# 11 Republic of Marshall Islands

# 11.1 Outline of Activity in RMI

# 11.1.1 Dispatch Schedule

Total: 110 days

Dispatch	Date	Days	Dispatched Expert
1 <sup>st</sup> :	14 <sup>st</sup> of June, 2014 – 3 <sup>rd</sup> of July, 2014	21days	Haseyama
2 <sup>nd</sup> :	(No dispatch)		
3 <sup>rd</sup> :	26 <sup>th</sup> of October ,2014– 14 <sup>th</sup> of November,2014	20days	Haseyama
	26 <sup>th</sup> of October,2014 – 7 <sup>th</sup> of November, 2014	13days	Muranaka
4 <sup>th</sup> :	15 <sup>th</sup> of January, 2015 – 6 <sup>th</sup> of February, 2015	23days	Haseyama
5 <sup>th</sup>	18 <sup>th</sup> of May, 2015 – 29 <sup>th</sup> of May, 2015	12days	Haseyama
6 <sup>th</sup> :	4 <sup>th</sup> of September, 2015- 11 <sup>th</sup> of September, 2015	8days	Haseyama
7 <sup>th</sup> :	4 <sup>th</sup> of November, 2015 – 16 <sup>th</sup> of November, 2015	13days	Haseyama

# 11.1.2 Counterpart Organization

Ministry of Public Works (MPW)

Office of Environmental Planning and Policy Coordination (OEPPC)

Office of Chief Secretary (OCS)

Majuro Atoll Waste Company (MAWC)

Environmental Protection Agency (EPA)

Ministry of Education (MOE)

Kwajalein Atoll Local Government (KALG)

# 11.1.3 Counterpart Members

Organization	Name	Title	Remarks
MPW	Wilbur Allen	Secretary	
OEPPC	Bruce Kijiner	Director	Resigned in May, 2015
	Lowell Alik	Director	Assigned in May, 2015
	Warwick Harris	Deputy Director	
OCS	Casten N. Nerma	Chief Secretary	Resigned in September, 2014
	Justina R. Langidrik	Acting Chief Secretary	Assigned in October, 2014
MAWC	Jorelik Tibon	General manager	
	Teliphen Neamon	Supervisor	
EPA	Lowell Alik	General Manager	Resigned in February, 2015
	Moriana Philip	General Manager	Assigned in September, 2015
	Julian Alik	Deputy General manager	Resigned in February, 2015
	Roney Arelong		Passed away in June, 2012
	Jessica Zebedee	Chief of the Education, Awareness and	Assigned in 2014
		Information Division	
	Steave Ittu		
MOE	Gary Ueno	Secretary	
	Kanchi Hosia	Assistant Secretary	
KALG	Aeto Bantol	Chief Administrative Officer	
	Jesse Reketa	Assistant CAO	
	Wesley D. Lemari	Assistant Director	
MOE-Ebeye	Jelton Anjain	Assistant Secretary	
EPA-Ebeye	Odrikawa A. Jatios	Deputy General manager	
	Whitney Debrum	Education, Awareness and Information	Resigned in September, 2015
		Division	

# 11.1.1 Activities and Outputs

The progress of the activities and its achievements from May 2014 to January 2016 are summarized in accordance with the PO and agreed indicators in next table.

		Achievement by			Activity/ Progress	Progress		
onthr	Outputs/ Indicators	FY 2013	1st dispatch	3 <sup>rd</sup> dispatch	4 <sup>th</sup> dispatch	5 <sup>th</sup> dispatch	6 <sup>th</sup> dispatch	7 <sup>th</sup> dispatch
Output1	NSWMS is implemented.	The NSWMS was drafted in March 2014 but it hasn't been approved by the National government yet.	IJ) Monitoring the NSWMS and its Action Plan The draft NSWMS was submitted to the Cabinet. Continuous support to OEPPC is still necessary. Kk) Providing advice on information management for developing the Next NSWMS.  The policy to implement activities with sharing information between Majuro and Ebeye is confirmed.	ij) Monitoring the NSWMS and its Action Plan No specific activity conducted.  kk) Providing advice on information management for developing a Next NSWM Monitoring on the Action plan was conducted.	II) Monitoring the NSWMS and its Action Plan Activity results were reported in the 4th JCC meeting.  kk) Providing advice on information management for developing a Next NSWM Deleting "Draft the next NSWMS for the year 2016-2020" from the PO was agreed in the 4th JCC meeting.	jj) Monitoring the NSWMS and its Action Plan Monitoring results were reported in the C/P meeting.	jj) Monitoring the NSWMS and its Action Plan The achievement of the progress indicators were monitored through the terminal evaluation survey.	ij) Monitoring the NSWMS and its Action Plan Activity results were reported in the 5th JCC meeting.
Indicator 1-1:	NSWMS and Action plan of Majuro is finalized.	The NSWMS was drafted in March 2014but hasn't been approved by the National government yet.					The endorsement on the NSWMS had not yet been done. The way of endorsement on the NSWMS was discussed. As the result, oCcs and OEPPC will tackle to official approval of the NSWMS.	[Mosty Achieved] OCS and OEPPC still continue to tackle to official approval of the NSWMS.
Indicator 1-2:	Implementation of Action plan is monitored and reviewed by the Monitoring Committee 3 times a year.	Planned in 2014		The first monitoring meeting was conducted in October 2014.		The second monitoring meeting was conducted in May, 2015.		[Partially Achieved] The results on the activities were reported in the 5th JCC meeting.
Indicator 1-3:	Progress report is issued annually.	Planned in 2014		Progress report was not issued yet.				
Output2	Recycling system is improved in Majuro.	Paper briquettes are produced by MAWC since MAWC recovers recyclable items from the disposed waste at the dumpsite.	II) Providing advice for monitoring and evaluation of recycling system As a result of monitoring the progress of the activity, MAWC started planning a new waste collection system.	II) Providing advice for monitoring and evaluation of recycling system  No specific activity conducted.	II) Providing advice for monitoring and evaluation of recycling system The result of the activities were reported in the 4th JCC meeting.	II) Providing advice for monitoring and evaluation of recycling system. The result of the activities were reported in the C/P meeting	II) Providing advice for monitoring and evaluation of recycling system. The latest information of the activities were reported on the terminal evaluation survey	II) Providing advice for monitoring and evaluation of recycling system. The result of the activities were reported in the 5th JCC meeting.
Indicator 2-1:	Recycle products is increased year by year.							[ Mostly Achieved ] The result of the activities were reported

Achievement by FY 2013 1st dispatch
mm Describer relation for
minj Provious advice for minj Provious advice for monitoring and evaluation composting green on composting system As a result of monitoring the No specific activity, progress of the activity, conducted.  MAWC has promoting more composting such as for gardening
on above
Environmental and Providing advice for mn) Providing advice for education and monitoring and evaluation awareness-raising on school based recycling activities are activity system conducted, and some As a result of monitoring the Mo specific activity materials such as progress of the activity, conducted.  The providing advice for monitoring the monitoring the activity and utilized in the implemented well with cooperation of a JOCV.
[Achieved] Booklet and video were developed in 2012.
[Completed]
Recycle programs are implemented in over 80% of public elementary schools in Majuro.

		Achievement by			Activity/ Progress	rogress		
Outpu	Outputs/ Indicators	FY 2013	1⁵t dispatch	3 <sup>rd</sup> dispatch	4 <sup>th</sup> dispatch	5 <sup>th</sup> dispatch	6 <sup>th</sup> dispatch	7 <sup>th</sup> dispatch
! !	was	cEbeye> The Action plan was stage and hasn't been officially approved. Some environmental education and awareness activities wer implemented well and became an open dumping with open burning.	oo) Support for Preparing the Action Plan for Ebeye Not specific activity conducted.  pp) Support for Awareness Program on 4Rs Not specific activity conducted.  qq) Support for Paper Fuel Program Not specific activity conducted.	the Action Plan for Preparing the Action Plan for Ebeye Workshop to draft an Action plan was conducted under J- plan was conducted under J- plan was conducted under J- pp) Support for Awareness Program on 4Rs The Action plan of EPA was drafted in the Workshop aqj Support for Paper Fuel Program As a result of several discussion with C/Ps, this activity will be postponed to	oo) Support for Preparing the Action Plan for Ebeye The activity results were reported in the 4th JCC meeting. (TV conference).  pp) Support for Awareness Program on 4Rs The awareness-raising activities were conducted.  qq) Support for Paper Fuel Program No specific activity.	oo) Support for Preparing the Action Plan for Ebeye Monitoring activity was conducted by OEPPC  pp) Support for Awareness Program on 4Rs The plan of teacher training was drafted.  qq) Support for Paper Fuel Program  No specific activity	the Action Plan for Ebeye The latest information of the activities were reported on the terminal evaluation survey pp) Support for Awareness Program on 4Rs The teacher training on the CSP was conducted. qq) Support for Paper Fuel Program Drafting of the paper fuel program was discussed.	the Action Plan for Ebeye The activity results were reported in the 5th JCC meeting. (TV conference).  pp) Support for Awareness Program on 4Rs The monitoring on the CSP was conducted.  qq) Support for Paper Fuel Program The paper fuel program was drafted.
cipo de la companya de la de la companya de la de la companya de l	system is improved in Ebeye.	the dumpsite in 2012 and security fence was installed by GGP. Daily waste collection service is provided in Ebeye.	rr) Support for Improvement of Dumpsite Discussion on improving the dumpsite was started.	rr) Support for Improvement of Dumpsite Improvement of the dumpsite was started from the J-PRISM workshop/training.	rr) Support for Improvement of Dumpsite The progress of the dumpsite improvement was monitored.	Inprovement of Dumpsite The progress of the dumpsite improvement was monitored.	rr) Support for Improvement of Dumpsite The progress of the dumpsite improvement was monitored	rr) Support for Improvement of Dumpsite The progress of the dumpsite improvement was monitored.
			ss) Support for Improvement of Waste Collection Plan Not specific activity conducted.	ss) Support for Improvement of Waste Collection Plan The New waste collection plan was drafted in the workshop.	ss) Support for Improvement of Waste Collection Plan The New waste collection plan has not been started due to the delayed arrival of the new waste collection vehicles.	ss) Support for Improvement of Waste Collection Plan The New waste collection plan has not been started due to the delayed arrival of the new waste collection vehicles	ss) Support for Improvement of Waste Collection Plan The new waste collection vehicles were arrived in Ebeye. New waste collection service was under the final preparation stage.	ss) Support for Improvement of Waste Collection Plan The new waste collection service was started in Ebeye in September. The time and motion study was conducted.
Indicator 5-1:	Plan for improvement of waste collection is drafted.	One C/P has some idea, but not propose to the decision makers of the Government officially.		New waste collection system was planned during the workshop, and proposed to the Mayor during the workshop.				[Mostly Achieved] The New waste collection was started.
Indicator 5-2:	The burning in the open dumping decreased to 0 in Ebeye.	Open burning was still observed in 2013.		[Achieved] Open burning at the dumpsite was stopped after the workshop/ training conducted in the early November, 2014.				
Indicator 5-3:	The waste is located separately and	Planned in 2014 (This activity will be implemented after			[Fully Achieved] Segregation has been implemented at the site.			

4	220+001601/0+110410	Achievement by			Activity/ Progress	rogress		
Outpu	its/ illidicators	FY 2013	1st dispatch	3 <sup>rd</sup> dispatch	4 <sup>th</sup> dispatch	5 <sup>th</sup> dispatch	6 <sup>th</sup> dispatch	7 <sup>th</sup> dispatch
	adequately in							
	dump site.	the dump site).						
	Bulky waste				[Fully Achieved]			
	collection is				Segregation has been			
Indicator	separated from	implemented after			implemented at the site.			
5-4:	the common							
	household	the dump site.)						
	waste.							
	Education on AB	[Completed]4R			[Fully Achieved]			
	promotion is				Visits to all schools was			Monitoring activities on
Indicator	conducted for				completed.			CSP were conducted.
5-5:	lochas lle	were conducted in						
	classrooms	Nov. of 2013 for all						
		schools in Ebeye.						
	Teacher training	[Completed] 4R					[Fully Achieved]	
	on 4R						Teacher trainings on CSP	Monitoring activities on
	promotion is						were conducted.	CSP were conducted.
Indicator	conducted for	were conducted in						
. 9-6	all teachers in							
)	Ebeye.	schools in Ebeye.						
	*4R: Refuse,							
	Reduce, Reuse,							
	Recycle							
Indicator	Plan for paper	Planned in 2014		This activity will start in				[Mostly Achieved]
7-7	fuelic drafted			2015.				The Plan on paper fuel was
·	ומבו וז מו מורכת			_				drafted.
		*			+			

# 11.2 Activity Report of Each Output

# 11.2.1 Output1: NSWMS is implemented.

#### a. Activity of the First Dispatch (from 14th of July to 1st of August, 2014)

The C/Ps of OEPPC submitted the draft National Solid Waste Management Srategy(NSWMS) to the Minister in Assistance to the President and were waiting his comments and feedbacks.

#### b. Activity of the Third Dispatch (from 26th of October to 14th of November, 2014)

There is no progress in the endorsement of the NSWMS.

The Action plan was developed in the SPREP sponsored workshop in 2012. The C/P well remembered the contents of the Action Plans, C/Ps reviewed and commented well in the monitoring activity. It was good opportunity to remind and review their footprint of the activities.

The Action Plan was monitored with C/Ps on 29th of October, 2014. In this meeting, only the progress rate on each activity was discussed. Therefore, C/Ps needed to continue identifying the reason of the limited progress of some activities. After this meeting, OEPPC reviewed the format of the monitoring sheet and distributed to each stakeholder. This revised format included some new items such as finance, next activity schedule and challenges. The result of the monitoring of the Action Plan is shown below. Some cells were not been filled up and they needed to be filled up by the C/Ps by the next visit of the Expert.

Table 11-1: Activities of the Action Plan and its monitored progress

Action	Situation as of July 2014	Progress (% complete)
1. Conduct annual coordination workshop to update the Education and Communication section of the NWMS, devise short-term action plans, and develop a communication strategy.	NSWMS is not endorsed.	25
Develop and implement annual coordinated activities focusing on better national waste management and home-based recycling	EPA, MAWC and stakeholders conducted some activities.	25
3. Develop and implement an accreditation program in sustainable waste management practices for communities and other sectors including education, commercial, industrial, tourism, and fisheries.	Partial	25
4. Conduct a review of relevant laws, regulations and ordinances pertaining to solid waste and hazardous substances management, including a review of RMI's obligations under relevant regional and international multilateral environmental agreements.	Gate Fee system at dump site has been started	50
5. Strengthen the enforcement and compliance capacity within the country.		ТВС
6. Broaden the scope of the J-PRISM JCC to maintain a comprehensive overview of the waste situation, and competently advise of progress and barriers to implementing the RMI National Waste Management Strategy	Not started	0
7. Develop and implement container deposit legislation (CDL) for beverage and alcohol containers, lead-acid batteries, and other selected waste items, which will encourage their return and provide revenue for their export and recycling.	Planning under SPREP's assist	50
8. Develop and implement affordable, and socially-equitable waste collection fees and landfill tipping fees on Majuro Atoll.	Gate fee already implemented.	75
9. Select and commission a new landfill site as a matter of priority	Planning stage	75
10. Select and commission a new landfill site as a matter of priority	On going	50

Action	Situation as of July 2014	Progress (% complete)
11. Decommission and secure the existing dumpsite	On going	50
12. Conduct a time-motion study of the collection service to identify inefficiencies and areas for improvement.		75
13. Develop and implement a preventive maintenance program for all equipment.		50
14. Prioritize funding in the Compact budget for expansion of waste collection services in Majuro (including procurement of additional equipment) in collaboration with the private sector where practical.		75
15. Prioritize waste management training at the national level and improve engagement with local and regional higher learning institutions and instructors		25
16. Prioritize vocational waste management training at the local government level, with priority emphasis for Majuro, Ebeye, Wotje, and Jaluit.		25
17. Implement training in occupational health and safety for all workers engaged in waste management activities – reference ILOs WARM manual.		25
18. Develop and implement waste minimization and management plans for each populated atoll - immediate priorities are Ebeye, Wotje, and Jaluit		10
19. Develop and implement a plan for an integrated waste minimization system encompassing the 4Rs.		50
20. Scale-up the reusable bag promotion campaign and assess other options for reducing plastic bag usage.		25
21. Scale-up the manufacture of paper briquettes	Well Implemented	75
22. Scale-up the existing composting program	Well implemented	75
23. Collect, process, and export of legacy scrap metal in the Marshall Islands in conjunction with the private sector.		25
24. Expand the community recycling initiative in Majuro by providing at least an additional 10 recycling points each year (to be accompanied by public awareness).	Instead of the recycling point, new waste collection system has been considerate.	50
25. Prioritize the repair of the PET plastic bailing machine and re-commence export of PET plastics.	Planning stage	75
26. Prioritize the export of used lead acid batteries, and re-commence the collection/acceptance of batteries.	Exported to Korean recycle company	75
27. Maintain and issue suitable personal protective equipment and deliver annual worker training to operational staff at the dumpsite.	Staff meeting has been conducted	75
28. Collect and report data on all recycling programs in RMI to track recycling rate and annual progress towards achieving the goals.		TBC
29. Integrate POPs National committee into Waste Management Steering Group		25
30. Secure funding to complete National Implementation Plan review from UNEP/GEF-5.	Secured the Money	50
31. Implement NIP review recommendations	Just started from last July.	25
32. Analyze the relative cost-benefits of RMI becoming a party to the Waigani Convention.		25
33. Complete the Marshall Islands Waste Oil Management Plan		50
34. Negotiate safe and permitted transport by the regional airline of waste oil samples for analysis		25
35. Complete National E-waste and ODS management policies and strategies		50
36. Incorporate best practice disposal or recycling practices for ODS and E-waste into routine landfill operations		25
37. Incorporate integrated medical waste management into Hospital operational plans and budgets	Already incorporated	100
38. Relocate high temperature incinerator to new secure disposal site and commission it.	Already installed	100

Action	Situation as of July 2014	Progress (% complete)
39. Establish controlled and licensed medical incinerator ash disposal site.		50
40. Regulate and license hospital incinerator operation		
41. Implement annual refresher training for all Orderlies and incinerator operators		25
42. Monitor medical waste management performance		25
43. Review best options (including cost-effectiveness) for atoll medical waste management, as a component of the review of atoll waste management.		25

#### c. Activity of the Fourth Dispatch (from 15th of Januarry to 6th of February, 2015)

The NSWMS was finally drafted and submitted to the Minister in Assistance to the President in September, 2014, but was not endorsed yet. Based on original PO, two NSWMSs were developed; NSWMS (2011-2015) in 2011 and NSWMS(2016-2020) in 2015; however, due to the delay of the drafting, the finalization of the developed NSWMS (2011-2015) was delayed to 2014, and it was agreed that the drafted NSWMS(2011-2015) was modified to NSWMS (2014-2018) with updating the data and deletion of the activity 1-6" Draft the next NSWMS for the year 2016-2020" from PO in the 4th JCC meeting.

# d. Activity of the Fifth Dispatch (from 18th to 30th of May, 2015)

The C/P meeting to monitor the Action Plans was held on 29<sup>th</sup> of May, 2015. This meeting was organized by OEPPC. OEPPC, MAWC and EPA to report their respective activities. The monitoring in Ebeye was also conducted in Ebeye in May, 2015 and the results were reported in this meeting. C/Ps reported the achievements and the issues of their activities as well as their next challenges as shown in the table below.

Table 11-2: The summary of the reported matters in the C/P meeting on 29th May, 2015

	Success Stories/Good Peactices	Matters to be improved
MAWC	Composting and Rebuilt/Recycled goods	Challenging to improve the waste collection sytem
	Next steps:	Assign a dedicated staff
	Improvement/Expansion of the yard to be used	Proactive schedule to meet with landowners
	for composting and recycling is needed.	Implement existing plan
EPA	Environmental Education through-out schools Hands on activities with students Visits to schools on Ebeye Gardening/compost project	Reaching out to communities Visiting more churches Implementing on plastic bag ban in Majuro and eventually through out Marshall Islands Even though environmental education is conducted through schools children does not always get the full context if it's not practiced at home with parents. Which is why it's important for the awareness team to go out to
		communities.  Next Challenges: Making sure that we can come up with ideas or activities that children can take them home and share with parents. Education on waste doesn't begin and end at school; nor Will it ever end. It's an everlasting issue that needs to be brought to the table.

		Parents need to start doing their part when it comes to waste or else children won't Take waste issues seriously. This is now an issue that we can no longer run from.
OEPPC	Drafting the national solid waste management strategy and action plan  Reason of Success: - Country driven - Broad spectrum of societies involved in the development process - Faith based org., youth group, women group, mayors, senators, NGO's, private sector, government, SOEs, SPREP and JICA	Implementation of the NSWMS&AP  - Yet to be endorsed  - Limited commitment by relevant lead agencies  How to overcome:  - Cabinet needs to endorse  - Thus giving mandate to lead agencies to prioritize, program funds, implement and monitor
Ebeye	School activities	Limited Budget:
	Reason of success	Countermeasures:
	- Proactive visiting	Access to the budget is to be omproved.
	- Good materials (Presentation, Posters and	
	so on)	

Mr. Warwick Haris, The C/P of OEPPC, visited Ebeye with the JICA Expert and he supported the monitoring of the action plan in Ebeye in November 2015. C/Ps from KALG, MOE,EPA and MOH attended the monitoring meeting. Mr. Haris advised to promote improvement of the SWM system in Ebeye particularly in medical waste issues in relation to the Pac Waste Project assisted by SPREP.

Mr. Haris also advised to improve the capacity on medical waste treatment such as operation of the incinerator of the medical waste.



Interview by OEPPC in the monitoring meeting



Site observation <The incinerator was donated but still stored in the box at the hospital.>



Site Observation <SteriMed-70 the Healthcare Waste Processer>



Site Observation <The bins for the sharps waste>

Table 11-3: Result of the monitoring on OUYPUT 5

Objectively Verifiable Indicators	Means of Verifications	Actual
5- 1 Plan for improvement of	5-1Plan for improvement of	Plan drafted. New waste collection
waste collection is drafted.	waste collection	vehicles and bins not arrived yet.
5-2 The burning in the open	5-2,5-3&5-4 Evaluation	Open burning has been eliminated.
dumping decreased to 0 in Ebeye	results of Management level	
5-3 The waste is located separately	on dump site	Improved
and adequately in dump site.		
5-4 Bulky waste collection is		Bulky waste collection has been
separated from the common		separated from the common
household waste.		household waste.
5-5 Education on 4R promotion is	5-5&5-6Records on	EPA conducted them.
conducted for all school classroom.	education activities/actions	
5-6 Teacher training on 4R	on 4R promotion.	Planned in September 2015.
promotion is conducted for all		Preparation meeting was commenced
teachers in Ebeye.		in May 2015.
*4R: Refuse, Reduce, Reuse,		
Recycle		
5-7 Plan for paper fuel is drafted	5-7 Drafted plan for paper	Planned in 2015
	fuel.	

# e. Activity of the Sixth Dispatch (from 4th to 11th of September, 2015)

The NSWMS was submitted to the Minister in Assistance to the President in September 2014, but it was not endorsed yet. The reasons of these delay of the endorsement was discussed in the meeting of the final evaluation survey. As the result of the meeting, OCS and OEPPC decided to cooperate to solve this issues.

# f. Activity of the Seventh Dispatch (from 4<sup>th</sup> to 16<sup>th</sup> of November, 2015)

The update of the activities was reported in the  $5^{th}$  JCC meeting. (Refer to "9.2.5. Other activities related to SWM".)

# 11.2.2 Output2: Recycling system is improved in Majuro

# 11.2.3 Output3: Composting system is improved in Majuro

#### a. Activity of the First Dispatch (from 14th of July to 1st of August, 2014)

As a result of a monitoring of the progress of the activities of the recycling, it was identified that MAWC started planning the new waste collection system including segregated collection. This activity was supported by a SV, aiming to introduce so-called curbside station collection system increase the efficiency of the collection service. It was identified that the MAWC continued to promote compost in the agriculture area such as watermelons farm.

#### b. Activity of the Third Dispatch (from 26th of October, 2014 - 14th of November, 2014)

The pilot project of the new waste collection system was monitored. Before implementation of the pilot project, the MAWC stopped using the old collection points where yellow colored drums were installed.

# c. Activities of the Fourth Dispatch (from 15th of Januarry to 6th of February, 2014)

The activity results of Output2 and 3 were reported by MAWC in the 4<sup>th</sup> JCC meeting. The trend of income from composting and recycling was reported.

Table 11-4: Trend data of the income from the composting and recycling in MAWC

(Unit: USD)	2009	2010	2011	2012	2013	2014
Compost	1,603	3,003	0	3,288.5	9,452.0	3,442.0
Parts and recycles				5,830.21	11,291.46	10,144.10
Other Recycled materials	7,6124.37	53,464.53	35,238.01	54,019.79	34,705.04	16,258.06

# d. Activities of the Fifth Dispatch (from 18th to 30th of May, 2015)

The activity results of Output 2 and 3 were reported by MAWC in the C/P meeting.

# e. Activity of the Sixth Dispatch (from 4th to 11th of September, 2014)

The activity results of Output2 and 3 were monitored through the final evaluation survey. The production amount of compost and recyclables was reported.

#### f. Activity of the Seventh Dispatch (from 4<sup>th</sup> to 16<sup>th</sup> of November, 2015)

The activity results of Output2 and 3 were reported by MAWC in the 5<sup>th</sup> JCC meeting. The production amount of compost and recyclables was reported.

Table 11-5: The data of the income from composting and recycling in MAWC

(Unit: USD)	2009	2010	2011	2012	2013	2014	2015
Compost	1,603	3,003	0	3,288.5	9,452.0	3,442.0	4.672.21
Parts and recycles				5,830.21	11,291.46	10,719.10	8,292.09

# 11.2.4 Output4: School-based recycle system is introduced in Majuro

# a. Activity of the First Dispatch (from 14th of July to 1st of August, 2014)

New Chief of the environmental education and awareness division of EPA was assigned. It was expected that the environmental education and awareness activities can be continued actively with the assistance of a JOCV.

#### b. Activities of the Fourth Dispatch (from 15th of Janurary to 6th of February, 2014)

The activity results of Output4 were reported by EPA in the 4th JCC meeting.

# c. Activities of the Fifth Dispatch (from 18th to 30th of May, 2015)

The activity plan in 2015 on environmental education was discussed between EPA and JICA expert. Environmental education will be conducted not only in Majuro but also in Ebeye. The teacher training on environmental education will be held under cooperation of EPA-Majuro in September, 2015. The plan of the teacher training was shared by both EPA-Majuro and EPA-Ebeye.

# d. Activity of the Sixth Dispatch (from 4th to 11th of September, 2015)

The C/P of EPA-Majuro attended the Clean School program (CSP) held in Ebeye in September, 2015.

# e. Activity of the Seventh Dispatch (from 4th to 16th of November, 2015)

The C/P of EPA-Majuro attended the monitoring activities of the CSP in Ebeye. She reported the results of the monitoring in Ebeye in the 5<sup>th</sup> JCC meeting. CSP will be introduced not only in Ebeye but also in Majuro after 2016.

### 11.2.5 Output5: Solid waste management system is improved in Ebeye

a. Activity of the First Dispatch (from 22<sup>nd</sup> to 28<sup>th</sup> of July, 2014)

#### a.1. Counterparts

In July 2014, due to the temporal medical leave of a key C/P, some of the activities were not able to continued that revealed the lack of communication within and among the agencies and realized the necessity to work as a team among KALG, EPA and other stakeholders. The organizational framework of the SWM in Ebeye is shown below.

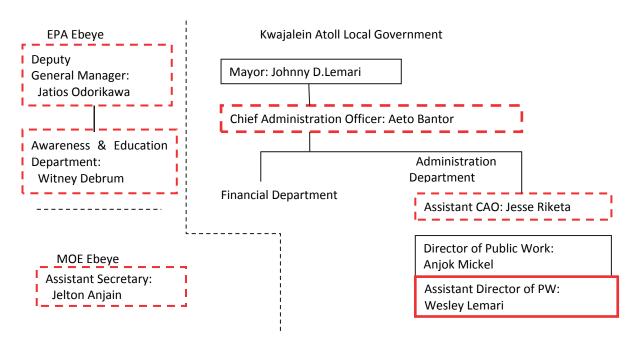


Figure 11-1: Organizational framework in Ebeye

### a.2. Results of each output

Some activities related to the indicators of the PO were not able to be monitored during this dispatch due to the absence of the key C/P for his medical leave. Only some updates of relevant information were informed and observed by the Expert.

#### Indicator 5-1: Plan for improvement of waste collection is drafted.

Household waste was used to be collected by a compactor truck, and waste in the big containers which were installed on the side of the streets and in front of the market were collected by a container truck and a forklift. Regular daily collection service were not able to continue for three weeks because the compactor truck and folk lift had trouble on their maintenance trouble. Therefore, as the countermeasure PW used the container truck, a wheel loader and a dump truck to collect the waste but some waste was overflowed from the containers due to limited frequency and capacity of the collection of these heavy equipment. Although the service level of the collection became lower, taking a countermeasures with available vehicles should be appreciated. It was highly recommended the KALG to plan and procure a new vehicle for the collection.



The waste collection vehicle that was broken



The wheel loader collects waste as an alternative method.



Trash was filled up on the load side



Use a container truck for collecting waste



Transferring the waste from a wheel loader to dump truck

#### Indicator 5-2: The burning in the open dumping decreased to 0 in Ebeye.

The burning waste observed in the open dumpsite was a major issue at the dump site. The reason of the burning waste was that some children burned the waste to collect copper to sell and sometimes some hospital staffs burned their waste as well. Although, a security staff was allocated before at the dumpsite, he was laid off due to the limited budget of the SWM in the Government in 2014. In order to stop open burning, the allocation of a security at the dumpsite should be highly prioritized.



Dump site (from outside of gate)



Smoke and fire in the dump site







No Segregation of bulky waste

#### Indicator 5-3: The waste is located separately and adequately in dump site.

This activity was not implemented yet, and it will be started once the dumpsite is improved.

#### Indicator 5-4: Bulky waste collection is separated from the common household waste.

Same as the above reason, this activity was not yet implemented.

#### Indicator 5-5: Education on 4R promotion is conducted for all school classrooms.

Workshops at schools were conducted regularly by EPA. Some schools also requested EPA for additional school visits.

Community workshops for the environmental awareness in Ebeye were conducted in July, 2014. The workshop was planned by the C/Ps of EPA-Majuro, MAWC and the JOCVs. KALG supported the activity logistically. EPA C/Ps delivered a good presentation while KALG should show more presence in the awareness activities in the future under their initiative.

DATE: 23 and 24 of July, 2014 17pm - 18:30 pm

ATTENDING: Residents in Ebeye Closely 40persons attended each

CONTENTS: Introduction of 3R efforts in Majuro for Ebeye

- Waste issues in Ebeye
- Presentation by JICA expert
- Introduction of environmental education activities in Mauro by EPA-Majuro
- Introduction of 3R activities in Majuro by MAWC
- Presentation on environmental efforts by JOCV who working in EPA-Majuro



A staff of MAWC delivered a presentation about environmental education for the community. The JOCV volunteers supported him.



Approximately 40 residents attended the workshop

# Indicator 5-6: Teacher training on 4R promotion is conducted for all teachers in Ebeye. \*4R: Refuse, Reduce, Reuse and Recycle

Additional teacher training was not conducted after the previous teacher training conducted under J-PRISM in November, 2014.

#### **Indicator 5-7: Plan for paper fuel is drafted**

This activity was not been implemented due to the absence of the key C/P.

#### a.3. Preparation of the dumpsite improvement

Preparation of the dumpsite improvement works were discussed with C/Ps in Ebeye. Concept of the improvement was agreed in the meeting with C/P who was on medical leave in Majuro.

Schedule: November of 2016

Trainee: C/Ps in Ebeye

Contents: Construction of the cell with semi-aerobic landfill

Instruction of Leachate treatment

Cost Share:

Preparing Pipes and Fuel by JICA, Sand, empty drums, used tires by KALG



However, some issues were observed as shown below.

- ✓ Laying off of some operation staffs due to the limited budget of the KALG
- ✓ Open burning at the dumpsite every day
- ✓ The maintenance problem on the collection vehicle
- ✓ Backup of the key staff during its absence should be considered as institutional management issue

The above mentioned issues were reported to the project office of J-PRISM and JICA headquarter. As the result of the discussion, activity plan in November was considered.

# b. Activity of the Third Dispatch (from 26th of October to 17th of November, 2014)

The on-site workshop/training on rehabilitation of the existing dumpsite in Ebeye was originally planned to be conducted in November 2014. However, considering the current situation and issues of SWM, the JICA Expert decided to modify some contents to include Capacity Assessment and formulation of the Action Plan in the workshop.

The modified objectives of the training are:

- ✓ To appeal the management issues of the SWM to the decision makers of the Local Government so that they can put the issues into a priority;
- ✓ To develop a draft waste collection plan for a new collection service.
- ✓ To train daily operational and maintenance at the dumpsite. It is important to plan before any major improvement activities are conducted.
- ✓ To share good practices such as environmental education activities conducted in Ebeye in collaboration with EPA and C/Ps from Majuro.

The workshop and field training at dumpsite were conducted from 31st of October to 7th of November, 2014 by following the schedule below.

Table 11-6: Activities in Ebeye in the third dispatch

Date		Activities	
30/OCT	THR	12:00 Experts arriving Kwajalein airport	
30/001	INK	15:00 CP meeting for preparation	
		The day 1 of Workshop	
31/OCT	FRI	- Objective	
31/001	FKI	<ul> <li>Exercise for developing operation manual of du</li> </ul>	ımp site
		- Lecture for waste collection and financial issues	s(tipping fee system)
		The day 2 of work shop:	
		<ul> <li>Capacity assessment for individuals and the org</li> </ul>	ganization
3/NOV	MON	<ul> <li>Brine storming and Group work for extracting a</li> </ul>	nd identifying issues and developing
		countermeasures	
		<ul> <li>Presentation on their own actions</li> </ul>	
		The day 3 and 4 of Work shop	
	TUE-	<ul> <li>Waste collection plan</li> </ul>	Fieldwark at the dump site Maving
4/NOV-5/NOV	WED	<ul> <li>Analyze current issues of waste collection and</li> </ul>	Fieldwork at the dump site Moving
	WED	transportation	waste, forming embankment and
		<ul> <li>Drafting a conceptual plan of waste collection</li> </ul>	leveling using heavy equipment
6/NOV	THR	Preparation of presentation	
7/NOV	FRI	Presentation to the Mayor by CPs	Continue field work at dump site
10/NOV/11/NOV/	MON-	<ul> <li>Follow up activities on workshops</li> </ul>	
10/NOV-11/NOV	TUE	<ul> <li>Field work at the dumpsite</li> </ul>	
42/1101/	14/55	<ul> <li>Conclusion, confirm schedule and activities after t</li> </ul>	raining
12/NOV	WED	Haseyama will be leaving for Majuro	

The workshop started with the capacity assessment through identifying the existing issues of the SWM, then based on these issues C/Ps developed an Action Plan through a group discussion, and at the end of the

workshop, the C/P of PW and EPA presented their Action Plans to the Mayor on 7th of November. All members of the council were invited to this presentation, but only a chairman of the council showed up for a few moment. However, C/Ps were able to recognize the importance of informing their issues and proposing countermeasures to the Mayor and the political leaders.



Discussion of Action plan (3/Nov)



Discussion among C/Ps after the presentation (7/Nov)



C/P delivered a presentation to Mayor of KALG.(7/Nov)



Mayor attended the presentation (7/Nov



Group photo

The developed Action Plan for PW and EPA are shown below.

# Table 11-7: The Action plan of PW

			High			20	14			_		- :	2015	5				П
Plan	evelop Solid Waste Management	Score of Capacity Assessment	priority (O)	Activity to Start	Person in charge	11	12	1	2	3	4	5 6	7	8	9	10	11	12
1	Conduct Waste GENERATION & COMPOSITION Survey	2		Conduct Residential waste generation survey	We&Wh													
1 2	Develop Ebeye Waste Management Action Plan	1	0	Develop a SWM Action Plan for Ebeye	J&We&SC													
4	Implement the Action Plan	1		Implementation starts	We													
	Hold a Steering Committee of Waste Management to share the Plan, situation, problemsetc	2		Hold a Steering Committee	EPA&PW&MOH &MOE &NGO & Kajur													
7	% of Secured budget towards requiring/proposed budget	5	0	Prepare the proposal for the budget	We&Mario													
1 8	Appeal the activities/problems/Plan to the leaders/Mayer	5		Share with issues with council /Mayer	J&We													

		Score of	High			20	14	Г				20	15	_	_			٦
2. M	aintain the dumpsite	Capacity Assessment	priority (O)	Activity to Start	Person in charge	11	12	1	2	3 4	5	6	7	8	9	10	11 1	2
1	Develop a Operation plan of the dumpsite	1	0	Draft an operation plan of dumpsite	We&Steering committee													
	Implement the operation at the	1	0	pushing waste is on going	We													
	dumpsite	1		Propose to secure landfill personeel	J&We											П	$\Box$	
	Record the Operation work (time,	1		Draft a form of recording the operation	We				П	Т	Т					Т	$\top$	П
	date, work, name of workeretc)	_		Start recording	Operator													
	% of allocation of heavy machines to			on going (pusing by wheel loader)	Operator						П					П		ı
4	use at the dumpsite	3		Increase the use of the excavator to twice a week	We			Ī										Ī
_	Conduct regular maintenance on	5			operator&mech												П	٦
5	heavy equipment	>		on going	anic													ш
6	Allocate operation team at the dumpsite	1	0	Propose to Mayer and council for more staffs	We													
7	Respond to complains such as fire	2		Announce to Hospital and the public to stop burning	We													
8	Provide Human capacity development/training to the	1		Training with JICA	We													

		Score of	High			2	014	Г	_	_	_	_	2015				
3. P	rovide Waste Collection Service	Capacity Assessment	priority (O)	Activity to Start	Person in charge	11	12	1	2	3	4	5	6 7	8	9 1	10 1	1 12
				Conduct a question naire/visit community, church, schools	We&EPA	Γ				П		Т	Т	П	П	Т	$\Box$
1	Conduct a Questionnaire to the Public and Awarness	1		Cnduct anouncement (post on stores)	We	Г		Г		П		Т	Т	П	$\Box$	Т	$\Box$
				Magaphone annoucement	J	Г	Г	Г		П	П	Т	Т	П	$\Box$	Т	$\Box$
				Draft a collection plan	We&crews					П			Т	П		$\top$	$\Box$
2	Developed a Collection Plan	1	0	Conduct survey								$\perp$	$\perp$		$\Box$	$\perp$	$\square$
				Finalize the Collection Plan						П		$\perp$	$\perp$	$\square$	$\Box$	$\perp$	$\Box$
3	Review the Collection Plan	1		Modify the collection plan	We										Ш	$\perp$	
4	Implement the collection service	1		Implement scheduled collection service	J&We	Γ	Г	Γ								Т	П
5	Frequency to Hold a Meeting with Manager (Director/ Assistant Director) and collection crews	4		on going	We							Ī				Ī	
6	Record the Collection Operation (operation time, area, # of bins collected waste, etc,)	1		Develop a form	We												
7	Acquirement of enough # of collection vehicles	1		on going	Aeto&We	Г	Г		Г	П	П	Т	Τ	П	П	Τ	П
8	Maintenance of the collection vehicles	4		on going	crews&mecha nic												
				Trainnig on a new vehicle	(private co.)	Γ	Г		Г	П	П	Т	Т	П	Т	Т	$\Box$
10	Respond complains from the Public about no collection	5		on going	We&crews												
11	Conduct safety operation training	1		on going	We												
12	Safety gears	2	0	Appeal to Mayer, Aeto, Mario for the safety of crews	We												

#### Table 11-8: The Action plan of EPA

		Score of	Choose			20	)14	Π					201	15					$\neg$
for S	pplement Awareness Program	Capacity Assessment	High prioritis	Activity to Start	Person in charge	11	12	1	2	 3	4	5	6	7	8	9	10	11	12
1	% of secure budget for awareness activities of waste management toward your required/proposed budget	1	0	Request/ask budget	К														
	Develop a Plan and Implement			Development of the Plan	Wh & K														
2	awareness program of waste	3	0	Implement the Plan	Wh														
	management			TOT (date will be checked)	K&Wh				Г										
3	Develop and prepare necessary materials for waste management (such as, a presentation, poster, bookletetc.) for Ebeye	5	0	Modify the materials	K&Wh														
4	Data recording of the awareness activities	5	0	Record the activities	K&Wh&N					I									
5	Understand current waste management situation and	5		Hold a steering committee	Wh														
,	problems enough to explain to the Public	3		Get information fromy PW	K&Wh														

				Choose			20	14						20:	15				
2.	En	vironmental monitoring	Score of Capacity Assessment	High prioritise activity	Activity to Start	Person in charge	11	12	1	2	3	4	5	6	7	8	9 1	0 1	1 12
1	L	Monitor Environmental Impact	5		(on going) Environemntal monitering	All EPA staff													
		related to waste			Share the report with PW														
2	2	Enforcement of Littering law	4	0	Continue the enforcement	All EPA staff													

#### Indicator 5-1: Plan for improvement of waste collection is drafted.

As mentioned earlier, it was a difficult task for PW in Ebeye to provide waste collection service on daily basis was since their compacter truck has got maintenance trouble for about 6 months. Therefore, the PW collected the waste with a wheel roader and a dump truck.

It was informed that the PW had already ordered two new compacter trucks (14 cubic yard), 1,200 pieces of the wheel bins (50 gallons) to be installed at households and 10 big containers (8 cubic yard) to be installed at the premises of businesses, schools and churches. In addition, the KALG passed the ordinance (No.2014-01) in August of 2014 to charge monthly collection fee from each household (\$10) and business (\$30). This new idea came up from one C/P of the PW, but not shared enough yet with other agencies. Therefore, a workshop was held to share the new plan and discuss about the plan among the PW, EPA, Finance office and KAJUR.

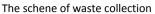


A wheel loader and a dump truck



Waste collection using the wheel loader







Loading the waste to the truck using the wheel loader

(Photo: 1<sup>st</sup> of November, 2014)





Discussion about the new collection system





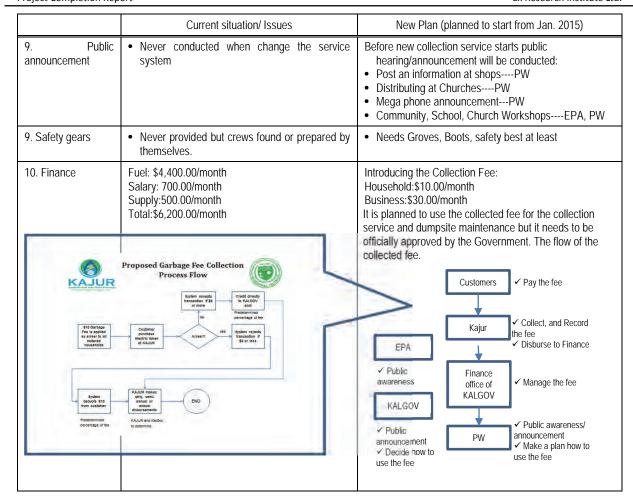
Workshop on the new collection system

As the results of the workshop, an improvement plan of waste collection was drafted.

Table 11-9: The plan of improvement ot waste collection

	rable in e. me plan el imprevem	
	Current situation/ Issues	New Plan (planned to start from Jan. 2015)
Responsibility of Collection and Transportation of the waste	<ul> <li>Residential wasteby PW</li> <li>Commercial wasteby PW</li> <li>Gov. wasteby PW</li> <li>Schoolsby PW</li> <li>Hospitalby MOH</li> </ul>	<ul> <li>Residential wasteby PW</li> <li>Commercial wasteby PW</li> <li>Gov. wasteby PW</li> <li>Schoolsby PW</li> <li>Hospitalby MOH</li> </ul>
2. Collection  Method and  Vehicle	Some area is house to house collection and other area is curbside collection.      Compacterunder repair      Out of order      Trailerunder repair	<ul> <li>House to House collection</li> <li>Compacter &amp;TrailerExpected to have mechanics in Nov-Dec. to be repaired.</li> <li>New Compacter(1 or 2):         MakerFreight liner         TypePacker/ Leach         Capacity14 cubic yard         Year2015</li> </ul>

	Current situation/ Issues	New Plan (planned to start from Jan. 2015)
	Wheel loader & dump truck collection	
3. Storage	540 wheel bins: Capacity50 gallons installed at households/schools/churches	New 1200 wheel bins will be received in Jan. Total 1740 wheel bins (540+1200)—will be installed at households Remaining will be stocks or sold to person who need to replace.
	8 big bins;     Capacity8 cubic yard     Installed at community (blocks)	New10 big bins will be received in Jan. Total 18 big bins (8+10) will be installed at business/school with churches.  Pagin displayed rule will be released.
	No discharge rule has been set.	Basic discharge rule will be planned.
4. Collection Area	Ebeye only	Ebeye+ will be expanded to Loi North and Guegeegue.
5. Collection route	<ul> <li>Date: Mon-Sat</li> <li>Time: 8AM-5PW</li> <li>Route: not really fixed.</li> <li>Collection in the narrow streets: the wheel bins aren't suitable in narrow streets for collection trucks to go, instead, the big bins are installed for the crowded area.</li> </ul>	Wheel bins collection: Area A: Morning on Mon& Wed& Fri Area B: Afternoon on Mon& Wed & Fri  Big bins collection: Tue & Thu Time: 8AM-5PM  Collection in the narrow streets: the people are required to bring their wheel bins to the corner on the main road.
New collection Ro	ute (DRAFT)	AM: MON, WED & FRI MON, WED & FRI
•	Dumpsite	Area:A  Workshop
<ul><li>Location of Big</li></ul>	bins. TUE &THU	Map: Google (Reduction is edited by this writer.
7. Maintenance of the collection vehicle	Crews check the basic items every morning     No Washing after the collection     Periodical maintenanceno	<ul> <li>Daily Maintenance should be continued.</li> <li>Make sure to clean the vehicle after use every day.</li> <li>Needs to be plan a periodical maintenance.</li> </ul>
8. Bulky waste	The Mayor ordered \$25 charge (Customer make a call to PW →PW go collect) However, it is not well followed; the public asked the collection crews to collect their bulky waste during the operation, and the crews collect them without charging.	Needs to instruct crews more and inform to the public.



Indicator 5-2: The burning in the open dumping decreased to 0 in Ebeye

#### Indicator 5-3: The waste is located separately and adequately in dump site

#### Indicator 5-4: Bulky waste collection is separated from the common household waste.

Open burning of the waste at the dumpsite was not observed since the early November after starting the training.



23th of July



31th of October



The scattered waste inside the dumpsite was organized and compacted



The construction of the fence was still continue.



The gate was damaged by the fire.

Open burning was stopped.



Compaction by using the excavator

The scattered waste inside the dumpsite was pushed and compacted in the designed zone with heavy equipment while the waste layer was built during the field works. Operators of the heavy equipment had enough skills to operate the equipment. Therefore, as long as the heavy equipment is available at the dumpsite, the improvement of the dumpsite can be completed. It is expected that the full-scale of the improvement will be able to be conducted after the new waste collection truck arrive in January 2015, because the heavy equipment was used on the waste collection every day.

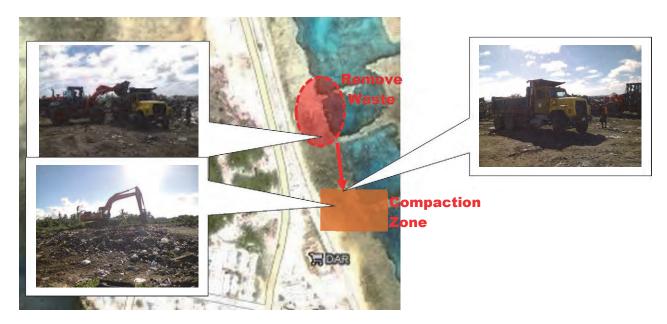


Figure 11-2: Improvement plan at the dump site (Revised in October 2014)



Before improvement(4/Nov)



Transporting the waste by the dump truck and compaction by the excavator



End of the day 2 of field work (5/Nov)



Compaction of the waste by the excavator



Improved approach road



Scattered waste was loaded to the dump truck by the wheel loader



End of the day 1 of field work (4/Nov)



End of the day 3 of field work (6/Nov)



Constructing the approach road with coral sand (11/Nov)



After the approach road was improved, vehicles can go to the new dumping zone.



After improvement (11/Nov)

Some waste was relocated and open burning zone was cleaned up which could stop the open burning.



After improvement (11/Nov)
The waste cell I was made and approach Road were improved.
New coming waste will be dumped at the waste cell

Although there were some small machinery problems on the heavy equipment, the operators and other staff repaired on site immediately. The maintenance on the equipment donated by Japan or other donor countries is necessary to be planned to secure procurement spare parts and capacity development of mechanics to prevent the problems.





Repairing equipment at the dump site

The C/P drafted the Operation Manual of the dumpsite including organizational arrangement, procurement of equipment, gate inspection, operation plan and monitoring/reporting of the operation. This manual will be updated according to the daily operation at the dump site.

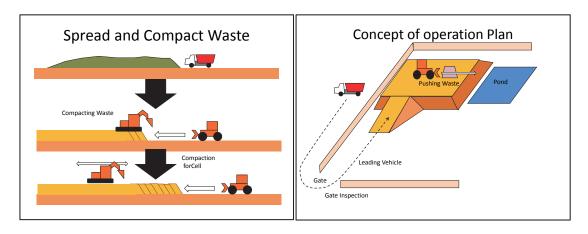


Figure 11-3: 2 slides from the drafted Operation manual

The plan of the medical incinerator was identified. The incinerator "Mediburn" was packaged in a wood box and stored at the hospital yard for few years. The construction work for installing the incinerator was started. The incinerator will be managed by MOH and operation will be contracted out to PW of KALG.







Construction work for the medical incinerator was started.

# c. Activity of the Fourth Dispatch (from 15th of January to 6th of February, 2015)

#### Indicator 5-1: Plan for improvement of waste collection is drafted.

Although the plan on improvement of waste collection was drafted in the workshop in November, 2014, the new waste collection vehicle was not provided yet. Currently waste collection was provided using a wheel loader and a dump truck. In spite of such bad conditions on the equipment, roadside and town was kept clean with the provision of waste collection service has been provided on schedule.

# Indicator 5-2: The burning in the open dumping decreased to 0 in Ebeye, Indicator 5-3: The waste is located separately and adequately in dump site

#### Indicator 5-4: Bulky waste collection is separated from the common household waste.

Improvement of the dumpsite was conducted under the ownership of KALG step by step. Scattering waste and incidental burning of waste in the site was eliminated after the workshop in November, 2015. Segregation of bulky waste was also implemented after the workshop in November, 2015.





Indicator 5-5: Education on 4R promotion is conducted for all school classrooms

#### Indicator 5-6: Teacher training on 4R promotion is conducted for all teachers in Ebeye.

A C/P and a JOCV of EPA-Mauro visited Ebeye and conducted the school activities and community workshops in January, 2015. They also attended the JCC meeting through TV conference from Ebeye and reported the results of their activities. These efforts provided positive effects on collaborative works between Majuro and Ebeye in accordance with the agreed framework. This result was reported to JICA by C/P.

The JICA Experts supported to create the posters to raise awareness on "Pack – Tied – into Bins" in Ebeye. C/Ps in Ebeye posted them along the street in Ebeye.





Posters on the awareness-raising "Pack – Tied – into Bins"





Posting the posters by counterparts

#### Indicator 5-7: Plan for paper fuel is drafted

This activity was postponed by the time the new waste collection and the completion of the rehabilitation of the dumpsite were completed in consideration of their higher priority. This activity is expected to be started in 2015.

# d. Activity of the Fifth Dispatch (from 21st to 27th of May, 2015)

#### Indicator5-1: Plan for improvement of waste collection is drafted

Both the new waste collection vehicles and waste bins were not provided in Ebeye. The waste collection service was provided by PW continuously with using a wheel loader and a dump truck. With the limited availability of collection vehicles, waste was properly collected and kept clean at street side.

Since KALG was still waiting for provision of the collection vehicles and bins, the public announcement of new collection system was not made yet.





Waste collection method using a wheel loader and a dump truck

#### Indicator 5-2: The burning in the open dumping decreased to 0 in Ebeye

#### Indicator 5-3: The waste is located separately and adequately in dump site

#### Indicator 5-4: Bulky waste collection is separated from the common household waste

Proper operation at the dumpsite was conducted continuously after the workshop in November, 2014.

Incidental burning on the site was eliminated. Segregation of bulky waste was also conducted at the dumpsite.



The dumping zone at the dumpsite



Segregation of the scrap metal



Incomplete fence

Indicator5-5: Education on 4R promotion is conducted for all school classrooms

#### Indicator 5-6: Teacher training on 4R promotion is conducted for all teachers in Ebeye.

According to the discussions with EPA-Ebeye, both public awareness-raising activities and school visits were conducted monthly and continuously.

As the result of discussions involving KALG, EPA and MOE, the teacher training on environmental activities was decided to be planned in September of 2015. EPA-Majuro will also support this activity. The teacher training will be scheduled during the dispatch of JICA Expert in September, 2015.

The posters which KALG posted during the activities with the support of Mr. Faafetai, the Assistant Chief Advisor of J-PRISM, were damaged by mischief of the children. It indicated the difficulty of keeping this kind of some awareness materials on the roadside or other public areas. Therefore, EPA-Ebeye considered the alternative way such as posting them inside of house or selecting proper places such as schools, churches or other public spaces. Although the posters were damaged, the contents of poster were useful and effective for awareness-raising activities.







Posting the sighs(Feb, 2015)

Damaged posters (May, 2015)

#### Indicator 5-7: Plan for paper fuel is drafted

This activities was postponed by the time of initiating the new waste collection system and the completion of the rehabilitation of the dumpsite. This activity is expected to start in 2015.

# e. Activity of the Sixth Dispatch (from 4th to 11th of September, 2015)

#### Indicator5-1: Plan for improvement of waste collection is drafted

The two new compactor trucks (14 cubic yard), 1,200 pieces of the wheel bins (50 gallons) and 10 big containers (8 cubic yard) ordered by KALG were provided to Ebeye. Furthermore, the KALG passed the ordinance (No.2014-01) in Aug. 2014 to charge monthly collection fee from each household (\$10) and business (\$30).

Lifting units to dump the bins were installed on the waste collection vehicles while distribution of the waste bins to the residents was under preparation.





The new compactor trucks

Indicator 5-2: The burning in the open dumping decreased to 0 in Ebeye

#### Indicator 5-3: The waste is located separately and adequately in dump site

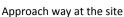
#### Indicator 5-4: Bulky waste collection is separated from the common household waste.

Activities related to the indicator 5-2, 5-3 and 5-4 were implemented at the dumpsite. Fundamental management practice introduced in the workshop in November, 2014 was implemented properly and continuously. Burning at the dumpsite was not observed while small volume of the ash after small scale of fire was still observed. It is recommended the KALG to should completely ban burning of the waste at the

site. Compaction of the waste was not perfectly conducted because the fuel was not secured enough under poor budget condition at the end of fiscal year. C/P said that compaction would be restarted with the new fiscal year budget. Segregation of the waste at the dumpsite was conducted continuously.









Fence (the remaining section hasn't been completed by local Gov.)



The house for the medical incinerator is under construction

#### Indicator 5-5: Education on 4R promotion is conducted for all school classrooms

#### Indicator 5-6: Teacher training on 4R10 promotion is conducted for all teachers in Ebeye.

The teacher training on the CSP was conducted in September, 2015. A C/P specialized in environmental education was invited from Fuji as a trainer. Fundamentals of the CSP were lectured and introduced to the school teachers in Ebeye. Then, the participated teachers drafted their Action Plan to be implemented at their schools while the action plans would be monitored by EPA for 6 months. The first monitoring was planned in November, 2015. These activities were supported by the project coordinator of J-PRISM.





The workshop on the CSP (photo provided by C/P)

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<sup>&</sup>lt;sup>10</sup> \*4R: Refuse, Reduce, Reuse and Recycle

#### **Indicator 5-7: Plan for paper fuel is drafted**

The draft of the plan on paper fuel was postponed by the time of initiating new waste collection. School activities to produce the paper fuel was started in several schools. As a preparation of the school activity, KALG started collecting cardboards for school activities for producing the paper fuel.

# f. Activity of the Seventh Dispatch (from 4<sup>th</sup> to 16<sup>th</sup> of November, 2015)

KALG and EPA-Ebeye attended the 5<sup>th</sup> JCC meeting in Majuro through TV conference system and the result of the activities in Ebeye in 2015 were reported by C/Ps in Ebeye. One good points of the TV conference was to share good practices and issues among stakeholders.

#### Indicator 5-1: Plan for improvement of waste collection is drafted

The new waste collection service with the new compactor trucks and the new bins was started in October, 2015. The waste collection was conducted in accordance with the plan which was drafted in the workshop in November, 2015.

Before the new system, temporary collection system with a dump truck and a wheel loader was conducted alternatively instead of the compactor truck. The waste collection in Ebeye was improved after the introduction of new compacter trucks.

The waste collection was still under preparation.





The new waste collection in Ebeye



The scene of the waste collection



Operation schedule is posted at the cockpit of collection vehicle

Figure 11-4: The waste collection plan drafted in November, 2015

A Time and Motion Study on waste collection was conducted to assess the new waste collection system. The survey team (KALG and JICA Expert) followed the compactor truck and observed the collection work for a day. The results showed that two round trips operation cover all Ebeye island. Tonnage collected by one crew per hour (based on Working time) is 0.37 - 0.43 t/crew/hour.

Table 11-10: The results of the time and motion study

Ebeye	Collection tonnage	# of crews	Working time	Daily tonnage collected per crew	Tonnage collected by one crew per hour (Based on Working time)	Tonnage collected by one crew per hour(Based on Net collection time)	Working time per tonnage
	t	persons	min	t/crew/trip	t/crew/hour	t/crew/hour	hour/t
1st round trip	6.0	3	325	2.00	0.37	0.38	1.11
2nd round trip	4.0	3	186	1.33	0.43	0.45	1.29

Ebeye	From Base to collection point	Net collection time	Transport to Landfill	Dump at Landfill	Working time	# of collection points	# of the bin
			min				
1st round trip	2	316	2	5	325	51	334
2nd round trip	7	179			186	27	225

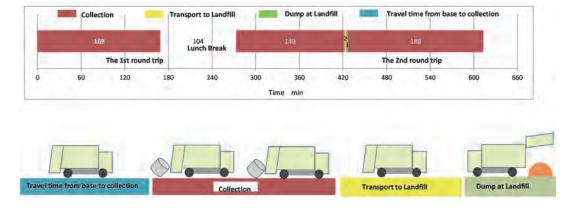




Figure 11-5: The results of the time and motion study (Map of collection points)

Indicator 5-2: The burning in the open dumping decreased to 0 in Ebeye

Indicator 5-3: The waste is located separately and adequately in dump site

#### Indicator 5-4: Bulky waste collection is separated from the common household waste

It was observed that fundamental management practice was conducted at the dumpsite. The compaction of waste was not perfectly conducted because an excavator and a wheel-loader were under repair for a week. On the other hand, proper maintenance and repair of the equipment were observed at the workshop in KALG. The wheel-loader operation was resumed on 10th of November during the expert's dispatch. It was observed that the operators and mechanics of the equipment were highly motivated. Burning waste at the dumpsite was not observed.

Segregation waste at the dumpsite was conducted continuously since November, 2014; but no recycling company or recyclables trader is available in Ebeye. Segregated recyclable materials were stored at the site, waiting for the recyclers or buyers to purchase.



The view of the site



Maintenance of the equipment (Touch-up painting)



Wheel loader

## Indicator5-5: Education on 4R promotion is conducted for all school classrooms

#### Indicator 5-6: Teacher training on 4R promotion is conducted for all teachers in Ebeye.

The results of CSP in Ebeye were monitored in November, 2015. The C/P of EPA-Ebeye monitored the activities on CSP at each participated school in Ebeye. The project coordinator of J-PRISM supported these monitoring. Also a C/P of EPA-Majuro attended the monitoring. There are drastic changes in the schools in waste handling, such as segregation at the classroom, elimination of littering and production of handy crafts with reused paper/cardboards. The monitoring results were reported in the 5<sup>th</sup> JCC meeting. It was observed that the CSP was successfully introduced in Ebeye. In future, CSP will be continued and expanded to other schools.



Handmade bag (photo provided by C/P)



Clean up activities (Photo provided by C/P)



Segregation trash box (Photo provided by C/P)

# **Indicator 5-7: Plan for paper fuel is drafted**

The plan for paper fuel was drafted in November, 2015. The final draft will be completed by December, 2015. The emission test of the paper fuel was conducted by SPREP, the test results will be reported in January of 2016. The activity to collect cardboards to produce the paper fuel was temporally suspended in November, and the activity would be resumed after completion of the plan.

#### 11.2.6 Other activities related to SWM

This section reported the activities related to SWM but not included in the PO of the J-PRISM including JCC and Capacity Assessment.

### a. Activity of the Fourth Dispatch (from 15th of Januarry to 6th of February, 2014)

The 4<sup>th</sup> JCC meeting was held on 30th of February. C/Ps in Majuro and Ebeye, the members of the project office base in Samoa, the staffs from JICA headquarter attended through TV conference system. C/Ps reported the activity results and issues were discussed in the meeting.



JCC meeting

KALG and EPA-Ebeye attended the 4<sup>th</sup> JCC meeting in Majuro through TV conference system and the result of activities in Ebeye in 2014 were reported by C/Ps in Ebeye. One of good point of the TV conference is effective to share good practices and issues among stakeholders. WACS was conducted in Ebeye. JICA Expert and Mr.Faafetai the Assistant Chief Advisor of J-PRISM supported this survey technically. As the result of the survey, the waste generation ratio was 0.12 kg/capita/day and composition of waste is shown in the table below.



The interview survey to residents



Scaling the samples



Sampling from residents



Measuring the density of samples



The segregation survey



The sample waste after categorization

Table 11-11: The summary of the Waste Composition in Ebeye

	CATEGORY	PERCENTAGE OF WEIGHT
1	Organic waste	29.1
2	Plastics	21.1
3	Metals	11.7
4	Papers	12.3
5	Glasses	6.1
6	Textiles	5.2
7	Disposal Nappies	11.5
8	Styrofoam	1.6
9	Others	1.2

In future, introduction of recycling program, calculation of daily round trips on collection services, estimation of the capacity of collection vehicles, estimation of waste generation (Daily, Monthly, Annually...) and so on will be considered in accordance with this data by C/Ps in Ebeye.

#### b. Activity of the Seventh Dispatch (from 4th to 16th of November, 2015)

#### b.1. Occupational Safety and Healthcare (OSH)

OSH was conducted in Ebeye on 11<sup>th</sup> of November, 2015. A C/P specialized in OSH was invited to Ebeye as a trainer. In house lecture and field works on waste collection and dumpsite operation were conducted. The Staffs of PW attended the program as trainees and learnt about the OSH. The project coordinator of J-PRISM supported this activity.



Lecture



Fieldwork on waste collection

#### b.2. JCC

The 5<sup>th</sup> JCC meeting was held at the conference room of Marshall Islands College on 13<sup>th</sup> of November, 2015. The summaries of the meeting are as bellow;

The results of the Final Evaluation Survey were explained. Almost all the activities were fully or mostly achieved; however, weak points and recommendations were identified and recognized among C/Ps. Each C/P will address issues in the remaining period.

- ✓ The Project Director, Secretary of MPW, and The Project Manager, General Manager (GM) of MAWC, have responsibility to monitor the progress of the Action Plans.
- ✓ After the termination of J-PRISM, the Action Plans will be implemented continuously by RMI.

  The steering committee of the PacWaste Project will share information on SWM and monitor the progress of the Action Plans.
- ✓ The plan to achieve the overall goal in next three years were explained. Good practices, such as pre-paid bag, CDL, upgrading the facilities at the dumpsite, paper fuel, the new waste collection fee system in Ebeye, the Clean School Program and OHS activities are planned to be implemented by 2018, the target year. The regional workshop sponsored by RMI will be planned for the target year of 2018.





JCC meeting

#### **b.3. Capacity Assessment**

Capacity Assessment was conducted through interviews with C/Ps. Some points of the assessment are;

- ✓ In Majuro, waste collection and dumpsite management were improved under cooperation of JICA volunteers.
- ✓ In Ebeye, New waste collection system was started under cooperation by J-PRISM.
- ✓ In Ebeye, proper management was introduced in the existing dumpsite.
- ✓ Clean School Program was introduced in Ebeye.
- ✓ Workshops on the Occupational Safety & Healthcare were conducted in RMI.

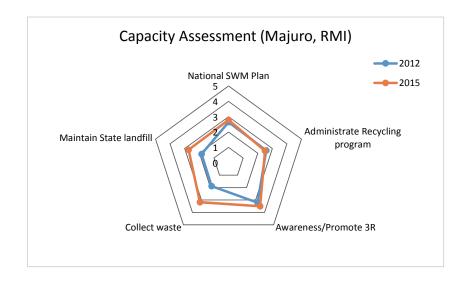


Figure 11-6: Chart of the capacity assessment in Majuro

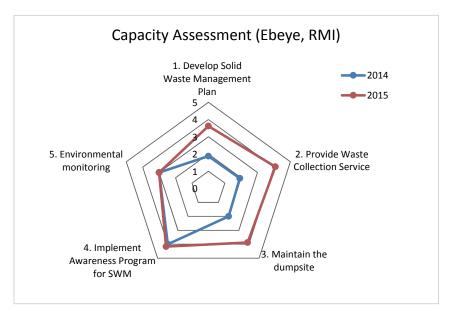
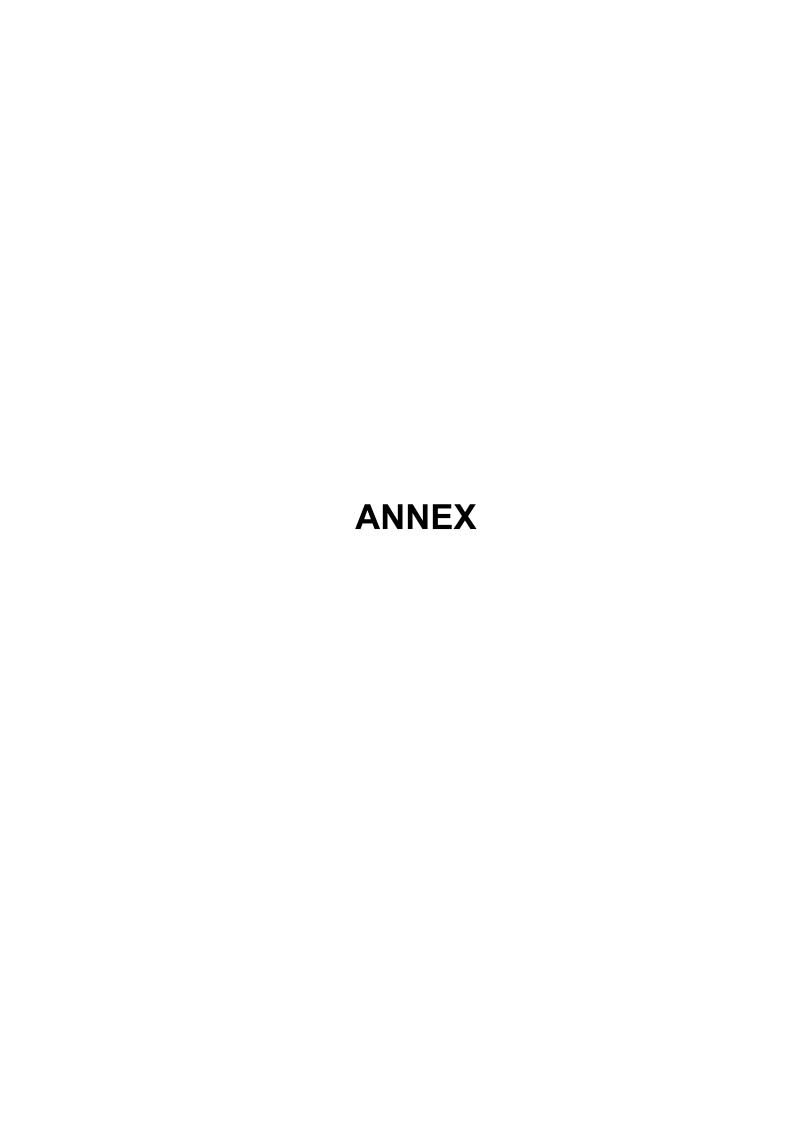


Figure 11-7: Chart of the capacity assessment in Ebeye



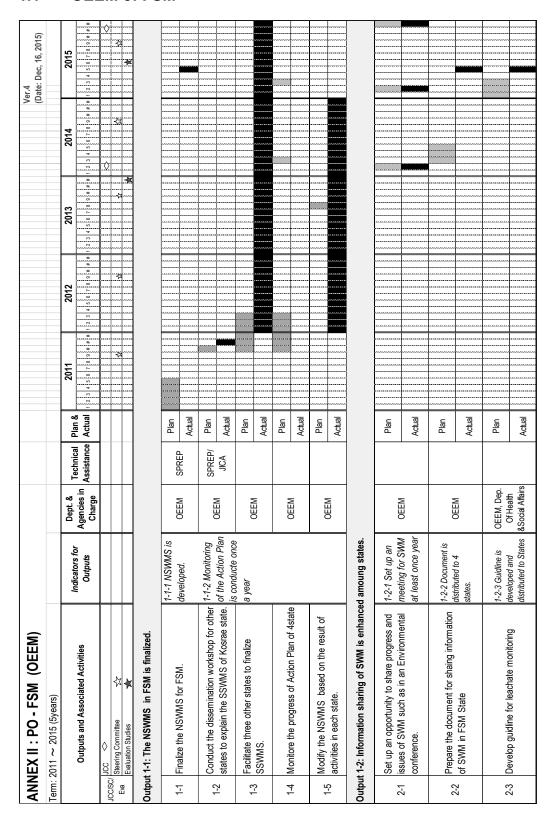
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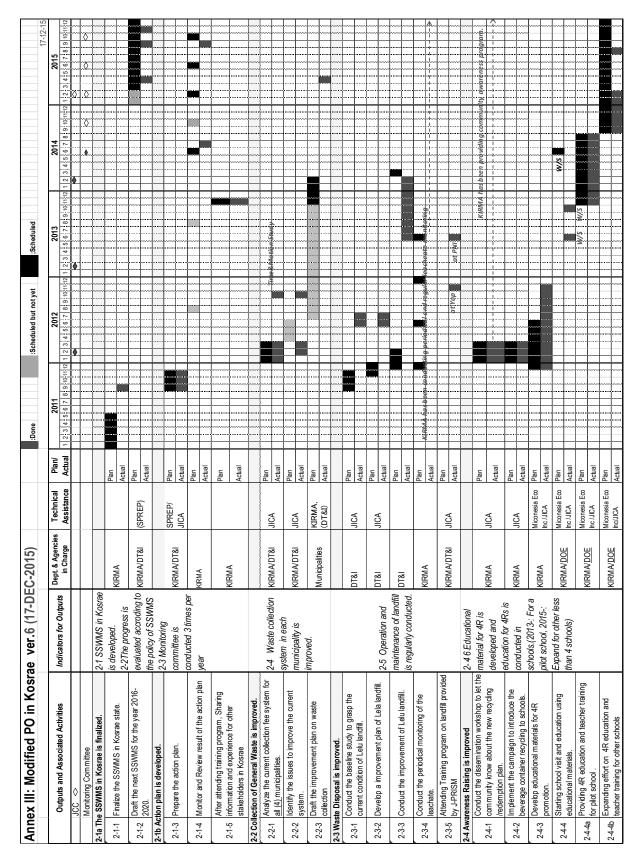
# 1 Schedule of the Activities (Plan of Operation)

The Plan of Operations (POs) of each country and State are shown below, which were finalized and confirmed as the final PO in the final JCC held from November through December 2015.

#### 1.1 OEEM of FSM

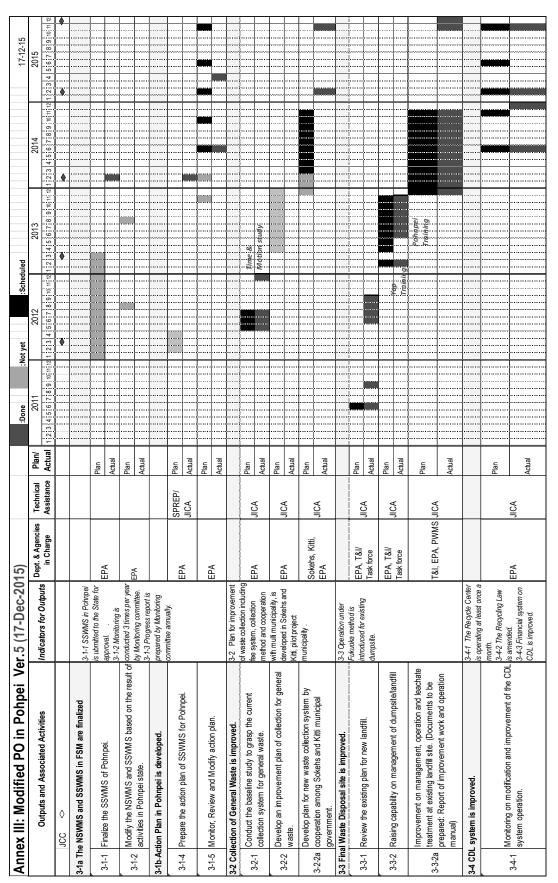


#### 1.2 Kosrae State of FSM



#### 1.3 Pohnpei State of FSM

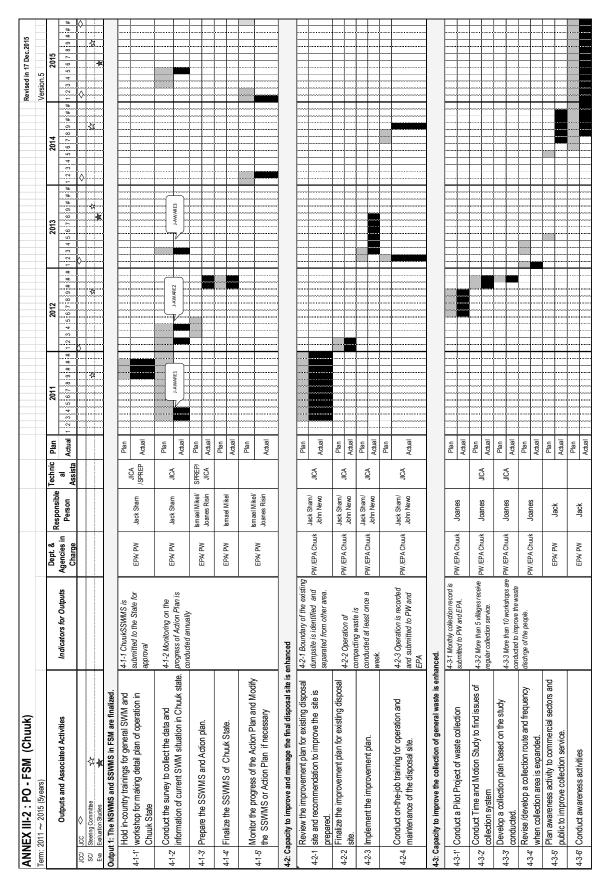
J-PRISM



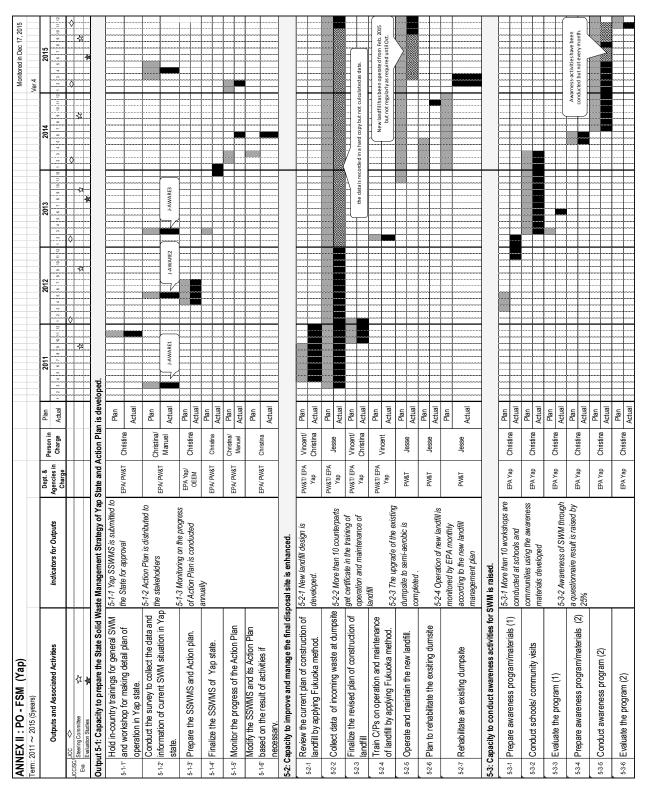
ANNEX

JICA

#### Chuuk State of FSM 1.4



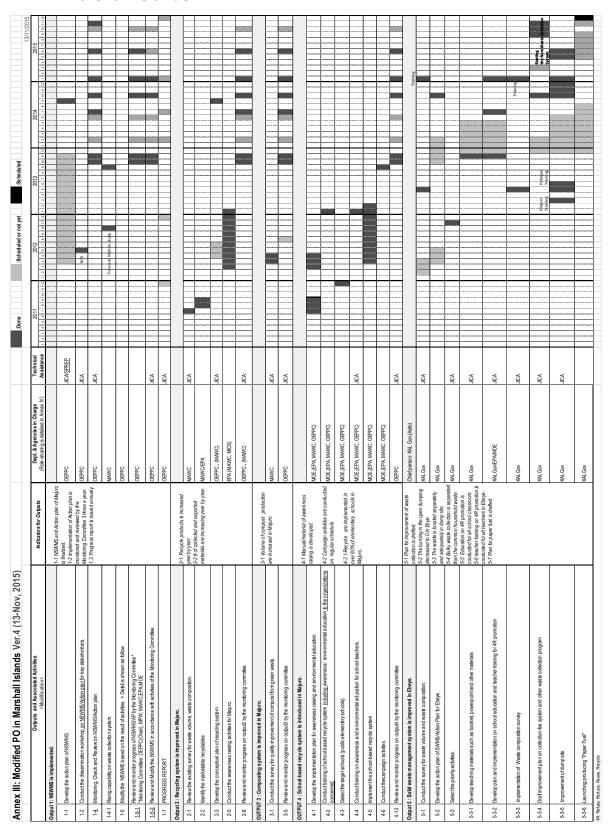
### 1.5 Yap State of FSM



#### 1.6 Palau

A	VEX II: PO - Palau											Monitor	Monitored in December 2015	ber 2015
Term:	Term: 2011 ~ 2015 (5years)												Ver.5	
	Outputs and Associated Activities	Indicators for Outputs	Person in-Pic charge Act	Plan Actual	2 3 4 5 6 7 8 9 10 11 12	1 2 3 4	<b>2012</b> 5 6 7 8 9 10 11 12	1 2 3 4 5	2013	12 1 2 3 4 5 6	4 8	9 10 11 12 1 2 3	2015	10 11 12
	◇ 201							<b>⋄</b>						
C/Eva	Steering				₹		₹≭		☆		≵		₹	
	Evaluation Studies								<b>∤</b> k				<b>-</b>  X	
OUT	OUTPUT 1: Capacity to manage the beverage container deposit fee program (sustainable financing system) is enhanced.	r deposit fee program (sustainable financir	ng system) is e	enhanc	ed.									
		1-1:	ď	Plan										
5	Implement the beverage container deposit fee program	(revised) Swy with regulary mornior redemption rate	Calvin	Actual										
		(Revised) SWM-BPW can regularly monitor the amount of shipped-off beverage	ä	Plan										
4.	Conduct regular meeting and revise the program if necessary.	containers	Calvin	Actual										
OUT!	OUTPUT 2: National Solid Waste Management Plan is finalized and Action Plan is revised.	finalized and Action Plan is revised.		1										
12-1	Pacilitate the approval of the NSWMP (and obtain the approval)	2-1: NSWMP is finalized.	Calvin Act	Plan										
12-2	Revise the Action Plan of NSWMP if necessary	Government of Palau and Action Plan is revised.	Calvin	Plan										
S I	UTPUT 3: Capacity to conduct Awareness raising on 3F	I 3R (targeting MPIIC and Eathday) is enhanced.												
	Prepare the action plan of awareness raising /	3-1: Materials are deliverd to 50% of schools	-	Plan										
3-1	environmental education on 3R and finalize it		Mengkur Act	Actual										
3-2	Implement the Action Plan.	3-2: # of school presentations/ visits & conducted workshops	Mengkur Act	Plan Actual										
, 5	Develop and revise the tools/materials on 3R		Menakur	Plan										
	reflecting the lessons learned.		$\dashv$	Actual										
OUT	OUTPUT 4: Capacity to manage the final landfill site is enhanced.	enhanced.												
1-4	Develop the plan of new dike for M-dock	4-1: A period of operation for M-Dock is extended for 3 years.	Calvin	Plan										
		H	Act	Actual										
4-2	Construct the new dike for M-dock landfill	4-2: The existing closure plan for M-dock landfill is revised.	Calvin	Actual										
4.3	Conduct a survey to estimate the remaining	4-3: Conceptional Plan of the waste disposal	Pk	Plan										
3	capacity of M-Dock landfill	is developed.	Н	Actual										
4	Prepare a plan for safe closure of M-dock landfill		Calvin Act	Plan										
4-5	Select the site of a new national landfill		Calvin Ple	Plan										
,	$\neg$		+	Plan										
4-b	Prepare EIA for the new national landfill.		Calvin	Actual										
4-7			Calvin	Plan										
Ē	disposal.		Act	Actual										
8	OutPuts: Training program on 3R / Swim is developed.	d. 5-1 Training manual / materials is developed	à											
5-1	program to be used at the regional	) 1	John	ē ]										
		5-2: # of training conducted and # of participants	Act	Actual										
5-2	Conduct the training for Micronesian area training workshop (This includes in-country		- Ph	Plan										
<b>,</b>	training overland in other countries)			Actual										
5-3	Evaluate the training / revise the training		John	Plan										
				Actual										

#### 1.7 Marshall Islands



#### **Records of modifications of PDM** 2

Historical modifications of PDM are shown below. The original PDM (Version 0) and the last revised PDM are attached below. PDM of FSM consists of PDM of OEEM and four States.

#### 2.1 **FSM**

#### a. Beginning of the Project

Project Title: Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries (J-PRISM)

Target Group: C/Ps of OEEM, KIRMA & DT&I (Kosrae), EPA & T&I (Pohnpei), EPA &PW (Chuuk), EPA & PW&I(Yap) Final Beneficiaries: Citizens of F Project period: 5 years

Imple	ementing Agency: OEEM, KIRMA & DT&I (Kosrae), EPA & T&I (Pohnpei), EPA &PW			Chuuk), EPA & PW&I (Yap)	Target Area: FSM	
		Narrati	ve Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Sust	ainable management of so		erall Goal the Pacific Region is enhanced.		To be advised	
Paci	nand institutional capacii fic Region is strengthened agement Strategy (2010-20	y base for s	ct Purpose sustainable Solid Waste Management in the elementation of the Pacific Regional Solid Waste 10)	# of experts (Trainers) in the field of collection of recyclables listed in the SPREP inventory     Collection rate of general waste and recyclables is increased.	SPREP (inventory of skilled people)  OEEM/ State Government  OEEM/ State Government	Natural disaster would not drastically affect the collaboration among PICs and SPREP.     Political changes of PICs would not drastically affect the collaboration among PICs and SPREP.
#	Priorities under RS2010	State	Outputs / Sub-outputs			
1	Sustainable Financing					
2-1	3Rs/4Rs	Kosrae	2-2 Improvement of Collection of General Wastes and Recyclables	For the indicators for each Output, please see		
2-2 Waste Disposal Pohnpei 2-3 Improvement of Waste Disposal Pohnpei Chuuk 4-2 Improvement of Waste Disposal 4-2 Improvement of Waste Disposal 5-2 Improvement of Waste Disposal		ANNEX III-2 Plan of Operation.				
2-3	Waste Collection	Pohnpei	3-2 Improvement of Collection of General Waste			
3	Legislation					
4	Awareness/Communication /Education	Kosrae Yap	2-4 Strengthening of Awareness Raising 5-3 Strengthening of Awareness Raising			
5	Capacity Building					
6	Environmental Monitoring					
7	Policy, Planning, Performance	All Kosrae Pohnpei Chuuk Yap	The NSWM and SSWMS in FSM are finalized.     Development of the action plan of SSWMS for Kosrae     The second of the action plan of SSWMS for Pohnpei     Development of the action plan of SSWMS for Chuuk     Thus the second plan of SSWMS for Chuuk     Thus the second plan of SSWMS for Chuuk     Thus the second plan of SSWMS for Chuuk			
8	Solid Waste Industry					
*	Monitoring system of RS2010					
		A	ctivities	Inputs		
			Please see PO for details.	Japanese Side	FSM side	Counterpart personnel keep
				Dispatch of JICA experts	Assignment of National PD/PM, State PM and CPs	working in the field of SWM.
				Provision of Regional, sub-regional and in-country workshops / training Local cost support	Local Costs Sharing Provision of necessary land/facility, Work space	Necessary budget to carry out activities is allocated from the government.
						Pre-condition
						Cooperation of community people of the target area is obtained.

#### b. End of the Project

		Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
Quetain =	olo manago	Overall Goal			
sustainal	oie managemi	ant of solid waste in the Pacific Region is enhanced.	1.Good practices developed from one state of FSM are implemented in other states and/or other island countries tackling with common issues  1. At least more than 2 trainings/workshops in the region which is conducted by facilitators/trainers from FSM	Report of facilitators on activities     Records of training/workshop organized by counterparts	
		Project Purpose			Natural disaster would not drastically affect the
the Pacifi	c Region is str	capacity base for sustainable Solid Wash Management in engthened through implementation of the Pacific Regional ent Strategy (2010-2015) (RS2010)	1. Four (4) experts in the field of integrated solid waste management are listed in the SPREP inventory. 2. Improvement of State landfill in each state. 3. Good practice developed from one state is shared with all the states of FSM.	SPREP (inventory of skilled people) OEEM/ State Government OEEM/ State Government Document from OEEM	collaboration among PICs and SPREP.  2. Political changes of PICs would not drastically affect the collaboration among PICs and SPREP
#	State	Outputs / Sub-outputs			
1-1	OEEM	The NSWMS in FSM is finalized.	1-1-1 NSWMS is developed. 1-1-2 Monitoring of the Action Plan is conducte once a year	NSWMS Monitoring sheet	
1-2	OLL.	Information sharing of SWM is enhanced amoung states.	1-2-1 Set up an meeting for SWM at least once year. 1-2-2 Document is distributed to 4 states.	Record/ Report of meeting Docment from OEEM	
2-1a		The SSWMS in Kosrae is finalized	2-1-1 SSWMS in Kosrae is submitted to the State for approval. 2-1-2The progress is evaluated accroding to the policy of SSWMS 2-1-3 Monitoring is conducted 3 times per year by Monitoring	SSWMS, its Monitoring sheet and progress report	
2-1b	2-1b Action plan is developed.		committee 2-1-4 Progress report is prepared by Monitoring committee annually.	Action plan,their Monitoring sheet and progress report	
2-2	Kosrae	Collection of General Waste-is improved.	2-2 Improvement plan on Waste collection system in each	Improvement Plan for waste collection and	]
2-3		Waste Disposal is improved.	municipality is drafted.  2-3 Operation and maintenance of landfill is regularly conducted.	its monitoring sheet  Monitoring record, operation record, log	
2-3		Awareness Raising is improved	2-4 Educational material for 4R is developed and education for 4Rs is is conducted in schools. (2013-: For a pilot school, 2015-:	book using at landfill site  Booklet, materials, Report of education activities	
3-1a	The SSWMS in Pohnnai is finalized		Expand for other less than 3 schools) 3-1-1 SSWMS in Pohnpei is submitted to the State for approval. 3-1-2 Monitoring is conducted 3 times per year by Monitoring	SSWMS, its Monitoring sheet and progress report	
3-1b		Action plan is developed.	committee. 3-1-3 Progress report is prepared by Monitoring committee annually.	Action plan,their Monitoring sheet and progress report	
3-2	Pohnpei	Collection of General Waste is improved.	3-2 Plan for improvement of waste collection including fee system, collection method and cooperation with multi municipality, is developed in Sokehs and Kritt, pilot project municipality.	Plan for waste collection in Sokehs and Kitti municipalities. * Sokes and Kitti are pilot projected municipality on waste collection	
3-3		Final Waste Disposal site is improved.	3-3 Operation under Fukuoka method is introduced for existing dumpsite.	Plan for improvement of existing dumpsite drafted by EPA, T&I, PVMS Counterpart's report on dumpsite Log book on operation of dumpsite	
3-4		CDL system is improved. *CDL: Container Deposit Legislation	3-4-1The Recycle Center is operating at least once a month. 3-4-2 The Recycling Law is amended. 3-4-3 Financial system on CDL is improved.	Plan for improvement on CDL system Amended "Recycling Law"	
4-1		Capacity to prepare the State Solid Waste Management Strategy of Chuuk and Action plan is developed.	4-1-1 ChuukSSWMS is submitted to the State for approval     4-1-2 Monitoring on the progress of Action Plan is conducted     annually	SSWMS, Action plan Monitoring sheet	
4-2	Chuuk	Capacity to improve and manage the final disposal site is enhanced	4-2-1 Boundary of the existing dumpsite is identified and separated from other area. 4-2-2 Operation of compacting waste is conducted at least once a week. 4-2-3 Operation is recorded and submitted to PW and EPA.	Installed dyke or fence to show the boundary Operation record	
4-3		Capacity to improve the collection of general waste is enhanced.	4-3-1 Monthly collection record is submitted to PW and EPA. 4-3-2 More than 5 Ulages receive regular collection service. 4-3-3 More than 10 workshops are conducted to improve the waste dischipe of the people.	Collection Record # of village receive collection service	
5-1		Capacity to prepare the State Solid Waste Management Strategy of Yap State and Action Plan is developed.	5-1-1 Yap SSVMS is submitted to the State for approval 5-1-2 Action Plan is distributed to the stakeholders 5-1-3 Monitoring on the progress of Action Plan is conducted annually	SSWMS, Action plan Monitoring sheet	
5-2	Yap	Capacity to improve and manage the final disposal site is enhanced.	5-21 New landfill design is developed. 5-22 More than 10 counterparts get certificate in the training of operation and maintenance of landfill 5-2-3 The upgrade of the existing dumpsite to semi-aerobic is completed. 5-2-4 Operation of new landfill is monitored by EPA monthly according to the new landfill management plan	Design of new landfill Completion of construction of a new landfill Rehabilitation of the existing landfill Operation record	
5-3		Capacity to conduct awareness activities for SWM is raised.	5-3-1 More than 10 workshops are conducted at schools and communities using the awareness materials developed 5-3-2 Awareness of SWM through a questionnaire result is raised by 25%	Evaluation survey	
Activities			Inputs		
		Please see PO for details.	Japanese Side Dispatch of JICA experts Provision of Regional, sub-regional and in-country workshops /	FSM side Assignment of National PD/PM, State PM and CPs Local Costs Sharing	Counterpart personnel keep working in the field of SWM.      Necessary budget to carry out activities is allocated.
			training Local cost support	Provision of necessary land/facility, Work space	2. Necessary budget to carry out activities is allocated from the government.  Pre-condition
					Cooperation of community people of the target area is obtained.

#### c. Historical modifications

#### c.1.OEEM

Version No.	The endorsed date	Details of Modifications	
Original (0)	Jan.2012	Beginning of the Project	
1	March. 2014	The activities 1-1 "The NSWMS and SSWMS in FSM are finalized" was modified to "The NSWMS in FSM is finalized." The roles of the National and State governments were separated and clearly identified.  Add new activities "1-2 Information sharing of SWM is enhanced among states."  Add indicators;1-1-2 Monitoring of the Action Plan is conducted once a year"  1-2-1 Set up a meeting for SWM at least once year.  1-2-2 Document is distributed to 4 states.  1-2-3 Guidelines are developed and distributed to States	

#### c.2. Kosrae State

Version No.	The endorsed date	Details of Modifications	
Original (0)	Jan.2012	Beginning of the Project	
		Modified the activities:	
2- 2- 2-		2-1a The SSWMS in Kosrae is finalized	
		2-1b Action plan is developed.	
		2-2 Collection of General Waste is improved.	
		2-3 Waste Disposal is improved.	
		2-4 Awareness Raising is improved	
		Add new indicators: (Type E)	
1	Feb. 2014	2-1-1 SSWMS in Kosrae is submitted to the State for approval.	
		2-1-2 The progress is evaluated according to the policy of SSWMS	
		2-1-3 Monitoring is conducted 3 times per year by Monitoring committee.	
		2-1-4 Progress report is prepared by Monitoring committee annually.	
		2-2 Improvement plan on Waste collection system in each municipality is drafted.	
		2-3 Operation and maintenance of landfill is regularly conducted.	
		2-4 Educational material for 4R is developed and education for 4Rs is started in schools.	
		(2013-: For a pilot school, 2015-: Expand for other less than 3 schools)	

## c.3. Pohnpei State

Version No.	The endorsed date	Details of Modifications
Original (0)	Jan.2012	Beginning of the Project
1	Feb. 2014	Modified the activities:  3-1a The SSWMS in Pohnpei is finalized  3-1b Action plan is developed.  3-2 Collection of General Waste is improved.  3-3 Final Waste Disposal site is improved.  3-4 CDL system is improved.  Add new indicators:  3-1-1 SSWMS in Pohnpei is submitted to the State for approval.  3-1-2 Monitoring is conducted 3 times per year by Monitoring committee.  3-1-3 Progress report is prepared by Monitoring committee annually.  3-2 Plan for improvement of waste collection including fee system, collection method and cooperation with multi municipality, is developed in Sokehs and Kitti -pilot project municipality.  3-3 Operation under Fukuoka method is introduced for existing dumpsite.  3-4-1 CDL system is operated without unintentional stop.  3-4-2 The Recycling Law is amended.  3-4-3 Financial system on CDL is improved.
2	Feb. 2015	Modify the indicator 3-4-1 to "The Recycle Center is operating at least once a month."

#### c.4. Chuuk State

Version No.	The endorsed date	Details of Modifications
Original (0)	Jan.2012	Beginning of the Project
1	Jan. 2012	The PO and PDM of FSM was combined into one sheet which wasn't useful to use for each State, then is was separated in to 4 States plus OEEM.
2	Feb. 2013	Added Activity 4-1-3 "Monitor the progress of the Action Plan," 4-3-1 "Conduct a Pilot Project of waste collection," "4-3-2 Conduct Time and Motion Study to find issues of collection system," "4-3-3 Develop a collection plan based on the study conducted" and 4-3-4 "Revise /develop a collection route and frequency when collection area is expanded".  Added indicator 4-1-1 "Action Plan is developed"  Added indicator 4-1-2 "Regular monitoring is conducted on the progress of Action Plan".  Added indicator 4-2-1 "Current dumpsite is improved"  Added indicator 4-2-2 "Operation and maintenance of landfill is regularly conducted"  Added indicator 4-3-1 "Monthly reports of collection is submitted".  Added indicator 4-3-3 "Monthly maintenance record is submitted"  Added indicator 4-3-3 "% of population in Weno who receive collection service is increased".
3	Feb. 2014	Modified Output 4-1 "The NSWMS and SSWMS in FSM are finalized" to "Capacity to prepare the State Solid Waste Management Strategy of Chuuk and Action plan is developed".  Modified Output to 4-2 "Capacity to improve and manage the final disposal site is enhanced"  Modified Output 4-3 "Capacity to improve the collection of general waste is enhanced"  Deleted Activity 5-1-5 "Implement the Action Plan."  Modified Activity 5-1-5 to "Monitor the progress of the Action Plan and Modify the SSWMS or Action Plan if necessary"  Added Activity 5-2-5 "Develop a conceptional plan of a new landfill"  Modified Indicator 4-1from "SSWMS is developed" to "Chuuk SSWMS is submitted to the State for approval"  Modified Indicator 4-2 from "Action Plan is developed" to "Monitoring on the progress of Action Plan is conducted annually"  Modified Indicator 4-2-1 "Current dumpsite is improved" to "Boundary of the existing dumpsite is identified and separated from other area"  Modified indicator 4-2-2 "Operation and maintenance of landfill is regularly conducted" to "Operation of compacting waste is conducted at least once a week"  Added Indicator 4-2-3 "Operation is recorded and submitted to PW and EPA"  Modified Indicator 4-3-1 "Monthly reports of collection is submitted" to "Monthly collection record is submitted to PW and EPA"  Modified Indicator 4-3-2 "% of population in Weno who receive collection service is increased" to "More than 5 villages receive regular collection service."
4	Feb. 2015	Deleted Activity 4-1-6D"raft the next SSWMS for the year 2016-2020"  Added Indicator 4-3-3 "More than 10 workshops are conducted to improve the waste discharge of the people"

### c.5. Yap State

Version No.	The endorsed date	Details of Modifications	
Original (0)	Jan.2012	Beginning of the Project	
1	Jan. 2012	The Po and PDM of FSM was combined into one sheet which wasn't useful to use for each State, then is was separated in to 4 States plus OEEM.  Added indicators 5-2 "Maintenance of landfill is regularly conducted" and "5-3:  Awareness Plan is Developed".	
2		Added Indicator "Monitor the progress of the Action Plan"	
3	Feb. 2014	Modified Output 5-1 "The NSWMS and SSWMS in FSM are finalized" to "Capacity to prepare the State Solid Waste Management Strategy of Yap State and Action Plan is developed"	

		Modified Output 5-2 "Waste Disposal" to "Capacity to improve and manage the final disposal site is enhanced"  Modified Output 5-3 "Awareness Raising" to "Capacity to conduct awareness activities for SWM is raised"  Modified activity 5-1-1 "NSWMS and SSWMS for all four states are developed" to "Yap SSWMS is submitted to the State for approval"  Modified activity 5-1-2 "Action Plan is developed" to "Action Plan is distributed to the stakeholders"  Modified activity 5-1-3 "Regular monitoring is conducted on the progress of Action Plan" to "Monitoring on the progress of Action Plan is conducted annually"
4	Feb. 2015	Deleted Activity 5-1-7 "Draft the next SSWMS for the year 2016-2020"

#### 2.2 Palau

### a. PDM

### a.1.Beggining of the Project

		Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
		Overall Goal			
Susta	ainable management of sol	lid waste in the Pacific Region is enhanced	1.To be discussed	To be advised	
		Project Purpose			Natural disaster would not drastically affect the collaboration among PICs and SPREP.
the F	acific Region is strengthen	y base for sustainable Solid Waste Management in ned through implementation of the Pacific Regional egy (2010-2015) (RS2010)	# of experts (Trainers) in the field of 3R/Sustainable financing are listed in the SPREP inventory     Recycling rate for beverage container is increased.	SPREP (Regional inventory of skilled people)  Records of Recycling Center	Prus after SPREP:  2. Political changes of PICs would not drastically affect the collaboration among PICs and SPREP.
#	Priorities under RS2010	Outputs			
1	1 Sustainable Financing Output 1: Beverage container deposit fee program (sustainable financing system) is enhanced.		1-1 % of amount of containers redeemed out of imported beverage containers by the end of the Project.	Records of Recycling Center	
2-1	2-1 3Rs/4Rs				
2-2			3-1 M-dock is officially closed according to the environmental regulation.     3-2 EIA for the new landfill site is conducted.	Record of BPW	
2-3	2-3 Waste Collection				
3	Legislation				
4	Awareness/Communication/ Education	Output 2: Awareness raising on 3R is enhanced.	Manual/materials for awareness-raising is developed.     PEEC meetings are conducted on a monthly basis.	Records of BPW	
5		Output 4: Training program on 3R / recycling program is developed.	4-1 Training manual / materials is developed.	Record of BPW	
6	Environmental Monitoring				
7	Policy, Planning,				
8	Solid Waste Industry Monitoring system of				
	PS2010	Activities	Inputs		
Please see PO for details.		Please see PO for details.	Japanese Side	Palauan side	
			Dispatch of JICA experts	Assignment of National PD/PM and CP	1 Counterpart paragraph loop weeking in the 5-13-5 CMR4
			Provision of materials of 3R Provision of Regional, sub-regional and in-country workshops / training	Local cost sharing Provision of necessary land/facility, work space Fund for new dike of M-Dock / preparatory study for new landfill site (FIA)	Counterpart personnels keep working in the field of SWM.     Budget for setting up of segregation points are to be allocated from Koror state government.
					Pre-condition
					Cooperation of community people of the target area is obtained.

### a.2.End of the Project

		Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
		Overall Goal			
Sus	tainable management of so	olid waste inPalau is enhanced	Good practices conducted in Palau are implemented in other island	To be advised	
			countries tackling with cmmon issues.		
_		Project Purpose			Natural disaster would not drastical
		ty base for sustainable Solid Waste Management	5 experts (Trainers) in the field of 3R/beverage container deposit fee	SPREP (Regional inventory of skilled	SPREP.
		h implementation of the Pacific Regional Solid	program/ landfill operation are listed in the SPREP inventory  2. % of amount of containers redeemed out of imported beverage containers	people) Records of Recycling Center	Political changes of PICs would no
Vas	ste Management Strategy (	2010-2015) (RS2010)	maintaned 90% or above		drastically affect the collaboration
			intalitation 30 % of above.		among PICs and SPREP.
#	Priorities under RS2010	Outputs			
#	Filorities under Nozo to				
		Output 1: Capacity to manage the beverage	1-1: (Revised)SWM-BPW can regularly monitor redemption rate		
1	Sustainable Financing	container deposit fee program (sustainable	1-2: (Revised) SWM-BPW can regularly monitor the amount of shipped-off	Records of Recycling Center	
		financing system) is enhanced.	beverage containers		
2-1	3Rs/4Rs				
2-2	Waste Disposal	Output 4: Capacity to manage the final landfill	4-1: A period of operation for M-Dock is extended for 3 years. 4-2: The exsiting closure plan for M-dock landfill is revised.	Record of BPW	
2=2	vvaste Disposal	site is enhanced.	4-3: Conceptional Plan of the waste disposal is developed.	Record of BPW	
2-3	Waste Collection		4-5. Conceptional Plant of the waste disposal is developed.		
3	Legislation				
4	Awareness/Communication/		3-1: Materials are deliverd to 50% of schools in the Earth day activity.	Records of BPW	
	Education	raising on 3R is enhanced.	3-2: # of school presentations/ visits & conducted workshops		
5	Capacity Building	Output 5: Training program on 3R /SWM is	5-1 Training manual / materials is developed.	Record of BPW	
J	Capacity building	developed.	5-2: # of training conducted and # of participants	Record of BPW	
6	Environmental Monitoring				
	Policy, Planning,	Output 2: National Solid Waste Management	2-1: NSWMP is finalized.		
7	Performance	Plan(NSWMP) is finalized and Action Plan is	2-2: Action Plan is revised	Record of BPW	
	1 Giloillianos	revised.	2-2. Action 1 lain is revised.		
8	Solid Waste Industry				
*	Monitoring system of				
	RS2010	A 0.70			
	1	Activities Please see PO for details	Inputs Japanese Side	Palauan side	
		ricase see r'U IUI detalis.		Assignment of National PD/PM and	
			Dispatch of JICA experts	CPs	Counterpart personnels keep work
				Local cost sharing	in the field of SWM.
				Provision of necessary land/facility,	Budget for setting up of segregation
			Provision of materials of 3R	work space	noints are to be allocated from Koror
			Provision of Regional, sub-regional and in-country workshops / training	Fund for new dike of M-Dock /	state government.
				preparatory study for new landfill site	g- / Olimoni.
				(EIA)	D 199
					Pre-condition
					Cooperation of community people of target area is obtained.
			l .		paryer ared is obtained.

#### a.3. Historical Modifications

Version No.	The endorsed date	Details of Modifications
0	uute	Beginning of the Project
1	Feb. 2012	Output 2 "Awareness raising on 3R is enhanced" was divided into two Outputs since this Outputs included two different components; awareness activities and finalization of National Solid Waste Management Plan. Output 2 "National Solid Waste Management Plan(NSWMP) is approved by the Government of Palau and revise the Action Plan for 2012-2016" and "Output 3 "Awareness raising on 3R (including beverage Container Deposit Fee Program) is enhanced"  Along with the above modification, added Indicator 2-1 "NSWMP is approved by the Government of Palau and Action Plan is revised"
2	Feb. 2013	Added Indicator 1-2 "% of shipped off containers amount out of redeemed amount"
3	Jan. 2013	Modified Outputs; Output 1 "Beverage container deposit fee program (sustainable financing system) is enhanced" to "Capacity to manage the beverage container deposit fee program (sustainable financing system) is enhanced" Output 2 "National Solid Waste Management Plan(NSWMP) is approved by the Government of Palau and revise the Action Plan for 2012-2016" to "National Solid Waste Management Plan is finalized and Action Plan is revised" Output 3 "Awareness raising on 3R (including beverage Container Deposit Fee Program) is enhanced" to "Capacity to conduct Awareness raising on 3R (including beverage Container Deposit Fee Program) (targeting MPIIC and Earth day) is enhanced" Output 4 "Final landfill site is improved" to "Capacity to manage the final landfill site is enhanced" Output 5 "Training program on 3R / recycling program is developed" to "Training program on 3R / SWM recycling program is developed" Modified Indicators; 1-2 "% of shipped off containers amount out of redeemed amount" to "The financial balance between income and expenditure of BCDFP is well maintained" 2-1 "NSWMP is approved by the Government of Palau and Action Plan is revised" to "NSWMP is finalized. Added 4-1 "A period of operation for M-Dock is extended for 3 years" 4-2 "The closure plan for M-dock landfill is officially submitted to EQPB for approval" to "The existing closure plan for M-dock landfill is revised" Deleted 4-2 "EIA for the new landfill site is conducted" 4-3 "Selection of site for new landfill is approved by landowner" to "Conceptional Plan of the waste disposal is developed" B. Modified activities: 2-2 "Revise the Action Plan of NSWMP" to "Revise the Action Plan of NSWMP if necessary" 3-1 "Prepare the action plan of awareness raising / environmental education on 3R for all states" to "Prepare the action plan of awareness raising / environmental education on 3R and finalize it" Added 4-3 "Conduct a survey to estimate the remaining capacity of M-Dock landfill" and 4-5 "Conduct the EIA for the new national landfill site" to 4-5
4	Mar. 2014	Modified Indicators; 1-2 "The financial balance between income and expenditure of BCDFP is well maintained" to "Amount of shipped off containers" 3-2 " # of installed recycling bins at MPIIC" to "# of school presentations/ visits & conducted workshops"
5	Dec. 2015	Modified Indicators; 1-1 "% of amount of containers redeemed out of imported beverage containers by the end of the Project" to "SWM-BPW can regularly monitor redemption rate" 1-2 "Amount of shipped off containers" to "SWM-BPW can regularly monitor the amount of shipped-off beverage containers"

### 2.3 Marshall Islands

### a. PDM

## a.1.Beggining of the Project

		atrix (PDM) - Marshall Islands			
Proje	ect Title: Japanese Technical Co	operation Project for Promotion of Regional Initiative on So	lid Waste Management in Pacific Island Countries	s (J-PRISM)	
Targe	et Group : C/Ps of OEPPC, MPV	V, EPA, MAWC, MLG, KALGov. MICS	Final Beneficiaries: Citizens of Marshall Islands	5	Project period: 5 ye
mple	ementing Agency: OEPPC, MPV	V, EPA, MAWC, MLG, KALGov.MICS	Target Area: Marshall Island (Majuro and Ebye	eye)	
		Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
		Overall Goal			
Susta	inable management of solid waste	in the Pacific Region is enhanced	1.To be discussed	To be advised	
		Project Purpose			Natural disaster would not drastically affect the collaboration
łuma	an and institutional capacity base fo	or sustainable Solid Waste Management in the Pacific Region is	1. # of experts (Trainers) in the field of recycling	SPREP (Regional inventory of skilled	among PICs and SPREP.
		fthe Pacific Regional Solid Waste Management Strategy (2010	system listed in the SPREP inventory	people)	Political changes of PICs would not drastically affect the
2015)	) (RS2010)		Volume of disposal waste per population is reduced by XX %	To be advised	collaboration among PICs and SPREP.
#	Priorities under RS2010	Outputs			
1	Sustainable Financing				
2-1	3Rs/4Rs	Output 3: Composting system is improved in Majuro. Output 5: Solid waste management system is improved in Ebyeye.	3-1 Volume of compost sales are increased in Majuro	To be advised	
2-2	Waste Disposal				
2-3	Waste Collection	Output 2: Recycling system is improved in Majuro.	2-1 Baseline data are obtained 2-2 Separate collection of cans is conducted 2-3 Recycled volume is increased by 30 %	To be advised	
3	Legislation		,		
4	Awareness/Communication/ Education	Output 4: School-based recycle system is introduced in Majuro.	4-1 Manual/material of awareness raising is developed.     4-2 Poster contests are conducted on a regular schedule.     4-3 I-Recycle programs are implemented in over 80% of public elementary schools.	To be advised	
5	Capacity Building				
6	Environmental Monitoring				
7	Policy,Planning, Performance	Output 1: NSWMS is implemented.	1-1 Action plan of Majuro is finalized.	To be advised	
8	Solid Waste Industry				
*	Monitoring system of RS2010				
		Activities	Inputs		
		Please see PO for details.	Japanese Side	Marshall Islands side	
			Dispatch of JICA experts	Assignment of National PD/PM and CPs	1.Counterpart personnel keep working in the field of SWM
			Provision of Regional, sub-regional and in-country workshops / training	Local Costs Sharing Provision of necessary land/facility, work space	Necessary budget to carry out activities is allocated fro government.
			Loca cost support		Pre-condition
					Cooperation of community people of the target area is

#### a.2.End of the Project

٩N	NEX I: Project Design Matrix (PDM) - Marshall Islands			PDM: Version 2 (13-Nov,20
_	ject Title: Japanese Technical Cooperation Project for Promotion of Regional Initia		USM)	
	get Group : C/Ps of OEPPC, MPW, EPA, MAWC, MLG, KALGov. MOE	Final Beneficiaries: Citizens of Marshall Islands		Project period: 5 ye
mp	elementing Agency: OEPPC, MPW, EPA, MAWC, MLG, KALGov., MOE	Target Area: Marshall Island (Majuro and Ebeye)		
	Narrative Summary	Objectively Verifiable Indicators	Means of Verifications	Important Assumptions
	Overall Goal tainable management of solid waste in the Pacific Region is enhanced	Good practices developed in Marshall Islands is implemented in other island		
ous	ianiable in anagement or sono wasse in the Faulic Region is elimanoed	Thoour practices overloped in Marshall slains is mipremented in other Island countries tackling with common issuese  2.A least one training/workshop in the region which is conducted by facilitators/trainers from Marshall Islands in three years after completion of the project.	Report of activities on experience sharing     Records of training/workshop organized by counterparts in Marshall Islands	
	Project Purpose			Natural disaster would not drasticall
aci	nan and institutional capacity base for sustainable Solid Wasta Management in the ific Region is strengthened through implementation of the Pacific Regional Solid Wasta nagement Strategy (2010-2015) (RS2010)	6 experts (Trainers) listed in the SPREP inventory     Good practices and experience are shared among Majuro and other Aloll Local Governments.	SPREP (Regional inventory of skilled people)     Records on cooperation activities/actions.	affect the collaboration among PICs a SPREP.  2. Political changes of PICs would not drastically affect the collaboration am PICs and SPREP.
ш	S. Outsut-			
1	Outputs  NSWMS is implemented.	1-1 NSWMS and Action plan of Majuro is finalized. 1-2 Implementation of Action plan is monitored and reviewed by the Monitoring Committee 3 times a year. 1-3 Progress report is issued annualy.	1-1 Finalized NSWMS and Action plan     1-2 Reports/check results of Monitoring presented for the Monitoring committee**     *Monitoring Committee OEPPC(Chair), MPV, MAWC, EPA MOE     1-3 Annual progress report	
2	Recycling system is improved in Majuro.	2-1 Recycle products is increased year by year. 2-2 # of collected and exported materials are increasing year by year.	2-1& 2-2 Reports/check results of Monitoring presented for the Monitoring committee.	
3	Composting system is improved in Majuro.	3-1 Volume of compost production are increased in Majuro	3-1 Reports/check results of Monitoring presented for the Monitoring committee.	
4	School-based recycle system is introduced in Majuro.	Hanual/material of awareness raising is developed.     A-2 Campaign activities are conducted on a regular schedule.     A-3 I-Recycle programs are implemented in over 80% of elementary schools in Majuro.	4-1Manual and Materials 4-2 &4-3 Reports/ check results of Monitoring presented for the Monitoring Committee.	
5	Solid waste management system is improved in Ebeye.	5-1 Plan for improvement of waste collection is drafted.	5-1Plan for improvement of waste collection	
		5-2 The burning in the open dumping decreased to 0 in Ebye.     5-3 The waste is located separately and adequately in dump site.     5-4 Bulky waste collection is separated from the common household waste.	5-2,5-3&5-4 Evaluation results of Management level on dump site	
		5-5 Education on 4R promotion is conducted for all school classroom. 5-6 Teacher training on 4R promotion is conducted for all teachers in Ebeye. 14R: Refuse, Reduce, Reuse, Recycle	5-5&5-6Records on education activities/actions on 4R promotion.	
		5-7 Plan for paper fuel is drafted	5-7 Drafted plan for paper fuel.	
	Activities	Inputs		
	Please see PO for details.	Japanese Side	Marshall Islands side	1.Counterpart personnel keep wor
		Dispatch of JICA experts  Provision of Regional, sub-regional and in-country workshops / training	Assignment of National PD/PM and CPs Local Costs Sharing Provision of necessary land/facility, work space	in the field of SWM.  2. Necessary budget to carry out activities is allocated from the government.
		Loca cost support		Pre-condition
				Cooperation of community people the target area is obtained.

#### a.3. Historical Modifications

Version No.	The endorsed date	Details of Modifications
original		Beginning of the Project
0	Feb. 2013	Indicator 1-1 was modified as "NSWMS and Action plan of Majuro is finalized".  Add Indicator 1-2 Implementation of Action plan is monitored and reviewed by the Monitoring Committee 3 times a year.  Add Indicator 1.3. Progress report is issued annually. Indicator 2-1 was modified as "Sales of recycle products is increased year by year." Indicator 2-2 was modified as "# of collected and exported materials are increasing year by year." Indicator 2-3 was deleted, Indicator 3-1 was modified as "Volume of compost sales production are increased in Majuro" Indicator 4-2 was modified as "Campaign activities are conducted on a regular schedule." Add Indicator 5-1 Experience on SWM in Majuro is shared and introduced. Add Indicator 5-2 Time & motion study and evaluation on waste collection are implemented. Add Indicator 5-3 Management in dump site is improved, such as "no more open burning", "dumping waste should be separated and stocked at one section in the dump site", "Separate bulky waste from household waste".
1	Feb. 2014	The original Indicator 5-1 was deleted. Indicator 5-1 was modified accordingly "Plan for improvement of waste collection is drafted." Indicator 5-3 was divided to make more specific indicators new 5-2, 5-3 and 5-4 Add indicator as "5-5 Education on 4R promotion is conducted for all school classroom." Add indicator as "5-6 teacher training on 4R promotion is conducted for all teachers in Ebeye." Add indicator as "5-7 Plan for paper fuel is drafted"

## 3 Lists of the C/Ps

# 3.1 FSM: OEEM, Kosrae, Pohnpei, Chuuk and Yap States

#	Name	Management CPs	Assigned Period	Position	Organization		1 2 3	2011	8 9 4 8		2 3	201			1 2 3	20			1 2 3	James Sandar	014	9 2 2	2 1	2 3 4	201		
1	Marion Henry		Feb. 2013-	Secretary	Department of Resources and Development	1	Ш	Ш	Ш	T	Ш	Ш	Ш	Ш	+	H	Ħ	Ħ	₩	Ш	П	П	П	T	П	T	Ш
2	Andrew R. Yatilman	National Project Director	Feb. 2011-	Director	Office of Environment &	1	#	#	#	#	Ħ	$\parallel \parallel$	$\parallel$	$\parallel$	#	#	#	Щ	#	Ш	Ħ	#	Щ	#	Ħ	#	#
3	Robert H. Jackson	State Project	Feb. 2011-	Director	Emergency Management Kosrae Island Resources	2		Ш	Ш	#	Ш	Ш	Ш	Ш	Ħ	#	Ш	Ш	Ш	Ш	Ш	Ш	Ш	#	Ħ	#	$\blacksquare$
4	Albert Loby	Manager State Project	Feb. 2011-	Director	Management Authority Pohnpei Environmental	3		Ш	Ш		Ш	Ш	Ш	Ш				Ш		Ш			Ш	Ш	Щ		Ш
5	Ismael H. Mikel	Manager State Project	Feb. 2011-	Executive	protection Authority Chuuk, Environmental	All activities in Chuuk			+	Н	Н	Ш	Ш	Н			Ш	Ш	Ш	Ш	Н	Ш	Ш	#	Ш	П	Щ
-		Manager State Project		Director Executive	Protection Agency Yap, Environmental		+	₩	+++	$\mathbb{H}$	Н	$\blacksquare$	$\blacksquare$	$\mathbb{H}$		$\perp$	Ш	Ш	Ш	Ш	Ш	$\blacksquare$	Ш	Ш	Ш	Ш	Щ
6	Christina Fillmed	Manager	Feb. 2011-	Director	Protection Agency	All activities in Yap	111	2011		I	Ш	201	12	Ш		20	13	Ш	-		014		Ш	Ш	201	5	Ш
#	Name	Technical CPs	Assigned Period	Position	Organization	Activities in charge	1 2 3	4 5 6 7	8 9 # #	# # 1	1 2 3			# # #	1 2 3			# # #	1 2 3			9 # #	# 1	2 3 4			###
1	Cyndy Ehemes		Feb. 2011-	Program Manager	Office of Environment & Emergency Management	1	+	Ш	Ш	Ħ	Ш	Ш	Ш	Ш	t	t	Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш
2	Patti Pedrus		June. 2012-	Planner	Office of Environment & Emergency Management	1						H	₩	$^{\rm H}$	+	+	Н	₩	Н	Н	Н	₩	Н	$^{+}$	Н	₩	₩
3	Weston Luckymis		Feb. 2011-	Director	Kosrae, Department of Transportation and Infrastructure	2	+	₩	+++	$^{+}$	Н	₩	₩	Н	+	+	Н	₩	₩	Н	Н	+	Н	+	₩	#	₩
4	Kiobu K.Luey		Feb. 2011-		Kosrae Island Resources	2-3,2-4		Ш	#	#	Ш	Ш	Ш	Ш	#			Щ		Ш	Ш	#	Ш	#	Щ	#	Щ,
5	Likiak A. Melander		Feb. 2011-		Management Authority  Kosrae Island Resources	2-4		Ш	Ш		Ш	Ш	Ш	Ш			Ш	Ш		Ш	Ш		Ш	Ш	Ш	Ш	Щ
6	Hairom Livaie		Feb. 2013-		Management Authority  Kosrae, Department of	2-2,2-3		Ш	Ш		Ш	Ш	Ш	Ш		Ш	Ш	Ш		Ш	Ш	Ш	Ш	#	Ш	Ш	Щ
7	Zakias Obet		Feb. 2012-		Transportation and Infrastructure Kosrae, Department of		+	₩	₩	H	Н	₩	₩	Н	+	+	$\mathbb{H}$	₩	$\mathbf{H}$	Н	Н	#	Н	$\pm$	Ш	Ш	Ш
-				Discret	Transportation and Infrastructure Kosrae department of	2-3	$\mathbb{H}$	₩	Ш	$^{+}$	Н	$\mathbb{H}$	+		#	H	H	H		Н	H	I		H	H	₽.	H
8			Oct. 2012-	Director	education	[ ·	+	₩	+	H	Ш	₩	Ш		H			Ш			Н		П	H	П	$\blacksquare$	Ш
9	-		Oct. 2012-		euucaiioii	2-4	$\mathbb{H}$	₩	$\mathbb{H}$	$\parallel$	Ш	$\mathbb{H}$	$\mathbf{H}$	$\parallel$	H	#	H	#	#	Ħ	Ħ	#	Ħ	#	Ħ	#	T I
10	Maria Stephens		Feb. 2011-		Micronesia Eco Inc.	2-4		#		#	Ш	Ш	Ш	Ш	#	Ш	Ш	Ш	#	Ш	Ш	$\parallel$	Ш	#	Щ	#	Ш
11	Fredrico O. Primo		Feb. 2013- March,2015	Administrator	Pohnpei Transport and Infrastructure	3-2,3-3	Ш	Ш			Ш	Ш	Ш	Ш	+			Ш		Ш		Ш	Ш	1	Ш	Ш	Ш
12	Ricky Leben			Acting Administrator	Pohnpei Transport and Infrastructure	3-2,3-3		Ш	Ш			Ш	Ш					Ш					Ш	╽	Ш	Н	₩
13	Charles Lohn		Feb. 2011-		Pohnpei Environmental protection Authority	3-1,3-2,3-3	+		+	+	Н	₩	╫	+	+	+	H	₩		Н	Н	+	Н	+	₩	₩	
14	Nerson Henry. Jr		Feb. 2011-		Pohnpei Transport and Infrastructure	3-2,3-3	4	Ш	$\blacksquare$	H	Ш	Ш	Ш	Ш	H	H	Н	Щ		Ш	H	$\blacksquare$	H	$\mathbb{H}$	₩	Ŧ	Ш
15	Henry Susaia		Oct, 2015-	Acting Director	Pohnpei Environmental protection Authority	3-1,3-2,3-3	Ш	Ш	Ш	Ħ	Ш	Ш	Ш		T	T		Ш	Ш	Ш	П	Ш	П	T	Ш	П	4
16	Joseph Victor		Oct, 2015-	Specialist	Pohnpei Environmental protection Authority	3-1,3-2,3-3,3-4	$\dagger\dagger$	$^{\dagger\dagger}$	†††	#	Ш	Ш	Ш	Ш	T	$\dagger \dagger$	Ш	$\dagger \dagger \dagger$	$\dagger \dagger$	Ш	П	#	Ш	#	Ш	T	•
17	Bradmurry Soram		Oct, 2015-		Pohnpei Environmental	3-1,3-2,3-3	Ш	₩	Ш	Ħ	H	Ш	Ш	Ш	$^{\dagger}$	$^{\dagger}$	H	₩	₩	Н	Н	$\parallel \parallel$	H	$^{+}$	Н	H	Ш
18	·		Oct, 2015-		protection Authority Pohnpei Environmental	3-1,3-2,3-3	+++	₩	₩	$^{\dagger}$	Н	₩	₩	Н	+	+	Н	₩	₩	Н	Н	₩	Н	+	Н	₩	Ш
$\vdash$	Rusty Calros		Oct, 2015-		protection Authority Pohnpei Environmental	3-1,3-2,3-3	+	₩	+++	H	Ш	₩	₩	$\mathbb{H}$	+	+	H	Н		Н	Н	+	Н	$^{+}$	₩	Н	$\mathbb{H}$
-					protection Authority Pohnpei Transport and		$+\!\!+\!\!\!+$	₩	₩	$\mathbb{H}$	₩	₩	₩	₩	+	+	Н	₩	H	Н	Н	₩	Н	+	₩	₩	$\square$
-	Peterson Anson		Aug, 2015-	GIS Specialist	Infrastructure Pohnpei Waste	3-2,3-3	$+\!\!+\!\!\!+$	₩	₩	$\mathbb{H}$	Н	₩	₩	$\mathbb{H}$	+		Н	₩	H	Н	Н	#	Н	+	Н	-	H
21	Pius Yaropiyal		Feb. 2011-	Supervisor	Management Services Chuuk, Environmental	3-3	#	#	##	Ħ	Ш	Ш	Ш	$\parallel$	#	Ħ	Ш	Ш		Ш	Н	#	Н	#	Ħ	#	#
22	Jason Saeson Poll		Feb. 2011-	Deputy Director Manger of Solid	Protection Agency	All	#	Ш		Ħ	Ш	Ш	Ш		I			Ш		Ш			Ш	#	Ш	Ħ	$\blacksquare$
23	Jack H. Sham		Feb. 2011-	Waste Management	Chuuk, Environmental Protection Agency	All	+	₩	₩	H	H	Н	Н	$^{\rm H}$	$^{+}$	+	H	₩		Н	Н	$^{\dagger}$	Н	$^{+}$	Ħ	$^{+}$	₩
24	Dayson Marar		Aug. 2014	Environmental	Chuuk, Environmental	4-3-5, 4-3-6	Ш	Ш	Ш		Ш	Ш	Ш	$\parallel$	Ħ	H	H	Ш		Ш	i.		Ш	#	Ħ	#	#
25	Jonny Killion		Feb. 2011- April,	Educator Director	Protection Agency Chuuk, Dept or Transportation and Public	All (passed away in Apr.		Ш		Ш	Ш	Ш	Ш	Ш	Ш		Ш	Ш	Ш		Н	$\parallel$	Н	$^{\dagger}$	Ш	H	Ш
-	Tos Nakayama		2014 July, 2014	Director	Matrice of the Control of the Contro	2014) All	+	₩	₩	H	H	Н	₩	Н	$^{+}$	$^{\dagger}$	H	₩	₩	H	H	${\mathbb H}$	Н	Ш	Ш	Н	Ш
-	Joanes Risin		Sep. 2011-	Assistant Chief	White, Dept or Transportation and Public	4-1, 4-2, 4-3-1, 4-3-2, 4-3	₩	₩	╁╫	#	₩	╫	╫	$\coprod$	$^{+}$	$^{+}$	$\boxplus$	╫	╫	Н	H	H	H	#	Н	f	Щ
-	John Michael Newo.		Feb. 2011-		Chata, Dept of	3, 4-3-4 4-2-1, 4-2-2, 4-2-3, 4-2-4	+	₩	H	H	H	$\blacksquare$	П	Н	H		H				H			F	H	F	$\mathbb{H}$
26	oonii wiicidel NeWo.		1 00. 2011*	Operator  Pollution Control	Transportation and Public	5-1-1, 5-1-2, 5-1-5, 5-1-6,	+	₩	$\blacksquare$	Ħ	H	₩	₩	H	₩	H	H	$\prod$	$\blacksquare$	H	H	${\mathbb H}$	H	$\mp$	Ħ	Ŧ	$\prod$
29	Joe Fanafal		Feb. 2011-	Program Specialist	Yap, Environmental Protection Agency	5-1-1, 5-1-2, 5-1-5, 5-1-6, 5-1-7, 5-2-2, 5-3-1, 5-3-2, 5-3-3, 5-3-4, 5-3-5, 5-3-6	1	Ш	Ш	$\parallel$	Ш	Ш	Ш	Ш	Ħ		Ш	Ш	Ш	Ш		$\parallel$	П	$\top$	Щ		
			Feb. 2011-June		Yap, Environmental	5-1-1, 5-1-2, 5-1-5, 5-1-6,	₩	Ш	Ш	$\parallel$	Ш	Ш	Ш	Ш			Ш	Ш	Ш	Ш	Ш	Ш	Ш	$\pm$	Ш	$^{+}$	$\mathbb{H}$
30	Peter Fattamag		Peb. 2011-June 2015	Program Specialist	Yap, Environmental Protection Agency	5-1-7, 5-2-2, 5-3-1, 5-3-2, 5-3-3, 5-3-4, 5-3-5, 5-3-6		ШТ					Ш					Ш					П				
31	(Alphonsus Ruwema)*		Feb. 2011- Oct. 2011	Director	Yap, Dept of Public Works and Transportation	Retired		Ш	#	.	Ħ	$\parallel \parallel$	$\parallel$	Ш	Ħ	$\parallel$	$\parallel \parallel$	$\parallel \parallel$	$\parallel$	H	Ш	$\parallel$	$\parallel \parallel$	$\parallel$	H	Ħ	Ш
H			Oct. 2011-June		Yap, Dept of Public Works	5-1-5, 5-1-6, 5-1-7, 5-2-5,	+	Ш	111,	$\parallel$	Ш	Ш	Ш					Ш	Ш	Ш			Ш	$\pm$	Ш	+	$\mathbb{H}$
32	Vincent Figir		2015	Director	and Transportation	5-2-6, 5-2-7 (resigned in Nov. 2014)																					
33	Mano Maleichog		Feb. 2013-	Deputy Director	Yap, Dept of Public Works and Transportation	5-1-5, 5-1-6, 5-1-7, 5-2-5, 5-2-6, 5-2-7	$\parallel$	$\Pi$	Ш	$\parallel$	Ш	Ш	Ш	Ш	+	Ħ	Ħ	#	$\parallel$	H	Ħ	#	H	#	Ħ	#	#
F						5-2-1, 5-2-3, 5-2-6, (fter	#	Ш		#	Ш				#	#	Ш	Щ,	Ħ	Ш			Ш	$\parallel$	Ħ	Ħ	Ш
34	James Sarmog		Feb. 2011-		Yap, Dept of Public Works and Transportation	new landfill, there is no main activites of SWM																					
L		<b> </b>		Fi-		under him) 5-2-1, 5-2-3, 5-2-6,	#	#	$+\!+\!+$	#	₩	$\mathbf{H}$	+	H	#	-+-	#	##	#	Ш	#	Щ.	Щ	#	Щ	#	Щ
35	Manny Mendoza		Feb. 2011-2013	Engineer - Contracts &	Yap, Dept of Public Works and Transportation			H	₩	$\dagger$	Ш	$\parallel \parallel$	+	+	$^{+}$	+	$^{\dagger}$	₩							Ш		
20	Jesse Waayan		Feb. 2013-	Engineering Refuse Collection	Yap, Dept of Public Works	constructed)	+		+++	H	Ш	+	+	++	#.			Ш					Ш	Ш	Ш	$\perp$	Щ
-				Manager	and Transportation Yap, Dept of Public Works	5-2-6, 5-2-7 5-1-5, 5-1-6, 5-1-7,5-2-5,	$\mathbb{H}$	₩	$\mathbb{H}$	$\parallel$	H	$\mathbb{H}$	$\mathbb{H}$	$\mathbb{H}$	₩.	1	H	H	H	H	F	Ŧ	H	Ŧ	Ħ	Ŧ	$\mathbb{H}$
37	Jonathan Marmar		July 2015-	Director	and Transportation	5-2-6, 5-2-8	Ш		Ш	Ш	Ш						Ш	Ш	Ш	Ш	Ш	Ш	Ш	Ш	ш	4	╨

### 3.2 Palau

		Management	Assigned						21	011				-	2012	!				20	13					2014			Ι		20	15		J
#	Name	CPs	Period	Position	Organization	Activities in charge	1 2	3 4	5 6	7 8	9#	# #	1 2	3 4	6 7	8 9	* *	1 2	3 4	5 6	7 8	#	# # 1	2 3	4 5	6 7	8 9		1 2	3 4	5 6	7 8	9 #	#
1	Techur Rengulbai	Project Director	Feb. 2011- Feb. 2013	Director	Bureau of Public Works, Ministry of Public Infrastructure, Industry and Commerce		<b>+</b>											*																
2	Brian Melairei	Project Director	Feb. 2013-	Director	Bureau of Public Works, Ministry of Public Infrastructure, Industry and Commerce													•	$\prod$													H	$\frac{\Pi}{\Pi}$	+
3	Calvin Ikesiil	Project Manager	Feb. 2011-	Manager	Solid Waste Office, Bureau of Public Works, Ministry of Public Infrastructure, Industry and Commerce(SWM-BPW)	All	<b>                                     </b>																											<b>+</b>
	Name	Technical CPs	Assigned	Position	0					011					2012					20			Ţ			2014	,,				20	,,		
#	Name	Technical CPs	Period	Position	Organization	Activities in charge	1 2	3 4	5 6	7 8	9 #	##	1 2	3 4 5	6 7	8 9	###	1 2	3 4	5 6	7 8	#	# # 1	2 3	4 5	6 7	8 9	# # #	1 2	3 4	5 6	7 8	9##	#
1	Mengkur Rechelulk		Feb. 2011-	Educator	SWM-BPW	3-1, 3-2, 3-3	•																										leave abser	
2	Vernon Basiliu		Feb. 2011-	Operator	SWM-BPW	no activities in charge on PDM/PO as of Jul.2013. But some activities might be considered in due course	<b>Y</b>																											<b>+</b>
3	Sylvester Bemert		Feb. 2011-	Operator	SWM-BPW	no activities in charge on PDM/PO as of Jul.2013. But some activities might be considered in due course	<b>.</b>																											+
4	Jessica Shizuko Emesiochel		Mar. 2014-	Coordinator	SWM-BPW																			1								<b>→</b>	matar leav	nity
5	Isum echraard K. Ngirairikl		Feb. 2011- Aug. 2013	Outreach Officer	Environmental Quality and Protection Board	Resigned	•														•													
6	John O. Ngiraked, Jr.*		Feb. 2011-	Project Coordinator	Solid Waste Management Office of Koror State Governemnt (SWM-KSG)	1-1, 5-1, 5-2, 5-3	_												H													Ħ	$\frac{\square}{\square}$	<b>-</b>
7	Bachat Arsenio*		Feb. 2011-	Community Educator	SWM-KSG	1-1, 5-1, 5-2, 5-3	•																										$\frac{1}{1}$	+
8	Selby P. Etibek*		Jan. 2013-	Manager	SWM-KSG	1-1, 5-1, 5-2, 5-3												+															$\prod$	+
9	Balty Sokyang*`		Feb. 2011-	Community Educator	SWM-KSG	1-1, 5-1, 5-2, 5-3	•																										$\frac{\parallel}{\parallel}$	+

### 3.3 Marshall Islands

#	Name	Management	Assigned	Position	Organization	-				11		L	-	TT		2012						201			I.T				2014				П		20		T.T	
_		CPs	Period Feb. 2011-				1 2	3 4	5 6	7 8	9 10	11 12	1 2	3 4	5	6 7	8 9	10 11	12 1	2 3	4 5	6	7   8	9 10	11 12	2 1	2 3	4 5	6 7	8 9	10 11	12	1 2	3 4	5 6	7 8	9 1	0 11 12
1	Casten N. Nerma		Sep.2014	Chief Secretary	Chief secretary			Ш																													H	Ш
2	Justina R. Langidrik		Sep, 2014-	Acting Chief Secretary	Chief secretary																									•								
3	Smith Ysawa		Feb. 2011- Feb, 2013	Secretary	Ministry of Public Works		•													•			-								-							
4	Jorelik Tibon	National Project Manager	Oct.2011-	General Manager	Majuro Atoll Waste Company						•												-								-							<del>                                      </del>
5	Roger	National Project Manager	Mar.2007- Mar.2011	General Manager	Majuro Atoll Waste Company		+	+																							-							
6	Steave Why	National Project Manager	Apr2011- Sep.2011	General Manager	Majuro Atoll Waste Company			+			+												***************************************								-							
7	Gary Ueno		Feb. 2011- Sep,2015	Secretary	Ministry of Education		4																								-					-		
8	Evelyn Konou		Nov, 2015-	Commissioner	Ministry of Education (Public School Program)																										-							-
9	Wilbur Allen	National Project Director	May. 2013-	Secretary	Ministry of Public Works																4	H	-			H												-
10	Bruce Kijiner		May. 2013- Mar,2015	Director	Office of Environmental Planningn and Policy																•										-	H	H			-		
11	Lowell Alik		May,2015-	Director	Office of Environmental Planningn and Policy																										-				+	-	H	-
12	Moriana Philip		Oct,2015-	General Manager	Environmental Protection Authority in Marashall																																•	
#	Name	Technical CPs	Assigned Period	Position	Organization	Activities in charge	1 2	3 4		7 8	9 #	# #	1 2	3 4		2012 6 7	8 9	# #	# 1	2 3	4 5	201		9 #	# #	1 1	2 3		2014 6 7	8 9	# #	#	1 2	3 4	20 5 6		9 #	# #
1	Warwick Harris		Feb. 2011-	Acting director	Environmental Planningn and Policy Coordination	1	+	П					H	П												П						H						H
2	Julian Alik		Feb. 2011-	Cnier Educatoin and Awareness	Environmental Protection Authority in Marashall	4	1	H					Ħ				ı									H			+									
3	Jessica Zebedee		June.2014-	Officer Educatoin and Awareness	Environmental Protection Authority in Marashall	4											l												4			H						-
4	Roney Arelong		Feb, 2011- July, 2012	Chief Officer, Solid & Hazardous	Environmental Protection Authority in		4																												l			
5	Kanchi Hosia		Feb. 2011-	WM Assistant	Marashall  Ministry of Education	4	+		-				H				+															H					H	-
	Teliphen			Secretary	Majuro Atoll Waste		•																															
6	Neamon		Feb. 2011-	Chief	Company																																	
7	Aeto Bantol		Feb. 2011-	Administrative Officer	Kwajalein Atoll Local Government	5	1																															
8	Wesley D. Lemari		Feb. 2011-	Assistant Director	Kwajelein Atoll Local Government Public Works	5	•																															
9	Odrikawa A. Jatios		June.2014-	Deputy General Manager	Environmental Protection Authority in Marashall																							***************************************	+		-				$\dagger$	-		
10	Whitney deBrum		June.2014- Sept,2015		Environmental Protection Authority in Marashall																								+		-	H			l	-	+	
11	Bruce Kijiner		May. 2013-	Director	Office of Environmental Planningn and Policy	1															1	+									-	H			+	-		
12	Doan Hadley Trev		Feb. 2011- Nov.2012		Coordination  Majuro Atoll Waste Company	2,3,4	+	$\parallel$		H			H	H			+	+										-			-	Ħ				-		
13	Hiram Malolo		May 2013-	Asst. Secretary	Ministry of Education (Ebeye)	5																$\vdash$		•							-				$\dagger$	-		
14	Morina Mook		May 2013-		Environmental Protection Authority in	4											+				•	+						H			-	H			+	-	H	-
15	Jelton Anjain		Sep, 2013 -	Officer Asst. Secretary	Marashall  Ministry of Education	5		$\parallel$															-	+							-	H			+	-	H	-
					(Ebeye) Environmental			$\parallel$		H	H		$^{+}$				+	H	H		H		-			+					-							
16	Ittu Steve		Feb, 2014 -		Protection Authority in Marashall	4																									-							

## 4 Inputs

## 4.1 Dispatch of Japanese Experts

Two JICA Experts were dispatched during the Project period. The total assignment was 21 man-months during May 2014 to December 2015. The schedule of the assignments is shown below.

Name		Number of																								Number of days	Man-months
(task of the Expert))		trips	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	Total	Total
Akira Haseyama (Head of the Expert Team,	Plan	7	•		(59)		(41)	-		(64)	-	(36)		-	(29)				<b>=</b> (50)			(52)				331	11.03
SWM-C)	Actual	3		6/10	(55)	3 8/17	9/28	10/26		12/12 (48)			3/14 (59)	4/19		6/5 (48)		8/23	9/20		11/1	12/19 (49)	12/20 (	(day)		331	11.03
Risa Muranaka	Plan	7	-	(47)		1	(40)			(64)	-	(43)			(29)			(33)	_			(43)				299	9.97
(SWM-D))	Actual	3		6/10	7/23 (44)	8/17	9/22	10/	26	12/13 (49)	1/27		3/14 (47)	4/18		6/5 (49)	7/26		8/30		11/7	12/13 (37)		-12/20(	(days)	299	9.97
		<u> </u>							Sub	total														Pl	an	630	21.00
									Sub	totai														Act	ual	630	21.00

## 5 Lists of the Products and the Related Documents

## 5.1 Lists of Workshops and Trainings

Totally 11 major workshops and trainings were conducted in the Micronesia Region from the beginning of the J-PRISM in 2011. The outline of the each workshop or trainings were shown below.

#### a. FSM SWM Experience Sharing Workshop (Kosrae)

1. Outline of the Workshop/ Tr	raininig				
•		agement Eunopianos Charita - M	laukahan, Dlang: f	o # C. 100000	
Name		agement Experience Sharing W	orksnop: Planning f	or Success	
		SM States SWM strategies			
· · · · · · · · · · · · · · · · · · ·	Workshop	AVA Church			
	2-1. National/State SV	vivi Strategy			
Host organization		abox 2011			
	15th to 17th of Noven	nber, 2011			
	Kosrae State of FSM				
Number of the participnats	36				
Cost	SDDED Exports were m	ain facilitators and Expert C ar	nd Export D didn't at	tand the wor	kshon
2. Paticipants	Name	Title	Organization	Man/Female	Role
•	Mr. Charles Lon	Title	Pohnpei EPA	M	Other Participant
	Mr. Henry Susaia		Pohnpei EPA	M	Other Participant
	•	JOCV	Pohnpei EPA		•
	Mr. Kazuya Nishimura Mr. Jack Sham	Manager for solid and Hazardous W	•	M	Other Participant
	Mr. Kenichi Maekawa	JOCV	Chuuk EPA Chuuk EPA	M	Other Participant
				M	Other Participant
	Mr. John Newo	Dump site manager	Chuuk EPA	M	Other Participant
	Mr. Jason Poll	Deputy Director	Chuuk EPA	M	Other Participant
	Mr. Ismael H. Mikel	Executive Director (State Project M		M	Other Participant
	Ms. Christina Fillmed	Executive Director (State Project M		F	Other Participant
	Mr. James Samong	Chief enginner	Yap PW&T	М	Other Participant
	Mr. Lyndon H. Jackdon	Governor of Kosrae State	Governor, Kosrae	М	Other Participant
	Mr. Robert Jackson	Executive Director (State Project M		М	Other Participant
	Mr. Yoichi Kashihara (Nena		Kosrae KIRMA	М	Other Participant
	Mr. Blair Charley	GIS Coord.	Kosrae KIRMA	М	Other Participant
	Mr. Kiopu Luey	Project Inspector	Kosrae KIRMA	M	Other Participant
16	Mr. Presley Abraham	Dev. Project Coord.	Kosrae KIRMA	M	Other Participant
17	Mr. Simpson Abraham	Project Manager	Kosrae PACC	M	Other Participant
18	Mr. Weston Luckymis	Director	Kosrae DT&I	M	Other Participant
19	Mr. Hairom Livae	Administrative Officer	Kosrae DT&I	M	Other Participant
20	Mr. Thansley Kinere	Administrator	Kosrae DT&I	M	Other Participant
21	Mr. Norlin Livae	Sanitation Director	Kosrae State Hospital	M	Other Participant
22	Mr. Issac Isac		Kosrae State Hospital	M	Other Participant
23	Mr. Widmer Sigrah	Mayor, Lelu municipality	Municipalities	M	Other Participant
24	Mr. Jacob Z. George	Mayor, Tafunsak municipality		M	Other Participant
25	Mr. Klava Klavasru	Mayor, Malem municipality		M	Other Participant
26	Mr. Natchuo Andrew	Mayor, Utwe municipality		M	Other Participant
27	Ms. Maria Stephens		Micornesisa Eco Inc	F	Other Participant
28	Mr. Mark Stephens		Micornesisa Eco Inc	M	Other Participant
29	Mr. Luke Sanney		NGO	M	Other Participant
30	Mr. John Dickson Wichep		TC&I	M	Resorce Person
31	Ms. Cindy Ehmes	Program Manager (National Project	OEEM	F	Other Participant
	Ms. Beverly Susumu	_ 3 , 3,3,1	OEEM	F	Other Participant
	Ms. Esther		SPREP	F	Trainer
	Mr. David Haynes		SPREP	M	Trainer
	Mr. Hideo Azuma	JICA Expert, J-PRISM	JICA Expert	M	Trainer
		•	•		
36	Mr. Yasutoshi Sagami	Project Formulated Coordinator	JICA Micronesia Offic	M	Other Participant







Group discussion Presentation Group photo

#### b. RMI SWM Workshop (Majuro)

1. Outline of the Workshop/ T	raininig				
Name	RMI Solid Waste Management Wo	rkshon:			
	Development of the RMI National				
	Workshop	OTTIM GLIGLOGIGG			
	2-1. National/State SWM Strateg	v			
Host organization		,			
))	19th of June, 2012				
	Majuro, RMI				
Number of the participnats	31				
Cost					
Others					
2. Paticipants	Name	Title	Organization	Man/Female	Role
1	Mr. Aeto Bantol		KALGOv	М	
2	Mr. Alexander Reker		MICS	М	
3	Mr. Antrari Jacson		CMI	М	
4	Ms. Betty Tibon Tmaakt		WUTMI	F	
5	Ms. Carmen Bigeler		WUTMI	F	
6	Mr. Casten Nemro		CSO	M	
7	Mr. Daniel Hone		MOH	M	
8	Mr. Douglasss Henry		OEPPC	M	
9	Mr. Emelyn Simon		MIVA		
10	Ms. Jassica Zebedee		OEPPC	F	
11	Mr. Jorelik Tibon		MAWC	M	
12	Mr. Julian Alik		EPA	M	
13	Mr. Kimber Riometo		USP		
14	Mr. Mark Stege		ABD	M	
15	Mr. Masie Maddison		WUTMI		
16	Mr. Melvin Majmeto		MALGOv		
17	Mr. Ned Lowiji		OEPPC		
18	Mr. Roney Arelong		EPA	M	
19	Mr. Smith Ysawa		MOPW	M	
20	Mr. Teliphn Ntamon		MAWC	M	
21	Mr. Tema Kotoimoala		RRE	M	
22	Mr. Warwick Herris		OEPPC	M	
23	Mr. Wibur Allen		MOPW	M	
24	Mr. David Haynes		SPREP	M	
25	Ms. Esther Richerds		SPREP	F	
26	Mr. Akira Haseyama		JICA	M	
27	Mr. Junji Ishizuka		JICA	M	
28	Mr. Katshiro Kamei		JICA/SV	M	
29	Ms. Sachiko Omori		JICA/SV	F	
	Ms. Asami Kinosita		JICA/JOCV	F	
31	Mr. Yasutoshi Sagami		JICA/PFA	М	







Group discussion

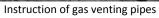
Presentation

Group photo

### c. Regional Training on Waste Landfill Management (Yap)

1. Outline of the Workshop/ Train	ILIIK				
Nia B	-	andfill Management V	FCNA		
	Regional Training on Waste L	<u> </u>			
	raining to learn how to oper	rate and maintain the lan	uiii		
	Vorkshop	t the end of			
	-2. Landfill Improvement/Re	ehabilitation/construction	า		
Host organization JI	ICA				
	8th to 22nd of Feburary, 201	13			
Place Y	ap, FSM				
Number of the participnats	36				
Cost a	bout US\$11000				
Others					
2. Paticipants	Name	Title	Organization	Man/Female	Role
-	1r. Charles Lohn	Specialist	Pohnpei EPA	M	Other Participant
2 N	1r. Pius Yaropiyal	Supervisor	Pohnpei PWMS	М	Other Participant
	1r.Kiobu K.Luey	Inspector	Kosrae KIRMA	M	Other Participant
3	<b>,</b>			•••	Other raiticipant
N	1r. Zakias Obet	Project Inspector	Kosrae Division of		
4			Design & Engineering	M	Other Participant
5 N	1r. Atsushi Sakane	SV	JICA	M	Other Participant
6 N	1r. Jack H. Sham	SWM manager	Chuuk EPA	М	Other Participant
	Ar John Michael Name	_	Chunk DT9 DW		•
,	r. John Michael Newo.	Landfill bulldozer operator	Chuuk DT&PW	M	Other Participant
	lr. Vincent Figir or Mr. Mano	Director/Deputy Director	Yap PWT		
8 N	Maleichog		10p 1 111	M	Other Participant
_ N	1r. Manny Mendoza	Engineer - Contracts &	Yap PWT	M	Other Participant
_		Engineering Inspector - Contracts &		IVI	Other Participant
10 ™	1r. John Alfonso	Engineering	Yap PWT	M	Other Participant
	1r. Ruot Vitus	Road & Ground	Yap PWT	M	Other Participant
	1r. Jesse Waayan	Program Manager	Yap PWT	M	Other Participant
	1r. Benjamin Runyad	Road & Ground	Yap PWT	M	Other Participant
	ns. Christina Fillmed	Exec Director	•		
=-		Pollution Control Program	Yap EPA	F	Other Participant
15 N	1r. Joe Fanafal	specialis I	Yap EPA	M	Other Participant
		·		•••	
N	1r. Peter Fattamag	Pollution Control Program	Yap EPA		
16		Specialist II		M	Other Participant
	۱r. Tetsuo Azuma(will join from	SV JICA	Yap EPA		
17 2:	1st and 22)			M	Other Participant
10 N	1r. Jesse Faimaw	President	Yap Island Paradise	M	Other Participant
			Recycling Company Yap Island Paradise	IVI	Other Participant
19 N	1r. Alphonsus Ruwema	Staff	Recycling Company	М	Other Participant
			Yap Surangel & Sons	•••	Other raiticipant
20 N	1r. Francis Girad		Company	M	Other Participant
	Ar Daniel Balan		Yap Surangel & Sons		
21 10	1r. Daniel Ralap		Company	M	Other Participant
		owner of Collection			
N	1r. Phillip Waayan Kaborag	company (one candidate to	Yap Eenvironmental Waste Solution		
22	-	manage landfill in the future)	vvaste Solution	М	Other Participant
	1r. Mathew Thigthen	water specialist	Yap EPA	M	Other Participant
	_		•	IVI	Other Farticipalit
24 <sup>N</sup>	ls. Anastasia A. R. Perogolo	water quality technician	Yap EPA	M	Other Participant
	1r. Francis Ochey		Yap PWT	M	Other Participant
	1r. Gbriel Tamanmoon		Yap PWT	M	Other Participant
			·		c a. ticipant
27 N	1r. Sylvester Bemert	M-Dock bulldozer operator	MPIIC-SWM	М	Other Participant
ъ.	Ar Vernon Basiliu	M-Dock equipment	MPIIC-SWM		
28 10	1r. Vernon Basiliu	maintenance	INILITC-2 ANIAI	M	Other Participant
29 N	1r. Calvin Ikesiil	SWM manager	MPIIC-SWM	M	Other Participant
30 N	1r. Akira Haseyama	Expert	J-PRISM	M	Resorce Person
31 M	ls. Risa Muranaka	Expert	J-PRISM	F	Other Participant
32 N	1r. Amos Mathias			M	Other Participant
	1r. Shiro Amano	Chief Advisor	J-PRISM	M	Trainer
34 <sup>N</sup>	1r. Faafetai Sagapolutele	Assistant Chief Advisor	J-PRISM	М	Trainer
		Coordinator	J-PRISM	M	Trainer
35 N	1r. Hiromichi Kano				







Presentation

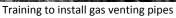


Group photo

#### d. Training on improvement of the dumpsite (Majuro)

1. Outline of the Workshop/ Tr	raininig						
Name	Training on improvement of the dumpsite						
		peration and Maintenance of landfill/dumpsite					
	Training	·					
Theme	5-2. Landfill Improvem	ent/Rehabilitation/construction	on				
Host organization	JICA						
Date	4th - 5th of March, 20	D13					
Place	Majuro, RMI						
Number of the participnats							
Cost							
Others							
2. Paticipants	Name	Title	Organization	Man/Female	Role		
1	Mr. Jorelik Tibon	General Manager	MAWC				
_	Mr. Teliphen Neamon	Community Outreach Officer	MAWC				
	Mr. Manuel Graham	Site Supervisor	MAWC				
4	Mr. Melton Amsa	Carpenter	MAWC				
5	Mr. Marton Johnny	Operator	MAWC				
6	Mr. David Janer	Technical Staff	MAWC				
7	Mr. Jitau Tokamaen	Operator	MAWC				
8	Wesley D. Lemari	Officer	KALG				
9	9 Katsuhiro Kamei JICA SV MAWC						
10	Akira Haseyama	Akira Haseyama JICA expert JICA					
11	Makoto Tsukiji	akoto Tsukiji Project Coordinator JICA					
12	Shun Nesaki		JICA				
13	Yasushi Matsufuji	Professor	Fukuoka Univ.				







Training of compaction



The gas venting pipe which installed

#### e. Pilot Project on Rehabilitation to Semi-aerobic landfill (Pohnpei)

1. Outline of the Workshop/ Ti	raininig				
Name	Pilot Project on Rehabilitation f	for Semi-aerobi	c landfill, Pohnpei, FSM		
Outline	Field work on the rehabilitation	of the dumpsit	e		
Туре	Training				
Theme	5-2. Landfill Improvement/Reh	abilitation/cons	truction		
Host organization	JICA				
Date	17th - 28th of June, 2013				
Place	Pohnpei, FSM				
Number of the participnats	20				
Cost					
Others					
2. Paticipants	Name	Title	Organization	Man/Female	Role
1	Ms. Patti Pedras		OEEM	F	
2	Mr. Charles Lohn		EPA,PNI	M	
_ ·	Mr. Nelson Henry Jr.		T&I, PNI	M	
	Mr. Etler Joseph		Madolenihmw Municipa	M	
ı v	mr. John Rensle		Madolenihmw Municipa	M	
ı v	Mr. Yamasda Ehpel		Kolonia Municipal Gov	M	
1	Mr. Yoma Edward		Sokehs MunicipalGove	M	
-	Mr. Francisco Sohl		Sokehs MunicipalGove	M	
•	Mr. Rainer Gilmete		Kitti Municipal Governi	M	
	Mr. Pius Yaropiy		PWMS,Pohn State,FSM	M	
	Mr. Timothy Sanel		PWMS,Pohn State,FSM	M	
·-	Mr. Domingko Mikel		PWMS,Pohn State,FSM	M	
1	Ms. Karen Wonders		PMU, National Governr	F	
II	Mr. Hairom Livae		DT&I, Kosrae	M	
1	Mr. Palikkun I. Sigrah		DT&I, Kosrae	M	
1	Mr. Johnny Killion		DT&PW, Chuuk	M	
1	Mr. Rudy Ernist		PW, Chuuk	M	
	Mr. Jesse Faimaw		Island Paradise, Yap	M	
19	Mr. Manuel Graham		MAWC, Majuro, RMI	M	
20	Mr. Wesley Lemari		PW, Kwajalein, RMI	М	







Field works

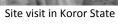
After improvement

Group photo

#### f. Regional Training of 3R (Palau)

1. Outline of the Workshop/ 1	Traininig						
		ning on Promotion of 3R ir	Palau				
	3R , but mainly CDL						
	Workshop	•					
,,	6-3. Recycle technolog	ĮV					
Host organization		<i>,</i>					
	4th to 7th of November	er. 2013					
	Koror, Palau	., 2013					
Number of the participnats	· ·						
		iding the cost of the disna	tch and travel fee of the trainers)				
		ing was cancelled due to t					
2. Paticipants	Name	Title	Organization	Man/Female	Role		
		Prinncipal Waste	Samoa Division of Environment and Conservation,	Many i emale	Note		
1	L Setoa Apo	Management Officer	Ministry of Natural Resources and Environment	M	Other Participant		
,	2 Gillian Shirley Malielegaoi		Samoa Legal Division, Ministry of Natural				
	Comman Smirrey Wanteregaon		Resources and Environment	F	Other Participant		
3	Patti Pedrus	Sustainable Development	Office of Environment and Emergency	F	Oth Douti -i t		
4	1 Christina Fillmad	Planner Executive Director	Management (OEEM)	· ·	Other Participant		
4	1 Christina Fillmed	Executive Director Pollution Control Program	Yap Environmental Protection Agency (EPA)	F	Other Participant		
5	Joe Fanafal	specialis I	Yap Environmental Protection Agency (EPA)	М	Other Participant		
6	5 Jesse Faimaw	President	yap Island Paradise Recycling Company	M	Other Participant		
			Yap Tax and Revenew Division, Office of		- and a discipulit		
7	7 Alice Phal	Tax collector	Administrative Services	F	Other Participant		
8	3 Ismael Mikel	Executive Director	Chuuk Environmental Protection Agency (EPA)	M	Other Participant		
9	Jason Saeson Poll	Deputy Director	Chuuk Environmental Protection Agency (EPA)	M	Other Participant		
10	) Jack H. Sham	Manager of Solid Waste	Chuuk Environmental Protection Agency (EPA)				
10	Jack II. Silaili	Manageemnt	Chack Environmental Protection Agency (EPA)	M	Other Participant		
11	L Albert Roby	Director	Pohnpei Environemtal Protection Agency (EPA)	M	Other Participant		
12	2 Casiano Shoniber	Mayor	Pohnpei Kolonia Town	M	Other Participant		
13	3 Thomas Pablo	Director	Pohnpei Finance, Pohnpei State Government	M	Other Participant		
14	Robert Jackson	Director	Kosrae Island Resource Management Authority				
		Environment Education	(KIRMA)	M	Other Participant		
15	Likiak A. Melander	Coordinator	KIRMA	М	Other Participant		
16	Fanelli Maria Grazia	Coordinator	Kosrae Micronesia Eco	F	Other Participant		
			Palau Solid Waste Management of Bureau of Public		Other rarticipant		
17	7 Calvin Ikesiil	Manager	Works, MPIIC (SWM-BPW)	M	Trainer		
18	Mengkur Rechelulk	Educator	SWM-BPW	M	Trainer		
10	John O. Ngiraked, Jr.	Droject Coordinator	Palau Solid Waste Management office, Koror State				
		Project Coordinator	(SWM-KSG)	M	Trainer		
20	) Selby P. Etibek	Manager	SWM-KSG	M	Trainer		
21	L Ngirbechat Arsenio	Administrative officer for	SWM-KSG		<b>T</b>		
		community		M	Trainer		
22	Leerotth Wilhelm	Waste Generation Rate Surveyor/Technical Assistant	SWM-KSG	M	Trainer		
72	3 Katsuo Fuji	Consultant	SWM-KSG	M	Trainer		
	Francisca Emilio	Compost Assistant	SWM-KSG	M	Trainer		
		•	Palau Division of National Treasury, Ministry of	141	aiiici		
25	Noria Manahane	Senior Annuitant	Finance	F	Trainer		
26	5 Joleen Speswngel	IT support Specialist	Palau Division of Custom, Ministry of Finance	F	Trainer		
	7 Alice Leney	Director	Pacific Reef Savers Ltd	M	Trainer		
	Risa Muranaka	Expert	J-PRISM	F	Resorce Person		
		Advisor, Waste Management		•			
29	Esther Richards	& Pollution Control	SPREP	F	Resorce Person		
30	) Shio Amano	Chief Advisor	J-PRISM Project Office, JICA	M	Resorce Person		
31	L Faafetai Sagapolutele	Assistant Chief Advisor	J-PRISM Project Office, JICA	M	Resorce Person		
32	2 Makoto Tsukiji	Project Coordinator	J-PRISM Project Office, JICA	M	Resorce Person		
	Pueina Parkinson	Project Assistant	J-PRISM Project Office, JICA	F	Other Participant		
	1 Yositaka Adachi	Governor	Koror State	M	Other Participant		
	Nobuaki Matsui	Resident Representative	JICA Palau Office	M	Other Participant		
	7 Takahisa Watanabe	Project Formulation Advisor	JICA FSM Office	M	Other Participant		
	7 Takahiro Hamagawa	JOCV	Pohnpei Environemtal Protection Agency (EPA)	M	Other Participant		
	3 Ayumi Kikuchi	JOCA	Kosrae KIRMA	F	Other Participant		
	Ayako Kondo	JOCA	Marshall Island EPA	F	Other Participant		
39	, ako kondo		marshall Island Et A	ı.	ouici ratticipatit		







Presentation



Group photo

#### g. Teacher Training on 4R promotion (Ebeye)

1. Outline of the Workshop/ To	raininig				
Name	Teacher Training or	1 4R promotion in Ebeye			
	Workshops for teac				
Туре	Workshop				
Theme	6-2. School/Comm	unity Program			
Host organization	KALG/JICA				
Date	5th - 7th Novembe	r, 2013			
Place	Ebeye, Kwajalein, R	IN			
Number of the participnats	54				
Cost					
Others					
2. Paticipants	Name	Title	Organization	Man/Female	Role
1	Mr. Wesley Lemari	Asst Director	KALG/PW	M	
2	Mr. Julian Alik	Chief Officer	EPA	M	
3	Mr. Teliphen Neamon		MAWC	M	
4	Mr. Jelton Anjain	Asst. Secretary	MOE	M	
5-55	other 50 teachers				







Lecture by C/P of EPA

Lecture by C/P of MAWC

School workshop

#### h. Do-Nou Techonology Training (Chuuk)

1. Outline of the Workshop/ Tra	aininia					
Name						
Outline		earning the maintenance of road with "Do-Nou" technology				
	Training	ance of road with Do-Not	a technology			
,,		ment/Rehabilitation/constr	ruction			
	· ' '	nent/kenabilitation/consti	ruction			
Host organization	17th ot 21st of Febura	n, 2014				
		ary, 2014				
	Chuuk, FSM					
Number of the participnats			foo of the tue:			
	, ,	ne cost of dispatch and trav	ver tee of the trainer)			
	The participants were	•	0	AA /5 1	0.1	
2. Paticipants	Name	Title	Organization	Man/Female	Role	
	Jonney Killion	Director	Chuuk PW	М	Other Participant	
_	Joanes Risin	Assistant Chief	Chuuk PW	М	Other Participant	
	Rudy Ernist	Road and Ground Supervisor	Chuuk PW	М	Other Participant	
· ·	Tuko Kutto	Road and Ground Helper	Chuuk PW	М	Other Participant	
_	Nitto Tok	Road and Ground Helper	Chuuk PW	M	Other Participant	
	Thompson Joseph	Truck Driver	Chuuk PW	M	Other Participant	
7	Joannes Chaniel	Carpenter	Chuuk PW	M	Other Participant	
8	Edwin Kool	Truck Driver	Chuuk PW	M	Other Participant	
9	CiseroWernes	Operator	Chuuk PW	M	Other Participant	
10	Davares David	Mechanic	Chuuk PW	M	Other Participant	
11	Jefy Mefy	Mechanic	Chuuk PW	M	Other Participant	
12	John Neo	Operator	Chuuk PW	M	Other Participant	
13	Jason Saeson Poll	Deputy Director	Chuuk EPA	M	Other Participant	
14	14 Jack H. Sham Manager of SWM Chuuk EPA M Other Pal				Other Participant	
15	Yoshinori Fukubayashi	Director	NGO Michibushin-bito	М	Trainer	
16	Shiro Amano	Chief	J-PRISM	М	Resorce Person	
17	Risa Muranaka	J-PRISM Expert	J-PRISM	F	Resorce Person	





Demonstration of how to make "Do-Nou" bags



Practical training at the site



Demonstration of how to make "Do-Nou" bags



Group photo



Demonstration of how to compact the "Do-Nou" bags

#### i. Study Trip to Yap (Chuuk State and Yap State)

1. Outline of the Workshop/ T	raininig					
	Name   Study Trip to Yap State					
			w to construct a new landfill in	Yap		
	Training	0		- 1		
Theme	5-2. Landfill Improvem	ent/Rehabilitation,	/construction			
Host organization	JICA					
	8th to 9th of Septembe	er, 2014				
Place	Yap, FSM					
Number of the participnats	13					
Cost	US\$4,607					
Others	One participant from C	Chuuk paid his own	expense himself			
2. Paticipants	Name	Title	Organization	Man/Female	Role	
1	Krescio BILLY	Consultant	Chuuk Planning office, Department of Administrative Services	М	Other Participant	
2	Roseller VINLUAN	Engineer	Chuuk Planning office, Department of Administrative Services	M	Other Participant	
3	Tos NAKAYAMA	Deputy Director	Chuuk Dept. of Transportation and Public Works	М	Other Participant	
4	Curtis Sos	Chief	Chuuk Sanitation office, Dept. of Public Health	М	Other Participant	
5	Mano Maleichog	Deputy Director of DP	'Yap DPW&T	М	Other Participant	
6	James Sarmog	Chief of Contracts & E	ı Yap DPW&T	М	Other Participant	
7	Manny Mendoza	Engineer of Contracts	Yap DPW&T	M	Other Participant	
8	Jesse Waayan	Manager of SWM	Yap DPW&T	M	Other Participant	
9	Christina Fillmed	Director of EPA	Yap EPA	М	Other Participant	
10	10 Peter Fattamag Pollution Control Spec Yap EPA M Other					
11	Joe Fanafal	Pollution Control Spe	(Yap EPA	М	Other Participant	
12	Akira Haseyama	Chief	J-PRISM	М	Resorce Person	
13	Risa Muranaka	J-PRISM Expert	J-PRISM	F	Resorce Person	



Site Visit (landfill)



Site Visit (landfill)



Group photo



Presentation by Yap trainer



Discussion



Certificate from Yap trainers to Chuuk trainees

### j. Training on integrated SWM (Ebeye)

1. Outline of the Workshop/ Ti	raininig					
Name	Training on Integrated	raining on Integrated Solid Waste Management in Ebeye				
		te collection and landfill ma				
	Workshop					
Theme	4-1. Waste Collection	a & Transportation				
Host organization	KALG/JICA					
Date	31th of October - 7t	h November, 2014				
Place	Ebeye, Kwajalein, RMI					
Number of the participnats						
Cost						
Others						
2. Paticipants	Name	Title	Organization	Man/Female	Role	
1	Mr. Wesley Lemari	Asst Director	KALG/PW	M		
2	Mr. Jesse L Riketa	Acting COA	KALG	M		
3	Mr. Ranny Lemari	Collection crew& operator	KALG/PW	M		
4	Mr. Henner Noka	Collection crew	KALG	M		
5	Mr. Randy Bajo	Operator	KALG	M		
6	Mr. Kannel Bemjamin	Collection crew	KALG/PW	M		
7	Mr. Clarence Luther	Collection crew	KALG/PW	M		
8	Mr. Georgeton Jakabat	Collection crew	KALG/PW	M		
9	Mr. Malal Henson	Operator	KALG/PW	M		
10	Mr. Whitney deBrum	Education and awareness	EPA	M		
11	mr. Odrikawa Jatios	Deputy GM	EPA	M		
12	Mr. Julian Reimers	W/S manger	KAJUR	M		
13	Mr. Reonald Phillip Janitor MOH M					
14	Mr. Randy Calep Pipe-w KAJUR M					
15	fr. Oling deBrum Director PHC MOH M					
16	Mr. Shawnalynn Loeak	Health educator	MOH	М		
17	Mr. Romeo Alfred	GM	KAJUR	М		
18	Mr. Mario Viloria	Finance Director	KALG	M		







Workshop Discussion Group photo

#### k. In-Country Training (Palau)

1. Outline of the Workshop/ Tra	ininig				
· · · · · · · · · · · · · · · · · · ·	In-country trainig in Pa	alau			
	Training				
Type	Training				
	1-1. Waste Generation	n/Characterization	on Study		
Host organization	BPW, KSG, JICA		•		
	10th to 14th of August	t, 2015			
Place	Palau Melekeok State				
Number of the participnats	30				
Cost	about 6000USD shared	d by BPW and JI	CA		
Others	In addition to above co	ost KSG provided	transportation of the gar	bage bags	
2. Paticipants	Name	Title	Organization	Man/Female	Role
1	Dudley Uro		Airai State	M	Other Participant
2	Sengebau Masami		Airai State	F	Other Participant
3	Pamfila Techur		Airai State	М	Other Participant
4	Dennis Omengkar		Melekeok State	М	Other Participant
5	Standford Blaluk		Melekeok State	М	Other Participant
6	Forster Ngirturong		Aimeliik State	М	Other Participant
7	Salui Inacio		Ngiwal State	М	Other Participant
8	Stephanie Lorenzo		Ngchesar State	F	Other Participant
9	Ismael Renguul		Ngiwal State	М	Other Participant
10	Cluster lechad		Ngaraard State	М	Other Participant
11	Mercy Beketaut		Ngardmau State	F	Other Participant
12	Matsuda Ngiraikelau		Ngeremlengui State	М	Other Participant
13	Inabo Secharmidal		Ngeremlengui State	М	Other Participant
14	Clansen lechad		Ngatpang State	М	Other Participant
15	Khan Cruz		Peleliu State	М	Other Participant
16	Noel Ngedebuu		Angaur State	М	Other Participant
17	Jesse Marcil		Angaur State	М	Other Participant
18	Toshio Kelmal		Kayangel State	М	Other Participant
19	Colombus Edeboi		Kayangel State	М	Other Participant
20	Samuel Bemar		Sonsorol State	М	Other Participant
21	Bernard John		Sonsorol State	М	Other Participant
22	Calvin Ikesiil		SWM-BPW	М	Trainer
23	Mengkur Rechelulk		SWM-BPW	М	Trainer
24	Jessica Emesiochel		SWM-BPW	F	Resorce Person
25	Selby P. Etibek		SWM-KSG	М	Resorce Person
26	Ferris Baulechong		SWM-KSG	М	Resorce Person
27	Leeroth Wilhelm		SWM-KSG	М	Resorce Person
28	Rondy Ronny		SWM-KSG	М	Resorce Person
29	Keiko Kitahara	JOCV	JICA/ SWM-BPW	F	Resorce Person
30	Risa Muranaka	Expert	J-PRISM	F	Resorce Person







Waste segregation

Presentation

Group photo

# 5.2 Lists of the Products developed during the Project

#### a. FSM

No	City	Type of Report	Name of Report	Note	Date Finalized	Document Prepared by
1	Chuuk	Survey report	Waste Stream Survey	Outline waste stream including conducting incoming waste survey at dumpsite	5-11	J-PRISM
2	Chuuk	State Strategy	State Solid Waste Management Strategy	State strategy was developed and endorsed by the Government of Chuuk State.	11-12	Chuuk EPA
3	Chuuk	Action Plan	Action Plan of National Solid Waste Management Plan	Action Plan was developed and endorsed by the Government of Chuuk State.	11-12	Chuuk EPA
4	Chuuk	Survey report	Time and Motion study	Time and Motion Study was conducted for one week in Weno.	11-12	J-PRISM
5	Kosrae	Strategy	Kosrae State Solid Waste Management Plan 2011- 2015	This plan was already endorsed by governor in 2011.	2011	KIRMA and DT&I
6	Kosrae	Study report	Time and motion study on waste collection	Time and motion study on collection system in Lelu and Tafunsak, Kosrae	10-12	KIRMA
7	Kosrae	Education	Trash in our Island"(in English) and "Trash on Our Island"(in Kosraean)	Educational materials for school 4Rs education	2-13	KIRMA, DT&I and Micronesia Eco Inc.
8	National	Strategy	FSM National Solid Waste Management Strategy 2012-2016	Draft of NSWMS, not endorsed yet.	3-13	OEEM
9	Pohnpei	Study report	Time and motion study on waste collection in Pohnpei, FSM	Time and motion study on collection system in Kolonia and Nett, Pohnpei	12-12	EPA PNI
10	Pohnpei	Strategy	Clean Pohnpei , 2012- 2016, A Solid Waste Management Strategic Plan for Pohnpei State	Draft of State SWMS, not endorsed yet.	3-13	EPA PNI
11	Pohnpei	Presentation	A Solid Waste Management Strategic Plan For Pohnpei State Federated States of Micronesia	Presentation that delivered by EPA specialist	3-13	EPA PNI
12	Pohnpei	Pilot project	Landfill Rehabilitation Pilot Project: REPORT	OEEM reported result of pilot project on rehabilitation of dump site.	7-13	OEEM
13	Yap	State Strategy	State Solid Waste Management Strategy	State strategy was developed.	3-13	Yap EPA
14	Yap	Action Plan	State Solid Waste Management Action Plan	Action Plan of the Strategy was developed.	3-13	Yap EPA
15	Yap	Awareness	Poster	For promotion of appropriate waste disposal, 80 poster was designed by counterparts and distributed to schools.	6-13	Yap EPA
16	Yap	Awareness	Sticker	For promotion of appropriate waste disposal, 300 sticker was designed by counterpart and distributed to community and schools.	6-13	Yap EPA
17	Yap	Awareness	Recycling bins	For promotion of appropriate waste disposal, 64 recycling bins were made by counterparts and installed in all schools and public places.	6-13	Yap EPA
18	Yap	Awareness	Presentation	For community workshop, the presentation for promotion of appropriate waste disposal was developed by counterparts.		Үар ЕРА

19	Chuuk	Training	Road Rehabilitation Training Report	The training held from 17th of Feb-21st of Feb, 2014 in Chuuk State.	2-14	EPA, DT&PW, J- PRISM
20	Chuuk	Training Report	Road Rehabilitation Training Report	The training conducted in February 2014	2-14	JICA Epert (SWM D)
21	Yap	Construction	New landfill	A new landfill was constructed	2-14	DPW&T, EPA
22	Pohnpei	Strategy	Clean Pohnpei , 2012- 2016, A Solid Waste Management Strategic Plan for Pohnpei State	State SWMS with endorsement by State Governor.	2-14	EPA PNI
23	Yap	Awareness	Poster	"Improving how we manage our waste in Yap"	9-14	Yap EPA
24	Kosrae	Education Materials		Video Materials to be used on school 4Rs education	10-14	KIRMA KSA
25	Pohnpei	MOU	MOU between EPA and Municipalities	MOU on cooperation frame of waste collection system	2-15	EPA PNI
26	Pohnpei	Plan/Presenta tion	Improvement Plan on the dumpsite	Draft Drawing on Improvement Plan of the dumpsite	2-15	PWMS PNI
27	Chuuk/ Yap	Training Report	Activity Report of Study Trip	Report of Study trip of Chuuk C/P to Yap States	9-14	J-PRISM
28	Yap	Green Bag	Green bag for promoting "My bag"	2250pieces	11-14	Yap EPA&OEEM
29	Yap	Construction	Report of rehabilitation of the existing dumpsite in Yap	Improvement of the existing dumpsite	2-15	J-PRISM
30	Chuuk	Awareness	Recycling Bins (Wire bins)	21pieces	3-15	Chuuk EPA
31	OEEM	Document	(DRAFT)Good Practices for Solid Waste Management in the FSM	Document to share the good practices among FSM states	3-15	OEEM
32	OEEM	Document	(DRAFT)Leachate Guidelines	Guideline for management and monitoring on the leachate at dump/landfill sites	3-15	OEEM
33	Kosrae	Report	Kosrae Recycling Report	Recycling report issued by the recycling operator in Kosrae	3-15	Micronesia Eco, Koarae
34	OEEM	Strategy	National Solid Waste Management Plan 2016- 2020	National Strategy	5-15	OEEM
35	Yap	Report	Report of WACS in Yap	Survey report of the WACS in April 2015	4-15	J-PRISM
36	Chuuk	Awareness	Sign Boards	More than 6 Notice boars "No Littering" "Don't dumps here"	5-15	Chuuk EPA/DT&PW
37	Chuuk	Report	Report of WACS in Chuuk	Survey report of the WACS in May 2015	5-15	J-PRISM
38	Yap	Report	Report of post survey on the Awareness	Second survey on the public to understand the effectiveness of the awareness-raising activities conducted	11-15	J-PRISM
39	Chuuk	Action Plan	Facility and operation plan of Marina dumpsite	The operation plan of the Marina dumpsite	11-15	J-PRISM
40	Yap	Report	Monitoring data of leachate	Monitoring data of leachate		Yap EPA
41	Yap	Report	Monitoring data of operation of landfill	Monitoring data of operation of landfill		Yap EPA
42	Yap	Report	Incoming data of waste at the landfill	Incoming data of waste at the landfill		Yap DPW&T
43	Pohnpei	Field work	The 2nd Cell project at the dumpsite	The excavation and expansion of the 2nd cell at the dumpsite was conducted. Weekly progress reports were submitted to the JICA expert to monitor the progress.	Nov-15 - Jan-2016	Pohnpei EPA, T& PWMS
44	Pohnpei	Workshop	The workshop on the waste collection	The workshops on improvement of the waste collection was conducted to learn/share the information on	11-16	Pohnpei EPA, T& PWMS, Municipalities

				the methods, knowledge and information on the municipal waste collection services.		
45	Kosrae	Survey	The lifespan survey at the landfill site	The lifespan survey at the landfill site was conducted.	11-15	Kosrae KIRMA, DT&I

#### b. Palau

No	City	Type of Report	Name of Report	Note	Date Finalized	Document Prepared by
1	Koror	Action Plan	Action Plan of National Solid Waste Management Plan	Action Plan of the National Solid Waste Management Plan was revised.	7-12	Solid Waste Management Office of Bureau of Public Works (SWM-BPW)
2	Koror	Survey report	Study on Landfill Management (Jan, 2013) M-Dock Landfill in Palau	Survey was conducted with counterparts of Bureau of Public Works.	1-13	J-PRISM
3	Koror	Training	3R Regional Training in Palau	Held in Nov. 2013	11-13	Solid Waste Management Office of Koror State Government (SWM-KSG), SWM-BPW, J-PRISM
4	Koror	Education	Manual of Composting	Manual of the composting in Koror State	11-13	SWM-KSG
5	Koror	Education	Manual of CDL	Manual of CDL in Palau	11-13	SWM-BPW, SWM-KSG
6	Koror	Education	Koror State Solid Waste Management	Information about SWM activities in Koror State.	11-13	SWM-KSG
7	Koror	Awareness	T-shirt	This material was developed for the 3R regional training in Palau	11-13	SWM-KSG
8	Koror	Awareness	Brochure	Information about SWM activities in Koror State.	11-13	SWM-KSG
9	Koror	Awareness	DVD	Including the workshops and presentation in the 3R regional training	11-13	SWM-BPW, SWM-KSG
10	Koror	Action Plan	Awareness Action Plan	For the public awareness.	12-13	PEEC
11	Koror	Awareness	3R T-shirt for Earth Day	50 pieces	4-14	SWM-BPW
12	Koror	Awareness	3R Face towel for Earth Day	200pieces	4-14	SWM-BPW
13	Koror	Awareness	Recycling Bin	1 set installed at airport	8-15	SWM-BPW
14	Koror	Survey report	CONTAINER DEPOSIT LEGISLATION ANNUAL REPORT FY 2011-2014		3-15	SWM-BPW
15	Koror	Closure Plan	Closure plan of M-Dock landfill		8-15	J-PRISM
16	Koror	Training report	Report of the In-country training	Training report conducted in August 2015	8-15	J-PRISM
17	Koror	Action Plan	Revised Action Plan of the NSWMP	Revised Action Plan. NSWMP itself will be revised by Feb. 2016.	12-15	SWM-BPW
18	Koror	Report	CONTAINER DEPOSIT LEGISLATION ANNUAL REPORT FY2011—2015		12-15	SWM-BPW

#### c. Marshall Islands

No	City	Type of Report	Name of Report	Note	Date Finalized	Document Prepared by
1	Majuro	Strategy	National Waste Management Strategy 2012-2016 and Action Plan (draft 21 June, 2012)	Draft of NSWMS, not endorsed yet.	6-12	ОЕРРС
2	Majuro	Education	Trash on Our Island (Booklet and video materials)	Education materials for 3R education in school or community.	10-12	MAWC, EPA, OEPPC
3	Majuro	Education	Presentation "WASTE IS THE BIG PROBLEM IN THE Dump Site TO YOU KNOW THAT?"	This presentation has been using on School 3Rs education.	10-12	MAWC
4	Majuro	Education	Report on J-PRISM Teacher Training Program	EPA conducted teacher training on Jan 2013.	1-13	EPA
5	Majuro	Presentation	Presentation at JCC meeting, Feb 28, 2013	MAWC CP delivered presentation at JCC meeting in Feb 28, 2013.	2-13	MAWC
6	Majuro	Strategy	National Waste Management Strategy 2012-2016 and Action Plan (draft March, 2014)	Latest draft of NSWMS waiting approval by cabinet	3-14	OEPPC
7	Majuro	Presentation	Presentation at JCC meeting, Feb 7, 2014	CPs delivered presentation at JCC meeting in Feb 7, 2014.	2-13	MAWC, EPA, OEPPC
8	Majuro	Survey	Waste generation and composition survey conducted by MAWC	MAWC conducted survey on waste generation volume and composition.	10-13	MAWC
9	Ebeye	Public Awareness Material	Posters	Posters to promote the public awareness activities	2-15	KALG
10	Majuro	Monitoring	SIX MONTHLY REPORTING TEMPLATE RMI SOLID WASTE MANAGEMENT STRATEGY AND ACTION PLAN	Template of the 6 monthly report	2-15	ОЕРРС
11	Majuro and Ebeye	Project report	Report of trainer dispatch on Occupational Health and Safety (OHS) in RMI	Report of the OHS workshop	12-15	Mr. Rouhit, Lautoka City Council and Coordinator of J- PRISM
12	Ebeye	Action Plan	Action Plan on Clean School Program in 2015 by schools	The Clean School Program	11-15	Participated schools
13	Ebeye	Survey	Time & Motion Study on waste collection	The time and motion study on the new waste collection vehicles/system was conducted by KALG CPs.	11-15	KALG

# 6 JCC meetings

Joint Coordinating Committee (JCC) was established to examine the major issues and make consensus through sharing the progress of the project activities. Also the annual activity plan was agreed in the JCC.

In FSM, State level of JCC was held in each State, then National level of JCC was held annually.

The date of the JCC from the first JCC and the JCC members who attended the final JCC were listed below.

#### 6.1 FSM National Level of JCC

#### a.1.JCC members and stakeholders

JCC members	Organization	Title
Mr. Andrew R. Yatilman	OEEM	Director (Project Director)
Ms. Christina Fillmed	Yap State EPA	Director (Project Manager)
Mr. Ismael Mikel	Chuuk State EPA	Director (Project Manager)
Mr. Henry Susaia	Pohnpei State EPA	Acting Director (Project Manager)
Mr. Robert Jackson	Kosrae State EPA	Director (Project Manager)
Mr. Jonathan Marmar	DPWT	Director
Mr. Tosiwo Nakayama Jr.	DT&I/PW	Director
Mr. Weston Luckymis	DT&I/PW	Director
Mr. Faafetai Sagapolutele	J-PRISM	Assistant Chief Advisor
Mr. Takahisa Watanabe	JICA	Project Formulation Adviser
Mr. Akira Haseyama	J-PRISM	Expert (RMI, Kosrae, Pohnpei)
Ms. Risa Muranaka	J-PRISM	Expert (Belau, Yap, Chuuk)
Stakeholders	Organization	Title
Mrs. Cindy Ehmes	OEEM	Assistant Director
Mr. Brendy Carl	DFA	Foreign Service Officer
Mr. Gillian G. Doone	ODA	Administrator
Mr. Phillip S. Gianan	TC&I	Civil engineer
Ms. Patricia Pedrus (Patti)	OEEM	Sustainable Development Planner
Ms. Stacy Yleizah	DFA	Foreign Service Officer
Mr. Dayn Darin lehsi	PMU	Quality Assurance Representative
Mr. Rusty Carlos	Pohnpei State EPA	Tech. II
Mr. Pius Yaropiy	PWMS	Assistant Manager
Mr. Peterson Anson	PNI T&I	GIS Specialist
Mr. Tharston T. Sanel	PWMS	Accountant
Mr. Jack Sham	Chuuk State EPA	Solid Waste Management Coordinator
Mr. Curtis Sos	Chuuk State DOH	Chief of Sanitation
Mr. MJ Martin	Chuuk State DOH	Health Inspector
Mr. Westcott Panuelo	Trash Kings	Manager
Mr. Masaki Sakai	Embassy of Japan	Ambassador

#### a.2.Dates of JCC

1 <sup>st</sup> JCC	15 <sup>th</sup> of March, 2012
2 <sup>nd</sup> JCC	14 <sup>th</sup> of March, 2013
3 <sup>rd</sup> JCC	27 <sup>th</sup> of February, 2014
4 <sup>th</sup> JCC	4 <sup>th</sup> of March, 2015
5 <sup>th</sup> JCC	17 <sup>th</sup> of December, 2015

#### 6.2 Kosrae State

### a.1.JCC members/participants

Name	Organization	Title
Mr. Robert Jackson	KIRMA	Director (Project Manager)
Mr. Weston Luckymis	DT&I	Director
Mr. Hairom Livaie	DT&I	Administrative officer
Mr. Likiak A. Melander	KIRMA	Env. Education Coordinator
Mr. Kiobu Luey	KIRMA	Inspector
Mr. Akira Haseyama	J-PRISM	Expert
Ms. Ayako Yosida	J-PRISM	Project Coordinator
Mr. Morio Nojiri	JICA SV/DT&I	Senior Volunteer
Ms. Arisa Izumidate	JICA JOCV/KIRMA	Volunteer

#### a.2.Dates of JCC

1 <sup>st</sup> JCC	16 <sup>th</sup> of February, 2012
2 <sup>nd</sup> JCC	14 <sup>th</sup> of February, 2013
3 <sup>rd</sup> JCC	13 <sup>th</sup> of February, 2014
4 <sup>th</sup> JCC	13 <sup>th</sup> of February, 2015
5 <sup>th</sup> JCC	4 <sup>th</sup> of December, 2015

### 6.3 Pohnpei State

### a.1.JCC members/participants

Name	Organization	Title
Mr. Henry Susaia	Pohnpei State EPA	Acting Director (Project Manager)
Mr. Ricky Leben	Pohnpei State T&I	Acting Administrator
Mr. Joseph Victo	Pohnpei State EPA	
Mr. Rusty Carlos	EPA	Tech. II
Mr. Brad Soram	Pohnpei State EPA	Specialist
Mr. Clinton Etse	Pohnpei State EPA	
Mr. Pius Yaropiy	PWMS	Assistant Manager
Mr. Peterson Anson	PNI T&I	GIS Specialist
Ms. Janet Assey	Kolonia Municipal Government	Finance
Mr. Francisco Sohl	Sokehs Municipal Government	Assistant A.O.
Mr. Rainer Gilwete	Kitti Municipal Government	Public Work
Mr. Rodney Loyola	Nett Municipal Government	Director of R&D
Mr. Johan Jay Welson	U Municipal Government	Project Coordinator
Mr. Pius Yaropiy	PWMS	Project Supervisor
Mr. Faafetai Sagapolutele	J-PRISM	Assistant Chief Advisor
Mr. Akira Haseyama	J-PRISM	Expert
Mr. Risa Muranaka	J-PRISM	Expert
Mr. Takahisa Watanabe	JICA FSM office	PFA
Ms. Judy Robert	JICA FSM office	Program Officer
Mr. Yuki Umemura	EPA/JOCV	JOCV

#### a.2.Dates of JCC

1st JCC	7 <sup>th</sup> of February, 2012
2nd JCC	12 <sup>th</sup> of March, 2013
3rd JCC	20 <sup>th</sup> of February, 2014
4th JCC	27 <sup>th</sup> of February, 2015
5th JCC	15 <sup>th</sup> of December, 2015

#### 6.4 Chuuk State

#### a.1.JCC members/partticipants

Name	Organization	Title
Mr. Ismael Mikel	Chuuk State EPA	Director (Project Manager)*
Mr. Tos Nakayama	DT&PW	Director
Mr. Kayo Noket	Weno Municipality	Deputy Mayor
Mr. Jack Sham	EPA	Manager of SWM
Mr. Atauo Ansin	Health Service	Maintenance
Mr. Elmud Yleizah	EPA	Lab. technician
Mr. Kichy Joseph	JICA Chuuk State In charge	Special Assistant to Governor
Mr. Atsushi Nagata	EPA/JICA	JICA volunteer
Mr. Curtis Sos	Health Service	Chief of Sanitation
Mr. Joanes Risin	DT&PW	Assistance chief
Mr. Henning Narruhn	DT&PW	Collection crew
Mr. John Newo	DT&PW	Equipment operator
Mr. Friden Ewen	DT&PW	Collection crew
Mr. Tavares David	DT&PW	Mechanic
Mr. Arvchy Meika	DT&PW	Electrician
Mr. Krescio Billy	Planning Office	Civil Engineer
Mr. Jr. Dave vinluan	Planning Office	State Civil Highway Engineer
Mr. MJ Martin	Environmental Health and Sanitation	Health Inspector
Mr. Marcellus Akapito	Chuuk Conservation Society	Executive Director
Mr. Sam A. Bisalen	Public Safety	Engineer Captain
Ms. Ayako Yoshida	J-PRISM	Project Coordinator
Mr. Akira Haseyama	J-PRISM	Expert
Ms. Risa Muranaka	J-PRISM	Expert

<sup>\*</sup>JCC members but could not attend the 5th JCC

#### a.2.Dates of JCC

1 <sup>st</sup> JCC	30 <sup>th</sup> of January, 2012
2 <sup>nd</sup> JCC	1 <sup>st</sup> of March, 2013
3 <sup>rd</sup> JCC	12 <sup>th</sup> of February, 2014
4 <sup>t</sup> h JCC	4 <sup>th</sup> of February. 2015
5 <sup>th</sup> JCC	25 <sup>th</sup> of November, 2015

# 6.5 Yap State

### a.1.JCC members/participants

Name	Organization	Title
Ms. Christina Fillmed	EPA	Executive Director (Project Manager)
Mr. Jonathan Marmar	DPW&T	Director
Mr. Manuel Maleichog	DPW&T	Deputy Director
Mr. Julius Tun	Office of Administrative Services	Acting Director
Mr. Jesse W. Sigeyog	DPW&T	Refuse collection program manager
Ms. Anastasia A. R Perogolo	EPA	Water Quality Program Technician
Mr. Jesse Faimaw	Island Paradise Company	Manager
Mr. Masatoshi Katayama	DPW&T	JICA SV
Ms. Ayako Yoshida	J-PRISM	Project Coordinator
Ms. Risa Muranaka	J-PRISM	Expert

<sup>\*</sup>JCC members but could not attend the 5th JCC

#### a.2.Dates of JCC

1 <sup>st</sup> JCC	26 <sup>th</sup> of February, 2012
2 <sup>nd</sup> JCC	14 <sup>th</sup> of February, 2013
3 <sup>rd</sup> JCC	3 <sup>rd</sup> of February, 2014
4 <sup>th</sup> JCC	26 <sup>th</sup> of February, 2015
5 <sup>th</sup> JCC	16 <sup>th</sup> of November, 2015

#### 6.6 Palau

### a.1.JCC memmers/participants

Name	Organization	Title
Minister Charles I. Obichang	MPIIC	Minister (Chair)
Mr. Brian Melairei	SWM-BPW	Director (Project Director)
Mr. Calvin Ikesiil	SWM-BPW	Chief (Project Manager)
Ms. Jessica Shizuko Emesiochel	SWM-BPW	Coordinator
Mr. Vernon B	SWM-BPW	Landfill supervisor
Ms. Roxanne Siual Blesam	EQPB	Executive Officer
Mr. John O. Ngiraked, Jr.	SWM-KSG	SWM coordinator
Mr. Selby Etibek	SWM-KSG	Manager
Mr. Katsuo Fuji	SWM-KSG	Consultant
Ms. Noria Manahane	Ministry of Finance	Chief Division of Treasury
Mr. Nobuaki Matsui	JICA Palau Office	Resident Representative
Mr. Faafetai Sagapolutele	J-PRISM	Assistant Chief Advisor
Mr. Akira Haseyama	J-PRISM	Expert
Ms. Risa Muranaka	J-PRISM	Expert

#### a.2.Dates of JCC

1 <sup>st</sup> JCC	10 <sup>th</sup> of February, 2012
2 <sup>nd</sup> JCC	7 <sup>th</sup> of February, 2013
3 <sup>rd</sup> JCC	22 <sup>nd</sup> of January, 2014
4 <sup>th</sup> JCC	11 <sup>th</sup> of March, 2015
5 <sup>th</sup> JCC	1 <sup>st</sup> of December, 2015

### 6.7 Marshall Islands

### a.1.JCC members/participants

Name	Organization	Title
Ms. Justina R. Langidrik	OCS/Chair of JCC	Interim Chief Secretary (Chair)
Mr. Wilbur Allen	MPW/Project Director	Secretary
Mr. Jorelik Tibon	MAWC/ Project Manager	General Manager
Mr. Warwick Haris	OEPPC	Deputy Director
Mr. Julius Lucky	EPA	Deputy General Manager
Ms. Jessica Zebedee	EPA	Chief Education and Awareness Officer
Mr. Gee Bing	PSS	Associate Commissioner
Mr. Teliphen Neamon	MAWC	Education & Awareness
Mr. Wesley Lemari	Kwajalein Atoll L.G.	Assistant Director of Public Works
Mr. Akira Haseyama	J-PRISM	Expert, J-PRISM
Mr. Shiro Amano	JICA/ J-PRISM	Chief Advisor
Mr. Faafetai Sagapolutele	J-PRISM	Assistant Chief Advisor
Mr. Makoto Tsukiji	J-PRISM	Project Coordinator
Ms. Ayako Yoshida	J-PRISM	Project Coordinator
Mr. Hideki Tomobe	JICA RMI Office	Resident Representative
Mr. Hiroyuki Negoro	JICA	Volunteer (EPA)
Mr. Tim Hartley	SPREP	PacWaste Project Officer
Ms. Ma Bella Guinto	SPREP	Solid Waste Management Advisor

#### a.2.Dates of JCC

1 <sup>st</sup> JCC	29 <sup>th</sup> of February, 2012
2 <sup>nd</sup> JCC	28 <sup>th</sup> of February, 2013
3 <sup>rd</sup> JCC	7 <sup>th</sup> of February, 2014
4 <sup>th</sup> JCC	30 <sup>th</sup> of January, 2015
5 <sup>th</sup> JCC	13 <sup>th</sup> of November, 2015