 Experts (Project Office in Samoa):
 - ✓ Send the monitoring sheet once a year to the focal person/central organization of 9 countries.
 - ✓ Collect and analyze updated monitoring data received from 9 countries once a year
 - ✓ Provide trainings on the monitoring system to the counterparts of the target countries
 - ✓ Provide feedback at regional and national level every 1 year
 - ✓ Compile and analyze updated monitoring results and share with SPREP
- SPREP:
 - ✓ Check and Analyze collected data by JPRISM2 and provide the feedbacks to JPRISM2
 - ✓ Review the CP2025 indicators and targets based on the collected data by JPRISM2 if necessary

Submission

Please fill out this form and submit it to the following email address by no later than 31 March 2020:

Dr. Yoko Onuma, JICA Expert (Monitoring/3R+Return), J-PRISM2 Project Office onumayoko@outlook.com

and

Ms. Nomura Mayu, JICA Expert (SWM Training/Monitoring), J-PRISM2 Project Office mmr.mayu@gmail.com







J-PRISM2 Regional Monitoring Form The 1st Monitoring in 2020 [Version1. 2020/2/1]

l.	Con	tact					
	Pleas	se fill out the name	and detail informati	on of a person			•
	Nan	_				□Mr./ □Ms.	
	Ema	ail Address					
	Title	e					
	Age	ency					
	Add	lress of Agency					
	Pho	ne Number					
II.	Soli	d Waste Manag	ement Data				
			Part 1.	Qualitative I	ndicators		
				. (2.20)			
Indi	cator	1. Municipai Solid	Waste Management	t (IVISWIVI) Data	Collection, Ar	ialysis, and Disse	emination
				_			
1-1.	_		vs a role as an implen	nenting agency	for MSWM da	ta collection/anai	lysis/dissemination
		me as Above Conta					
	⊔An	other agency as fo	ollows;	I			
	Name of Agency						
		~	for MSWM data				
	C	ollection/analysis/	dissemination				
	E	mail Address					
1 2	Цом	fraguent are your	upposed to collect/a	naluza (dissamir	nata data 2		
1-2.	☐Ye:		in two years	Once in three \Box		☐Once in five y	voars
		•	casionally only when		ee years	☐ Differ depend	
		or regularly, but occ	casionally only when	riccaca		biner depend	ing on data
1-3	Choo	ise all items fr	om the following	table and	add anv iter	ms which are	sunnosed to he
			eminated periodicall		•	ns winen are	supposeu to se
			"Data Source". If you		•	data" in auestioi	n 1-2. please also fill
			llection Frequency".		are promise of		,, p
					Data	Source	Data Collection
						ou obtain the	Frequency
			Data		•	ch institution is	,
						to report the	
					•	ata?)	
	1	□Per Capita Ger	neration of Municipal	Solid Waste		,	
	2		d Waste Capture Rate				
	3	•	d Waste Collection Co				
	4		d Waste Recycling Ra				
	5		d Waste Final Disposa				
	6		a trace i mai bioposi				
	7						







				- INOL
	8 🗆			
-	9 🗆			
•	10 🗆			
L				
India	cator2. National Strategy a	nd/or Action Plan		
maic	atorz. National Strategy al	Tuyor Action Flan		
2.1	Diamaa fill in tha bland, abaa.	t National NASIANA Stratom		
2-1.1	· · · · · · · · · · · · · · · · · · ·	t National MSWM <u>Strategy</u>		
	2-1-1. Status	□ Endorsed □ Under Deve	· · · · · · · · · · · · · · · · · · ·	
			ndeveloped, please describe wh	y and when will it
		be formulated?		
-				
	2-1-2. Title			
	2-1-3. Target Duration			
	2-1-4. Priority Area/			
	Strategic Area			
•	2-1-5. Did J-PRISM or any	□J-PRISM		
	other donors support in	\square Other donors ()	
	developing the strategy?		•	
	, 5			
2-2.1	Please fill in the blank abou	t National MSWM <u>Action Plan</u>		
	2-2-1. Status	☐ Endorsed ☐ Under Deve	elopment Undeveloped	
			ndeveloped, please describe wh	v and when will it
		be formulated?	macronopou, produce december in	,
		20,0		
-	2-2-2. Title			
-	2-2-3. Target Duration			
-	2-2-4. Priority Area/			
	Strategic Area			
	Strategic Area			
-	2-2-5. Did J-PRISM or any	□J-PRISM		
I	2 2 3. Did J-r Nisivi di aliy	□1 EI/IDINI		

Indicator3.	Container	Deposit	Legislation
-------------	-----------	---------	-------------

other donors support in

developing the plan?

Has a Container	Deposit	Legislation	been	enforced?

 \square Yes \square Under Development \square Undeveloped

 \square Other donors (

If "Undeveloped", please describe the status, development timeframe and issues which require technical

)







suj	pport or consultation.						
	f "Voc" or "I Indox Dovolong	ant" nlagge de	acariba tha (mlamr				
	<i>f "Yes" or "Under Developm</i> 3-1. Name of the	enc, piease ae	escribe the (plant	iea) program.			
	legislation/ regulation 3-2. Year of enactment or						
	amendment of the						
	legislation/ regulation 3-3. Year of enforcement						
	of the legislation/						
	regulation						
	3-4. Did J-PRISM or any	□J-PRISM					
	other donors support in	☐Other done	ors ()			
	CDL activities?		J. J (,			
	3-5. Identified Issues or						
	further challenges if any						
	Turtifer chancinges it arry						
	3-6. Target Items	Deposit per	Refund per	Collected	Exported	Countries	to
	· ·	item	item	Amount in	Amount in	Export	
		(US\$/item)	(US\$/item)	2019	2019		
-	1			(ton/year)	(ton/year)		
-	2						
-	3						
-	4						
	5						
L	<u> </u>				<u> </u>		
icato	or4. Single Use Plastic Banr	ing					
icatt	ora. Single Ose Flastic Daili	iiig					
. a C	ingle Use Plastic Banning be	oon in Placed?					
	Yes Under Discus		□No				
	les 🗆 Olidei Discu.	331011					
I	f "No", please describe the	status develo	nment timefram	ne and issues wh	nich require tech	nical sunno	rt c
	consultation.	status, acreio	princine enrichtum	ie ana issaes wi	nen regane teen	mear suppo	
Ĭ	.onsurtation						
L							
I	f "Yes" or "Under Discussior	n", please descr	ibe the (planned) program.			
	4-1. Name of the		••	· •			
	legislation/ regulation						
	4-2. Year of enactment or						
	amendment of the						
	legislation/regulation						







4-3. Year of enforcement	
of the legislation/	
regulation	
4-4. Designated Banned	
Items	
4-5. Did J-PRISM or any	□ J-PRISM
other donors support in	☐ Other donors ()
the plastic ban?	
4-6. Identified Issues or	
further challenges if any	
auf. Estanded Duadsson Dec	manaihilitu (CDD) Lacialatian (Haad ail and Curata)
ors. Exteriueu Producer Res	ponsibility (EPR) Legislation (Used oil and E-waste)
a and Costandad Duadoras Daa	a analytiku tanialakian far Haad Oil baan anastad?
s an Extendea Producer Res _i	ponsibility Legislation for <u>Used Oil</u> been enacted?
'es □Under Discus	ssion \text{No}
	status develonment timeframe and issues which require technical sunna
f "No", please describe the	status, development timeframe and issues which require technical suppo
	status, development timeframe and issues which require technical suppo
f "No", please describe the	status, development timeframe and issues which require technical suppo
f "No", please describe the	status, development timeframe and issues which require technical suppo
f "No", please describe the	status, development timeframe and issues which require technical suppo
f "No", please describe the	status, development timeframe and issues which require technical suppo
f "No", please describe the	status, development timeframe and issues which require technical suppo
f "No", please describe the	status, development timeframe and issues which require technical suppo
f "No", please describe the consultation.	
f "No", please describe the consultation. f "Yes" or "Under Discussion	status, development timeframe and issues which require technical supports. ", please describe the (planned) program.
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR	
f "No", please describe the consultation. f "Yes" or "Under Discussion	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the	status, development timeframe and issues which require technical suppo
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the	
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation	", please describe the (planned) program.
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the	", please describe the (planned) program.
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation	", please describe the (planned) program.
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system)
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling disposal of end-of-use products (advance recycling fee on products, fee
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling disposal of end-of-use products (advance recycling fee on products, fee disposal)
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling disposal of end-of-use products (advance recycling fee on products, fee disposal) Restrict specific disposal methods for end-of-use products
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling disposal of end-of-use products (advance recycling fee on products, fee disposal)
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling disposal of end-of-use products (advance recycling fee on products, fee disposal) Restrict specific disposal methods for end-of-use products Impose levy on specific products when they are imported
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling disposal of end-of-use products (advance recycling fee on products, fee disposal) Restrict specific disposal methods for end-of-use products
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling disposal of end-of-use products (advance recycling fee on products, fee disposal) Restrict specific disposal methods for end-of-use products Impose levy on specific products when they are imported
f "No", please describe the consultation. f "Yes" or "Under Discussion 5-1-1. Name of the EPR Program 5-1-2. Name of the legislation/ regulation 5-1-3. Year of enactment or amendment the legislation/ regulation 5-1-4. Year of enforcement of the legislation/ regulation 5-1-5. Policy Approach (multiple answers	Regulate manufacturers (or importers) to collect end-of-use products recycling or disposal. (ex. deposit-refund system) Regulate manufacturers (or importers) to bear the cost for recycling disposal of end-of-use products (advance recycling fee on products, fee disposal) Restrict specific disposal methods for end-of-use products Impose levy on specific products when they are imported







5-1-6. Identified Issues or	
further challenges if any	
5-1-7. Did J-PRISM or any	□JPRIMS
other donors support in	□Other donors (
EPR activities?	
s an Extended Producer Res	ponsibility Legislation for <u>E-waste</u> been enacted?
es □Under Discus	
	
f "No" nlease describe the	status, development timeframe and issues which require technical support
onsultation.	status, development timejrume and issues which require technical support
onsultation.	
f "Yes" or "Under Discussior	n", please describe the (planned) program.
5-2-1. Name of the EPR	
Program	
5-2-2. Name of the	
legislation/ regulation	
5-2-3. Year of enactment	
or amendment the	
legislation/ regulation	
5-2-4. Year of	
enforcement of the	
legislation/ regulation	
5-2-5. Policy Approach	\square Regulate manufacturers (or importers) to collect end-of-use products for
(multiple answers	recycling or disposal. (ex. deposit-refund system)
allowed)	Regulate manufacturers (or importers) to bear the cost for recycling of
,	disposal of end-of-use products (advance recycling fee on products, fee o
	disposal)
	Restrict specific disposal methods for end-of-use products
	☐ Impose levy on specific products when they are imported
	— Impose levy on specific products when they are imported
	<u>Please describe the system more specifically:</u>
5-2-6. Identified Issues or	
further challenges if any	
5-2-7. Did J-PRISM or any	□JPRIMS
other donors support in	□Other donors ()
FPR activities?	
LI IV ACTIVITIES!	•

Indicator6. User-pays Systems for Waste Collection

User-pay System is one of the economic instrument approaches for disposing of municipal solid waste where users (citizens) are charged for waste discharge collected by municipality (local authority) or contractors as a public service.







User-pay System doesn't include tipping fee (at landfill site gate fee).

Has	a user-pay system for waste co		·
	☐Yes ☐Under Discus	sion	□No
	15 (A) - 11 - 12 and a confine the	. 4 . 4.	
	If "No", please describe the consultation.	statu	is, development timeframe and issues which require technical support or
	Consultation.		
	If "Vos" or "I Inder Discussion	" nlo	ase describe the (planned) system.
	6-1. Name of the	<i>, pie</i> □Ye	
	legislation/ regulation		es — No — onder bevelopment
	6-2. Year of enactment or		
	amendment of the		
	legislation/ regulation		
	6-3. Year of enforcement		
	of the legislation/		
	regulation		
	6-4. Payment approach		
	o ayent approach		
	6-5. Did J-PRISM or any		PRIMS
	other donors support in	□о	ther donors (
	User-pay System?		,
	6-6. Identified Issues or		
	further challenges if any		
ndi	cator7. Waste Amount and Co	npos	ition Survey (Waste Audit)
			Waste Amount and Composition Survey (Waste Audit) done in your country.
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
he	latest		
1	The Implementation Year		
	The Target Area for the Survey	,	
	Number of populati		
	households for the Survey	,	
	Did J-PRISM or any other dor	nors	□JPRIMS
	support the Survey?		□Other donors ()
	,		,
he	second latest (if any)		
2	The Implementation Year		
	The Target Area for the Survey	,	
	Number of populati		
	households for the Survey		
	Did J-PRISM or any other dor	nors	□JPRIMS
	cupport the Survey?		Other depart







The	third	latest	(if any)
-----	-------	--------	----------

dicator8. Private Waste Management Operator's Licensing Program								
nt operators								
•								
al support or								
omnanies								
Companies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
ompanies								
Did J-PRISM or any other donors								

Indicator9. Landfill Managed in Environmentally Friendly Manner

8-1. Please write down the names of all of the final disposal sites in your country and tick the maintenance condition for each site.

A. Landfill Sites (sanitary or controlled)







No.	Name of the site	Soil cover stockpile	Administrative office on site	Site access control by fence and gate	Embarkment	Drainage facility	Gas venting	Leachate collection facility	Leachate circulation	Leachate chemical treatment	Environmental monitoring	Liner installation	Weigh Bridge
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

B. Open Dump Sites

Please declare the number of open dump sites and the area unequipped and unmanaged with any above mentioned facilities. If you unsure the number and site name, please provide the best guess.

	Administrative Division/ District	Total number of the open dump site
	Ex) XXX Province	Ex) 3
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		





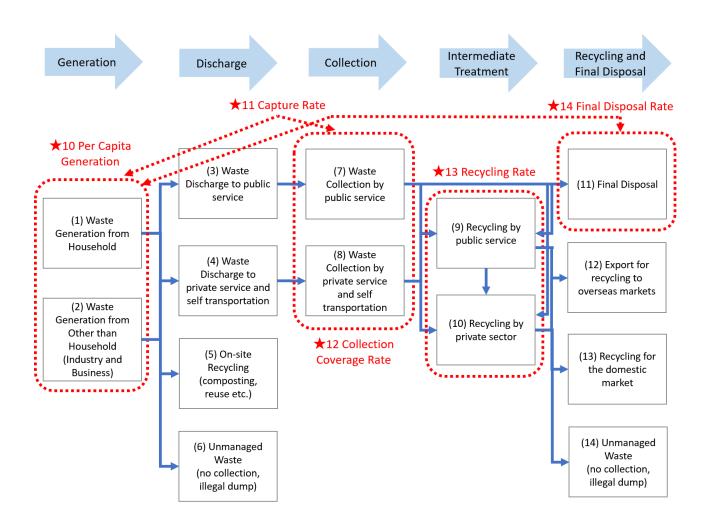


☐ Under Discussion	☐ Under Designing
☐ Under Construction	☐ Neither plan nor construction

Please describe current status of the new final disposal site development.

1	Name of the area	
	Land Acquisition	
	Size of the Land	
2	Name of the area	
	Land Acquisition	
	Size of the Land	

Part 2. Quantitative Indicators









A. National Data

	PI	Results	Please describe your calculation method if you calculate from obtained resource data	Please describe how did you obtain the resource data
10	Per Capita Generation of Municipal Solid Waste (kg/person/day)			
11	Municipal Solid Waste Capture Rate (%)			
12	Municipal Solid Waste Collection Coverage Rate (%)			
13	Municipal Solid Waste Recycling Rate (%)			
14	Municipal Solid Waste Final Disposal Rate (%)			







B. States/ Municipal/ Local Governments Data

Please select at least one state/municipal/local government.

ricuse select at least one state, mamelpay local government.				
The Name of the Target State/ Municipal/ Local Government				

PI		Results	Please describe your calculation method if you calculate from obtained resource data	Please describe how did you obtain the resource data
10	Per Capita Generation of Municipal Solid Waste (kg/person/day)			
11	Municipal Solid Waste Capture Rate (%)			
12	Municipal Solid Waste Collection Coverage Rate (%)			
13	Municipal Solid Waste Recycling Rate (%)			
14	Municipal Solid Waste Final Disposal Rate (%)			

15







Capacity Development Needs Survey

Please tick topics that are high in demand for trainings for those who engaged in waste management in your country, whichever at national or local level and whoever from private or public sector. In addition, please specify the target organizations likely to participate to the selected trainings. (Multiple answers allowed)

Topics	Tick (multiple answers allowed)	Organizations preferable to participate to the training (multiple answers allowed) EX. Ministry of XXX, City of YY, Municipal council of ZZ, etc.
1. Basic Data Collection/Analysis		
1-1: Waste Audit for Household Waste		
1-2: Waste Audit for Industrial Waste (other than household waste)		
1-3: Identifying Waste Flow from the survey result		
1-4: National Monitoring on SWM (data collection/reporting)		
2. Policy & Regulation Development		
2-1: National SWM Strategy/ Master Plan Development		
2-2: State/ Local Government SWM Strategy/Master Plan Development		
2-3: Comprehensive 3R Policy Intervention		
2-4: Extended Producer Responsibility		
2-5: Plastic Ban/ Importation Regulation		
3. Economic Instruments Design/Development		
3-1. Container Deposit System		
3-2. Environmental Levy		
3-4. User-pay for Waste Collection and Disposal		
4. Waste Collection & Transportation		
4-1. Time & Motion study with/without GPS logger and analysis		
4-2. Expansion/Improvement of Collection Service		
4-3. Contractor Management		
5. Landfill Management		
5-1. New Landfill Design/ Construction		
5-2. Landfill Rehabilitation and Pollution Control		
5-3. Daily Landfill Operation Improvement		
5-4. Data Management at Landfill		
5-5. Contractor Management		
6. 3R (Waste reduction, recycling, reusing)	•	







	6-1. Organic Waste Processing (Composting)	
	6-2. School/Youth Awareness Program on waste and 3R	
	6-3. Community Awareness Program on waste and 3R	
7.	Disaster Waste Management	
	7. Disaster Waste Management Planning	
8. Occupational Safety & Health in SWM		
	8. Occupational Safety & Health in SWM	
9. Facility Management		
	9. Daily Maintenance and Inspection of Vehicles and Heavy Machineries	
10. All-packaged comprehensive training		
	10-1. All-Packaged Comprehensive Training on SWM (novice level for waste management officer)	
	10-2. All-Packaged Comprehensive Training on SWM (intermediate/ advanced)	