Pacific Island Countries

Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (J-PRISM II) (Group 2)

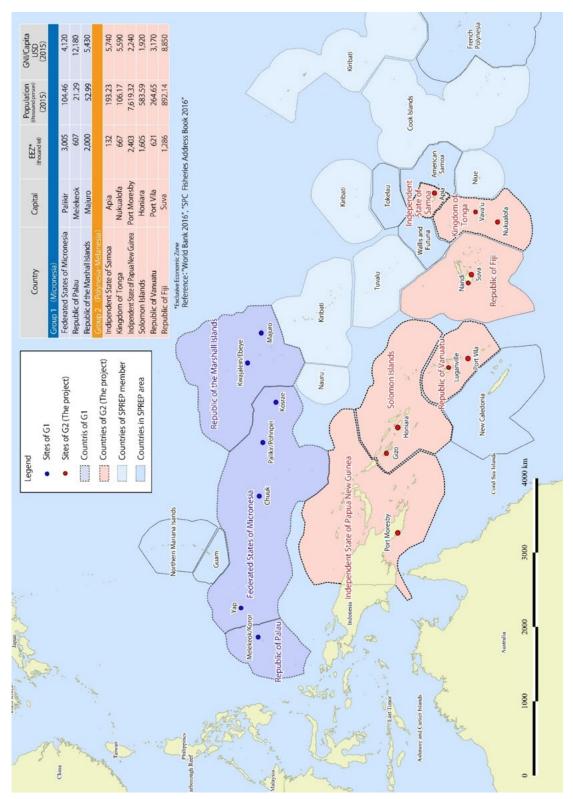
Project Completion Report (3rd Term)

September 2022

Japan International Cooperation Agency(JICA)

Kokusai Kogyo Co., Ltd. Yachiyo Engineering Co., Ltd.





Target area of the Project

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Abbreviations

Abbrev	English	
3R	Reduce, Reuse, Recycle	
CDS	Container Deposit Scheme	
CEO	Chief Executive Officer	
CSP	Clean School Program	
C/P	Counterpart	
EIA	Environmental Impact Assessment	
F/S	Feasibility Study	
GPS	Global Positioning System	
JET	JICA Expert Team	
ILO	International Labor Organization	
JCC	Joint Coordination Committee	
JICA	Japan International Cooperation Agency	
J-PRISM	Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries	
J-PRISM II	Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Pahase 2	
M/M	Minutes of Meeting	
MOU	Minutes of Understanding	
MRF	Material Recovery Facility	
NGOs	Non-Governmental Organizations	
NSWMS	National Solid Waste Management Strategy	
OJT	On the Job Training	
PDCA	Plan – Do – Check - Act	
PDM	Project Design Matrix	
PET	Polyethylene terephthalate	
PO	Plan of Operation	
R/D	Record of Discussions	
SPREP	Secretariat of the Pacific Regional Environment Programme	
SWM	Solid Waste Management	
TOR	Terms of Reference	
UNDP	United Nations Development Programme	
WACS	Waste Amount and Composition Survey	
WG	Working Group	
WHO World Health Organization		
Independent State of Samoa		
DEC	Division of Environment and Conservation	
MNRE	Ministry of Natural Resource and Environment	

Abbrev	English	
Kingdom of Tonga		
MEIDECC	Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications	
WAL	Waste Authority Limited	
Republic of Fiji		
DOE	Department of Environment	
DLG	Department of Local Government	
NWMPCS	National Waste Management and Pollution Control Strategy	
RLAs	Rural Local Authorities	
WMPC	Waste Management and Pollution Control	
Independent State of	Papua New Guinea	
CEPA	Conservation and Environment Protection Agency	
DNPM	Department of National Planning and Monitoring	
NCD	National Capital District	
NCDC	National Capital District Commission	
PGK	Kina (Papua New Guinea currency)	
PNG	Papua New Guinea	
ULLG	Urban Local Level Government	
Solomon Islands		
HCC Honiara City Council		
MECDM	Ministry of Environment, Climate Change, Disaster Management an Meteorology	
MHMS	Ministry of Health and Medical Services	
Republic of Vanuatu		
DEPC	Department of Environmental Protection and Conservation, Ministry of Climate Change Adaptation, Meteorology & Geo-Hazards, Environment, Energy and Disaster Management	
DLA	Department of Local Authorities, Ministry of Internal Affaires	
DUAP	Department of Urban Affairs and Planning, Ministry of Internal Affaires	
PSC	Public Service Commission	
PVCC	Port Vila City Council	
NWMPCS	National Waste Management and Pollution Control Strategy	
LMC	Luganville Municipal Council	
LPB	Liquid Paper/Packaging Board	
MIPU	Ministry of Infrastructure and Public Utilities	
WMEHD	Waste Management, Environmental and Health Division	
WMO	Waste Management Officer	

1 Outline of J-PRISM II

1.1 Scope of the Project

1.1.1 Target countries of the Project

Nine countries (Republic of Palau, Federated States of Micronesia, Republic of Martial, Independent States of Papua New Guinea (PNG), Solomon Islands, Republic of Vanuatu, Republic of Fiji, Kingdom of Tonga, Independent States of Samoa)

Group 2 covers PNG, Solomon, Vanuatu, Tonga, Samoa, and Fiji.

1.1.2 Target waste

Municipal solid waste¹ such as domestic / commercial waste shall be targeted in principle.

1.1.3 Counterpart organizations

Nan	Name of Region/Country C/P Organization		
—	Pacific region	Secretariat of the Pacific Regional Environment Programme (SPREP) Waste Management and Pollution Control	
Micro	onesia(Northern area	of the Project)	
1	Republic of Palau	Ministry of Public Infrastructure, Industries and Commerce (MPIIC), Bureau of Public Works-Solid Waste Management (BPW-SWM), Koror State Government-Solid Waste Management (KSG-SWM)	
	The Federated States of Micronesia	Office of Environment & Emergency Management (OEEM), Yap: Environmental Protection Agency (EPA)/Department of Public Works and Transportation (DPW&T)	
2		Chuuk: Environmental Protection Agency (EPA)/Department of Transportation and Public Works (DT&PW)	
		Pohnpei: Environmental Protection Agency (EPA)/Office of Transportation and Infrastructure (T&I)	
		Kosrae: Environmental Protection Agency (EPA)/Department of Transportation and Infrastructure (DT&I)	
3	Republic of Marshall Islands	(Prime) Ministry of Public Works (MPW), Majuro Atoll Waste Company (MAWC), Kwajalein Atoll Local Government (KALGOV)	
		(Sub) Office of Environment Planning and Policy Coordination (OEPPC), Environmental Protection Authority (EPA)	
Work target area: Melanesia + Polynesia (Southern area of the Project)			
4	Independent State of Papua New Guinea	Conservation and Environment Protection Agency (CEPA), National Capital District Commission (NCDC)	
5	Solomon Islands	Ministry of Environment, Climate Change, Disaster Management and Meteorology (MECDM), Honiara City Council (HCC)	

Table 1	1-1	Scope	of the	Project
Iable	I – I	OCOPE		IIUJECL

¹ Defined as waste dealt with in SPREP's "CP 2025 3.4 Municipal Solid Waste Management".

Name of Region/Country		C/P Organization	
6	Republic of Vanuatu	Ministry of Climate Change, Department of Environmental Protection and Conservation (DEPC), Port Vila Municipal Council (PVMC), Luganville Municipal Council (LMC), Shefa Province	
7	Kingdom of Tonga	Waste Authority Limited (WAL), Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications (MEIDECC), Ministry of Health	
8	Independent State of Samoa	Ministry of Natural Resource and Environment (MNRE), Division of Environment and Conservation (DEC)	
9	Republic of Fiji	Ministry of Local Government, Department of Local Government (DOE), Department of Environment (DOE)	

1.2 Implementation schedule

The Project is implemented for 5.5 years from March 2017 to September 2022, which is divided into three terms below.

First term: 14th March 2017 – 30th April 2018

Second term: 16th May 2018 – 11th May 2020

Third term: 10th July 2020 - 30th September 2022

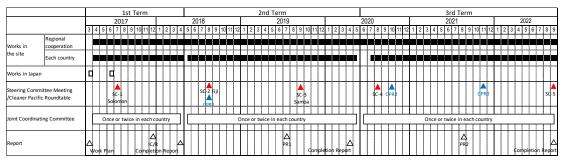


Figure 1-1 Overall Project Schedule

1.3 **Capacity development**

J-PRISM II emphasizes the importance of capacity development (CD). For this reason, in the first phase of the Project, a baseline capacity assessment (CA) was conducted to assess the current state of capacity at the institutional, social, and organizational level at the start of the Project in each target country. (Please refer to the CA results in Chapter 3 of the Inception Report and the Annex of the Project Completion Report of the first phase.) Because many of the items on the CA checklist are exhaustive and do not relate to the project activities directly, CA using the CA checklist was conducted once every two years. The checklist covers the comprehensive SWM area beyond the Project activities, so some items are not directly relevant to the outcome of the Project. Therefore, the Project determined to carry out the CA by the checklist every two years.

During the first half of the second term, a degree of capacity development was observed along with interviews. Interviews were conducted to see how organizational and individual performance are changing through the activities implemented in each country and how the experts foster a stronger sense of ownership and make interventions for strengthening the counterpart agencies' institutional and organizational capacity development. Depending on the

results, advice and recommendations were given to the counterpart agencies to accelerate the CD process. In the latter half of the term, a CA using the CA checklist was implemented as the second CA. The details of the second CA results in each country are presented in the project completion report of the second term.

In the first half of the third term, monitoring activity of the capacity development process, just like those of the second term, was not carried out, because most project activities in each country were postponed or undertaken remotely with limited support from the experts due to the coronavirus catastrophe. Preparatory work has been started in a way that allows us to conducting the 3rd CA on a remote basis at some point that remote assistance was accumulated in each county. The 3rd CA will be conducted around interview surveys with main C/Ps such as a project manager, but hearing survey from the experts will also complement the results of CA.

In the third term, each country's project activities were postponed or limited with assistance in the remote environment during the coronavirus pandemic. Therefore, the third CAs were prepared until each country's activities piled up and conducted by interviewing the main C/Ps remotely and face-to-face. The CA results were also supplemented with country-wise expert interviews.

1.4 Collaboration with regional collaborative project

Regional collaborative projects implemented by the project office (PO) sets four outputs.

Output 1: Monitoring mechanism for solid waste management in line with Cleaner Pacific 2025 is strengthened.

Output 2: Regional cooperation within the Pacific is organized and promoted by utilizing regional human resource and sharing lessons learnt in the region.

Output 3: Regional capacity of disaster waste management is strengthened.

Output 4: Practical and sustainable 3R+Return system is enhanced.

1.5 Outline of each country project, content of activities, ingenuity of project implementation, lessons learned and achievement degree of outputs

Details of each country are mentioned in Chapter 2.

2 Independent State of Papua New Guinea(PNG)

2.1 Outline of the Project

2.1.1 **Project Purpose**

Institutional framework and implementing capacity in SWM are enhanced at national and major urban local level governments (ULLGs) level.

2.1.2 Output

a. Output 1

Institutional capacity on SWM is enhanced through development of a National Policy, Strategy and Implementation Plan in line with the Cleaner Pacific 2025.

b. Output 2

Planning capacity to tackle with the issues on SWM of some ULLGs is enhanced.

c. Output 3

NCD WM Plan 2016–2025 is implemented sustainably as scheduled.

2.2 Activities

2.2.1 Activities related to Output 1

CEPA who is the main counterpart (C/P) for Output 1 has compiled the report incorporated current status and challenging issues on municipal solid waste management (MSWM) in local governments to be reflected for formulation of national waste management policies, strategies and implementation plan (hereinafter referred to as "NWMS"), after a series of discussions with related stakeholders, conducting baseline surveys for waste statistic, and carrying out site visits. Based on these activities, CEPA has formulated; 1. Skelton of NWMS, 2. Zero draft of NWMS, and 3. Roadmap for NWMS development. In June 2019, CEPA organized the 1st national consultation workshop for development of NWMS in Port Moresby. After that, in September 2019, CEPA organized the 1st regional consultation workshop for development of NWMS in PNG.

CEPA organized the regional consultation workshop for development of NWMS in another region. (Sep. 2020; Alotau, Jul. 2021; Lae, Mar. 2022; Goroka). Through these workshops, the NWMS was updated, and the 2nd national consultation workshop for development of NWMS was held to finalize the draft of NWMS.

Activity	Progress
1-1. Study on data collection flow for CEPA to get information on SWM from local levels regularly	 Desk-reviewed municipal solid waste management (MSWM) related reports in PNG and Pacific Island Countries (PICs), and questionnaire and other survey results conducted in the past Developed the new questionnaire sheet to collect data and information from ULLGs, and submitted it to the selected ULLGs

Activity	Progross
Activity	Progress
1-2. Study on necessary data to grasp current situation on SWM at local levels	 Conducted the questionnaire survey Present a current situation of waste management in ULLGs in 1st ULLGs workshop Modified the questionnaire template to the "Information and Data Collection Sheet (Sheet) based on the result of questionnaires collected from ULLGs Explained and discussed details on the Sheet among CEPA, NCDC and ULLGs in
1-3. Carry out data collection from local	the 2nd ULLGs workshop in Jun. 2018 • Collected information and data from some
levels	 ULLGs Conducted mission visits to all four ULLGs (Sep. 2018 and Jun. Sep. and Oct. 2019) Organized the 3rd and 4th ULLGs workshop to share and discuss the result of data collection and "the way forward" among CEPA, ULLGs and NCDC in Apr. 2019 and Mar. 2020 respectively
1-4. Review the data collection flow	 Reviewed data collection flow and initiated discussion with IT team in CEPA how to develop data collection and information sharing system Supported activities on site in Kokopo and Goroka, such as rehabilitation of disposal site, market waste compost and waste audit in collaboration with CEPA and NCDC (May, June, September and October 2019) (Due to a lack of capacity and training opportunities on data collection and analysis for MSWM in ULLGs, the Project established city-city cooperation programme)
1-5. Analise the collected data	 Analyzed collected data and information among CEPA, NCDC and ULLGs Developed waste flow for selected ULLGs Conducted waste audit in Goroka, Alotau and Lae (Oct. 2019,~Mar. 2021) in cooperation with NCDC
1-6. Elaborate the data collection flow	 Established the Waste Management Technical Working Group website in Apr. 2019 for further development of data collection and information sharing platform Promoted city-city cooperation programme for capacity development of ULLGs including enhancement of data collection and analysis and modified the results of survey analysis under WMD of NCDC

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Activity	Progress
1-7. Identify priority issues on SWM at the national level for development of draft National Policy, Strategy and Implementation Plan	 Established a taskforce team for development of NWMS within CEPA, officially endorsed by Managing Director of CEPA Developed the TOR of the National Waste Management Committee (NWMC) Compiled a skeleton for the NWMS based on priority to be obtained by Activity 1-3 Drafted the roadmap as well as the skeleton for the NWMS Organized the 1st NWMC in Mar. 2019 Conduct further discussion for city-city cooperation programme with CEPA and NDOH related to implementation and monitoring of NWMS Conduct further discussion to co-organize with WHO which is held the Environmental Health Forum for Environmental Health Officer who is in charge of waste management in region
1-8. Organize a series of national and regional consultation meetings for National Policy, Strategy and Implementation Plan	 Organized the 1st National Consultation Workshop for NWMS development in Port Moresby in Jun. 2019 Organized the 1st Regional Consultation Workshop for NWMS development in Kokopo (for the Islands Region) in Sep. 2019 Organized the 2nd Regional Consultation Workshop for NWMS development in Alotai in Sep. 2020 Organized the 3rd Regional Consultation Workshop for NWMS development in Lae in Jul. 2021 Organized the 4th Regional Consultation Workshop for NWMS development in Goloka in Mar. 2022 Organized the 2nd National Consultation Workshop for NWMS development in Port Moresby in Jul. 2022
1-9. Develop the final draft of the SWM Implementation Plan to be incorporated in the National Policy, Strategy and Implementation Plan	 Developed the final draft of the SWM Implementation Plan to be incorporated in NWMS Developed a skeleton of the "Guide to Develop Municipal Solid Waste Management Plan for (U)LLGs, Papua New Guinea" to be incorporated into the NWMP

2.2.2 Activities related to Output 2

Through project activities such as the ULLG workshop, questionnaire survey and waste flow development conducted by CEPA in relation to Output 1, challenging issues in four (4) ULLGs were identified especially for the vulnerability on waste management such as limited human resources together with a lack of technical capacities.

In order to promote a strengthening city-city cooperation programme in collaboration with CEPA, the Minutes of Agreement (MOA) on the city-city cooperation was endorsed in four (4) ULLGs (between NCDC-Goroka, and NCDC-Kokopo signed by city managers in Mar. 2020, between NCDC-Lae, and NCDC-Alotau in Apr. 2022). As a support for the activities of ULLGs, a waste audit survey was conducted in three (3) ULLGs (Goloka, Alotau and Lae). In addition, as part of promotion for strengthening city-city cooperation programme, discussion related to priory issues that are occurring in local governments was conducted in collaboration with CEPA.

Activity	Progress
2-1. Develop the programme for planning capacity enhancement on SWM	 Analised the participation of the JICA training on waste management from PNG in the past Developed the list to identify capacity needs and resources in PNG
	 Developed the framework of NCDC/ULLGs collaboration Programme to promote city-city cooperation
	 Endorsed the city-city cooperation programme between NCDC-Goroka, and NCDC-Kokopo signed by city managers in Mar. 2020
	 Endorsed the city-city cooperation programme between NCDC-Lae, and NCDC-Alotau in Apr. 2022
2-2. Organize workshop for basic data management on SWM	• Organized the 2nd ULLGs workshop in Jun. 2018 followed by the 3rd one in Apr. 2019 to share and discuss data collection and analysis results among all stakeholders
	 Organized 4th ULLGs workshops in Mar. 2020 to update activities for ULLGs
2-3. Conduct data collection to develop a waste flow	 Developed each ULLG report (four ULLGs reports) with some PowerPoints documents to share current issues and action plans Developed the Kokopo baseline report Conducted waste audit in Goroka, Alotau and Lae in collaboration NCDC
2-4. Develop a waste flow based on the actual data collected in some ULLGs	• Developed waste flow for four (4) ULLGs by combination of actual collected data and estimated variables

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Activity	Progress		
2-5. Identify priority issues based on the developed waste flow	 Identified the priory issues in Goroka, Kokopo, Alotau and Lae 		
	 Conducted the consultation meetings for four ULLGs in collaboration with CEPA, NDOH and NCDC shown in the following table. 		
	Month/Year	Place	Participant
	Apr. 2019	Port Moresby	Goroka, Kokopo, Lae, CEPA, NDOH, NCDC
	Oct. 2019	Kokopo	Kokopo, CEPA, NDOH, NCDC
	Oct. 2019	Goroka	Goroka, CEPA, NCDC
	Mar. 2020	Port Moresby	Alotau, Goroka, Kokopo, Lae, CEPA, NDOH, NCDC
	Sep. 2020	Alotau	Alotau, Goroka, Kokopo, Lae, CEPA, NDOH, NCDC
	Jul.2021	Lae	Alotau, Goroka, Kokopo, Lae, CEPA, NDOH, NCDC
	Mar. 2022	Goroka	Alotau, Goroka, Kokopo, Lae, CEPA, NDOH, NCDC
	• Developed the draft workplan for priority activities both in Goroka and Kokopo (disposal site rehabilitation, market waste compost, etc.)		
2-6 Develop an implementation plan for improvement of the prioritsed issue in some ULLGs	• Developed the Kokopo disposal site rehabilitation plan which was officially endorsed by Kokopo- Vunamami ULLG		
	 Implemented market waste compost pilot project in Kokopo 		
	 Developed Management 		opo-Vunamami Waste

2.2.3 Activities related to Output 3

The Waste Management Division (WMD) of NCDC, through the activities of J-PRISM Phase 1, has divided the Areas into four categories: A: Collection and Transportation, B: Intermediate Treatment, C: Final Disposal, and D: Management, which is the cross-cutting management of these areas from a project and technical perspective. Each Area is led by a Senior Officer and carries out its activities in accordance with the Waste Management Plan.

In the promotion of intermediate treatment, the WMD proposed a market waste composting project at the Baruni landfill site in line with the WM Plan, which was approved by the city council. However, budgeting was delayed and the project had not been implemented as of August 2022. Meanwhile, NCDC obtained an Environment Permit (Level 2: Category B) in September 2013 to upgrade the Baruni Landfill to a semi-aerobic landfill site, but the scope of the permit needs to be additionally amended to allow recycling activities and incineration. NCDC has therefore initiated the process to apply for an additional Environment Permit in May

2022.

The landfill plots (Cell-1 and 2) at the Baruni landfill site are expected to be full within two years. However, as the next landfill block (Cell-3), unlike Cell-1 and 2, has to be developed on the mountain side and PNG has no experience in developing semi-aerobic landfill sites in mountainous areas, JICA experts carried out a preliminary design NCDC prepared construction order documents based on this preliminary design drawings. A summary of this activity is given below.

The Baruni landfill site was constructed in J-PRISM Phase I at its own cost by NCDC under the technical guidance of JICA experts for the detailed design of landfill cell 1 and 2, leachate control pond and administration building to improve the open dump disposal site into a semiaerobic landfill (Fukuoka method) site. These landfill cells started to be landfilled from Cell-1 in October 2017 and Cell-2 in August 2019, respectively; as the remaining capacity was estimated to be around 3 years as of March 2020, the JICA expert proposed to integrate Cell-1 and 2 and extend their life by stacking them about 10 m higher.

The JICA expert urged the WMD to prepare design drawings and place construction orders for the development of Cell-3 as soon as possible, as the proposed site for Cell-3 is in a mountainous area and it was the first attempt for PNG to plan a semi-aerobic landfill on a slope, unlike Cell-1 and 2 which were constructed on flatter areas. Therefore, in parallel with the WMD design work, J-PRISM II assigned additional experts with experience in planning the development of sanitary landfill sites in mountainous areas, and in two months from October 2021, the design drawings were prepared with Japanese experience.

The JICA expert sent the design drawings to the WMD in December of the same year and recommended that they be replaced with those prepared by the WMD and that the construction quantities be revised.

NCDC conducted a tender for the Cell-3 development works in January 2022 and the construction contract was signed in April 2022. However, the drawings for the order were still the same as those prepared by WMD, so the JICA expert replaced the drawings and explained the design drawings to the construction contractor together with WMD during the field work from February of the same year. In addition, the WMD requested the JICA expert to calculate the construction quantities in May, to which the JICA expert responded.

Activity	Progress
3-1. Install a weighbridge and data recording system at Baruni Disposal Site。	 The installation of the weighbridge by JICA was completed at the end of August 2018, and the construction of the entry road and installation of protective fencing was carried out at the expense of the NCDC. NCDC started weighbridge operations on 1 October 2020. The weighbridge was certified for the
	second time by the ICCC in March 2021.
3-2. Introduce a new tipping fee charging system	• Based on the total cost of commissioning landfill operations and infrastructure at the Baruni landfill site for the period 2018 - 2021 and the final disposal volume, the unit disposal cost was calculated to be 26.3 PGK/tonne (USD 7.4/tonne).

These series of tasks were completed by the end of May 2022.

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Activity	Progress
3-2. Introduce a new tipping fee charging system	 The unit cost of operating a landfill would need to be two to six times the current level (54-143 PGK/tonne) if the unit cost of operating a controlled landfill - sanitary landfill as indicated in the World Bank's What a waste 2.0 is used as a guide. User pay charged by NCDC is 54.2 PGK/tonne for general waste and 77.2 PGK/tonne for industrial waste. The Data Management Task Force recognised that the tipping fee needs to be increased to between 54 and 143 PGK/tonne as a guide to ensure that the Fukuoka method of landfill can continue to be used appropriately. The setting of tipping fees on a metered basis will be determined at the discretion of the NCDC. NCDC plans to introduce a metered basis tipping fees as soon as the weighbridge can operate continuously and a system that can send weighbridge data online to the NCDC City Hall will be put into operation.
3-3. Establish a data management system on SWM	 A task force consisting of the IT division, the accounting and revenue division and the WMD within NCDC was established to operationalise the waste data management system. The taskforce reviewed the data to harmonise the list of payers, disposal tickets issued at the City Hall counter and the names of collectors recorded at the weighbridge.
3-4. Review the Action Plan of the NCD WM Plan 2016-2025	 Based on the review of the WM Plan in July 2018, the WMD identified the following four projects as priorities for the realisation of the WM Plan. (i) Establishment of a waste management data management system (ii) Implementation of market waste composting (iii) Improvement of the environment in villages and settlements (improved collection) (iv) Improvement of Baruni DS (including development of Cell-3) As it was found that an additional environmental permit was required to carry out recycling activities (composting) and incineration at the Baruni landfill site, the WMD started an additional application process with CEPA in April 2022.

Activity	Progress
3-5. Develop implementation plans based on the reviewed Action Plan of NCD WM Plan 2016-2025	 Each year, WMD prepares an implementation plan for the following year based on the four projects identified in activities 3-4 and submits a budget application to the City Council. The WMD applied for budgets for projects (ii) and (iii) to be implemented in 2019, but these were not approved. WMD applied for and was approved for budgets (ii), (iii) and (iv) in FY2020, but implementation was postponed due to budget shortfalls. The WMD applied for and was approved for budgets (ii), (iii) and (iv) in FY2021 and will continue the project in FY2022.
3-6. Undertake prioritised implementation plans	 WMD is implementing the following priority projects listed in 3-4: (i) In collaboration with other divisions such as the Income, IT, and Education, WMD built a data management system to share weighbridge data within NCDC. As soon as the uninterruptible system at the Baruni disposal site was completed, the data management system became operational. (ii) The city council has approved the construction of a composting plant for market waste at the Baruni disposal site. (iii) From April 2022, environmental awareness activities in the Settlement and reduction of waste generation by promoting composting was started to improve the environment in the area. (iv) Conducted detailed design of Cell-3 of Baruni DS and conducted bidding for construction work. In addition, WMD reviewed the detailed design based on the Fukuoka-method sanitary landfill development drawings prepared by JICA experts and instructed the contractor to do so.
3-7. Monitor progress of the implementation plans	 WMD plans to quantitatively monitor the quality and quantity of collection services provided by contractors, confirming collection routes with GPS loggers and counting collected volumes with scales on a monthly basis. WMD has established a system to check leachate water quality and landfill gas for environmental monitoring of Baruni landfill.

Activity	Progress
3-7. Monitor progress of the implementation plans	• WMD appointed a person in charge to evaluate the progress of the implementation plan of the WM Plan, and share the evaluation results within the department on a quarterly basis.
3-8. Review the NCD WM Plan by assessing the progress of the Action Plan	 Created a plan summary in June 2022; Created a revised WM Plan at the end of August 2022.

2.3 Challenges and lessons learnt during the Project implementation

2.3.1 Multi-layer and Cross-sectoral Gasps among national and local governments, and line ministries, in implementing, enforcing and monitoring NWMS in the future

In addition to the constraints of human resources and financial arrangement for CEPA, multilayer and cross-sectoral gasps among national and local governments, and line ministries were stressed by the Project. It is essential to take measure to fill these gaps together with all stakeholders for practical implementation, enforcement and monitoring of the NWMS. One of important countermeasures need to be taken is to support (intervene) Environmental Health Offices (EHOs) who are responsible for MSWM in local governments. Such a mechanism should be established through collaboration among multi-layer and cross-sectoral stakeholders especially with local governments as well as Provincial Health Authority (PHA) under the umbrella of NDOH who is mandated to support EHOs both technically and financially. In result, the Project called for collaboration among CEPA, NDOH, WHO and NCDC and made related discussion.

2.3.2 Promotion of Capacity Development in Local governments through City-City Cooperation Programme

Local governments in PNG are facing challenges on waste management due to the institutional, technical and financial constraints. It is crucial to tackle with these issues in building a sustainable waste management system for PNG. From this perspective, the Project made an effort to promote mobilizing local resources such as technical capacities accumulated in NCDC (developed during the J-PRISM Phase-I), and coordinated national and local stakeholders like CEPA, NDOH, and local governments (ULLGs) jointly to access PIP trust fund (PNG government funding) in a sustainable manner. In March 2020, the Project successfully achieved to establish the mechanism to mobilize the local resources effectively through the Minutes of Agreement (MOA) on city-city cooperation signed between NCDC and Goroka, and NCDC and Kokopo respectively (In addition, the MOA on city-city cooperation between NCDC and Alotau and NCDC and Lae respectively was signed in April 2022). The Project promoted mutual improvement of waste management through this intercity cooperation, and NCDC C/Ps actively invited to support local activities which must also contribute to capacity development for NCDC. NCDC C/Ps also have management capabilities with their leadership in addition to technical capacities on waste management. Mutual discussion, communication and learning with the common local language between locals sometimes seem to be more effective and impacted than the ones with foreign experts and consultants.

2.3.3 Foster opportunities on educational and training programme on MSWM for Environmental Health Officers (EHO) in local governments

MSWM in local governments is managed by the Environmental Health Officer (EHO), many of whom are graduates of Divine Word University (DWU) in Madang (The Capital City of Madang Province). However, the current status of the "Waste Management Curriculum" is not taken care by CEPA nor NDOH, and also the latest trends and activities on waste management including the formulation of NWMS are not shared with academia such as universities and research institutes in PNG. In addition, a lack of continuous educational and training opportunities on waste management after being assigned as an EHO in respective local governments have resulted in stagnation and low priority of waste management activities in their mandates. Based on the perspective, the project made discussions with stakeholders such as NDOH, WHO, DWU and NCDC, especially for

- Enhancement of the curriculum on waste management in DWU,
- Providing opportunities on capacity development for EHO strategically including JICA training in Japan, and

2.3.4 Strengthening collaboration with other divisions to accelerate implementation of the activities of Output 3

To realize the NCDC solid waste management plan, it is necessary to secure appropriate funds. For this reason, it is desirable to shift from the previous per-vehicle disposal fee collection to a pay-as-you-go fee collection, as well as to increase the collection rate of the existing waste fee and increase income for waste management. Securing funds requires activities beyond the scope of WMD, so WMD should build a waste data management system based on weighbridge data in collaboration with the Accounting Division, Income Division, and IT Division etc.

This has made it possible to centrally manage costs related to waste management, together with data such as demographics and business licences (number of businesses) and the volume of collection (i.e. disposal volume) obtained from weighbridge data, and to easily review fee setting (tipping fees and disposal costs) based on objective data. In other words, it means that the NCDC's financial resources to realise the waste management plan have been systematically secured and a waste management system that enables sustainable development has been established.

2.3.5 Remote assistance in corona disasters

Due to COVID-19, JICA experts have not been able to work in the field since April 2020. For this reason, the communication with the C/P of NCD-WMD was done exclusively by email. Although the frequency of email communication was much higher than before March 2020, it was not possible to confirm whether the support was effective or not because the situation in the field was not sufficiently understood.

Based on the above lessons learned, in order to increase the effectiveness of the remote support, the expert team would like to hold regular online meetings until the end of the project to ensure understanding the support required through an exchange of views with the C/P.

2.4 Achievement of the Outputs

1. Institutional capacity on SWM is enhanced through development of a National Policy, Strategy and Implementation Plan in line with the Cleaner Pacific 2025.Progress: Achieved		
1-1. The current status on SWM in local levels are monitored by CEPA.	 CEPA developed the synthesis restatus and challenging issues for U CEPA proposed the monitoring scollection and analysis related to SW this report, and initiated technical as develop their related capacities for waste audit and development of was in collaboration with NCDC. CEPA initiated discussion with scollaboration with NCDC. CEPA initiated discussion with scollaboration with NCDC. CEPA initiated discussion (WHO) for SWM conducted by the Environ at the local level. CEPA developed the framework of Municipal Solid Waste Manageme Papua New Guinea" including data as well as monitoring methodology be attached to NWMS. A system for regular monitoring an the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the local level to be conducted by the system for regular monitoring and the system for regular monitoring a	LLGs. system including data WM at the local level in ssistance for ULLGs to for implementation of iste management plan stakeholders such as ority (PHA) as well as , who are responsible nmental Health officer on "Guide to Develop nt Plan for (U) LLGs, collection and analysis on SWM, which is to d analysis for SWM in
- · · ·	2. Planning capacity to tackle with the issues on SWM of some ULLGs is enhanced. Progress: Achieved	
2-1. Four (4) ULLGs can set numerical targets based on waste management improvement plans.	Kokopo-Vunamami ULLG (KVULLG) formulated their own	
SC	25 is implemented sustainably as heduled.	Progress: Achieved
3-1 Solid waste of NCDC is quantitatively managed.	• With the completion of the weighbridge automated input system, a quantitative management system for NCDC's solid waste is in place.	

3. NCD WM Plan 2016–2025 is implemented sustainably as scheduled. Progress: Achieved		
3-2. Main SWM Planning Targets (Collection, Recycling, Disposal) at a mid- term point in NCD WM Plan 2016 -2025 are achieved (Clarify the quantitative targets from collection, recycling and disposal respectively according to the reviewed Action Plan)	 Collection: the WM Plan shows the amount collected, recycled and disposed of as planned targets against the amount generated; analysis of data from the weighbridge for the year 2021 shows that the NCD's collection rate for municipal waste (collection as a percentage of amount generated) was 68% collection rate. This is slightly short of the initial target of 71%. On the other hand, it was observed that the ratio of illegal dumping to the volume generated has decreased by 2.6% since 2018. This indicates that the planned target has largely been achieved in terms of collection improvements. 	
	2. Recycling: the WM Plan targets a final year recycling rate of 13.5% with an intermediate treatment facility (Material Recovery Facility (MRF) and market waste composting facility) in Baruni DS. The recycling market was booming at the time the plan was prepared (2014), but the recycling market has deteriorated sharply since the ban on the export of recyclable waste to China from January 2018 onwards. As a result, the commercialisation of the MRF has been put on hold, and for the time being, plans to develop an intermediate treatment facility based on the composting of market waste will be pursued. Meanwhile, it was found necessary to obtain an Environment Permit for recycling activities at the Baruni landfill site, and WMD has started the application process to obtain an additional one in addition to landfilling waste. The plan compiled by the WMD to build a market waste composting facility at the Baruni Landfill has been approved by the City Council, but has not been implemented as of April 2022 due to budget shortfalls.	
	 Meanwhile, to promote waste reduction at the source, the WMD started household composting promotion activities at the Settlement in March of the same year. The recycling rate in 2021 was 3.4%, which deviates significantly from the target, but this is due to the lack of intermediate treatment facilities at the Baruni disposal site. The WMD is implementing recycling activities outside of the disposal site, and waste reduction through public 	
	 awareness-raising and composting is underway. As a result, the recycling rate is expected to exceed the target once an intermediate treatment facility is constructed at the Baruni disposal site. 3. Final disposal: the final disposal volume in 2021 was 248 t/day. The planned disposal volume is 262 t/day with no intermediate treatment at the disposal site, which means that the disposal volume is generally in line with the plan. 	
3-3. Draft revision edition of NCD WM Plan is developed.	 Based on the analysis of the 2021 weighbridge data, the WM Plan was reviewed and a revised framework was prepared in April 2022. 	

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 NCD WM Plan 2016–2025 is implemented sustainably as scheduled. 		Progress: Achieved
3-3. Draft revision edition of NCD WM Plan is developed.	 A revised draft NCD WM Plan was p August 2022. The WMD will consult the City Conversion and continue to promo management up to 2025. 	ouncil on this revised

Achievement of the Project purpose 2.5

enhanced at national and m	mplementing capacity in SWM are ajor urban local level governments _Gs) level.	Progress: Achieved
1. The roles and responsibilities of related agencies for SWM are determined at the national and local level.	 At the national level, the relevan CEPA, the Ministry of Health (NDOF of National Planning (DNPM) review framework and direction for the National Waste Management Guidelines) in accordance with the and the Public Health Act 1973 (heat the Guidelines) and reached a commute roles and responsibilities of the agencies ✓ Local waste management is unagencies ✓ Local waste management is the Environmental Health Officer. ✓ The activities and reporting Environmental Health Officer and the local government concerre Provincial Health Authority. ✓ The Provincial Health Authority. ✓ The Provincial Health Authority. ✓ The Provincial Health Authority is the Internet officers. ✓ Provincial Health Authority is the CEPA works with the NDOH rural areas through Local Provincial Health Authority. Consultation meetings at local and the Internet officers is the Internet officers of related agencies the above, with the aim of submer Parliament. 	H) and the Department ved and agreed on the development of the delines, Strategy and referred to as the Environment Act 2000 reinafter referred to as mon understanding on the following relevant nder the jurisdiction of responsibility of the carried out by the are the responsibility of hed in addition to the rity is responsible for al support to municipal under the NDOH, and to support its work in Governments and national level was held ncluding roles and s for SWM mentioned
2. A coordination and monitoring mechanism for ULLGs in SWM is established.	 A system for collecting information waste management in local cities developed (e.g. preparation of data conducting briefing sessions on he development of a waste management site). 	es (ULLG) has been ata collection sheets, ow to use the sheets,

Institutional framework and implementing capacity in SWM are enhanced at national and major urban local level governments (ULLGs) level.		Progress: Achieved
2. A coordination and monitoring mechanism for ULLGs in SWM is established.	 A Memorandum of Understandin cooperation has been signed betwee 4-ULLG, and a support system technology transfer and capacir collection, analysis methods and which plays a pioneering role in the management in PNG has been developed. Cross-sectoral consultations with (CEPA, NDOH, WHO, DWU, NC education and training opportunith Health Officers responsible for location are continuing. It is expected monitoring of solid waste management 	een CEPA, NCDC and to local cities for ty building for data planning, by NCDC, the field of solid waste reloped. the relevant agencies DC, etc.) to promote ties for Environmental al waste management that this will enable

2.6 Recommendation towards achievement of Overall Goal

In order to achieve the overall goal (Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016-2025 (Cleaner Pacific 2025)), in PNG, in PNG, based on the developed national strategy, CEPA is playing a central role in waste management for the entire country. In addition, the knowledge and lessons learned on waste management obtained by NCDC is utilized to improve proper waste management in local areas by CEPA and NCDC.

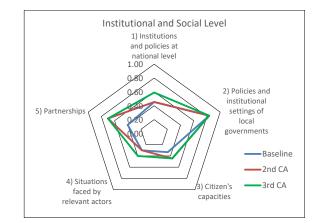
2.7 Capacity Assessment

2.7.1 3rd Capacity Assessment

In the third term, the third CA (endline) was conducted by monitoring the project activities and using the checklist from 10 April and 4 May 2022. The results of the third CA are shown in the figure below.

The capacity of 1) Institutions and policies at the national level increased. As of the third CA, CEPA was preparing the fourth version of NWMPS. It is expected that CEPA will hold a national consultation meeting and formulate a final draft before the Project ends. Workshops for NWMPS were held in four regions, and forums for explaining and discussing the policies and strategies with stakeholders, including the private sector in each region was made. As the understanding of the NWMPS deepened, the capacity of 2) Situations faced by Relevant Actors was also improved.

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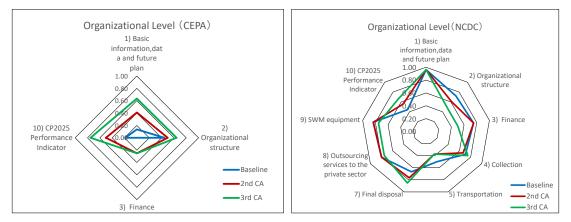


Figure 2-2 CA results at the Organizational level in PNG

As for CEPA's capacities at the organizational level, all aspects except 2) Finances increased. CEPA collected the essential information and data related to SWM through the formulation of NWMPS (Ouput 1). They also deepened the knowledge of survey methods and results (e.g. MSW generation rate) by assisting the waste amount and composition surveys in regional cities and towns together with NCDC under the City-City Cooperation scheme (Output 2). These activities contributed to the capacity enhancement of 1) Basic information, data and future plan and 10) CP2025 Performance Indicator.

Regarding 2) Organizational structure, CEPA's organizational structure has no changes, and the number of full-time staff actually decreased by three to one². However, CEPA connected and deepened partnerships with ministries (Ministry of Health, Department of National Planning and Monitoring) and local governments (ULLG, Provincial Government) related to local solid waste management. It can be said that the capacity at the organizational level has increased as a result of CEPA's increased presence as a competent agency related to waste management.

Compared to the baseline, it can be said that the organizational capacity of CEPA for waste management has improved dramatically. In order to maintain and further improve the organizational capacity of CEPA, it is desirable to increase the number of full-time staff.

NCDC's organizational capacity has slightly improved in the third term. Specifically, the capacity for 7) final disposal has increased due to the commencement of operation of the

² There are 3 project based officers in CEPA including J-PRISM II assistant,

weighing bridge installed at the Baruni landfill. On the other hand, the capacity regarding 2) organizational structure and 3) finance has decreased. There are multiple reasons for this. First, the organizational structure of the upper management of NCDC has changed (from four deputy mayors and four department heads to two deputy mayors, four directors, and four department heads). So, it takes time to communicate information within the organization and execute the budget. Secondly, regular meetings of senior staff level within WMD, which were held in the past, are no longer being held. As a result, the budget is not executed as planned, and information on budget execution is not sufficiently shared within the organization. These factors have led to a reduction in NCDC's capacity at the organizational level.

Compared to CEPA, NCDC has a higher capacity at the baseline, and there is no significant difference in average capacity compared to the baseline. However, it is undeniable that the improvement of the implementation capacity of the solid waste management project was sluggish due to the organizational change of the NCDC itself and the tight financial situation. On the other hand, by introducing the weighbridge and City-City cooperation, many NCDC staff deepened their knowledge and insight into the performance indicators (per capita generation of MSW, waste capture rate, user-pays systems for waste collection, waste disposal, etc.) for monitoring the implementation of CP2025. This indicates that, as an advanced municipality in PNG, the NCDC's broad experience and knowledge regarding solid waste management have improved. In the future, it is believed that these experiences and knowledge will serve as a basis for further improving the implementation capacity of NCDC's solid waste management projects.

3 Solomon Islands

3.1 Outline of the Project

3.1.1 **Project purpose**

Institutional capacity for SWM is strengthened at the national and provincial centers' levels.

3.1.2 Output

a. Output 1

Capacity of Solid Waste Management of HCC is strengthened.

b. Output 2

Lessons learnt from the activities related to SWM in Honiara and Gizo are promoted and practiced in the targeted provincial centers.

c. Output 3

Economic measures for sustainable SWM in the SI are specified.

3.2 Activities

3.2.1 Activities related to Output 1

The current situation of solid waste management in Honiara City was clarified and issues were identified (Activity 1-1). The framework of SWM plan was developed and numerical targets for the target year were set (Activity 1-2). The SWM Plan Committee (Activity 1-3) was organized as working group and a series of discussions for SWM plan was held. When the SWM plan was drafted (Activity 1-4), consultation meeting to build a consensus among the stakeholders was held (Activity 1-5). The finalized SWM plan reflecting the opinions and comments obtained at the consultation meeting was submitted to the Honiara City Council in November 2019 and approved.

After obtaining approval for the SWM plan, actions are taken to improve waste management based on the action plan indicated in the SWM Plan. The establishment of Waste Management and Control Division, one of the highest priority actions, has already been completed, and the activity has already started since January 2020 as a new division in Honiara, an activity report has been developed regularly. As another priority Action, the tipping fee system has been commenced in September 2020, in parallel with the official process of enactment of the tipping fee ordinance (Activity 1-7-1). In addition, in order to improve waste collection, the skip bins were relocated, a new waste collection schedule was created, and waste collection based on this schedule has been started (Activity 1-7-2). For the construction of a new landfill site, information about discussions of candidate site was collected and comments and advices on site selection was given so that it would be an appropriate candidate site (Activity 1-7-3).

Activities	Results of activities
1-1 Review the existing data and conduct supplementary survey of the current SWM situation and organizational management issues	management in Honiara City was collected

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Activities	Results of activities
1-1 Review the existing data and conduct supplementary survey of the current SWM situation and organizational management issues	 The amount of solid waste for the planned target year of Honiara City was forecasted. The waste flows of the current situation and planned target year of Honiara City were updated.
1-2 Develop a framework of the SWM plan	 The outline of SWM plan of Honiara City was finalized. The numerical targets for the target year in
1-3 Organize a working group to discuss institutional, technical and financial arrangements for the SMW system in HCC	 SWM plan was set. The SWM Plan Committee was launched as a working group to consider SWM plan of Honiara City.
1-4 Formulate a draft SWM plan, including recommendations for the necessary arrangements based on the results of discussion in the working group	• A workshop of the SWM Plan Committee was held to discuss SWM plan. The SWM Plan was drafted.
1-5 Conduct consultation meeting to build a consensus among stakeholders on the draft SWM plan	• Consultation meeting for the draft SWM plan was held in May 2019, hosted by the SWM Plan Committee.
	 In consultation meeting, current situation and issues of solid waste management in Honiara City, as well as future basic policies and action plans was explained. The opinions and comments obtained at the consultation meeting were compiled and reflected in the plan, and draft SWM Plan was finalized.
1-6 Develop a landfill operation manual based on the draft SWM plan	 Information about the current situation of the Ranadi disposal site was collected and compiled. The current situation of environmental impact caused by Ranadi disposal site was identified. The current issues concerning disposal
	 site operation was compiled. The realistic operation and monitoring method of disposal site were discussed. Landfill operation manual for disposal site was developed and revised in 2022.
1-7 Monitor and prepare an annual monitoring report of the activities of SWM	 The SWM Plan was submitted, and approved by Honiara City Council. Based on the action plan indicated the SWM Plan, activities are being implemented to improve solid waste management. [Priority: High] Action 1: Establishment of solid waste management division Action 2: Development of Ordinance Action 3: Establishment of proper waste collection system

Phase || (Group 2) Project Completion Report (3rd Term)

Activities	Results of activities
1-7 Monitor and prepare an annual monitoring report of the activities of SWM	 Action 4: Development of new landfill site (Construction plan) [Priority: Medium] Action 5: Establishment of proper landfill operation system Action 6: Development and implementation of public awareness plan [Priority: Low] Action 7: Development and implementation of monitoring plan on private contractor Action 8: Consideration of intermediate treatment technology Action 9: Dissemination of home compost As one of the high priority activities, the Solid Waste Management and Control Division was established. Solid Waste Management and Control Division is making report periodically.
1-7-1 Develop and enforce ordinance for tipping fee to introduce tipping fee system	 The fee collection method and fee table, etc was discussed for the introduction of the system. The tipping fee system was commenced in September 2020. Data of tipping fee is continuously recorded. Draft of ordinance was developed and on the procedure to be official.
1-7-2 Develop and implement new waste collection plan including skip bin relocation to improve waste collection service	 A waste collection schedule was developed and waste collection activity was started in line with new schedule Data of waste collection vehicles has been recorded at the disposal site. Skip bins was relocated considering the current situation.
1-7-3 Develop concept paper of new sanitary landfill to facilitate a discussion about the construction of new landfill site	 A draft of concept figure for a new disposal site was developed. Information about discussion of candidate site for new landfill site is collected and proper location for landfill site was discussed.

3.2.2 Activities related to Output 2

The lessons learned from solid waste management activities implemented in Honiara City and Gizo Town were collected and compiled as a report (Activity 2-1). Also, using the lessons learned, useful training material for implementing activities in other provincial areas was developed (Activity 2-2). In order to finalize the training material, a workshop was held to review the training material by reflecting the opinions of C/Ps in Honiara City and Gizo Town (Activity 2-3). The developed training material were used in a workshop conducted at Tulagi (Provincial centers), and were used for the development of SWM plan and the implementation of waste audit survey (Activity 2-4).

As an activity that utilizes the lessons learned so far, a SWM plan in Provincial centers was formulated with the support of the Ministry of Environment, Climate Change, Disaster Management and Meteorology (MECDM) and Honiara City Council. Tulagi (Provincial center) has finalized the SWM plan and in the process of submitting to full assembly meeting. In addition, basic information and data in Auki (Provincial center) was collected from Auki's C/Ps and a draft of SWM plan was developed (Activity 2-5).

Activities	Results of activities
2-1 Review and compile lessons learnt from activities related to SWM implemented in Honiara and Gizo	 The lessons learnt from activities related to solid waste management implemented in Honiara City and Gizo Town was collected. By reviewing the collected lessons learnt, the lessons learnt which is useful for provincial centers was selected and compiled. The lessons learnt from activities related to solid waste management implemented in Honiara City and Gizo Town were developed as a report. In order to review and update, the report on lessons learnt was discussed with the C/Ps who implemented activity in Gizo Town.
2-2 Develop draft training material on SWM based on the results of 2-1	 The composition and contents of the training material on solid waste management was discussed. Based on the lessons learnt from activities related to solid waste management implemented in Honiara City and Gizo Town, a draft of training material, which is useful for conducting activities in other areas, was developed.
2-3 Conduct material review workshop with officers of MECDM, MHMS, HCC, and GTC to verify and finalize training material	 The material review workshop with officers of MECDM, MHMS, HCC, and GTC to verify and finalize training material was conducted in February of 2019. The training material were finalized based on the comments and opinions obtained at the workshop. The training material was revised in 2022 with additional information about waste audit survey and waste flow.
2-4 Conduct in-country workshops for officers involved in SWM of targeted provincial centers to prepare SWM plans, utilizing the above training material	 Candidate sites to be the target provincial centers was discussed. In-country workshop to develop SWM plan was held in March 2019 at Aukii, one of the target provincial centers. In-country workshop to develop SWM plan was held in July 2019 at Tulagi, one of the target provincial centers.
2-5 Support and monitor targeted provincial centers for implementation of SWM plans	• With the assistance of the C/Ps, one of the lessons learnt indicated in training material, waste audit survey was conducted with the staff in charge of Tulagi.

Activities	Results of activities
2-5 Support and monitor targeted provincial centers for implementation of SWM plans	 Activities for development of SWM plan in Tulagi and Auki was followed up by MECDM and HCCs.
	 The SWM plan in Tulagi was developed and finalized. It is ready to be submitted to the full assembly meeting.
	 In order to develop SWM plan in Auki, basic information and data were provided by Auki C/Ps.
	 The SWM plan in Auki was discussed and drafted with Auki' C/Ps.

3.2.3 Activities related to Output 3

The financial information of Solomon Islands and Honiara City was collected and complied, and then analyzed (Activity 3-1). A study on economic measures that are effective in maintaining solid waste management was conducted, and options considered to be effective were extracted. In addition, the study results of economic measures were compiled as a draft basic study report (Activity 3-2).

Among the extracted economic measures, the single-use plastic regulation was selected, which is considered desirable for early introduction, and clarified the procedures and actions required to enact as the regulation (Activity 3-3). In addition, a draft of Instruction, which describes the content of regulations and related information necessary for the regulations, was developed based on consultation and advice from the Attorney General's Chamber, which prepares regulations (Activity 3-4).

Activities	Results of activities
3-1 Review the existing revenue and expenditure on SWM	 Information on central government finance was obtained. The financial situation at the national level was compiled and analyzed. The budget data of Honiara City was obtained. The income and expenditure related to solid waste management in Honiara City was compiled and analyzed. Information on finances of the MECDM was obtained. The financial situation of the MECDM was compiled and analyzed.
3-2 Conduct a basic study on various options of economic measures applicable to the Solomon Islands to sustain SWM	 A feasibility study (pre-FS) on the Container Deposit System (CDS) was conducted. A study on economic measures that are effective in maintaining solid waste management was conducted, options considered to be effective were extracted. The study results of economic measures were compiled as a draft basic study report.
3-2-1 Consider options for economic measures	• The options of effective economic measures for maintaining solid waste management was discussed.

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Activities	Results of activities	
3-2-1 Consider options for economic measures	• The options considered to be effective a the national level and Honiara City leve were extracted.	
3-2-2 Examine how to introduce these economic measures	• A study on the introduction method of economic measures was conducted.	
3-2-3 Implement cost-benefit analysis of the economic measures	 Based on the analysis results of the collected information, cost-effectiveness analysis for economic measures was implemented. 	
3-3 The necessary steps and actions required to implement the identified economic measures is clarified		
3-4 Compile produced information and data required for initiating the economic measure	• Draft Instruction for Single-use Plastic regulation which would be submitted to Attorney General's Chamber was developed.	

3.3 Challenges and lessons learnt during the Project implementation

3.3.1 Development method of solid waste management plan

In Honiara City, two divisions, the Works Division and the Environmental Health Division, were in charge of waste management. The Works Division was mainly responsible for service of waste collection and transportation and the Ranadi disposal site management, and the Environment Health Division was responsible for the management of private collection companies and the public awareness concerning environmental health including waste. As both departments were in charge of practices of waste management, therefore, it was not clear of leading department, they did not have an opportunity to get any experience in developing plans concerning solid waste management in the whole of Honiara City such as SWM plan, and also they did not have enough knowledge to develop plans. In addition to that, it was not familiar for C/Ps to write a report and use PC, so, it could not be proceed with making draft of SWM plan as planned.

At the beginning, each C/Ps was assigned a person in charge based on their actual task, and required to consider and make a report for the designated part individually. But this was not suitable way for C/Ps, therefore, development method was changed. A workshop of the SWM Plan Committee was often held. At the workshop, all participants together made a discussion or group discussions was conducted by the divided small groups. Through these discussions, each item of the draft of SWM plan was confirmed and developed one by one.

It is expected that SWM plan will be developed in other provincial areas besides Honiara City. Therefore, it was expected that through the development of SWM plan in Honiara City, the C/Ps of Honiara City can understand well about development process of SWM plan and make advice and support to other provincial areas. As a result, the C/Ps of Honiara City is supporting by introducing the SWM plan in Honiara City and the method of development of SWM plan to other area (provincial centers targeted for Output 2).

3.3.2 Follow-up on Solid Waste Activity in Local Areas

A local business trip to Gizo Town was planned and conducted to discuss with C/Ps in order to confirm the lessons learnt of the activities in Phase 1, and the importance of follow-up was re-realized. Most of the pilot projects implemented in Gizo Town have obtained remarkable results during the project period, and the results and effects are compiled as lessons learnt. On the other hand, it can be said that the difficulty in securing sustainability after the project has clarified again.

Regarding collection activity, which is one of the major issues at present, the eight collection stations established in the pilot project were functioning but not regularly collected. Although there are several factors for this incident such as the change of waste personnel, securing of personnel, and cost, one of the factors is that Gizo Town has not been able to collect waste continuously. It is essential not only to support hard aspect but also to support the improvement of stable collection activity for relative department from a long-term perspective. Gizo Town C/Ps also stated that continuous follow-up is essential for the sustainable implementation of proper waste management.

There is a further plan to expand effective lessons learnt to other areas by using the training material related to the lessons learnt after closing the project, it is necessary to continuously conduct monitoring and support/guidance for activity after the expansion.

3.3.3 Support activities in line with the basic policies and activity plans of the Ministry of the Environment and Honiara City

One of the important basic policies for the Ministry of Environment, Climate Change, Disaster Management and Meteorology (MECDM) is to develop capacity of waste management not only in Honiara City but also in local provinces. For this reason, the MECDM provides assistance to local provincial governments in the development of SWM plan and the implementation of waste audit survey. On the other hand, in the activities of J-PRISM project, in accordance with the basic policy of the MECDM, the development of SWM plan and the implementation of waste audit survey were assisted by Japanese expert and the C/Ps of the MECDM.

Honiara City also recognizes that waste management is one of the city's most important challenges. Therefore, the development of SWM plan and the establishment of new division specializing in solid waste management were top priorities. On the other hand, in the activities of the J-PRISM, in order to solve the highest priority issues recognized by Honiara City, the SWM plan was developed as an activity of PDM Output 1, and Based on the SWM plan, the establishment of a new waste management division, which is a top priority issue, has been realized. The activities of the J-PRISM and the actions for the highest priority issues of the C/Ps are matched.

In this way, by adopting activities that is in line with the basic policies of the MECDM and Honiara City and/or activities that are directly related to the practice of the C/Ps, the awareness of the C/Ps regarding activities related to PDM is improved, the C/Ps ownership is ensure, in addition, the continuity of activities can be expected.

3.4 Achievement of the Outputs

	anagement of HCC is strengthened.	Progress: Achieved	
Indicator 1-1: Draft SWM plan is submitted to the city council.	• Based on discussions in the SWM Plan Committee meeting, draft of SWM plan was developed. The draft SWM plan was submitted to and approved by the Executive Committee meeting on November 14, 2019, with the approval of the Waste Management & Control Standing Committee, and became the official plan of Honiara City		
Indicator 1-2: Landfill management and waste collection service are carried out in accordance with the developed SWM Plan. (Numerical target indicators will be set based on the plan)	 Ranadi landfill site is being managed based on the developed landfill operation manual for disposal site. Waste collection is started with the newly created waste collection schedule. High priority actions are implemented in accordance with the SWM plan. 		
and Gizo are promoted and	nctivities related to SWM in Honiara practiced in the targeted provincial centers.	Progress: Achieved	
Indicator 2-1: Training material is developed and revised at least once during the project	 The lessons learnt from solid waste management activities implemented in Honiara City and Gizo Town was compiled as a report, and training material that will be useful for implementing activities in other areas was finalized. Workshops were held using the created training materials, and revisions were made based on the obtained knowledge. 		
Indicator 2-2: SWM plans are prepared in at least three provincial centers.	 A workshop for development of SWM plan was held at Tulagi (Provincial center), and a draft of SWM plan was developed. Based on the information and data of C/Ps of Auki (Provincial center), a draft of the SWM plan was developed. 		
Indicator 2-3: SWM plans are monitored in at least three provincial centers.	 The SWM plan in Tulagi (Provincial center) was finalized, that is under the process of submitting to full assembly meeting. A draft of the SWM plan in Auki was developed. 		
3 Economic measures for sustainable SW/M in the SI are		Progress: Achieved	
Indicator 3-1: Feasible options of economic measures are identified through the basic study.	 The budget data of the central government and Honiara City and subsidy system was obtained and compiled as report. Based on the results of the basic survey, effective economic measures was discussed and options considered to be effective was extracted. 		
Indicator 3-2: The documents necessary to legally process the economic options are prepared	 In addition to clarifying the process the extracted economic measur regulation), the necessary informa instructions 	e (single-use plastic	

3.5 Achievement of the Project purpose

1. Institutional capacity for SWM is strengthened at the national and provincial centers' levels. Progress: Achieved				
Indicator 1: Activities proposed in the SWM plan are revised annually.	···· ···· ···· ···· ····· ····· ·······			
Indicator 2: SWM activities reflecting lessons learned are practiced in at least two provincial centers during the project period.	e activities implemented in Honiara City and Gizo Town have been compiled as a report, and a training material			
	Provincial centers lessons learned	Tulagi	Auki	
	Development of SWM plan	Done (Finalized)	Done (Draft)	
	Implementation of waste audit survey	Done	Done	
Indicator 3: Necessary actions are taken for legalization of selected economic measures.	city levels to contribute to stable implementation of solid			

3.6 Recommendation towards achievement of Overall Goal

In order to achieve the overall goal (Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016-2025 (Cleaner Pacific 2025)), in Solomon Islands it is necessary to establish nationwide waste management framework leading by MECDM. In Honiara City, activities will be carried out according to the action plan shown in the SWM plan to improve solid waste management. In addition to that, it is required to support the improvement of solid waste management in other provinces in cooperation with MECDM utilizing the knowledge and lessons learned.

3.7 Capacity Assessment

3.7.1 3rd Capacity Assessment

In the third term, the third CA (endline) was conducted by interviewing the progress of project activities with the country-wise experts and using the checklist as a questionnaire to the main counterparts from 26 July and 26 August 2022. The results of the third CA are shown in the

figure below.

At the institutional and social level, no significant changes were seen overall from the second term. However, it was confirmed that the impact of the National Waste Pollution Control Strategy (NWCPS) 2017-2026, which was approved in the second term, is beginning to emerge. As of the baseline, although environmental Act 1998, the fundamental law for waste management in Solomon Islands, does not categorize or define waste, major wastes such as solid and hazardous wastes were clearly explained in the NWCPS2017-2026. It is recommended that significant wastes be defined in legislation. MECD is currently discussing the review of the Environment Act 1998, and new chapters on "Waste Management" and "Chemical Waste Management" are expected according to the NWCPS 2017-2026. This can significantly impact improving the institutional capacity for solid waste management at the national level in the Solomon Islands. Compared to the baseline, the above-mentioned approval of NWCPS2017-2016 and the completion of HCC's solid waste management plan have dramatically improved the capacity of 1) Institutions and policies at the national level and 2) Policies and institutional settings of local governments.

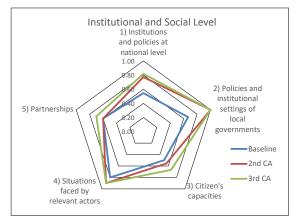


Figure 3-1 CA results at the Institutional/Social level in Solomon Islands

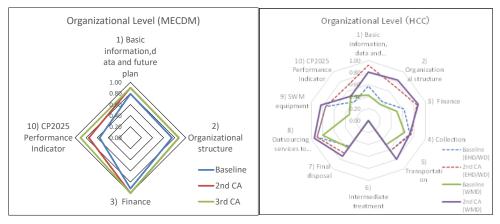


Figure 3-2 CA results at the Organizational level in Solomon Islands

Regarding the capacity at the organizational level, MECDM has not changed much since the second term. The most improved MECDM's capacity compared to baseline capacity is 10) CP2025 Performance Indicators. These indicators include the "Per capita generation of Municipal Solid Waste (MSW)," "Waste collection coverage (% of the population)" necessary for municipalities to formulate waste management plans, as well as "Container Deposit Program" and "User-pays systems for waste collection." It was confirmed that the understanding and knowledge of these indicators had been deepened by the activities related to the assist the formulation of SWM plan of HCC and provincial centers, and the identification

of economic measures for sustainable waste management.

Regarding HCC's organizational level capacity in the third term, the Waste Management and Control Division, newly established in January 2020 as planned in the SWM plan in the second term, was the target of the 3rd CA. It is because waste management in HCC used to be handled by the Environmental Health Division (EHD) and the Works Division (WD). However, all waste management operations were transferred to WMD after a transition period.

Figure 3-2 shows the 1st CA (baseline) results of WMD conducted in the second term and the 2nd CA conducted in the third term by the solid line, while the past CA results by EHD and WD by the dotted line. There was a large gap between the 1st CA (baseline) result of WMD, which has many newly hired staff, and the 2nd CA result of EHD/WD, which has been in charge of waste management and formulated a waste management plan. However, the results of the 2nd CA of WMD show no significant gaps in all items except two. This is because the SWM plan was formulated by following HCC's regulations practically, and the plan is being implemented. WMD did not take over daily operations but also started to change the collection schedule and collect tipping fees based on the SWM plan. Although there was a change in the human resources involved in waste management, it was confirmed from the CA results that the HCC could continue and improve the waste management services according to the plan. Therefore, it can be said that HCC's organizational capacity has been strengthened compared to the baseline.

4 Republic of Vanuatu

4.1 Outline of the Project

4.1.1 Project purpose

A foundation of implementing and monitoring SWM activities in line with the Vanuatu National Waste Management and Pollution Control Strategy (NWMPCS) is built.

4.1.2 Output

a. Output 1

Institutional capacity of DEPC to implement NWMPCS is enhanced with the cooperation of the Working Group.

b. Output 2

SWM activities of PVCC are properly implemented and monitored in line with the SWM Plan.

c. Output 3

Economic incentive scheme is initiated for promotion of 3R + Return in Vanuatu.

4.2 Activities

4.2.1 Activities related to Output 1

In Vanuatu, the Project was started just after major experienced C/Ps left their positions in the Department and Municipality as described later. In such circumstance, the Working Group (WG), whose initial members were representatives of the Department of Environmental Protection (DEPC), Port Vila City Council (PVCC) and Luganville Municipal Council (LMC), was organized under the leadership of DEPC in June 2018 (Activity 1-1). Through the WG activities, C/Ps and J-PRISM II conducted a baseline survey in Port Vila and Luganville (Activity 1-2) and summarised lessons learned from the past technical cooperation (Activity 1-3). After that, based on the survey results, the "PVCC Annual Waste Management Plan 2019" was compiled on a pilot basis so that it can be also used as a model for other Provincial and Municipal Government Councils when they prepare their waste management plans (Activity 1-4).

Output 1 was designed to introduce a PDCA cycle to enhance the implementing and monitoring capacity of SWM in Vanuatu, therefore activities to select, plan and implement the priority activities (Activity 1-5 to 1-8) were repeated annually through the six (6) Working Group (WG) meetings in total.

In the third term, a new lessons guide based on the Luganville School Environmental Program was prepared and submitted to the Ministry of Education and Training (MoET). A final evaluation report of NWMPCS 2016-2020 was compiled and made available to the public through the DEPC website. It was also distributed to the counterparts and relevant stakeholders in the fourth JCC meeting (Activity 1-8). The results of each activity related to the Output 1 are shown below.

Activities	Results of activities
1-1 Formulate a WG and conduct WG meetings to study and review the Implementation Plan of NWMPCS, including the current SWM activities of other agencies	 Total of six WG meetings were held during the project period. Final monitoring evaluation report of NWMPCS 2016-2020 was reviewed with C/Ps including WG members and observers in the 4th JCC meeting on 30th November 2021. As a related activity, J-PRISM II gave advice to DEPC on ToR of NWMPCS Coordinating Committee for preparing the next NWMPCS.
1-2 Update the present conditions of municipal SWM in Port Vila and Luganville to understand the baseline of NWMPCS 2016-2020 with WG	• Present condition of municipal SWM in Port Vila and Luganville was updated with support of the WG in August 2018.
1-3 Compile lessons learnt of SWM in Port Vila and Luganville for formulating practical implementation plan of NWMPCS	 The following five lessons learnt in Phase 1 of the Project were compiled and shared, namely i) market compost, ii) organisational and institutional capacity and appointment of Waste Management Officer (WMO), iii) separation of cans for recycling, iv) landfill operation and v) environmental education. Lessons learnt were reflected in the PVCC SWM Plan 2019. Lessons learnt of financial management in PVCC and LMC were compiled in a report and shared with related divisions in PVCC through the stakeholders' workshop in January 2019. Lessons learnt were shared and discussed through WG to develop a detailed action plan on the priority activities of NWMPCS.
1-4 Study and renew the framework of annual SWM plan in PVCC as a pilot activity of implementation of NWMPCS by utilizing existing data and resources of PVCC	• Annual SWM Plan 2019 in PVCC was developed and approved by the Council in October 2018.
1-5 Decide the priority activity(ies) that will be implemented with WG in line with the Implementation Plan	 Four priority activities during the year of 2019 were selected in accordance with the monitoring results of NWMPCS, and approved by the 2nd JCC Meeting in October 2018 as follows: 1) Promotion of the planning standard on SWM, and penetration of framework of SWM plan into Provincial and Municipal Government Councils (Thematic 1. NWMPCS). 2) Pre-feasibility study of a Container Deposit Scheme (CDS) to support the polluter pays principle (Thematic 2, NWMPCS)

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Activities	Results of activities
Activities 1-5 Decide the priority activity(ies) that will be implemented with WG in line with the Implementation Plan	 Results of activities 3) Discussion of option of waste minimisation to reflect to the NWMPCS (Thematic 4, NWMPCS) 4) Coordination to develop awareness materials based on the experience of LMC and discussion on dissemination to relevant stakeholders with Ministry of Education. (Thematic 7, NWMPCS) Priority activities for 2020 were decided in a pattern of the distance of the di
	 October 2019, and approved by the third JCC Meeting in February 2020. 1) Dissemination of an annual SWM planning and monitoring system in the Provincial and Municipal Government Councils (Thematic 1, NWMPCS). 2) Detailed design of a Container Deposit Scheme (CDS) for its initial setup (Thematic 2, NWMPCS) (to be implemented as Output 3 of PDM3) 3) Development and endorsement of a waste minimisation plan (Thematic 4, NWMPCS) 4) Promotion of a Clean School Programme by identifying one school in each province as an environment model school and environment ambassador (Thematic 7, NWMPCS)
1-6 Develop a detailed action plan of priority activity(ies) in the Implementation Plan of NWMPCS, based on the discussion of WG	 A detailed action plan of the priority activities in 2019 and 2020 were developed and published through the DEPC's website³.
1-7 Implement the priority activity (ies) based on the action plan with WG	 The following activities were implemented until February 2021 in accordance with the detailed action plan developed in Activity 1-6. [Priority activity 1] Annual waste management planning form was developed and disseminated to the Provincial and Municipal Governments through the Department of Local Authorities. [Priority activity 1] As a wrap-up activity, the first National Solid Waste Management Planning Workshop was held in Port Vila on 28th February 2020. The proceedings of the workshop were distributed to all Provincial and Municipal councils. It is also available through the DEPC website.

³ DEPC website: Environmental Protection-Waste Management (<u>https://environment.gov.vu/index.php/environmental-protection/waste-management</u>, accessed on 29 August 2022)

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Activities	Results of activities
1-7 Implement the priority activity (ies) based on the action plan with WG	 [Priority activity 1] SWM data, such as a SWM Plan in each Provincial and Municipal Government and the national waste management flow in Vanuatu, was made available to the public through the DEPC website in February 2020⁴. [Priority activity 2] The National Waste Minimization Plan (2021-2025) was drafted. [Priority activity 3] CDS preliminary survey was conducted in March 2019. The Council of Ministers (COM) decided in principle to accept the introduction of a CDS in Vanuatu in October 2019. [Priority activity 4] A new lessons guide based on the Luganville School Environmental Program was prepared and submitted to the Ministry of Education and Training (MoET)
1-8 Monitor and prepare an annual monitoring report of NWMPCS including overall evaluation in the final year 2020 for reflection in the next term of NWMPCS	 Progress monitoring of NWMPCS was evaluated and summarized by DEPC in November 2018 and October 2019, which reflected the detailed action plan of the priority activities for the next year. Monitoring results were made available to the public through the DEPC's website. A final evaluation report of NWMPCS 2016-2020 was compiled in May 2021 and finalised in November 2021. It was distributed in the 4th JCC meeting and made available to the public through the DEPC's website⁵.

4.2.2 Activities related to Output 2

Output 2 was added in the 2nd JCC Meeting on October 29, 2018, and the framework of the PVCC Solid Waste Management Plan 2021-2030 was organised based on the existing data and additional survey data (Activities 2-1 and 2-2). After that, stakeholder workshops and pilot projects were implemented (Activities 2-3 and 2-4).

In the third term, the Solid Waste Management Plan for PVCC and Shefa Province (2021-2030) was developed and approved by the full Council on 31st March 2021 (Activity 2-6). Based on the approved plan, a landfill operation manual was prepared and the priority activities were carried out (Activity 2-7 and 2-8). In conclusion, monitoring results in 2021 and early 2022 were reviewed and an action plan for the next three years (2022-2024) was developed (Activity 2-9). The results of each activity related to the Output 2 are shown below.

⁴ DEPC website: National Waste Management Flow in Vanuatu

⁽https://environment.gov.vu/index.php/environmental-protection/waste-management/national-wastemanagement-flow-in-vanuatu)

⁵ DEPC website: Waste Management Planning (<u>https://environment.gov.vu/index.php/environmental-protection/waste-management/waste-management-planning</u>, accessed on 29 August 2022)

Activities Results of activities 2-1 Review the existing data and • Existing data was reviewed by November conduct supplementary survey of the 2018 and supplementary surveys (boundary current SWM situation of wards, landownership of Bouffa landfill, EIA related regulations, financial analysis etc.) were conducted. 2-2 Develop a framework of SWM Plan • Framework of SWM Plan (2021-2030) was developed in February 2019, including the (2021-2030) by utilizing the results of activity in 1-4 conceptual plan of institutional, technical and financial arrangement. 2-3 Organize stakeholders' • Stakeholders were identified based on the framework of the SWM plan. workshop(s) to discuss the framework of SWM Plan, including institutional, technical • The framework of the SWM Plan was and financial arrangement presented to the councillors of Port Vila City Council in March 2019. • Total of 17 community workshops were held for waste collection improvement with support of the ward secretary in May and June 2019. • A series of stakeholder's workshops were held with Shefa Province to discuss the framework of the SWM Plan in June, October and November 2019. • Memorandum of Understanding (MOU) was agreed between PVCC and Shefa Province in March 2020 for cooperation of solid waste management planning. 2-4 Formulate a draft SWM Plan • Preliminary design of Bouffa disposal site, including recommendations for necessary including outline design of Cell-2&3 was arrangements considering the discussion developed in February 2020. of the stakeholders' workshops • First draft of the SWM plan was developed in March 2020. 2-5 Implement SWM pilot project(s) to • The following eight pilot projects were test the suitability of institutional, technical selected in December 2019 and and financial systems recommended in the implemented in 2020. draft SWM plan 1) Waste collection improvement with community

- 2) Private collection monitoring (GPS trucking survey) in collaboration with DEPC and Shefa Province
- 3) Waste pickers survey and safety training
- 4) Promotion of market composting
- 5) Promotion of home composting and gardening
- Promotion of Clean School Program (to be linked with the priority activity 4 of OUTPUT 1)
- 7) Awareness raising activities during the National Environmental Week
- 8) Yellow Bag Review Committee

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Activities	Results of activities
2-6 Finalize the SWM Plan	 Based on the results of the pilot projects, the SWM Plan was finalized in December 2021 and approved by the full council on 31st March 2021. PVCC SWM Plan was made open to the public through the DEPC's website6.
2-7 Develop a landfill operation manual based on the SWM Plan	 Based on the PVCC SWM Plan, the "Development Guide and Operation Manual for Bouffa Disposal Site" was developed. In addition, based on the manual, technical guidance was given to improve the Bouffa disposal site. Specifically, using an excavator procured by the JICA Vanuatu office and an existing bulldozer, J-PRISM II instructed PVCC to construct a drainage system on the on-site roads and new access roads so that waste collection vehicles can reach the designated disposal area even in the heavy rain. PVCC requested the Ministry of Infrastructure and Public Utilities (MIPU) to install five (5) cross-road drainage pipes (one of which is for leachate) with a total length of about 102m, and excavated a drainage channel on the side of the on-site roads.
2-8 Implement the priority activity (ies) determined in the SWM Plan	 The following activities were selected as priority activities in 2022 at the 4th JCC meeting on 30th November 2021 and implemented accordingly. [The priority activities that PVCC and JET implement together in 2022] Training on data management and analysis for improvement of SWM; Rehabilitation and improvement of the main access road at the Bouffa landfill site; Technical assistance for construction of Cell-2 at the Bouffa landfill site; Yellow Bag review committee for renewal of procurement contract in 2022. [The priority activities that PVCC implement by themselves in 2022] Feasibility study for weighbridge installation Promotion of Clean School Program Divisional capacity development - training for drivers, workers and mechanics

⁶ DEPC website: Waste Management Planning (<u>https://environment.gov.vu/index.php/environmental-protection/waste-management/waste-management-planning</u> accessed on 29 August 2022, reposted)

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Activities	Results of activities
2-8 Implement the priority activity (ies) determined in the SWM Plan	 iv. Management of maintenance of machineries and equipment v. Improvement of financial management through independent account for SWM
2-9 Monitor the SWM activities based on the SWM Plan	 Incoming vehicle records in 2021 and early 2022 were analysed and waste flow was updated. Progress of the SWM Plan was reviewed and the activity monitoring results up to August 2022 were summarised. Based on that, an action plan (2022-2024) was prepared.

4.2.3 Activities related to Output 3

Based on the Council of Ministers (COM) decision for introducing the Container Deposit Scheme (CDS) in principle, a CDS technical working group consisting of government officials, producers such as beverage manufacturers and importers, civil society, and other CDS stakeholders was established, to design the CDS system in Vanuatu in December 2019 (Activity 3-1). In the third term, activities to conduct a series of stakeholders consultation, review the legal framework, conduct a full feasibility study and develop the drafting instructions (Activity 3-2, 3-3, 3-4 and 3-5) were implemented. Based on the results of these activities, report of lessons learnt was compiled (Activity 3-6). This report can be used to take over the CDS support in Vanuatu as well as a good learning material for other countries in introducing CDS in their country. In this sense, it could be a good promotion tool for encouraging regional cooperation. The results of each activity related to the Output 3 are shown below.

Activities	Results of activities
3-1 Set up a working group to develop the detailed design of the Container Deposit Scheme (CDS) under overall direction of DEPC	 Based on the COM decision for introduction of CDS in principle in October 2019, a CDS Technical Working Group was established in December 2019.
3-2 Conduct a series of stakeholders consultation through the WG	 The WG consisting of government officials, producers such as beverage manufacturers and importers, civil society, and other CDS stakeholders held nine (9) meetings in total. Series of individual consultations were carried out from 2019 including information exchange with other donors such as PacWaste Plus and SCE.
3-3 Review the legislation necessary to implement the CDS	• Existing legislation was reviewed for scenario analysis of options of the Managing Agency model in February and March 2020.
3-4 Conduct a full feasibility study to determine the details of the CDS	 HS tariff numbers of target beverage containers were identified. A sample form of a product stewardship plan was drafted. Comparison analysis chart of the options of a Managing Agency model was prepared.

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Activities	Results of activities
3-4 Conduct a full feasibility study to determine the details of the CDS	• Feasibility of recycling liquid paper/packaging boards (LPB) was investigated, including trends in the recycling market in New Zealand and other countries.
3-5 Develop a draft instruction of the container deposit legislation with a consultation of related authorities	• Based on the results of the review of the legal framework and a series of discussions through the WG, drafting instructions were prepared ready to be submitted to the State Law Office.
3-6 Compile lessons learnt of CDS in Vanuatu for regional cooperation	• The process of introduction of CDS in Vanuatu was summarised and the lessons learned was complied so that it could be a reference for promoting its introduction within the region and in other countries.

4.3 Challenges and lessons learnt during the Project implementation

4.3.1 Enhancement of implementation systems and organisational capacity based on the premise of the vulnerability of counterpart organisations

Based on what was learned in Phase 1, J-PRISM II focused on strengthening not only individual but also organisational and institutional capacities in Vanuatu. At the beginning of Phase 2, neither DEPC nor PVCC had senior staffs responsible for waste management. J-PRISM II carefully consulted with the C/P and as a result, DEPC assigned a Principal Waste Management and Pollution Control Officer in January 2019, after an absence of many years. In September 2021, DEPC newly appointed a pollution control officer and its position was then mde permanent. Currently, DEPC is proposing a new organisational structure including additional staff for waste management and pollution control. In conclusion, it can be said that the organisational capacity has been enhanced.

There was also tremendous progress in PVCC. In August 2018, PVCC assigned a Waste Management Officer, and based on this fact, Output 2 was officially added in PDM version 2. After 2020, due to COVID-19 spread and travel restrictions to Vanuatu, it was eighteen months before Japanese experts could enter into Vanuatu. In such circumstances, PVCC had established the Waste Management, Environmental and Health Division (WMEHD) in January 2020 their own initiative, and appointed a new Waste Management Manager and additional Waste Management Officer in December 2020 and July 2021 respectively. Initially, there were 48 staff belonging to WMEHD in 2020. Currently, the number of staff has increased up to 88 as of August 2022. Moreover, PVCC endorsed the "Waste Management By-law No. 6 of 2021" dated on 22nd April 2021. It can be said that both organisational and institutional capacities of PVCC in waste management were drastically enhanced.

On the other hand, LMC has seen little project progress due to inconsistency from the Municipality. J-PRISM II paid a courtesy call to the new mayor in February 2020 and high commitment from the LMC was confirmed. As a result in the 3rd JCC Meeting, high officials from the LMC, the Acting Town Clerk and the Executive Secretary, were newly added as the C/Ps in order to strengthen the project implementation system.

Shefa Province was also newly added as a C/P in the 3rd JCC Meeting. In February 2020, Shefa Provincial Government signed a Memorandum of Understanding (MOU) with PVCC on the

formulation of the PVCC Solid Waste Management Plan 2021-2030, which led to the strengthening of cooperation between PVCC and Shefa Province. In addition, Shefa Province newly assigned a Waste Management Officer in 2019. Since he had little experience in waste management, a Waste Management Officer was replaced by a new staff with rich experience in waste management in July 2021. Shefa Province were thereby strengthening the capacity and its waste management systems.

It should be noted that as expected from the beginning of the project, there were frequent C/P personnel changes, and both the Project Director and Project Manager were changed (the second Project Director and the third Project Manager were assigned at the end of the project). Despite these circumstances, the common awareness among those involved was recognised through the above-mentioned efforts to improve organisational strength, and the latermentioned 'project design aimed at establishing a PDCA cycle' as well as 'institutionalisation through a multi-stakeholder process'. As a result, the project was smoothly implemented while ensuring the consistency of all activities.

4.3.2 Project design aimed at establishing a PDCA cycle

The basic policy of the project design of Output 1 was to put into practice the PDCA cycle, in which plan, do, check and action, based on the NWMPCS 2016-2020, aimed at establishing activities within the C/P organisation. At the beginning of the project, the PDM in Vanuatu (PDM1) had only Output 1, but working group activities were developed and Output 2 was added in October 2018, and Output 3 in February 2020. In each field, planning and implementation of activities based on national strategies were gradually habituated.

Specifically, for Output 1, the process of creating, approving, and implementing an annual activity plan was put into practice by DEPC, together with the WG, based on the regular monitoring results of the progress of the NWMPCS. Through these process, J-PRISM II encouraged DEPC to obtain enough capacity to implement the NWMPCS by themselves. Regarding Output 2, PDCA cycle was practiced by dividing the planning term into two, i.e. a short-term (planning period: 1 year) and a medium -to long-term (planning period: 10 years). The approach saw advances in all of the following;

(1) Compliance can be thorough (the annual SWM Plan is required to be submitted every year under the Waste Management Act No.24 of 2014);

(2) Short-term plans enable PVCC to accumulate more experience in the PDCA cycle of planning and improvement based on SWM practices, and;

(3) Medium-to Long-term plans, including organisational restructuring and infrastructure investment such as vehicle procurement and landfill improvement and extension construction, enables the scale-up of improvement work including the coordination with donors or funds to secure the budget for such work.

As a result, the annual activity plans were developed based on the monitoring results of last year constantly from 2017 to 2020, and awareness of the importance of achieving NWMPCS 2016-2020 in C/P agencies was enhanced. In addition, ownership was fostered for the revision of the strategy by themselves. It turned out that the project design that was conscious of the PDCA cycle had enabled opportunities to engage with decision makers on an ongoing and timely basis, and C/P organisations got to prioritise institutionalising and budgeting the waste management processes.

4.3.3 Institutionalisation support for sustainable waste management through multistakeholder processes

In Vanuatu, J-PRISM II focused not only on the capacity development of C/P, but also on ensuring sustainability through establishing the cooperation relationship between C/P organizations, and utilizing the local resources. For example, cooperation between C/P organizations was promoted by strengthening the coordination between national and local governments through the NWMPCS Working Group activities (Output 1). Another example is a conclusion of the Memorandum of Understanding (MOU) with PVCC and the Shefa Provincial Government on the development of a Solid Waste Management Plan 2021-2030 (Output 2), which makes their collaboration at the field level stronger than before. In terms of the utilisation of local resources, it was effective to work with decision-makers from relevant ministries and agencies, such as the Director General of the Ministry of Climate Change (MCC) and the Director of the Department of Local Authorities (DLA). On-site training and support were designed and provided in collaboration with local NGOs and local consultants as far as possible so that the knowledge and experience were disseminated widely. In parallel, J-PRISM II encouraged DEPC to update relevant authorities, such as the Public Service Commission (PSC) and the Department of Urban Affairs and Planning (DUAP) that was newly established in April 2021, in order to keep strengthening the waste management system of local governments in a sustainable manner in Vanuatu.

In consideration of waste management as a public service, public/social acceptance is very important and should be taken into consideration in the process of the entire project implementation. For Output 1, information disclosure was strengthened for the establishment of the NWMPCS coordinating committee, including public disclosure of waste management data and related materials on the website, including the NWMPCS final monitoring report and Waste Management Plans of each Provincial and Municipal Government. For Output 2, community meetings were held in 17 different areas with the Ward Secretaries, to determine measures for improving waste collection. For Output 3, a CDS Technical Working Group consisting of government officials, producers such as beverage manufacturers and importers, civil society, and other CDS stakeholders was established in December 2019 to design the CDS system in Vanuatu based on the agreement of all concerned. There were nine (9) meetings held during the project period and stakeholders opinions were well reflected in the final design of the CDS system that was described in the drafting instructions prepared by DEPC.

4.3.4 Raising international interest in marine litter/ plastic pollution and coordinating donors

Waste management was a hot topic in Vanuatu reflectingof global concern for marine litter/plastic pollution. Against this background, it seems that it was the right timing to implement the preliminary survey for introducing CDS to increase its social impact. On the other hand, the rapid increase in aid related to marine litter had led to inadequate coordination of said aid by international organisations, or rather there was a mood of resentment as a receipient country regarding attitudes toward aid that do not respect the needs of the National and Local governments in Vanuatu. Delays to regular government operation due to miscoordination of international aid related to this matter were observed in a certain period. J-PRISM II, who had the on-site experience cultivated up to now and its excellent relationship with the C/P, made efforts to provide other donors with necessary information like baseline survey reports, information on aid needs etc. as far as possible, to reduce the burden by supporting aid coordination when requested by the DEPC and JICA Vanuatu Office.

In addition, it can be said that strengthening the capacity of aid coordination for the DEPC as a supervisory authority is a future task necessary for sustainable development. During the project period, J-PRISM II supported DEPC, as an administrative agency, to create a mechanism for information disclosure, as this was identified during the consensus building process with stakeholders including the CDS technical working group as important. As such all relevant reports were published on the DEPC website.

4.3.5 Seeking a New Scheme of Remote Technical Cooperation

The coronavirus (COVID-19) pandemic had a massive impact on the project progress of the J-PRISM II. Even in such difficult circumstances, J-PRISM Experts were continuing the technical support remotely from Japan. The key factors for remote technical cooperation were the effective utilisation of online tools and local resources. After September 2020, a National Coordinator was assigned as a focal point in Vanuatu to fill in the information gap caused by the online communication and to provide in-country support to the counterpart organisations. It was quite effective and enabled us to achieve some progress as far as we could remotely in these circumstances. For example, for Output 3, the CDS expert living in New Zealand and the legal expert living in Australia were assigned and the full-feasibility study for introducing the Container Deposit Scheme (CDS) in Vanuatu was restarted by networking with four countries, i.e. New Zealand, Australia, Japan and Vanuatu. This scheme enabled us to finalise the drafting instructions on CDS with the counterpart within the project period.

1. Institutional capacity of DEPC to implement NWMPCS is enhanced with the cooperation of the Working Group. Progress: Achieved		Progress: Achieved
OVI 1-1: Detailed action plan of the priority activity(ies) in the Implementation Plan of NWMPCS is processed through the relevant government agencies for implementation from 2019.	 Priority activities in 2019 and 2 approved by the second JC respectively. Detailed action plans of priority ac responsibility of relevant gover and implementation schedule of and 2020 were developed. WC responsibility and implemented accordance with the detailed acti Detailed action plans of priori available to the public through the second sec	C and the third JCC ctivities, including role and nment agencies, budget priority activities, in 2019 G members fulfilled their the priority activities in on plans. ty activities were made
OVI 1-2: The annual monitoring report of NWMPCS is made available to the public (through DEPC webpage, published reports, etc.)	 The annual monitoring of NWMP November 2018 and October 2 detailed action plan of the prior year. Final monitoring evaluation rep 2020 was prepared in November the stakeholders in the 4th JCC r The monitoring results (2017, 20 final monitoring evaluation report the public through the DEPC's were the public through the publ	019, which reflected the rity activities for the next port on NWMPCS 2016- or 2022 and distributed to meeting. 018, 2019 and 2020) and t were made available to

4.4 Achievement of the Outputs

⁷ DEPC website: Environmental Protection - Waste Management

⁽https://environment.gov.vu/index.php/environmental-protection/waste-management, accessed on 29 August 2022, reposted)

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1. Institutional capacity of DEPC to implement NWMPCS is enhanced with the cooperation of the Working Group.		
OVI 1-3: With the support of the WG as the priority activity, National SWM planning and monitoring system in Provincial and Municipal Government Councils is established.	 The National SWM planning and monitoring system was established with the consultation form, newly developed by the DEPC in collaboration with the Department of Local Authorities⁸. As a wrap-up activity to implement the new system and form, the 1st National Solid Waste Management Planning Workshop was held in Port Vila on 28th February 2020. The proceedings of the workshop were distributed to all Provincial and Municipal Councils. It is also available through the DEPC website⁹. 	
OVI 1-4: With the support of the WG as the priority activity, national waste minimization plan is developed.	• The National Waste Minimization Plan (2021-2025) was drafted.	
OVI 1-5: With the support of the WG as one of the priority activity, clean school program is promoted.	 A new lessons guide based on the Luganville School Environmental Program was prepared and submitted to the Ministry of Education and Training (MoET). Clean School Program was promoted on a small scale as a pilot project of PVCC in Output 2. 	
	are properly implemented and with the SWM Plan.	Progress: Achieved
OVI 2-1: Results of SWM pilot project(s) in line with a draft SWM Plan are evaluated in a stakeholder's workshop.	• The results of the pilot projects were confirmed by the relevant division (town planning) in PVCC and reflected in	
OVI 2-2: SWM Plan of PVCC (2021-2030) is submitted to the Council.	 Councillors of Port Vila City Council in March 2019. Town Planning Committee decided to set up a waste management division and budget for the new division. Itwas proposed in a PVCC business plan in 2020. The SWM Plan (2021-2030) was finalized in December 2020 and approved by the full Council on 31st March 2021. It is available on the DEPC's website.¹⁰ 	
OVI2-3:LandfillmanagementinBouffadisposalsiteisimprovedimprovedfollowingthelandfilloperationmanual.	 Based on the PVCC SWM Plan, the "Development Guide and Operation Manual for Bouffa Disposal Site" was developed. 	

⁸ DEPC website: Waste and Pollution Forms (<u>https://environment.gov.vu/index.php/forms-and-fees/waste-and-pollution</u>, accessed on 29 August 2022)

⁹ DEPC website: Waste Management Planning (<u>https://environment.gov.vu/index.php/environmental-protection/waste-management/waste-management-planning</u>, accessed on 29 August 2022, reposted)

¹⁰ DEPC website: Waste Management Planning (<u>https://environment.gov.vu/index.php/environmental-protection/waste-management/waste-management-planning</u>, accessed on 29 August 2022, reposted)

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2. SWM activities of PVCC are properly implemented and monitored in line with the SWM Plan. Progress: Achieved		Progress: Achieved
OVI 2-3: Landfill management in Bouffa disposal site is improved following the landfill operation manual.	 In addition, based on the manual given to improve the Bouffa di using an excavator procured by and an existing bulldozer, J-PRIS construct a drainage system on the access roads so that waste collect the designated disposal area even requested the Ministry of Infrastruk (MIPU) to install five (5) cross-roads which is for leachate) with a total lexcavated a drainage channel of roads. 	sposal site. Specifically, the JICA Vanuatu office SM II instructed PVCC to he on-site roads and new ection vehicles can reach n in the heavy rain. PVCC ucture and Public Utilities ad drainage pipes (one of ength of about 102m, and
OVI 2-4: Monitoring results of SWM activities are reflected inthe annual SWM Plan (2022).	tivities are analyzed and waste flow was updated.	
3. Economic incentive scheme is initiated for promotion of 3R + Return in Vanuatu.		Progress: Achieved
OVI 3-1: Documents necessary to progress the container deposit legislation are prepared.	• A series of CDS Technical Work held and the documents nece container deposit legislation (i.e. of prepared by DEPC.	essary to progress the

4.5 Achievement of the Project purpose

A foundation of implementing and monitoring SWM activities in line with the Vanuatu National Waste Management and Pollution Control Strategy (NWMPCS) is built.		
OVI 1: Based on the monitoring results of NWMPCS 2016-2020, the gaps and issues of the implementation plan are evaluated and reflected to the next term of NWMPCS.	 Progress of NWMPCS 2016-2020 (2017, 2018, 2019 and 2020). I reflected in the detailed action pla 2019 and 2020 respectively. A detailed action plan, including a of NWMPCS, was renewed annua to enhance their institutional capace NWMPCS through the practice of The final evaluation report on NV compiled and the gaps and issue plan were evaluated. 	Monitoring results were an of priority activities in annual monitoring report Ily, which enables DEPC city and to implement the PDCA cycle. VMPCS 2016-2020 was

4.6 Recommendation towards achievement of Overall Goal

The counterparts in Vanuatu discussed the recommendations for achieving the overall goal (Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016-2025 (Cleaner Pacific 2025)) in the 5th JCC meeting and its results are summarised below.

4.6.1 Capacity Development of Municipal Solid Waste Management (SWM) Through Inter-Municipality Cooperation

DEPC is expected to proactively promote SWM capacity development in municipalities, in

collaboration with the Department of Local Authorities (DLA) of the Ministry of Internal Affairs, and relevant ministries and agencies.

4.6.2 Renewal of the NWMPCS2016–2020

The Vanuatu National Waste Management, Pollution Control Strategy and Implementation Plan 2016–2020 needs to be renewed. In addition, the National Waste Minimisation Plan 2021–2025 (Draft) is expected to be endorsed and implemented.

4.6.3 Implementation of a Container Deposit Scheme (CDS)

The practice of 3R+Return by means of a CDS will contribute greatly to solving SWM problems unique to island countries. The Government of Vanuatu is expected to launch CDS without any further delay. A CDS based on participative management by multiple enterprises is an advanced initiative in the Pacific region, and is expected to become a model for south-to-south cooperation. In addition, it is also expected that the scope of the system will be expanded in the future to include electrical appliances, waste batteries, and automobiles.

4.6.4 Strengthening PVCC's waste management capacity

PVCC is expected to strengthen its solid waste management capacity in implementing the "SWM Plan 2021-2030" by paying attention to the following points.

a. Improvement of financial management through independent account for SWM

Financial management improvement is one of the priority activities in 2022 that was decided in the previous JCC meeting. PVCC should reinforce the financial management system so that the income generated from the yellow bags selling and gate fee will be used properly for SWM.

b. Urgent improvements to the next landfill section at Bouffa disposal site

As the existing cell (landfill area) of the Bouffa disposal site is already full, the construction of a new access road and the expansion of the next cell is urgently needed.

c. Appropriate maintenance of waste disposal equipment

Waste management (collection, transport and landfill) is not possible without equipment. In order to continue with proper waste management, PVCC is required to ensure that equipment is well maintained to keep it in good condition at all times.

4.7 Capacity Assessment

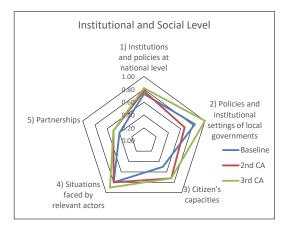
4.7.1 3rd Capacity Assessment

In the third term, the third CA (endline) was conducted by interviewing the progress of project activities with the country-wise experts and using the checklist as a questionnaire to the main counterparts from 16 August and 31 August 2022. The results of the third CA are shown in the figure below.

In the third term, the capacity of 2) Policies and institutional settings of local governments has improved. For example, PVCC established waste management by-law No. 6 of 2021, stipulating waste collection rules, dated 22 April 2021. In addition, PVCC and LMC formulated the SWM Plan 2021-2030. Also, the capacity of 4) Situations faced by relevant actors and 5) Partnerships enhanced because the government's encouragement of recycling projects by

private companies was strengthened through the establishment of the Vanuatu Recycling Association.

Compared to the baseline, in the 2nd CA, Vanuatu experienced a temporary decline in capacity. However, through the formulation and implementation of DPEC's NWMPC2016-2020 and municipalities' SWM plan, the capacity of 2) Policies and institutional settings of local governments greatly improved. In addition, as the PVCC's waste collection services improved, 3) Citizen's capacities, such as the cooperation of residents in discharging garbage using paid garbage bags and the reduction of road garbage, also improved.





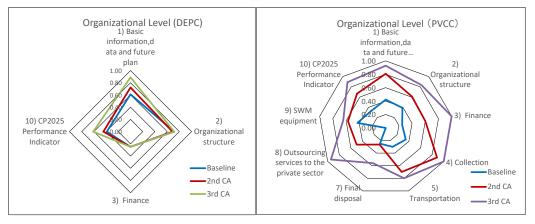


Figure 4-2 CA results at the Organizational level in Vanuatu

5 Kingdom of Tonga

5.1 Outline of the Project

5.1.1 Project Purpose

A foundation of sustainable solid waste management is built in the Tongan outer islands*1, with emphasis on practical implementation.

5.1.2 Output

a. Output 1

WAL's 5 year business plan for expanding waste management services throughout Tonga is formulated.

b. Output 2

WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strengthened through providing waste management service in Vava'u.

c. Output 3

SWM action plans for the main islands of Ha'apai and Eua are developed.

d. Output 4

WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strengthened through providing waste management service in Ha'apai and 'Eua.

5.2 Activities

5.2.1 Activities related to Output 1

WAL issues a "Business Plan" annually. The result of Baseline Survey (Activity 1-1) was reflected in the "Business Plan" which aimed to expand waste management service to outer islands. In August 2017, WAL clearly provided a statement of expansion of waste operations in Vava'u, Ha'apai and 'Eua in the "Combine Utilities Business Plan 2018 - 2022", an integrated 5-year business plan of multiple public enterprises under the Ministry of Public Enterprise. In the second term, WAL together with experts have studied collected data on the amount of waste carried into Tapuhia landfill and estimated the total amount of waste throughout Tonga (Activity 1-2) and assessed the current solid waste management and implementing capacity (Activity 1-3), and developed "Ha'apai Waste Management Service Plan" and "Eua Waste Management Service Plan" accordingly (Activity 1-4). Furthermore, WAL has studied Vava'u's financial state; revenues and expenditures on waste management service in order to consider financial sustainability (Activity 1-5).

In the third term, the financial state in Vava'u was continuously monitored to study financial sustainability for expanding waste services to outer islands.

Activities	Results of activities
1-1 Conduct the waste management baseline survey for mainly Tongatapu island	 Following survey was conducted; A) Collection and review of law and regulation

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Activities	Results of activities	
1-1 Conduct the waste management baseline survey for mainly Tongatapu	 B) Incoming waste to landfill site (data analysis) 	
island	C) Time & Motion survey for observing waste collection situation	
	D) Review of waste collection schedule and its actual performance	
	 E) Collection of census information 	
	F) Collection of geographical information	
	G) Review of financial information,	
	 H) UAV topographic survey for landfill site 	
	 I) Observation accompanying customer service survey 	
1-2 Conduct Waste Amount and Composition Surveys (WACS) to identify the generation amount and characteristics of solid waste throughout Tonga (if necessary).	 WAL is responsible for discharge waste for collection service instead of generation amount. Thus, this project collected data on the amount of wast carried into Tapuhia landfill an estimated the total amount of wast throughout Tonga. I 	
1-3 Assess the current solid waste management implementing capacity (human resources, technical skills, business system, asset, capital, etc.) of WAL.	 Information was continuously gathered on implementation capacity of SWM for WAL's business expansion toward remote islands. At WAL's headquarters a manager in charge of accountings public relations and disposal site operation is assigned. Before the start of the service in Vava'u, the manager of Vava'u office was received OJT at the headquarters, and after the launch each manager is dispatched as needed to provide technical guidance in respective aspect. From this, it can be evaluated that as for human resources technical skills and busines implementation system WAL has a basic skills of implementing SWM that i necessary for the service expansion to the remote islands. 	

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Activities	Results of activities
1-4 Formulate WAL's 5 year business plans of expanding the waste management service area into the Tongan outer islands, in line with Waste Management Act 2005 and other official documents concerned national policy.	 WAL issued "Combine Utilities Business Plan 2018 - 2022" in August 2017. The plan states that "Waste Management Services – Extension to Outer Islands" set as second priority for next 2 years. The plan was commonly issued among Utility Public Enterprises including Tonga Power Limited, Water Board, and others as the name of plan indicates. WAL issued "Business Plan" annually. The plan mentioned the expanding the waste management service area into the Tongan outer islands.
1-5 Study on financial sustainability for expanding waste management services to the Tongan outer islands.	 Vava'u's financial state of revenues and expenditures was confirmed. Sustainability for service expansion to outer islands was examined based on actual figures of revenues and expenditures.

5.2.2 Activities related to Output 2

WAL and JICA Expert Team reviewed the draft Solid Waste Management Plan of Vava'u and supplementary conduct the baseline survey (Activity 2-1). Base on this, the project formulated an action plan of expanding the waste management services in Vava'u (Activity 2-2). WAL conducted stakeholders meeting in Vava'u in July 2017 (Activity 2-5) and started waste management service in April, 2018 (Activity 2-6). Especially in this term, WAL developed monitoring system and conducted OJT regarding collection/ landfill to provide waste management service in Vava'u, and made it used for sustainable SWM capacity development (Activity 2-3 and Activity 2-4). To date, WAL reviewed the result of implementation of waste management service in Vava'u in which emphasized monitoring results and attempt to utilize the results to expand their waste management service into other outer islands (Activity 2-7). In the third term, the status of waste management service in Vava'u such as operation of collection vehicles and landfill site was continuously reviewed. The details of Output 2 activities are described below.

Activities	Results of activities
2-1 Review the draft Solid Waste Management Plan of Vava'u and supplementary conduct the baseline survey.	• The draft reviewed. WAL's waste management service to Vava'u will be a little different approach from the proposed collection system in the draft. Because, the draft argues that waste collection conducted by each community initiative assuming without public service

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Activities	Results of activities
2-1 Review the draft Solid Waste Management Plan of Vava'u and supplementary conduct the baseline survey.	 Supplementary baseline survey has been conducted including following items; geographical information, population census, UAV topographic survey for landfill site, on-site observation survey for collection route. Besides, discharging amount rate per capita is estimated based on the survey result in Tongatapu.
2-2 Formulate an action plan of expanding the waste management services in Vava'u.	 Action plan to commence the waste management service since Jan 2018 was formulated Waste management service plan formulated including objective figures; planned service population and place, planned collection amount, planned revenue (waste management service fee) and planned expenditure Waste collection service schedule and detailed route were drafted
2-3 Prepare the monitoring sheet of service operation for Vava'u office.	 Truck driver's operation record that is supposed to be a component of the monitoring sheet was developed. After the service commenced, other monitoring sheets were developed to check whether the collection service according to schedule is provided or not. Monitoring sheet for daily work of landfill manger was developed.
2-4 Conduct OJT such as waste collection service, landfill operation, public awareness raising, etc. for WAL to provide waste management service in Vava'u	 At WAL headquarter, a manager in charge of accountings, public relations and disposal site operation is assigned. Before the start of the service in Vava'u, the manager of Vava'u office was provided OJT at the headquarters, and after the launch, each manager is dispatched as needed to provide technical guidance in respective aspect. WAL Vava'u Branch manager and JICA Experts conducted OJT on waste collection service, landfill disposal, and public awareness for his staff JICA Experts provided Landfill operation with an operator of heavy machine at Kalaka Landfill.

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Activities	Results of activities
2-5 WAL conducts stakeholders meeting in Vava'u.	The project conducted stakeholders meeting on Jul 2017. WAL CEO presented stakeholders including Lord Governor, representatives from ministries, representatives from residents about WAL business plan in Vava'u
2-6 WAL implements the waste management service in Vava'u.	WAL started waste management service in Vava'u in May, 2018
2-7 Review the result of implementation of waste management service in Vava'u.	 WAL conducted a review of implementation after commencement of service. The review was continued and compiled as a monitoring report based on the result of two year monitoring. Operation and monitoring status of Vava'u's waste management service (collection and landfill management) was continuously reviewed.

5.2.3 Activities related to Output 3

WAL and JICA Experts conducted Baseline Survey in Ha'apai and 'Eua (Activity 3-2). In Ha'apai, WAL and JICA Experts organized Stakeholders Meeting (Activity 3-1) and developed "Action Plan for providing waste management service" (Activity 3-3). In 'Eua, WAL drafted the Action Plan and organized a Stakeholders Meeting for 'Eua people between in August 2020. The details of Output 3 activities are described below.

۸ م ان بنانه م	Desults of estivities	
Activities	Results of activities	
3-1 Facilitate inception workshops for action plan for the main islands of Ha'apai and Eua.	 A stakeholders meeting was conducted in December, 2018. CEO of WAL gives an explanation on business summary the governor and community leaders Ha'apai. In 'Eua, WAL has prepared for the stakeholders meeting which would held in March 2020, but it was postponed due to COVID19. 	
	 Postponed stakeholders meeting in 'Eua was held in August 2020, and the action plan was explained. 	
3-2 Conduct baseline surveys to develop the Action plan and Business implementation plan of the main islands of Ha'apai and Eua.	 Baseline survey was conducted Ha'apai in December, 2018 and 'Eua December 2019. Following informatic was reviewed; A) Law and regulation B) Geographical C) Demographic D) Amount of final disposal waste E) Cash forecast F) Waste collection route, etc. 	

Activities	Results of activities
3-3 Formulate the Action plan(s) for providing waste management service to the main islands of Ha'apai and Eua based on the experience in Vava'u and the results of stakeholder's workshops held in these islands.	Plan on Ha'apai's Waste Management Service Plan was developed.

5.2.4 Activities related to Output 4

PDM was revised and activities related to Output 4 were added in the 3rd JCC meeting held in October 2020. WAL commenced waste management service in 'Eua and Ha'apai on October and November 2020 respectively (Activity 4-3). Around the time of the launch, WAL dispatched Vava'u branch manager and conducted OJT on collection, landfill and monitoring methodology for managing vehicle operation (Activity 4-1, 4-2).

Activities	Results of activities
4-1 Prepare the monitoring sheet of service operation for Ha'apai and 'Eua office.	Ha'apai and Eua office has started to record the operation of collection vehicles by using same monitoring sheet in Va'vau.f
2-4 Conduct OJT such as waste collection service, landfill operation, public awareness raising, etc. for WAL to provide waste management service in Ha'apai and 'Eua	 Around the time of the launch of waste management service, WAL dispatched Vava'u branch manager and conducted OJT on collection and monitoring methodology for managing vehicle operation in 'Eua. WAL dispatched Vava'u branch manager and conducted OJT on collection, landfill and monitoring methodology for managing vehicle operation in 'Ha'apai.
2-6 WAL implements the waste management service in Ha'apai and 'Eua.	 WAL started waste management service in 'Eua in October, 2020. WAL started waste management service in Ha'apai in November, 2020.
2-7 Review the result of implementation of waste management service in Ha'apai and 'Eua.	• By gathering collection vehicle records of monitoring sheet, the state of waste collection service in Ha'apai and 'Eua was confirmed.

5.3 Challenges and lessons learnt during the Project implementation

5.3.1 Working with WAL Headquarters' Staff

J-PRISM 2 aims at technical assistance on WAL's service extension to outer islands namely Vava'u. Meanwhile WAL's primary business is in Tongatapu even after they extended to outer islands. Thus, JICA Experts emphasized in working with WAL headhunters staff; a manager in charge of Accountings, Public Relations and Disposal Site Operation is assigned, while it mainly focuses on service extension to outer islands. Specifically, JICA experts discussed "Eua Waste Management Service Plan" frequently with WAL staff in WAL's Managers Meeting. It enable people attending the meeting including WAL CEO to do a quick decision, such as diversion of budget funds between Main Island and Outer islands. And WAL CEO

accompanied JICA experts to join "Baseline Survey in Outer Island" and "Current Situation Survey in Vava'u" to identify the status and problems of activity at the site. This made it possible to do quick response for problems through discussion between the CEO and JICA Experts.

5.3.2 Accumulation data of WAL's income and expenditure on waste management service in Vava'u

WAL has accumulated its income and expenditure data on waste management in Vava'u since June, 2018, and almost two years' worth of data was consolidated. It was a very precious example, because WAL has operated and provided waste management service by collected waste fee, without subsidies from central government. In particular, as of August 2022, WAL Vava'u Branch, to which J-PRISM II has mainly provided support, can operate without the diversion of budget from the main island (Tongatapu Island). There is possibly their work will be shown as quantified success story.

5.3.3 Operation manual for Kalaka Landfill focus on practical use

With regard to revision of operation manual for Kalaka landfill, JET carried out sufficient discussion with working level staff and provided on the job training at the landfill as well. These discussions and lesson learned from the OJT were reflected to the operational manual. And then, JET developed a check sheet for security officers at Kalaka landfill to facilitate self-care in accordance with the manual. The data and information from the check sheet will offer helpful perspective to improve the manual and reviewing by using check sheet" at once developed a practicable operation manual. This check sheet will also be introduced to landfill management on Ha'apai and 'Eua. It is expected that the on-site situation will improve as soon as possible.

5.3.4 Remote assistance under the coronavirus pandemics

Due to the spread of the infection of coronavirus, short-term experts were unable to visit the filed since March 2020. Shifting to email communication with C/Ps and remote assistance based on their requests, the experts participated online from Japan in the 3rd JCC held in October 2020. With little prospects to field visit, a routine of virtual C/P meeting to catch up the progress was established and the remote assistance (on-line vehicle operation and maintenance training) were conducted.

5.4 Achievement of the Outputs

1. WAL's 5 year business plan for expanding waste management services throughout Tonga is formulated. Progress: Achieved		
OVI 1-1: WAL's 5 year business plan for providing waste management services in the Tongan outer islands is approved by WAL board meeting and submitted to Ministry of Public Enterprise	 WAL's 5 years business plan was formulated in Au 2017 and approved by board meeting. It also wa already submitted to the Ministry of public enterprise WAL issued "Business Plan" annually which envisage the expanding the waste management service are into the Tongan outer islands. 	
OVI 1-2: Necessary human resources, technical support, infrastructure, capital are incorporated into the WAL's 5 year business plan.	 WAL developed "Waste Manage Vava'u, Ha'apai and "Eua. T necessary human resource, ope financial scheme 	hese plans mention

service operation for Ha'apai

and 'Eua office.

1. WAL's 5 year business plan for expanding waste management Progress: Achieved services throughout Tonga is formulated. OVI 1-3: Mid-long term of • Mid-long term of WAL's Objectives and Strategies was WAL's Objectives stated in WAL's 5 years business plan and Strategies are specified in 5 years Business Plan 2. WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strengthened through providing waste **Progress: Achieved** management service in Vava'u. OVI 2-1: WAL collects solid By using monitoring sheet since February 2018, it has • waste in accordance with the been confirmed that WAL collects solid waste collection schedule in Vava'u. management in accordance with collection schedule in Vava'u. OVI 2-2: WAL operates and Landfill operation manual was developed in March, • maintains Kalaka landfill site 2019. WAL Vava'u office follows the rules of the according to O&M manual to manual, conducts a monitoring, and records the be updated through OJT. monitoring results. OVI 2-3: WAL Vava'u office WAL Vava'u office developed and utilized monitoring • manages waste collection sheets to manage the service operation landfill activities and in accordance with the monitoring sheet of service operation for Vava'u office. 3. SWM action plans for the main islands of Ha'apai and Eua are Progress: Achieved developed. OVI 3-1: Actual situation of • A baseline survey was conducted in Ha'apai in solid waste management in November 2018, and 'Eua in December 2019. the main islands of Ha'apai and Eua is grasped. OVI 3-2: WAL identifies the • Stakeholders meetings for Ha'pai and 'Eua were issues to be solved for conducted in December, 2018 and August 2020 to providing solid discuss issues to be solved for providing waste waste management service in the management service. main islands of Ha'apai and Eua. 4. WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strengthened through providing waste Progress: Achieved management service in Ha'apai and 'Eua. OVI 4-1: WAL collects solid ٠ WAL started the waste service in 'Eua and Ha'apai in waste in accordance with the November and December 2020 respectively and collection schedule in Ha'apai continue the services according to the collection and 'Eua. schedule. OVI 4-2: WAL office manages Both Ha'apai and 'Eua office introduced the monitoring • waste collection and landfill sheets of service operation. It was confirmed that both activities in accordance with Ha'apai and 'Eua office have been compiling the the monitoring sheet results of monitoring to manage the waste collection of

and landfill activity,

5.5 Achievement of the Project purpose

A foundation of sustainable solid waste management is built in the Tongan outer islands*1, with emphasis on practical implementation.			Progress: Almost achieved
OVI 1: SWM action plan of Tongan outer islands is reflected in WAL's 5 year business plan.	in the WAL's 5 years plan, contained in Combine		ontained in Combine- 022. Action plans for the annual Business
OVI 2: 100% of households in the main island of Vava'u receive waste collection service provided by WAL by the end of the Project.	he main island of Vava'u service to all households in th receive waste collection service provided by WAL by		the main island, and
OVI 3: The waste fee collection rate in Vava'u exceeds 80% due to the improvement of public awareness.	• The	average rate (June 2018 – 、	July 2019) was 82.9%.

5.6 Recommendation towards achievement of Overall Goal

In order to achieve the overall goal "Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016-2025 (Cleaner Pacific 2025)", in Tonga it is advisable to formulate the national solid waste management strategy. In addition to that, at the implementation level, it is advisable to strengthen the capacity for upgrading the landfill site and landfill management.

5.7 Capacity Assessment

5.7.1 3rd Capacity Assessment

In the third term, the third CA (endline) was conducted by monitoring the project activities and using the checklist from 5 to 9 September 2022. The results of the third CA are shown in the figure below.

At the institutional and social level, the item of 3) Citizen's Capacity improved in the third term. This is because WAL notified how to discharge and conducted the awareness program against illegal dumping in various ways such as radio program and warning signboard, after they started waste collection services in 'Eua and Ha'apai since 2020 in addition to Vava'u. It was confirmed the illegal dumping on roads and public places by residents have decreased. Since the Project focus on the implementation of solid waste management on remote islands, compared to the baseline period, the capacity of policies and institutions at the national level and the capacity of relevant actors including the private sector regarding the situation has no improvement was observed.

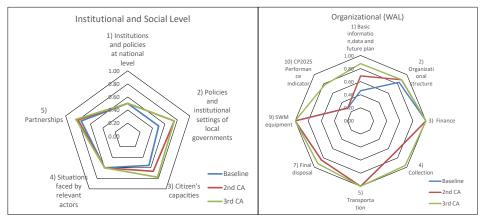


Figure 5-1 CA results at the Institutional/Social and Organizational Level in Tonga

The organizational level capacity of WAL, as the implementing agency of the SWM, had high capacity from the baseline. In the third term, the monitoring method for waste management introduced on Vava'u (vehicle daily report, incoming wastes at the dumping site, etc.) was also adopted on each remote island, and records have been continuously recorded since the start of the service. It led to the additional points for improving the capacity of 4) Collection.

In addition, as the result that the C/P, the manager of WAL Vava'u branch, has gained experience in training in Japan and participating in a Waste Audit on Vava'u Island, it can be said that the knowledge related to 1) Basic information, data and future plan and 10) CP2025 performance indicators. In order to continue to improve WAL's capacity to implement waste management projects at the organizational level, it is hoped that knowledge of waste management will be disseminated within the organization and that management capacity will be further improved based on data.

6 Independent State of Samoa

6.1 Outline of the Project

6.1.1 **Project Purpose**

Solid waste is appropriately managed based on the National Waste Management Strategy (NWMS).

6.1.2 Output

a. Output 1

NSWMS is developed.

b. Output 2

Rubbish collection monitoring system is established.

c. Output 3

Feasibility study on financial option (user pay system) is implemented.

6.2 Activities

6.2.1 Activities related to Output 1

As for Output 1, throughout the period of the 1st term, baseline survey was conducted and the result was summarized (Activity 1-1, 1-2) in line with confirmation of formulation process of NSWMS and identification of the members of working group and stakeholders (Activity 1-3, 1-4) then, draft framework of NSWMS was developed. In the 2nd term, based on the draft framework, the first draft of the strategy with whole contents was developed and it was discussed during the working group and stakeholder meetings (Activity 1-6) then finalized in October 2018 as "National Waste Management Strategy 2019-2023" which integrates Solid Waste Management Strategy and Chemical and Hazardous Waste Management Strategy (Activity 1-7). The final draft was approved by the cabinet in January 2019, then additional activities (Activity 1-8 - 1-10) which support implementation phase of the strategy were added in the 2nd JCC. FY2019 (started from July 2019) is the first implementation year of the strategy and the planning and monitoring on implementation and progress were followed up (Activity 1-8 - 1-10). During the 3rd term, due to the restriction on public gathering caused by COVID-19, the steering committee meeting wasn't conducted in FY2020 but the progress report was developed and circulated to the steering committee member in May 2022 (Activity 1-8 - 1-10). Details on the progress of activities under output 1 are shown in the table below.

Activities	Results of activities	
1-1 Conduct Baseline Survey	Baseline Survey was completed.	
	 Incoming waste record will be continued 	
1-2 Summarize the result of Baseline Survey	• Result of the Baseline survey was summarized in the strategy.	
1-3 Clarify the process of formulation of NSWMS	The process was clarified based or discussions with C/P.	

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Activities	Results of activities
1-4 Identify the working group and stakeholders related to the formulation of NSWMS	• Based on discussions with C/P, the stakeholders were identified (ministries and government agencies, private sector and community). In addition to that, steering committee consists from CEOs and ACEOs and technical working group consist from Principal Officer of relevant ministries and government agencies were formulated.
1-5 Develop the draft NSWMS	 The first draft was developed based on the agreed framework with C/P and the result of internal meeting in DEC. The second draft was developed based on the result of discussions during 1st Steering committee meeting, Consultation meeting for private sector and community.
1-6 Conduct working group meeting and stakeholder meeting based on the formulation process of NSWMS.	 Based on the agreed formulation process, following meetings were conducted Internal meeting in DEC 1st Steering committee meeting Consultation meeting for private sector Consultation meeting for community Technical working group meeting 2nd Steering committee meeting
1-7 Finalize the draft NSWMS	 The draft was finalized based on the result of discussions during technical working group and 2nd Steering committee meeting. The final draft was submitted to the cabinet and approved in January 2019. Official launching of the strategy was conducted in November 2019.
1-8 Assist Developing annual management plan and implementation plan	 Annual Management Plan for FY 2019 – 2022 was developed.
1-9 Coordinate and monitor the progress of implementation of the Action Plan	• The progress of implementation of the Action Plan for FY2019 -2021 was coordinated and monitored.
1-10 Review the Action Plan based on the progress of implementation	 The steering committee for FY2019 was conducted and the progress of implementation was summarized as of February 2020 (There was no revision of action plan in FY2019.). The progress report as of May 2022 was developed and circulated to the steering committee member.

6.2.2 Activities related to Output 2

Output2 was added based on the 2nd JCC conducted in January 2019. Implementation was stared from March 2019, existing documents were collected and analyzed (Activity 2-1), then based on the result, the framework of rubbish collection monitoring system was designed (Activity 2-2). Stakeholder meeting was conducted in November 2019 (Activity 2-3). Based on the result of discussion, the framework was finalized (Activity 2-4). Preparation for the rubbish collection monitoring system was done by February 2020 (Activity 2-5). In March, trial for the monitoring system was commenced (Activity 2-6). During the 3rd term, the trial was continued until October 2020 then, the monitoring system was fully introduced since November 2020 when the contract of rubbish collection service was renewed. The data obtained from rubbish collection monitoring system was summarized and analyzed continuously (Activity 2-7). Details on the progress of activities under output 2 are shown in the table below.

Activities	Results of activities	
2-1 Collect and analyze existing documents (Terms and references in the current contract, payment process to contractors, on site inspection report, incoming waste record at landfill and etc.)	• Existing documents were collected and analyzed (Terms and references in the current contract, payment process to contractors, on site inspection report, incoming waste record at landfill and etc.)	
2-2 Based on the result of 2-1, design the framework of rubbish collection monitoring system (Performance Report, Daily Report, Monthly Report, Performance Evaluation Sheet, Roles and Responsibility, Workflow chart)	Based on the result of 2-1, the framework of rubbish collection monitoring system was designed (Long Term Performance Evaluation, Monthly Performance Evaluation, Work Plan / Work Report, Complain Record, Incoming Waste Record, Roles and Responsibility, Workflow chart)	
2-3 Conduct stakeholder meeting on rubbish collection monitoring system (Contractor, Relevant ministries and government agencies, Community)	 Stakeholder meeting on rubbish collection monitoring system was conducted (Contractor, Relevant ministries and government agencies, relevant section in MNRE) Meeting with Community was not conducted due to the coordination with government stakeholders and contractors was prioritized in the process of design for the monitoring system. 	
2-4 Based on the result of 2-3, finalize the framework of rubbish collection monitoring system	 Based on the result of 2-3, the framework of rubbish collection monitoring system was finalized (Some modification could be made based on the feedback obtained during the trial period with regards to 2-6.) 	
2-5 Prepare for the operation of rubbish collection monitoring system	Preparation was done for the operation of rubbish collection monitoring system	
2-6 Commence operation of rubbish collection monitoring system	• The trial of the monitoring system was commenced from March 2020 until October 2020.	

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Activities	Results of activities	
2-6 Commence operation of rubbish collection monitoring system	• The monitoring system was fully introduced since November 2020.	
2-7 Summarize and analyze data obtained from rubbish collection monitoring system	• The data obtained from rubbish collection monitoring system was summarized and analyzed continuously.	

6.2.3 Activities related to Output 3

Output3 was added based on the 2nd JCC conducted in January 2019. Implementation was stared from April 2019, existing documents were collected and analyzed (Activity 3-1), then preliminary survey was conducted prior to the detail consideration of the system (Activity3-2). In September 2019, study tour to Vanuatu, Tonga and Fiji where already introduced user pay system was conducted (Activity 3-3). Based on these results, options to introduce the system were developed (Activity 3-4). The options were discussed among stakeholders during the steering committee in February 2020 (Activity 3-5) and it was basically agreed to continue further discussion and consideration on pay as you go prepaid bag user pay system based on Vanuatu model. As for public consultation meeting (Activity 3-6), based on the request from C/Ps to conduct within the 2nd term, preparation was in progress. However, due to pandemic of corona virus, the meeting was postponed. During the 3rd term, still implementation was affected by restriction of public gathering caused by COVID-19 and political instability after national election in Samoa, but public consultation was conducted with using questionnaire (Activity 3-6) then draft proposed system was developed (Activity 3-7). Steering committee was conducted on 22nd June 2022 where proposed system was discussed (Activity 3-8) and then recommendation and future direction was summarized. During the 3rd Joint Coordinating Committee meeting, Activity 3-6 and 3-9 were modified considering the situation of COVID-19. Details on the progress of activities under output 3 are shown in the table below.

Activities	Results of activities	
3-1 Collect existing information (such as other countries' case and past documents in Samoa)	• Existing documents and information were collected (Cases of user pay system in Tonga, Vanuatu and New Zealand and documents and discussions on user pay method in Samoa for Electricity, Water and phone).	
3-2 Conduct preliminary survey (legal framework, profiling stakeholders, initial estimation)	• Preliminary survey was conducted (Confirmation of legal framework and development of draft Legal Advice Request to legal expert, profiling stakeholders, simple initial estimation based on documents and information collected through 3-1)	
3-3 Conduct study tour to countries where already introduced user pay system (such as prepaid bag, co-billing system with electricity)	• Study tour was conducted to the countries where already introduced user pay system; Vanuatu (Prepaid bag), Tonga (co-billing system with electricity) and Fiji (Waste fee).	

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Activities	Results of activities
3-4 Prepare options to introduce the system	 Following options to introduce the system were prepared; Prepaid bag system based on Vanuatu model, Co- billing system with water based on Tonga model.
3-5 Conduct steering committee	• Steering committee was conducted in February 2020 in which the options prepared under 3-4 were discussed among stakeholders from relevant ministries and government agencies.
3-6 Conduct public consultation	 Public consultation had been suspended due to COVID-19 but conducted in May 2022 with using questionnaire.
3-7 Develop draft proposed system	 Based on opinions obtained by Activity 3-6, draft proposed system was developed.
3-8 Finalize the proposed system on steering committee	• Steering committee was conducted on 22nd June 2022 where draft proposed system developed in Activity 3-7 was discussed.
3-9 Summarize recommendation and future direction on proposed system	• Based on discussion in Activity 3-8, recommendation and future direction on proposed system was summarized.

6.3 Challenges and lessons learnt during the Project implementation

6.3.1 Formulation of integrated National Waste Management Strategy

Output 1 of Samoa is focused on support for formulation of solid waste management strategy. However, during the process of formulation of the strategy, it was confirmed that C/P was willing to formulate chemical and hazardous waste management strategy at the same time of formulating the solid waste management strategy.

Considering the situation, relevant staffs discussed and agreed on formulating integrated National Waste Management Strategy which includes both solid waste management and chemical and hazardous waste management on condition that C/P's officer in charge of chemical and hazardous waste management would develop the chemical and hazardous waste management officer of SPREP within designated period. Since the chemical and hazardous waste part was developed within the period, integrated National Waste Management Strategy was developed.

Formulation of the integrated strategy effectively contributed to enhance motivation and interest of C/P and relevant ministries on the formulation of the strategy.

6.3.2 Collaboration with SPREP during the process of formulating strategy

During the formulation of the strategy, the project tried working with SPREP's officer as much as possible. Especially, the project asked SPREP's officer in charge of solid waste to attend series of meetings and obtained advice on the formulation process and structure of the strategy.

As it was mentioned above, C/P's officer in charge of chemical and hazardous waste

management developed the chemical and hazardous waste management part with relevant officer of SPREP.

It was possible to share the same understanding on priority issues by developing national strategy among JICA, SPREP and C/P.

6.3.3 Promotion of practical learning and knowledge exchange in region through implementation of study tour

Under output3 for Samoa, prior to the consideration of options for user pay system, study tour to Vanuatu, Tonga and Fiji was conducted for Samoa to learn from neighbor countries.

Since the program was designed clearly focusing on user pay system, the participants kept highly motivated and the tour became an opportunity for practical learning. Right after the tour, the participants from Samoa developed report which summarized the result of the tour, then options for user pay system were developed based on the report.

On the other hand, the tour not only provided an opportunity for Samoan to learn from their visited countries, there was an opportunity for both sides; those hosted and participants from Samoa to exchange knowledge and learn from each of countries. Especially from Tongan side, there was a suggestion to learn waste management in Samoa by visiting Samoa in near future. Thus, there was indication of possibility that international relationship developed through the tour may assist further inter-regional cooperation.

6.3.4 Continuous implementation of activity by conducting appropriate remote meeting

When there is no clear outlook of traveling to Samoa due to the impact of COVID-19, conducting remote meetings at appropriate times enabled to confirm the progress of each activity, the local situation regarding COVID-19 and national election, and the policy of implementation of activities on remote and was effective for the continuation of the project activities. On the other hand, in Samoa, there are increasing number of opportunities of remote meetings for C/P including other donors. Therefore, in order to utilize remote meetings, it is important to consider the pressure on C/P's resources caused by remote meetings then schedule the meeting on appropriate frequency by clarifying the purpose of the meetings and agenda to be discussed.

6.3.5 Accelerating progress of activities by resuming field work

Possibility of traveling to Samoa had been pursued even under the COVID-19 outbreak situation and it was realized in March 2022. Resume of field work accelerated progress of activities. Direct communication with C/P in Samoa which enabled the project to discuss, consider and plan on feasible implementation option under restriction caused by COVID-19, then public consultation and steering committee under output 3 were conducted which had been suspended and since the outbreak of the COVID-19.

6.4 Achievement of the Outputs

1. NSWMS is developed. Progress: Achieve		Progress: Achieved
OVI1-1: The draft final NSWMS with consensus among stakeholders is submitted to the Cabinet	 The strategy was formulated Management Strategy by int management and chemical a management. The draft was fin among stakeholders by cond government ministries, private s submitted and approved by th 2019. 	egrating solid waste nd hazardous waste alized with consensus ucting meetings with sector. Final draft was
2. Rubbish collection m	2. Rubbish collection monitoring system is established. Progress: Achieved	
OVI2-1: Data for rubbish collection monitoring system is collected on a regular basis	Rubbish collection monitoring system was fully introduced since November 2020 and the data from the system is collected on a regular basis.	
OVI2-2: Supervision to the contractor is made based on the data collected from the system	Based on the data collected from the rubbish collection monitoring system, contractor's work is evaluated and necessary supervisions are being made.	
OVI2-3: Revised contract format is proposed based on the rubbish monitoring system	 Revision of contract document based on rubbish collection monitoring system was proposed, then installation of GPS and the description on noncompliance penalty were included and collection map was attached with the new contract. 	
	ancial option (user pay system) is pplemented.	Progress: Achieved
OVI3-1: Suitable system is consulted with public and stakeholders	 The 1st Steering Committee was conducted and options for user pay system was discussed with relevant ministries and government agencies. By targeting public in the country, public consultation was conducted and opinions on user pay option were 	
	collected.	user pay option were
OVI3-2: Suitable system is determined on steering committee	• The second steering committee meeting was conducted and discussion was made to determine suitable system which to be further considered.	
OVI3-3: Recommendation and future direction on user pay system is summarized	 Recommendation and future of system was summarized. 	lirection on user pay

6.5 Achievement of the Project purpose

	ely managed based on the National ent Strategy (NWMS).	Progress: Achieved
OVI 1-1: Top priority activities listed in the NWMS related to waste collection service are implemented.	• Top priority activities listed in the NWMS related to waste collection service were implemented though implementation of output 2 and output 3.	
OVI 1-2: Annual Management Plan is developed based on the NSWMS.	 Through activity 1-8, Annual N FY2019 - FY2022 was develope 	

	ely managed based on the National nent Strategy (NWMS).	Progress: Achieved
OVI 1-3: Basic data on SWM is updated as scheduled in the NSWMS. Basic data on SWM was updated based on the of the filed survey implemented in relation NSWMS.		

6.6 Recommendation towards achievement of Overall Goal

Towards achievement of overall goal (Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016 -2025 (Cleaner Pacific 2025).), for Samoa, it is necessary to continue PDCA cycle by implementing waste management based on the National Waste Management Strategy and regularly evaluate and revise the strategy.

6.7 Capacity Assessment

6.7.1 3rd Capacity Assessment

In the third term, the third CA (endline) was conducted by interviewing the progress of project activities with the country-wise experts and using the checklist as a questionnaire to the main counterparts from July 13th to July 21st, 2022. The results of the third CA are shown in the figure below.

In the third term, MNRE conducted a public consultation in May 2022, and the results of "Citizen's awareness toward wastes" and "Willingness to pay for waste" in the questionnaire were reflected in the results of 3) Citizen's capacities and 4) Partnership. In addition, various recycling activities after the establishment of the Samoa Recycling Waste Management Association led to additional points for 4) Situations faced by relevant actors. Compared to the baseline, 2) Policies and institutional settings of local governments have improved significantly. This is because, in Samoa, where there are no local governments, MNRE formulated the National Waste Management Strategy, the municipality's waste management plan, as the implementing agency of waste management. In addition, it can be said that the establishment of a steering committee as a forum for stakeholder consultations on waste management, such as formulating a national solid waste strategy and monitoring the implementation of the strategy, has led to strengthening of capacity in terms of partnerships at the institutional and social levels.

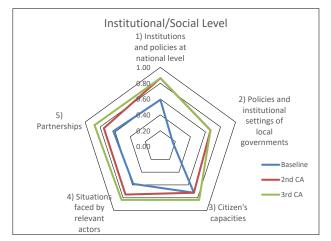


Figure 6-1 CA results at the Institutional/Social level in Samoa

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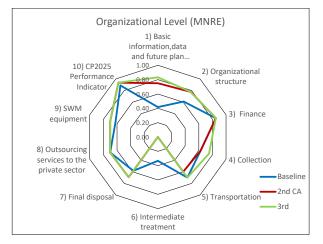


Figure 6-2 CA results at the Organizational level in Samoa

At the organizational level, the capacity of 4) Collection greatly improved. This is because in the third term, MNRE introduced a new monitoring system using a GPS system, improved the efficiency of monitoring work, stipulated penalties for non-compliance with collection contractors, and obliged collection vehicles to be equipped with GPS, Improvements have been made to consignment collection operations, such as the attachment of a collection map. Compared to the baseline, capacity has improved in all items except 6) Intermediate treatment. In particular, with regard to 1) Basic information, data and future plan for Solid Waste Management, the capacity has been strengthened since MRNE conducted various surveys necessary for formulating the strategy together with experts, monitored implementation of the strategy, conducted the public consultation, and so on.

7 Republic of Fiji

7.1 Outline of the Project

7.1.1 Project Purpose

Solid waste is managed appropriately based on the National Waste Management and Pollution Control Strategy 2018-2028.

7.1.2 Output

a. Output 1

By the initiative of Department of Local Government, Evidence-based policy is promoted based on 3R concept.

b. Output 2

Pilot study(s) for 3R + Return program are implemented.

7.2 Activities

7.2.1 Activities related to Output 1

Just before the start of J-PRISM2 activities in Fiji, the Public Health Act and Local Government Act were amended in July, 2018, and this made the Department of Local Government, DLG, the competent authority for the municipal solid waste management, along with local governments. Therefore Output 1 was implemented with DLG as the main C/P organization along with 13 local governments. In addition, the amendment of above mentioned acts changed the responsible organizations to provide solid waste collection services in rural areas from rural local authorities, RLAs, to local governments, and this drastically widen local governments' responsible areas for solid waste collection.

The Output 1 aims at improving the municipal solid waste management policies and plans, by supporting 13 local governments to formulate the solid waste management plan, SWM plan, under the leadership of DLG and to continue to implement the following activities.

- Decide the monitoring items in consultation with DLG and prepare for a monitoring form
- Conduct regular monitoring based on the form and submit the monitoring report to DLG
- Analyse the monitoring result and modify the SWM plan based on the result of the analysis

In the second phase, the Study team supported local governments to formulate the SWM plans based on the solid waste management plan format, and seven councils submitted the draft plans. In the third phase, the remaining six councils prepared for the draft plans by October, 2020. The baseline data, however, was collected in 2019 and did not include the data on the collection service in rural areas, so the baseline data was updated, while the SWM plan was modified, including the collection plan in rural areas¹¹.

¹¹ Since the post of Health Inspector had been vacant for more than half year since November, 2021, Ba Town Council could not updated the solid waste management plan nor implement the quarterly monitoring when it started in January 2022.

The monthly monitoring based on the monitoring sheet started in December, 2020, in order to check the progress of the SWM plan. The monitoring items in the first year did not include basic quantitative data such as collected waste amount and recycled amount, and this made it impossible to know the recycling rate or waste reduction rate. The study team decided to modify the monitoring system, adding the following monitoring items while decreasing the monitoring frequency from monthly to quarterly, in consultation with DLG and local governments. In order to start new monitoring items, training programs of MS excel and GIS mapping were provided for local government officers, before the start of the modified monitoring system in January 2022.

- Collected amount of general waste (household waste, green waste, bulky waste) in the council area)
 - ✓ Councils using the Naboro or Vunato disposal site: weight amount (tons)
 - ✓ Councils using disposal sites without a weighbridge: trip numbers of collection vehicles (if an open track is used, the volume amount is estimated.)
- Recycled amount (weight)
- Market waste amount used for composting (weight or volume amount)
- Collected amount of general waste in rural areas
- Information on illegally waste dumping sites (not only the number of sites but also their location data, waste type, photos, and maps)
- Number of complaints by type
- Financial data (once a year)

The study team decided to use the data on trip numbers of collection vehicles, instead of weight amount of collected waste for councils using disposal site without a weighbridge (if waste is collected by an open truck or in containers, volume amount is also estimated). The data input method of collection vehicles at the disposal site was improved, while a training program of data analysis was provided. The total trip numbers by waste source, waste type and vehicle ID are obtained every month and reported in the quarterly monitoring report. The disposal site data in the second quarter from Levuka Town Council is shown below as a reference.

	Household	Green waste	Factory waste	Household mix	OBRL Supermarket	Grand Total
1. Municipal waste + mix	72	7	2	2		83
HO382	52					52
Apr	8					8
Мау	29					29
Jun	15					15
HP609	20	7	2	2		31
Apr	12	1	2			15
Мау		3				3
Jun	8	3		2		13
2. Factory waste			32			32
HP609			32			32
Apr			12			12
Мау			11			11
Jun			9			9
3. Others					1	1
HP609					1	1
Мау					1	1
Grand Total	72	7	34	2	1	116

Table 7-1 The disposal site data in the second quarter from Levuka Town Council(Unit: Trip number)

In the first year, the monitoring result showed only the number of illegally waste dumping places, and this made it difficult to grasp the situations well. The study team proposed to record the location data and waste type along with photos and to submit the map of illegally dumping places as a part of the monitoring report.

In order to grasp the situations of collection services in rural areas after the Amalgamation, the study team conducted hearings based on the written questions followed by online interviews. The report was submitted to DLG and shared with local governments. In addition, the Waste Amount and Composition Surveys, which were left unimplemented during the second phase, was conducted in Suva and Lautoka from April to May, 2022, and the survey report was submitted to DLG and shared with local government in May.

Activities	Results of activities		
1-1. Conduct baseline survey (Population, Boundary maps, Financial status, Waste characterization survey, Collection coverage, 3R activities) for local government waste management plan	 All the surveys except waste characterization survey were conducted in the second phase. WACS was conducted in April and May in Suva and Lautoka. 		
	• Hearings were conducted from June to August, 2021, to know the situations of collection service in rural areas after the amalgamation.		
1-2. Analyze the result of baseline survey	 Boundary map was analyzed on detail. As for the other items, it analyzed especially targeting Nasinu and Nausori town council on pilot scale. 		
	• Result of baseline survey was basically presented in the workshop of 1-4. In particular financial situation was analyzed based on information then to figure out relativity between waste management operation and revenue, expenditure of each municipal council.		
1-3. Prepare the form of local government waste management plan based on baseline survey (supposed to include those goals: Collection coverage of rural, finance the waste management service, procurement plan of trucks)	• Template for waste management master plan was developed on Aug 2019. The template is composed of chapters of those; concept, outline of municipal council, current situation of waste management and future plan. Template is made for expressing numerically situation and plan as much as possible.		
1-4. Conduct the workshop to present the result of base-line survey and training for local government waste management plan	• The workshop for training on waste management master plan was conducted at Suva city on 11th Sep and Lautoka city on 13th Sep respectively. The one for Suva was participated in by 7 municipal councils from North and Central division, while the one of Lautoka was 6 municipal councils from Western division.		

During the third phase, the following two workshops were organized.

	-
Activities	Results of activities
1-4. Conduct the workshop to present the result of base-line survey and training for local government waste management plan	 J-PRISM experts visited municipal councils to see person in charge as often as possible for making close communication, since the workshop is supposed to be participated in by directors and CEOs. It is difficult to visit all municipal councils frequently so that experts visited particularly municipal councils that need advice from experts.
1-5. Each council formulate waste management plan	 Master plan formulation was processed in two stages in order for all municipal councils could make master plan in accordance with template as much as possible rather than making it all once. First stage focused on up to chapter 3 and all 13 municipal councils have completed formulation and submission of that as of Dec 2019. Seven councils prepared and submitted the draft SWMP, including the Chapter 4 Master Plan, by March 2020, and the remaining 6 councils submitted their plans by February, 2021. 12 councils updated the baseline data and finalized the SWMP by August, 2022.
1-6. Monitor the implementation progress of local government waste management plans	 Councils started monthly SWM monitoring using a prepared monitoring form in December, 2020, and continued the monitoring and submit the results to DLG every month since then. Modified regular monitoring started in January, 2022, adding such monitoring items as collected waste mount, recycled amount, market waste amount used for composting, while decreasing the frequency from monthly to quarterly.
1-7. Conduct the workshop for sharing the progress of local government waste management plans	 Workshop for expansion of solid waste collection service in rural areas was organized in May, 2021, in order to report the current situations and to discuss problems. Second workshops were organized in May, 2022, in Lautoka and Suva, in order to discuss and share how to collect, manage, and use quantitative SWM data.
1-8. DLG evaluate and decide the policy based on the progress of local government waste management plans	• The results of the monitoring are submitted to DLG for review.

7.2.2 Activities related to Output 2

DOE was translated from then Ministry of Local government, town planning and environment to Ministry of waterways and environment shortly after R/D between Fiji government and JICA signed. This might have influenced the project for J-PRISM experts had to take certain period to get full assignment of DOE as official counterpart on Output 2. On Nov 2019 director of DOE has basically agreed on the contents of output and activities in PDM in R/D. Based on the agreement, activities were progressed since 2020 then it has been officially agreed at the JCC on November 2020.

Statistic information for import and export, and weigh-bridge data of Naboro landfill site was acquired. Questionnaire surveys to recycling business and local bottlers, are completed in the report.

During the report period (Third term), the questionnaire survey report is written after collecting the questionnaire including supplemental information collection through the site visit.

As for the waste amount and composition survey from households, the survey was suspended due to the pandemic of COVID-19 in Fiji, although it was planned to start the arrangement from March 2021. Finally the survey was conducted and completed since Mar 2022 after the pandemic was relatively settled down.

There is a bit of shortage on indicators and obvious database related to recycling in Fiji at the beginning period of the project. This survey on Output 2 could help certain area on figuring out some data and numbers for recycling. Fiji government has drafted national 5R policy in 2020and keep updating the draft. Data and numbers obtained through this project can give advantage on setting national target or monitoring for national policy.

Waste Generation Rate	Suva	Lautoka	Total
Waste Generation Rate per day (g/person/day)	557	326	429

Table 7-2 Waste Discharge Amount in Fiji

Table 7-3 Waste Composition in Fiji				
Waste Composition Rate	Suva	Lautoka	Total	
Green	21%	39%	29%	
Food Scrap	36%	8%	25%	
Paper	7%	4%	6%	
Cardboard	8%	7%	8%	
Plastic Bags	4%	5%	4%	
PET Bottles	2%	2%	2%	
Plastic Containers	3%	3%	3%	
Diaper	7%	16%	10%	
Glass	3%	4%	3%	
Ceramic	0%	0%	0%	
Steel	0%	0%	0%	
Aluminium	0%	1%	1%	

Waste Composition Rate	Suva	Lautoka	Total
Other metal	3%	3%	3%
Textile	3%	4%	3%
Rubber	0%	0%	0%
Others	2%	4%	3%
Total	100%	100%	100%

Activities	Results of activities
2-1. Identify the issues and challenges of 3R+Return activity in Fiji based on the current situation	 It identified the issues and challenges through observation visit, interview and survey existing documents
	 Feasibility study for Container Deposit Scheme (CDS) was conducted in 2008 by UNDP and concluded the scheme is positive to introduce in Fiji. However, it is not introduced yet.
	 Current situation for 3R+Return was briefly understood through visit and interview with main recycling business operators. There are three major recyclable traders in Fiji while a paper-recycling company exists and so on.
	 Fiji is not an exception as other neighbor pacific countries do so; aluminium cans and scrap metals are undergoing to international market as part of economic circuit. On contrary, PET bottles and plastics are facing big challenge for 3R.
2-2. Formulate plans for pilot study(s)	 Contents of pilot study was decided on Nov 2019 after discussion with DOE. They are composed of those such as waste audit (working with Output 1), weigh-bridge data analysis, statistical information survey on import and export, questionnaire survey from recycling related businesses and beverage bottlers.
2-3. Conduct pilot study(s) such as development of database on packaging containers and various options of 3R+Return activity	Weigh bridge data and trade statistics information was acquired and questionnaire survey to recyclers and beverage companies was conducted.
2-4. Summarize the results of pilot study (s) with recommendations for options of 3R+R activity	 The report of questionnaire survey to recyclers and beverage companies were made and summarized Waste amount and composition survey was conducted and the result is summarized. The recommendations was done based on the survey result in combination with JICA recycling data collection survey result.

7.3 Challenges and lessons learnt during the Project implementation

7.3.1 Amalgamation Policies to Local Municipalities

Amalgamation policy for local government impacts significantly the waste management service on local municipalities that is given responsibilities to provide waste collection service into area beyond the municipal boundary so called rural area. On national average, the population in local municipality accounts for 32% of total population in Fiji which indicates 68% of remaining in rural area will be covered by local municipalities. Especially municipalities that has population less than 20% of total responsible population in terms of waste management gets significant challenges such as those; Ba, Labasa, Levuka, Nadi, Rakiraki, Savusavu, Sigatoka, Tavua. Out of those municipalities, 4 municipalities have only 5% of total responsible population to be remarked how those municipalities perform their responsibility imposed by Amalgamation policy.

The result of the follow-up survey shows that RLA already provided a solid waste collection service in some rural areas before the Amalgamation and the collection works were taken over by councils after the Amalgamation. The Lami Town Council smoothly took over the Health and Building works, including garbage fee collection work, with departments concerned cooperating together, while the Nausori Town Council took over the solid waste collection service but not garbage fee collection work. Councils have different ideas about the garbage fee and take different approaches to collection service in rural areas. The result of the follow-up survey was submitted to DLG and shared with local governments. In order to expand the collection areas in rural, it is critical to seek a financial source other than subsidies and to necessary to implement a user-pay system through negotiations with local residents.

7.3.2 Roles and Responsibilities of Departments in the field of SWM

DOE is operating daily work based on Environment management act 2005. On the other hand, DLG is responsible for task and operation based on Local government act 1985. DOE can be considered as an organization that is primarily responsible for waste management in Fiji however DOE is more responsible for environment protection and pollution control rather than ordinary waste management service. Namely DOE waste management and pollution control unit is mainly engaged in issuing license for waste disposal permit to facilities that treat waste and recyclable, and monitoring those facilities. Also DOE is in the position to develop national strategy and policy. DLG has been situated to look after waste management in local government since the law amendment in 2018. However, there is few detailed descriptions in law for DLG to play role and responsibility on waste management service in local government so that it is not much effective in practical service. Also no post for waste management technical officer is allocated in DLG that is leading luck of capacity to do govern waste management service in local government. Local governments are doing their daily waste management service with own effort. Most of local governments are facing challenges and difficulties due to luck of human resource and finance.

Those challenges and issues might have been caused from that Fiji government did not apply a law that regulates comprehensively roles and responsibility on waste management in nationwide. This kind of law can be Waste management act in other countries such as Samoa, Tonga or Vanuatu in neighbor countries.

In this situation above-mentioned, J-PRISM experts attempted to work with DLG on Output 1 and DOE on Output 2. The 13 Municipal Waste Management Master Plans and monitoring format developed in Output 1 is expected to be shared with DOE as well as DLG although such

kind of information flow is not currently set in place. That was original intention of the project that developed those materials through the project activities. The output of the project is expected to be the link in near future in order to solve the middle or long term challenges such as formulating the fundamental waste management law and so on.

7.3.3 Pandemic of COVID-19

Due to the pandemic of COVID-19, field visit of short-term experts was suspended for about a year from March 2020 to March 2021, and short-term experts participated online from Japan in the JCC held in November 2020. Under J-PRISM in Fiji, the team works collaboratively with two ministries as main counterparts and 13 municipalities as grassroots counterparts. It was not efficient to work with multi-stakeholders only online and it was a burden to the counterparts.

At the start of the third phase, three short-term experts went back to Fiji and resumed planned works, organizing the second workshop (Output 1) and collecting the information on recyclers. During their stay in Fiji, however, the new corona cases were confirmed for the first time in a year, and this made it impossible for short-term experts to travel to Fiji until November, 2021.

In order to implement activities of Output 1 smoothly while a Japanese expert worked in Japan remotely, a project assistant had been assigned since May, 2021. Implementing Output 1 requires staff of local governments to improve the SWM abilities such as the data management. The assignment of the local assistant, who knows very well about SWM situations in Fiji and has technical knowledge and abilities to provide trainings on Excel and GIS mapping for C/Ps of local governments under the instruction of the Japanese expert, made it possible for C/Ps to work for J-PRISM and take trainings when they have time between daily works. It can be said that this is one of the few advantages of remote working during the coronavirus pandemic.

1. By the initiative of Department of Local Government, Evidence- based policy is promoted based on 3R concept. Progress: Achieve		
OVI 1-1. Format Local Government Waste Management Plan is developed.	Format of Local Government Waste Management Plan has been developed.	
OVI1-2.TrainingfordevelopingLocalGovernmentWasteManagementPlanisconducted by the initiative ofDLG.	Training for developing Local Government Waste Management Plan has been conducted by initiative of DLG.	
 OVI 1-3. Functional PDCA cycle for waste management between Department of Local Government and municipal councils is identified. DLG established a mechanism of cycle for Plan Check, Act, through the SWM plan and remonitoring system in cooperation with governments. 		M plan and regular
		Progress: Almost achieved
OVI 2-1. Recommendations for options of regional 3R+Return program are made.• Basic surveys including waste amount a composition survey were completed. • Recommendations for the option was done.		eted.

7.4 Achievement of the Outputs

7.5 Achievement of the Project purpose

Solid waste is managed appropriately based on the National WasteProgresManagement and Pollution Control Strategy 2018-2028Almost ach		
OVI 1. Waste management plan of 8 municipal councils is formulated.	 All the 13 councils prepared fo February, 2021, and 12 councils August 2022. 	
OVI 2. Waste management indicators in NWMPCS 2018- 2028 are figured out in Local government waste management plans.	 Municipal master plan and developed and established in the indicators similarly to CP 2029 2018-2028 is not endorsed yet. 	e output 1 included the
OVI 3. Roadmap for waste management coverage to rural area is identified based on Local government waste management plan.	 At the workshop, organized in governments presented the coll in the middle and long term. I discuss how to secure the introducing user-pay system (coll coll 	ection expansion plan t is still necessary to e budget, including

7.6 Recommendation towards achievement of Overall Goal

As to achieve Overall Goal (Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016 – 2025 (Cleaner Pacific 2025).), the endorsement of waste management strategy in national level could be the next important target in Fiji. As for the municipal council level, monitoring report needs to be continuously conducted based on the master plan developed in the project. The DLG is expected to govern the monitoring report as a supervising organization for municipal councils.

7.7 Capacity Assessment

7.7.1 2nd Capacity Assessment

The second CA at the institutional/social level for DLG and at the second organizational level for 13 local governments nationwide were conducted in December 2021 and July 2022. The results of the 2nd CA are shown in the figure below.

In terms of institutional and social level capacity, all items improved compared to the baseline. This is because the DLG, which became in charge of waste management of local governments due to the amended law in 2018 at the baseline CA, is working on waste management with the municipalities. Specifically, under the management of DLG, 13 local governments formulated solid waste management plans with guidance from Japanese experts. DLG officers accompanied the guidance in each municipality, grasped the status of waste management in each municipality, and examined monitoring items for waste management plans. In particular, the formulation of waste management plans and the establishment of monitoring systems by local governments have progressed, and as a result, 2) Policies and institutional settings of local governments has improved.

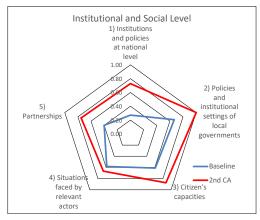
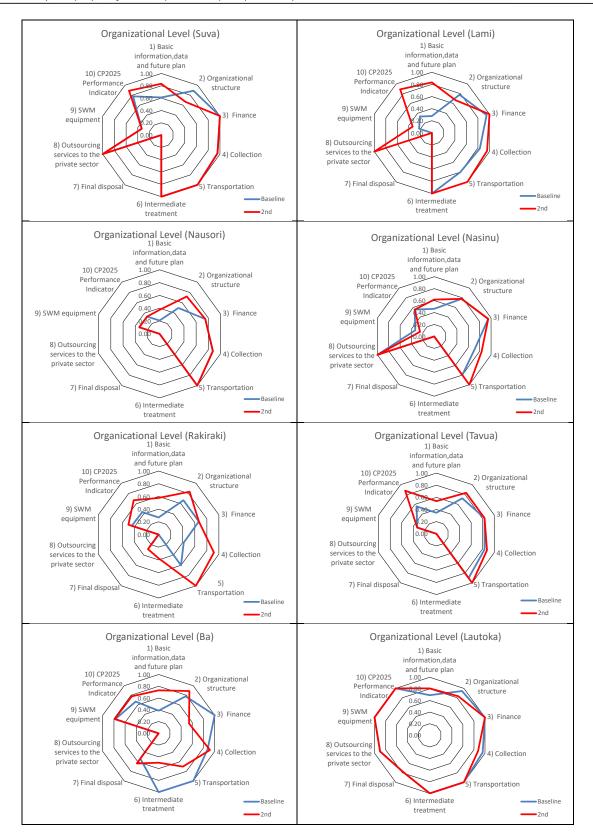


Figure 7-1 CA results at the Institutional/Social level in Fiji

At the organizational level, the second CA was conducted for each municipality. Regarding 1) Basic information, data and future plan for SWM, all local governments have improved their capacity. This is because each municipality reorganized and updated the basic information and data related to waste management and formulated a waste management plan. In addition, there is a slight difference between municipalities in terms of "finance," "collection," "transportation," and "intermediate treatment," which are directly linked to the improvement of waste management in all municipalities. This indicates that due to changes of CEOs, transfers of health inspectors, financial conditions, etc. in municipalities during the two years from the baseline, there is a rise and fall in capacity at the organizational level. In the future, in order to maintain or improve a certain organizational level capacity for waste management, it is expected that each municipality will build on the solid waste management plans formulated by them.



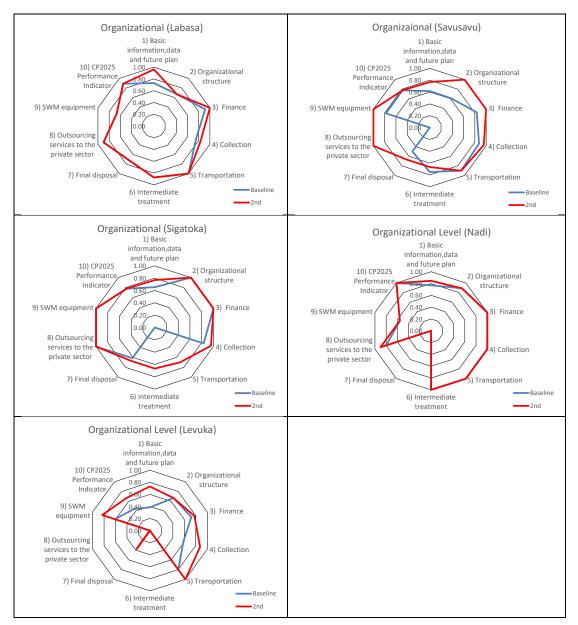


Figure 7-2 CA results at the Organizational level in Fiji¹²

¹² It is necessary to note that the capacity's perspective and balance will differ depending on preconditions, such as whether the municipality outsources collection and transportation to the private sector and whether intermediate processing, such as composting and recycling, is in place, and whether it has a final disposal site. Items with a score of "0" do not carry out services related to the item.

8 Value added work based on pandemic of the COVID-19

8.1 Activities for developing introductory material on project target countries

Under the situation where it was difficult to travel to the project target countries due to the pandemic of COVID-19, work which is expected to enhance added value of the project, activities for developing introductory materials which introduce status of waste management, organize cases of good practices and introduce fee collection/financial situation on waste management on the project target countries was done. Details on each activities are shown in the table below.

Activities	Results of activities
1 Develop introductory material on status of waste management for each country	 Snapshot on Solid waste management for each countries and introduction of activities conducted under J-PRISM for PNG, Solomon, Vanuatu, Tonga, Samoa and Fiji and summary version of that for J-PRISM II target countries (9 countries) were developed (Japanese, English).
2 Organize cases of good practices based on the template provided by Project Office.	• "Formulation of National Waste Management Strategy (Target country: Samoa)", "Establishment of Nationwide Waste Management with Developing Capacity of Local Governments (Target countries: PNG, Vanuatu, Solomon) and "Waste Management fee collection" (Target countries: Vanuatu, Tonga) were developed (English).
3 Develop introductory material on fee collection/financial situation on waste management for each countries.	 "Case studies on waste management fee collection (Target countries: 9 target countries under J-PRISM II) was developed (English).

8.2 PNG: Activities on Improvement of Occupational Health and Safety (OHS) of Solid Waste Management Workers against Infectious Waste including COVID-19

The awareness on the importance of Occupational Health and Safety (OHS) against infectious waste had been increased worldwide with the spread of COVID-19. In response to the growing needs for OHS guidance in PNG, technical guidance on OHS for waste management workers was additionally implemented. In particular, several activities were carried out, such as a preparation of manuals specializing in infectious waste countermeasures, distribution of safety equipment, and OHS training. NCDC had participated in training organized by the International Labor Organization (ILO) in the past. Since OHS activities in PNG can be a model in the PICTs, OHS training was shot to be shared as a training video to the remote islands in PNG and other countries in PICTs. The results of each activity are shown below.

Activities	Results of activities
1 Develop a NCDC OHS manual against infectious waste in municipal solid waste management	• OHS manual was prepared and finalized with NCDC staff. 150 copies were printed and distributed.

Phase II (Group 2) Project Completion Report (3rd Term)

Activities	Results of activities
2 Develop a OHS awareness leaflet against infectious waste	 Based on the OHS manual, OHS leaflets were prepared. 1,180 OHS leaflets were distributed in total (150 copies/design, 3 designs (for waste collection workers, for drivers, for landfill workers and for community).
3 Implement OHS training and outreach activities based on the manual and leaflet	• The list of trainees (196 collection workers and 43 landfill workers) was finalized and OHS training and outreach activities were carried out by NCDC.
4 Produce a OHS training movie	• OHS training movie was produced in collaboration with NCDC's public relations.
5 Distribute safety gears on a pilot basis	 Specifications and quantity of safety gears were confirmed by NCDC and finalized. Safety gears were handed over to NCDC on 26th April 2022. Details of safety gear are as follows: 239 Re-usable Face Mask 239 Safety Hand Gloves 43 Safety Trouser & Safety Sleeve Shirt 43 Goggles (clear and dark) 43 Saety Gum Boots (Pairs) 30 Noncontact Thermometers 60 Hand Sanitizer
6 Monitor OHS implementation with provided safety gears	• Monitoring system and methods on OHS implementation with provided safety gears were finalized and first monitoring was implemented in September 2022.

Remote basis activity conducted in relation to country activities 8.3

Activities	Results of activities
1 Technical guidance services for the construction of the next landfill block (Cell-3) at the Baruni Landfill Site, PNG, including the preparation of preliminary design drawings for the construction of Cell-3.	 The short-term expert prepared preliminary design drawings for the construction of Cell-3 in Japan in October-November 2021, based on the Fukuoka method sanitary landfill. The short-term expert sent the design drawings to NCDC in December 2021, provided an email-based explanation of the design details and guidance on incorporating them into the tender documents for the selection of the contractor.
2 A portable gas monitor and a portable water quality meter will be procured for environmental monitoring at the Baruni disposal site in PNG, and support will be provided for the construction of an environmental monitoring system at NCDC.	 Gas monitors and water quality meters were procured in Japan and delivered to NCDC on 28 February 2022.

Solid Waste Management in Pacific Island Countries Phase II (Group 2) Project Completion Report (3rd Term)

Activities	Results of activities
2 A portable gas monitor and a portable water quality meter will be procured for environmental monitoring at the Baruni disposal site in PNG, and support will be provided for the construction of an environmental monitoring system at NCDC.	 Test measurements of landfill gas and leachate quality were carried out at the Baruni disposal site on 21 and 22 March of the same year, confirming that the equipment was functioning properly. The JICA experts held discussions with NCDC on the establishment of a monitoring system, the first of which was to be carried out using both water quality tests covering PNG national effluent standard items and our simple water quality meter, which will be used as baseline data and the basis for future monitoring.
3 Provide technical support for the procurement of heavy equipment for Bouffa landfill site by JICA Vanuatu Office.	 An expert was dispatched to Vanuatu twice in October-November 2021 and August 2022 to provide technical support to JICA Vanuatu office in the process of the procurement of heavy machinery for disposal sites. Specifically, the expert provided technical support and advice on: Specifications of procured equipment and tender documents Selection of equipment to be procured Confirmation of specifications Preparation of tender documents Implementation process of tender. Proposal evaluation by summarizing technical evaluation results The expert attended the bidding meeting held on November 17, 2021 and provided operational support related to procurement procedures. Heavy machinery maintenance and management system at the PVCC workshop was confirmed, and a series of tenders and tender and tender
4 Conduct On-line Training on Operation and Maintenance of Collection Vehicles and Heavy Machines in Tonga	 trainings for mechanics was conducted. From December 2021 to August 2022, online training on vehicle operation and maintenance were conducted by the expert on vehicle maintenance. The details are as follows. Equipment lists and check lists in each island were collected, and the current practices of daily inspection before and after services were confirmed by video for review. To confirm the current situation and issues on daily and periodic inspection in each island, consultation meetings were conducted four times. Based on the results of the meetings, training contents and materials were prepared.

Activities	Results of activities
4 Conduct On-line Training on Operation and Maintenance of Collection Vehicles and Heavy Machines in Tonga	• On-line training on daily and periodic inspections for vehicle operation and maintenance was conducted twice.

*There is relevant description in each country's activity.

8.4 Outputs from value added work

No	Title of outputs/documents	Creation date	Summary
1	Introductory material on status of waste management	Sep 2022	Snapshot on Solid waste management for each countries and introduction of activities conducted under J-PRISM for PNG, Solomon, Vanuatu, Tonga, Samoa and Fiji and summary version of that for J- PRISM II target countries (9 countries) in Japanese and English
2	Cases of good practices	Jan 2022	"Formulation of National Waste Management Strategy (Target country: Samoa)", "Establishment of Nationwide Waste Management with Developing Capacity of Local Governments" (Target countries: PNG, Vanuatu, Solomon)" and "Waste Management fee collection (Target countries: Vanuatu, Tonga)" in English
3	Case studies on waste management fee collection	Jan 2022	"Case studies on waste management fee collection (Target countries: 9 target countries under J-PRISM II)" in English
4	PNG: Deliverables related to Activities on Improvement of Occupational Health and Safety (OHS) of Solid Waste Management Workers against Infectious Waste including COVID-19	Sep 2022	Implementation Report on OHS improvement against Infectious Waste in PNG (including OHS manual, OHS leaflets, OHS training movie etc.)
5	Vanuatu: Deliverables related to Technical Support for Procurement of Heavy Equipment for Bouffa Landfill Site by JICA Vanuatu Office	Aug 2022	Implementation Report on Technical Support for Procurement of Heavy Equipment For Bouffa Landfill Site (Comparison Table of Technical Specifications, Maintenance Management Procedure Manual, Inspection Form for Excavator Before Starting the Works, Field Note etc.)
6	Output through technical guidance services for the construction of the next landfill block (Cell-3) at the Baruni Landfill Site, PNG	Nov 2021	Preliminary design drawings for the construction of Cell-3

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No	Title of outputs/documents	Creation date	Summary
7	Output through On-line Training on Operation and Maintenance of Collection Vehicles and Heavy Machines in Tonga	Aug 2022	Training material

Annex A : Attachment for Independent state of Papua New Guinea

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	 5.1 Program of 4th JCC

1 Lists of Project outputs and related documents

No.	Name of the Outputs	Issued date	Outline
1	National Waste Management Policy2022-2032 (version 4)	Jun. 2022	Draft policy on solid waste management updated by the counterpart
2	Waste flow Figures	Aug. 2022	Flow diagram showing the waste stream from generation to disposal for 4ULLGs
3	Implementation plan to improve the priority issues of the 4ULLGs	Apr. 2022	Implementation plans for priority issues extracted from each of the 4ULLGs
4	Draft revision edition of NCD WM Plan	Aug. 2022	NCD Waste Management Plan 2016-2025 Based on the 2021 data obtained from Weighbridge, the plan revises the activities for the period 2022-2025, taking into account the progress of waste flow and action plans.
5	4th JCC meeting materials	Apr. 2022	Project progress, activity reports, MOA of city-city cooperation etc

Table 1-1 Lists of Project outputs and related documents (PNG)

2 Inputs and Work schedule

2.1 Inputs

2.1.1 Dispatch of Japanese experts

No.	Name	Expert	Dispatc	h period	PM	РМ
INO.	Name	Expert	Start date	End date	FIVI	FIVI
1	Junji Anai	Sub Team leader / SWM D2	2022/2/12	2022/4/30	2.07	2.07
2	Yoshinosuke	SWM F2	2022/4/10	2022/5/10	1.03	1.03
2	Hamada		2022/8/21	2022/9/18	0.97	0.97
3	Mitsuko Nakamura	Capacity Development E	2022/4/10	2022/5/10	1.03	1.03
Tota	I					5.10

*Regarding dispatch period of Anai, 62 days are for assignment of this project, and 16 days are for other assignment.

*Work in Japan is separately summarized.

2.1.2 Acceptance of trainees

There was no acceptance of trainees.

2.2 Work schedule

Activities	Plan	2017	2018	2019	2020	2021	2022
ctivities	-	лш	и ш п і	-	H H		
Output 1: Institutional capacity on SWM is enhanced through development of a National Policy, Strategy and Implementation Plan in line with the Cleaner Pacific 2025.	olicy, Strateg	ly and Implemer	itation Plan in line	with the Cleaner Pac	ific 2025.		
1.1 Study on data collaction flow for CEDA to get information on SWM form local lavale radularly	Plan						
	Actual						
1-2. Study on necessary data to grasp current situation on SWM at local levels	Plan Actual						
1-3. Carry out data collection from local levels	Plan Actual						
	Plan						
1-4. Review the data collection flow	Actual						
1-5. Amalise the collected data	Plan Actual						
1-6. Elaborate the data collection flow	Plan						
M at the national level for development of draft National Policy,	Plan						
Strategy and implementation Prian 1-8. Organize a series of national and regional consultation meetings *** for National Policy. Strategy	Plan						
	Actual						
1-9. Develop the final draft of the SWM Implementation Plan to be incorporated in the National Policy, Strategy and Implementation Plan	Plan Actual						
Output 2: Planning capacity to tackle with the issues on SWM of some ULLGs is enhanced.							
2-1. Develop the programme for planning capacity enhancement on SVM	Plan						
	Plan						
2-2. Organize workshop for basic data management on SWM	Actual						
2-3. Conduct data collection to develop a waste flow	Plan						
	Actual						
2-4. Develop a waste flow based on the actual data collected in some ULLGs	Actual						
2-5. Identify priority issues based on the developed waste flow	Plan						
	Actual						
2-6 Develop an implementation plan for improvement of the prioritsed issue in some ULLGs	Actual						
Output 3:NCD SWM Plan 2016-2025 is implemented sustainably as scheduled.							
3-1. Install a weighbridge and data recording system at Baruni Disposal Site	Plan Actual						
3-2. Introduce a new tipping fee charging system	Plan Actual						
3-3. Establish a data maragement system on SWM	Plan Actual						
	Plan						
3-4. Review the Action Plan of the NCU WM Plan 2016 -2025	Actual						
3-5. Develop implementation plans based on the reviewed Action Plan of NCD WM Plan 2016 - 2025	Plan						
	Plan						
3-6. Undertake prioritised implementation plans	Actual						
3-7. Monitor progress of the implementation plans	Plan						
	Plan						
3-8. Keview the NCD WW Plan 2016 - 2025 by assessing the progress of the Action Plan	Actual						

Work flow chart

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3.1 Work flow chart based on PO2

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4 Changes of PDM

There was no changes of PDM during the 3rd term.

5 JCC

The 4th JCC was conducted on April 26th 2022.

5.1 Program of 4th JCC

- Date: 26th April 2022
- Time: 9:00 13:00
- Venue: Kumul Conference Room, Holiday Inn Hotel
- Agenda:

PNG Time	Agenda	Facilitator/Resource person	
09:00 - 09:30	Registration	All participants	
09:30 - 09:40	1. Opening Remarks & Introduction of participants	Mr. Maino Virobo - Director, Policy Division, CEPA	
09:40 - 09:50	2. Objectives and Agenda	Facilitator: Mr. Simeon Terina, Project Coordinator, NCDC	
09:50 – 10:05	3. CEPA's Report on Output 1	Mr. Veari Kula Manager, Infrastructure, Utilities and Conventions Branch, CEPA	
10:05 – 10:45 (10mins each)	 ULLGs Report on Output 2 Alotau ULLG Goroka ULLG Kokopo/Vunamami ULLG Lae City Authority 	Representative of AULLG Representative of GULLG Representative of KVULLG Representative of LCA	
10:45 – 11:00	5. NCDC Report on Output 3	Mr. John Navara Manager, NCDC WM Division	
10:40 - 11:00	Coffee Break		
11:00 – 11:40	 Confirmation of project progress and remaining activities based on the 10th Monitoring sheet 	JICA Experts Mr. Yoshinosuke HAMADA	
	Question & Answer	Mr. Junji ANAI Ms. Mitsuko NAKAMURA	
	Question & Answer Signing of Minutes of Meeting	Mr. Junji ANAI Ms. Mitsuko	
11:40 – 11:55		Mr. Junji ANAI Ms. Mitsuko	
11:40 – 11:55 11:55 – 12:10	Signing of Minutes of Meeting 7. Signing Ceremony on Minutes of Agreement (MOA) between	Mr. Junji ANAI Ms. Mitsuko NAKAMURA MC: Ms. Janet HAUA, Director, Community and Social Services, NCDC	
	 Signing of Minutes of Meeting 7. Signing Ceremony on Minutes of Agreement (MOA) between NCDC & AULLG / NCDC & LCA 8. Handover Ceremony for Personal 	Mr. Junji ANAI Ms. Mitsuko NAKAMURA MC: Ms. Janet HAUA, Director, Community and Social Services, NCDC CEPA, NCDC, AULLG, LCA, JICA	

5.2 Minutes of Meeting (Including participants list)

MINUTES OF MEETING FOR THE FOURTH JOINT COORDINATING COMMITTEE ON THE JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTIRES PHASE II (J-PRISM II) IN THE INDEPENDENT STATE OF PAPUA NEW GUINEA Port Moresby, PNG, 26th April 2022 Mr. Gunther JOKU Mr. Ravu FRANK Project Director, City Manager, Managing Director, National Capital District Commission, Independent State of Papua New Guinea Conservation and Environment Protection Agency, Independent State of Papua New Guinea chert THANDA Mr. Junji ANAI Mr. R Deputy Team Leader, Acting Virst Assistant Secretary, Development Cooperation and Management JICA Expert G2 Team, J-PRISM II Division, Department of National Planning and Monitoring, Independent State of Papua New Guinea Witnessed by: Mr. Masato KOINUMA Chief Representative, Papua New Guinea Office, Japan International Cooperation Agency

The Fourth Joint Coordinating Committee of the J-PRISM II Project 26th April 2022, Holiday Inn, Port Moresby, PNG

- 1. Meeting started at 09:45 a.m.
- 2. Attendants list of the meeting is given in ANNEX-1
- 3. Opening of the meeting

Opening remark was given by Mr. Maino Virobo, Director of Policy Division, Conservation and Environment Protection Agency (CEPA). Subsequently, Mr. Simeon Terina, J-PRISM II Project Coordinator, Waste Management Division (WMD), National Capital District Commission (NCDC) acted as a facilitator.

4. Confirmation and Agreement

Ms. Terina proceeded the meeting in accordance with the programme in **ANNEX-2**. All the attendants confirmed and agreed the following matters:

(1) Progress of the Project

JCC acknowledged that the several activities were carried out by the counterparts with technical assistance of JICA Expert Team (JET) from the 3rd JCC to April 2022 according to the presentation by CEPA, Alotau, Goroka, Kokopo and Lae ULLGs, NCDC and JET.

(2) Uncompleted activities

The JCC confirmed that activities 1-8, 1-9, 2-6, 3-2, 3-3 and 3-8 in the PDM had not been completed and agreed to continue to complete the activities until the end of the project. It was also confirmed among the couterparts that efforts will be made to further complete the activities that are generally completed.

(3) Modification of PO

The JCC approved a change in the project end date due to the project duration being extended by seven months to 30th September 2022 due to activity constraints in COVID-19, and a proposed reschedule of uncompleted activities. JCC agreed no modification of the Project Design Matrix (PDM) and modification of the Plan of Operation (PO) shown as **ANNEX-3** and **ANNEX-4** respectively.

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(4) Updated List of Counterparts

JCC updated List of Counterpart shown as ANNEX-5.

5. Outcome of discussion

Key outcome of discussion of JCC are as follows;

- With regard to Output 1, the JCC confirmed that CEPA has revised the National Waste Management Policy 2020-2030 based on the results of the four Regional Consultation Workshops held so far and that a National Consultation Workshop will be held in July this year to finalise it.
- For Output 2, the JCC confirmed that Kokopo and Goroka, Alotau and Lae, with technical assistance from NCDC and JICA experts, have studied the current status of waste management and prepared a waste flow Kokopo has already prepared a waste management plan based on this study. Goroka, Alotau and Lae confirmed that they intend to develop improvement implementation plans for the identified priority issues by the end of the project.
- With regard to Output 3, the JCC confirmed that NCDC has taken steps to address the frequent power outages at the Baruni disposal site and that a permanent weighbridge operational structure will soon be in place and an NCDC data management system, including weighbridge data, will be in place. It also confirmed that the NCD WM Plan will be revised by the end of July and submitted to the NCDC in August.
- The JCC and the attendees confirmed that the JICA experts will continue to evaluate and analyse the results of the implementation of J-PRISM II to strengthen Counterparts' waste management capacity through the content of the deliverables and interviews with relevant stakeholders.
- 6. Others

Participants came to have a common understanding on the following matters.

- (1) On April 26, 2022, Alotau and Lae signed a memorandum of understanding for City-City cooperation on waste management with NCDC, respectively, based on the intercity cooperation program launched on March 10, 2019 in collaboration with CEPA.
- (2) Delivery of personal protective equipment (PPE)

JICA has added to J-PRISM II the provision of personal protective equipment (PPE) as an infection prevention measure to workers at the Baruni disposal site as part of COVID-19 measures. This PPE was handed over to NCDC, which

operates and manages the Baruni disposal site, by JICA on April 26, 2022.

7. Closing of the meeting

The meeting was closed at 12:30pm

ANNEX 1:	List of Attendants
ANNEX 2:	Agenda of 4 th JCC
ANNEX 3:	Project Design Matrix (PDM3)
ANNEX 4:	Plan of Operation version 3 (PO ₃₋₂)
ANNEX 5:	Revised List of Counterparts

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CONSERVATION & ENV J-PRISM II PROJECT 41 DATE: 26TH APRIL 2022 VENUE: HOLIDAY INN) No. Name 1 Mr. Gunther Joku 2 Mr. Maino Virobo 3 Mr. Ravu Frank 4 Ms. Janet Haua 5 Mr. Veari Kula 6 Mr. Veari Kula 6 Mr. Veari Kula 7 Ms. Carmel Jonduo 8 Ms. Rebecca Rami 9 Ms. Anita Poesi 10 Ms. Kathrina Mogia	CONSERVATION & ENVIRONMENT PROTECTION AUTHORITY J-PRISM II PROJECT 4TH JOINT COORDINATION COMMITTEE DATE: 26TH APRIL 2022 DATE: 26TH APRIL 2022 VENUE: HOLIDAY INN HOTEL, PORT MORESBY No. Name No. Name Name Project Position I Mr. Mr. Gunther Joku Director Director, Policy 3 Mr. 4 Ms. 5 Mr. 6 Mr. 7 Ms. 7 Ms. 8 Services 8 Ms. 8 Manager 9 Ms. Anita Poesi JCC member Services Services	CONSERVATION & ENVTROMENT PROTECTION AUTHORITY J-PRISM II PROJECT 4TH JOINT COORDINATION COMMITTEE MEETING DATE: 26TH APRIL 2022 VENUE: HOLIDAY INN HOTEL, PORT MORESBY No Name Project Position No Name Project Position 1 Mr. National Project Managing Director 2 Mr. Maino Virobo JCC member: al/City Manager 3 Mr. Ravu Frank Jirector, Policy Division 4 Ms. Janet Haua Counterpart 5 Mr. Janet Haua Counterpart 6 Mr. John Navara Manager, Manager, Infrastructure Utilities and Conventions 7 Ms. Rebecca Rami JCC member 8 Ms. Rebecca Rami JCC member	Organization Conservation & Environment Protection Authority (CEPA) Authority (CEPA) Image: CEPA Image: National Capital District Commission Image: NCDC Image: NCDC	Email Email guntherjoku@yahoo.com maino681@gmail.com janeth@ncde.gov.pg vearicula@gmail.com johm2@ncde.gov.pg carrnel.jonduo@gmail.com	Pis All
rit. Gunther fr. Gunther fr. Maino V fr. Ravu Fra fr. Veari Ku fr. Veari Ku fr. John Nav s. Carmel J s. Rebecca s. Anita Poe s. Kathrina			Organization tion & Environment Protection (CEPA) Capital District Commission	Email guntherjoku@yahoo.com maino681@gmail.com aneth@node.gov.pg earricula@gmail.com ohnn2@node.gov.pg	Part -
fr. Gunther fr. Maino V fr. Ravu Fra fs. Jamet Hau fr. Veari Ku fr. John Nav fr. John Nav fr. John Nav s. Carmel J, s. Rebecca s. Anita Poé			(CEPA) (CEPA) Capital District Commission	guntherjoku@yahoo.com maino681@gmail.com aneth@ncdc.gov.pg earikula@gmail.com ohmn2@ncdc.gov.pg armel.jonduo@gmail.com	
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 Ianet Ha Ianet Ha Ir. Veari Ku Ir. John Nav Ir. John Nav S. Carmel J S. Rebecca S. Rebecca S. Anita Poo S. Kathrina 				aneth@ncdc.gov.pg vearikula@gmail.com ohnn2@ncdc.gov.pg carmel.jonduo@gmail.com	Martin Company
lr. Veari Ku Ir. John Nav S. Carmel J. S. Rebecca S. Anita Poe S. Kathrina				rearikula@gmail.com ohmi2@ncdc.gov.pg samel.jonduo@gmail.com	R
 Ir. John Nav S. Carmel J. S. Rebecca S. Anita Poc S. Kathrina 				ohm2@ncdc.gov.pg armel.jonduo@gmail.com	
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s. Kathrina		Project Coordinator, ODS Project (GIZ)_IUC Branch CEPA		anitapoesi909@gmail.com/apoesi@cepa.gov.pg	N.
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Mr. Simeon Terina	arina Counterpart	Project Coordinator	WMD, NCDC st	sterina@ncdc.gov.pg	thurs &
Mr. James Ricky	ky Counterpart	Waste Management Engineer	WMD, NCDC	amesr@ncdc.gov.pg	
Mr. Walter Aukleya	kleya Counterpart	Senior Waste Management Officer (Disposal Management)	WMD, NCDC W	WalterA@ncdc.gov.pg	14
Ms. Violet Loi	Counterpart	Waste Management Officer (Disposal Management)	WMD, NCDC	VioletL@ncdc.gov.pg	Vaul
Mr. Ronnie Ranu	nu Counterpart	Senior Waste Management Officer (Industrial and Hazardous Waste)	WMD, NCDC	romier@ncdc.gov.pg	
Ms. Vivianne Morofa	Aorofa Counterpart	Senior Waste Management Officer (HazardousWaste, Public Places, Sanitary Pan)	WMD, NCDC wi	viviannem@ncdc.gov.pg	· (20)
Ms. Dianna Wapyer	apyer Counterpart	Waste Management Officer	WMD, NCDC Di	DianaW@ncdc.gov.pg)

Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (Group 2) Project Completion Report (3rd Terr Japan International Cooperation Agency (JICA) Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd.

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Ms		- md - man	(Domestic, Commercial)	WMD, NCDC	Paul W@ncdc.gov.pg	3/2
20.00	s. Racheal Inamuka	Counterpart	Waste Management Officer (Settlements, Villages)	WMD, NCDC	rachaeli@ncdc.gov.pg	Rand
Mr	Mr. Joshua Robert	Counterpart	Supervisor (Landfill)	WMD, NCDC	JoshuaR@ncdc.gov.pg	2
Mr	Mr. Josing Salimbi	JCC member	Programme Officer Environment	National Department of Health (NDOH)	isalimbi47@gmail.com	
Ms.	5. Dorcas Hutu	JCC member	Aid Coordinator, Japan Desk	Department of National Planning and Monitoring (DNPM)	dorcas_hutu@planning.gov.pg	Control of
Mr.	Jovitha Simbiken	JCC member	Graduate Trainee, Bilateral Branch	DNPM	2	5.0.
Mr.	. Katsushi Ohara	JCC member	JICA Development Advisor	DNPM & DoT	katsutimor@hotmail.com	R. R. A. M.
Mr.	Johnson Kilis	JCC member	Senior Scientific Officer, Mitigation Division	CCDA	kilisjay37@gmail.com	- And
Prot	Prof. Frank Griffin	JCC member	Vice Chancellor	University of Papua New Guinea (UPNG)	frankg@upng.ac.pg	
Mr.	Peter Saguba	JCC member	Senior Lecturer, Environment Science Branch	Pacific Adventist University (PAU)	Peter.Saguba@pau.ac.pg	. P. Millon
Mr.	Jonathan Ipang	Counterpart	Director, Community and Social Services	Lae City Authority (LCA)	jipang@gmail.com	Brow
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Mr.	Mickey Gahinem	JCC member	Town Manager	Alotau ULLG	mickeygahinem@gmail.com	Jest odar.
Mr.	Ivan Maraka	Counterpart	Senior Environment Health Officer	Alotau ULLG	ivan.maraka@gmail.com	4.
Mr.	Satoshi ISONO	Observer	Councellor	Embassy of Japan in Papua New Guinea	satoshi.isono@mofa.go.jp	>
Mr.	Atsushi Namba	Observer	Councellor	Embassy of Japan in Papua New Guinea	atsushi.namba-2@mofa.go.jp	新 谈
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Mr.	Takahiro Yokota	JCC member	Senior Representative	JICA PNG Office	Yokota.Takahiro@jica.go.jp	
Mr.	Go Abe	JCC member	Representative	JICA PNG Office	abe.go@jica.go.jp	64
Ms.	Fiona Silo	JCC member	Administration Assistant	JICA PNG Office	Silo-Fiona@jica.go.jp	tric
Mr.	Junji Anai	JCC member	Deputy Team Leader	JICA Project Team	anai.junji@gmail.com	V. A.L.
Mr.	Yoshinosuke Hamada	JCC member	JICA Expert / Waste Management	JICA Project Team	ys-hamada@yachiyo-eng.co.jp	あっまこは
Ms.	Mitsuko Nakamura	JCC member	JICA Expert / Capacity Development	JICA Project Team	mtsk.nakamura@gmail.com	1+ rti \$ 883
Ms	Dorucas Hutu	Observer	A person in charge of the Japan Desk	Mand		A TI VII
Ms	Jovitha Simbiken	Observer	Graduated Training,	Mand		

Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (Group 2) Project Completion Report (3rd Term)

Japan International Cooperation Agency (JICA) Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd. Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries

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ANNEX 2 Rt The 4th Joint Coordination Committee (JCC) Meeting of J-PRISM II (Draft) 1. Date Tuesday, 26th April 2022 2. Time <u>09:00 am - 13:00 pm</u> 3. Venue Kumul Conference Room, Holiday Inn Hotel, Port Moresby Agenda **PNG Time** Agenda Facilitator/Resource person 09:00 - 09:30 Registration All participants 1. Opening Remarks & Introduction of Mr. Maino Virobo - Director, Policy 09:30 - 09:40 participants Division, CEPA Facilitator: Mr. Simeon Terina, 09:40 - 09:50 2. Objectives and Agenda Project Coordinator, NCDC Mr. Veari Kula Manager, 09:50 - 10:05 3. CEPA's Report on Output 1 Infrastructure, Utilities and Conventions Branch, CEPA 4. ULLGs Report on Output 2 Representative of AULLG Alotau ULLG 10:05 - 10:45 Goroka ULLG Representative of GULLG (10mins each) Kokopo/Vunamami ULLG Representative of KVULLG Lae City Authority Representative of LCA Mr. John Navara Manager, NCDC 10:45 - 11:00 5. NCDC Report on Output 3 WM Division 10:40 - 11:00 Coffee Break 6. Confirmation of project progress and remaining activities based on the **JICA Experts** 10th Monitoring sheet Mr. Yoshinosuke HAMADA 11:00 - 11:40 **Question & Answer** Mr. Junji ANAI Ms. Mitsuko NAKAMURA Signing of Minutes of Meeting MC: Ms. Janet HAUA, Director, 7. Signing Ceremony on Minutes of Community and Social Services, 11:40 - 11:55Agreement (MOA) between NCDC & NCDC AULLG / NCDC & LCA CEPA, NCDC, AULLG, LCA, JICA Handover Ceremony for Personal 8. 11:55 - 12:10 JICA PNG Office - NCDC Protective Equipment (PPE) 12:10 - 12:20 9. Closing remarks JICA PNG Office 12:20 - 13:00 Lunch

5. Expected Participants (Name of Organizations):

- Conservation & Environment Protection Authority (CEPA)
- National Capital District Commission (NCDC)
- ULLGs (Alotau, Goroka, Kokopo, Lae)

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ANNEX 3

Narrative Summary Overall Goal			
Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016-2025 (Cleaner Pacific			
Project Purpose			
(Region-wise) Human and institutional capacity base for sustainable SVVM* in the Pacific region is strengthened through implementation of Cleaner Pacific 2025.			 Natural disaster would not drastically affect the collaboration among participating countries.
(Country) Institutional framework and implementing capacity in SVM are enhanced at national and major urban local level governments (ULLGs)** level.	(Country) 1. The roles and responsibilities of related agencies for SWM are 1. National Policy, Strategy and determined at the national and local level.	1. National Policy, Strategy and Implementation Plan	 Political changes would not drastically affect the collaboration of participating countries.
	2. A coordination and monitoring mechanism for ULLGs in SWM 2. National Policy, Strategy and is established.	2. National Policy, Strategy and Implementation Plan	
Outputs			
Whut 1: Institutional capacity on SVM is enhanced through development of a National Policy, Strategy and Implementation Plan in line with the Cleaner Pacific 2025.	1-1. The current status on SWM in local levels are regularly updated by CEPA.	1-1. Analysis report on SWM in local levels	 Counterpart personnel keep working in the field of SVVM. Counterpart personnel do not leave the nost without thandion over
	1-2. Final draft of SVVM Implementation Plan is incorporated into the National Policy. Strategy and Implementation Plan to be submitted to the parliament for endorsement	1-2 Final draft of SWM Implementation Plan	the skills/ knowledge to the new staff. 5. Budget for the project activities is
Output 2: Planning capacity to tackle with the issues on SWM of some ULLGs is enhanced.	2-1. Four (4) ULLGs can set numerical targets based on waste	2-1. Related document of implementation plan developed by ULLGs	allocated and disbursed timely from C/P agencies.
Output 3: NCD WM Plan 2016–2025 is implemented sustainably as scheduled.	3-1 Solid waste of NCDC is quantitatively managed	3-1. Weighbridge data (collection amount, recycled amount, disposal amount, tipping	
	3-2. Main SVM Planning Targets (Collection, Recycling, Disposal) at a mid-term point in NCD WM Plan 2016 -2025 are (Clarify the quantitative targets from collection, recycling and disposal respectively according to the reviewed Action Plan)	5-2. Annual report prepared by NCDC	
R	3-3. Draft revision edition of NCD WM Plan is developed.	3-3 Draft revision edition of NCD WM Plan	

ow for CEPA to get al levels regularly o grasp current situation on rom local levels rflow	The Jananece Side	The DAID OLD	
ow for CEPA to get al levels regularly o grasp current situation on rom local levels flow	1	I RE PNG SIDE	
SVWM at local levels 1-3. Carry out data collection from local levels 1-4. Review the data collection flow	 Dispatch of experts Training Local cost for the activities of experts Local cost and equipment (Weighbridge) 	 Allocation of counterpart Office space and facilities for Japanese experts Operational expenses for administrative work transcontation, and seminar. 	
1-5. Analise the collected data 1-6. Elaborate the data collection flow		etc.	
1-7. Identify priority issues on SVVM at the national level for development of draft National Policy, Strategy and Implementation Plan			
1-8. Organize a series of national and regional consultation meetings *** for National Policy, Strategy and Implementation Plan			
1-9. Develop the final draft of the SWMI Implementation Plan to be incorporated in the National Policy, Strategy and Implementation Plan			
Output 2> 21. Develop the programme for planning capacity ebbarroement on SWM			Counterpart personnel working in the field of SWM are sufficiently secured under C/P Agencies.
Connected in some OLLOS 2-6. identify prioring issues based on the developed waste 4 2-6 Develop an implementation plan for improvement of the prioritised issue in some ULLGs			I
<output 3=""> 3-1. Install a weighbridge and data recording system at Baruni Disposal Site</output>			lssues and countermeasures>
 B. Introduce a new tipping fee charging system Establish a data management system on SVVM Kevnew the Action Plan or the NCU WW Plan 2015- 			
30.5 3.6. Develop implementation plans based on the reviewed Action Plan of NCD VMM Plan 2016-2025 3-6. Undertake prioritised implementation plans			
3-7. Monitor progress of the implementation plans			
at the Astion Plan			

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ANNEX5

	Contract The Contract of Participation	F COUNTERPART PERSONNEL OF PN		1	-	ted Out	
-	Project Position	Position	Organization	Name	1	2	3
	Project Director	Managing Director Director, Environment Protection	CEPA	Mr. Gunther Joku	1	1	1
	JCC member Co-Project	Division Manager, Infrastructure Utilities and	CEPA	Mr. Michael Wau	1		
	Manager	Conventions	CEPA	Mr. Veari Kula	1	~	1
	Co-Project Manager	Acting Manager, Waste Management Division	NCDC	Mr. John Navara	1	~	1
	Counterpart	Senior Assessment Officer, Environment Protection Division	CEPA	Ms. Rebecca Rami	1	~	
5	Counterpart	National Ozone Unit Project Officer, IUC Branch	CEPA	Ms. Anita Poesi	1		
7	Counterpart	MIA Project Officer, IUC Branch	CEPA	Ms. Patricia Torea	1		
3	Counterpart	Senior Policy Officer, Policy Division	CEPA	Ms. Carmel Jonduo	1	-	
	Counterpart	Director, Community and Social Services	NCDC	Ms. Janet Haua		1	1
0	Counterpart	Waste Management Engineer	WMD, NCDC	Mr. James Ricky		1	1
1	Counterpart	Senior Waste Management Officer	WMD,	Mr. Ronnie Ranu		1	1
2	Counterpart	(Industrial and Hazardous Waste) Waste Management Officer (Disposal	NCDC WMD,			v	
		& illegal dumping) Waste Management Officer (Disposal	NCDC WMD,	Mr. Walter Aukleya			1
3	Counterpart	& illegal dumping)	NCDC	Ms. Violet Loi			1
4	Counterpart	Acting Senior Waste Management Officer (Hazardous Waste, Public Places, Sanitary Pan)	WMD, NCDC	Ms. Vivianne Morofa		~	1
5	Counterpart	Waste Management Officer (Hazardous Medical Waste)	WMD, NCDC	Ms. Dianna Wapyer			1
6	Counterpart	Waste Management Officer (Domestic, Commercial)	WMD, NCDC	Mr. Paul Wisi			1
7	Counterpart	Waste Management Officer (Settlements, Villages)	WMD, NCDC	Ms. Racheal Inamuka			1
8	Counterpart	Supervisor (Landfill)	WMD,	Mr. Joshua Robert			1
9	Counterpart	Senior Waste Management Officer	NCDC WMD,	Mr. Simeon Terina	1	1	1
)	Counterpart	(Technical advisor) Senior Environment Health Officer	Alotau ULLG	Mr. Ivan Maraka	v		
		Town Engineer and Sewage / Landfill	Goroka City	The second second second		1	
1	Counterpart	Project Engineer Senior Environment Health Officer,	Council Kokopo	Mr. Hamilton Tubavai		1	
2	Counterpart	Kokopo ULLG Environment Health Officer, Kokopo	ULLG	Ms. Relvie Taplar		1	
3	Counterpart	ULLG	Kokopo ULLG	Ms. Helen Samuel		1	
24	Counterpart	Civil Engineer	Kokopo ULLG	Mr. Francis Moro		1	
5	Counterpart	Manager, Public Health & Sanitation	Lae City Authority	Mr. Jonathan Ipang		1	
	Counterpart	Environment Health Officer	Lae-ULLG	Mr. Paul Wiwi		\checkmark	
6	Counterpart	Environment Health Officer	Lae City Authority	Ms. Concitha Lalo		1	
7	JCC member	Town Manager	Alotau ULLG	Mr. Mickey Gahinem	1	1	
8	JCC member	Town Manager	Goroka ULLG	Mr. Harold Abori	1	1	
29	JCC member	Town Manager	Kokopo ULLG	Mr. Freddy Lemeki	1	~	
	JCC-member	City-Manager	Lae-ULLG	Mr. Joel Koland	1	1	
30	JCC member	a/City Manager	Lae City Authority	Mr. Robin Calestus	1	1	
ote	: CEPA: Conser NCDC: Nationa NDoH: Nationa WMD: Waste N	vation Environment Protection Authority al Capital District Commission Il Department of Health Aanagement Division .ccal Level Government	Authority				

Table 4. List of Counterparts (as of February 2022)

Annex B : Attachment for Solomon Islands

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	5.3.2 5 th JCC	

1 Lists of Project outputs and related documents

No.	Name of the Outputs	Issued date	Outline
1	Solid waste management plan in Honiara	Nov. 2019	Plan indicating the basic policy of solid waste management in Honiara City (approved by the Honiara city council)
2	Landfill operation manual	Aug. 2022	Revised version of the manual indicating operation management and regular operation and maintenance methods at the landfill site
3	Training material for workshop	Aug. 2022	Training material utilizing for workshops related to dissemination of lessons learned
4	Basic study report related to economic measures	Mar. 2020	Results of the survey on financial situation in Solomon Islands and Honiara City
5	Solid waste management plan in Tulagi	Aug. 2022	Plan indicating the basic policy of solid waste management in Tulagi
6	4th JCC meeting materials	Apr. 2022	Project progress, activity reports, PDM revisions, etc
7	5th JCC meeting materials	Aug. 2022	Project progress, activity reports, etc

Table 1-1 Lists of Project outputs and related documents (Solomon)

2 Inputs and Work schedule

2.1 Inputs

2.1.1 Dispatch of Japanese experts

No.	Name	Export	Dispatch	n period	PM	PM
NO.	Name	Expert	Start date	End date		
1	Yoshinosuke Hamada	SWM F2	2022/6/29	2022/8/20	1.77	1.77
Tota	l					1.77

*Work in Japan is separately summarized.

2.1.2 Acceptance of trainees

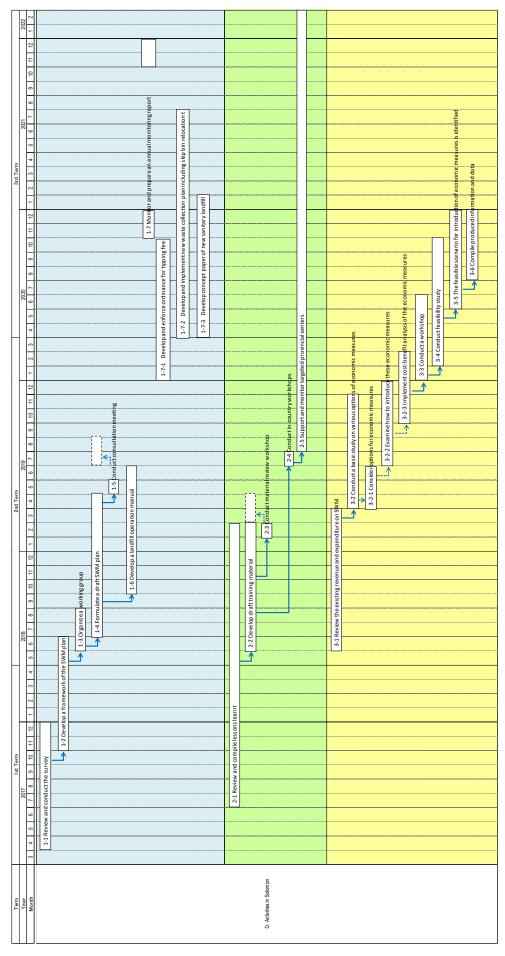
There was no acceptance of trainees.

Work schedule 2.2

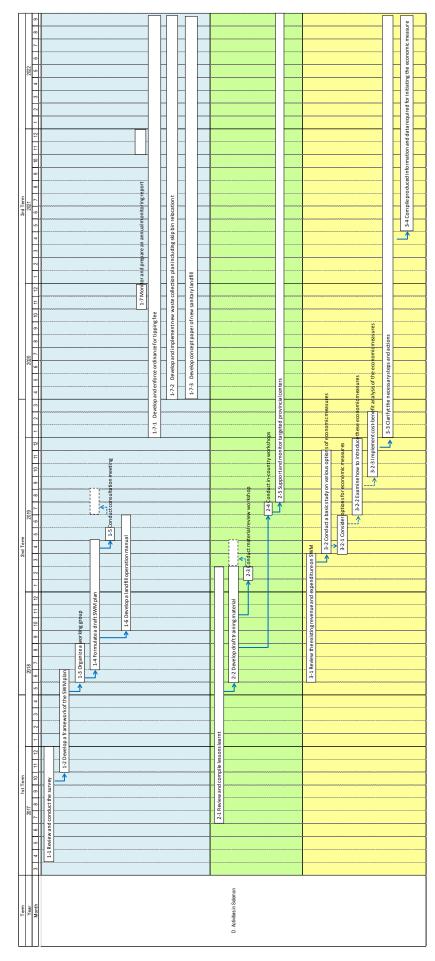
A stitution	nold	2047	ſ	2010		010	0000	1000		
Activities	гап	1102	1	010		2013	7070	1707	7777	Achievements
Sub-Activities	Actual	и п	H I	₽ Ħ	н				I I I	
Output 1: Capacity of Solid Waste Management of HCC is strengthened										
1-1 Review the existing data and conduct supplementary survey of the current SWM situation and organizational	Plan									Done
management issues	Actual									
1-2 Develop a framework of the SWM plan	Plan									Done
	Actual									
1-3 Organize a working group to discuss institutional, technical and financial arrangements for the SMW system in HCC	Actual									Done
recommendations for the necessary arrangements based on the	Plan									- Done C
results of discussion in the working group	Actual									
1-5 Conduct consultation meeting to build a consensus among stakeholders on the draft SWM plan	Plan									Done
	Actual									
1-6 Develop a landfill operation manual based on the draft SWM plan	Actual									Done
	Plan									ć
1-/ Monitor and prepare an amutal monitoring report of the activities of SWM	Actual									Done
1-7-1 Develop and enforce ordinance for tipping fee to introduce tipping fee system	Plan									Done
	Actual									
evelop and implement new waste collection plan including skip bin relocation to improve waste collection	Plan									Done
	Actual									
1-7-3 Develop concept paper of new sanitary landfill to facilitate a discussion about the construction of new landfill site	Plan Actual									Done
issons learnt from the activities related to SWM in Honiara and Gizo are promo	d practiced	ted and practiced in the targeted provincial centers	provincial	centers						
	Plan									
2-1 Keview and compile lessons learnt from activities related to SWM implemented in Honlara and Gizo	Actual									Done
2-2 Develop draft training material on SWM based on the results of 2-1	Plan									Done
	Actual									
2.3 Conduct material review workshop with officers of MECDM, MHMS, HCC, and GTC to verify and finalize training material	Plan Actual									Done
24 Conduct in-country workshops for officers involved in SVM of targeted provincial centers to prepare SVM	Plan									
plans in the targeted area, utilizing the above training material	Actual				4					Done
2-5 Support targeted provincial centers for development of SWM plans and implementation of SWM activities Ineflecting lessons learned	Plan Actual									Done
Output 3: Economic measures for sustainable SWM in the SI are specified										
2.1 Devices the original procession and comparish an OMM	Plan									
	Actual									DOILE
3-2 Conduct a basic study on various options of economic measures applicable to the Sobmon Islands to	Plan									Done
	Actual									
3-2-1 Consider options for economic measures	Actual									Done
3-22 Examine how to introduce these economic measures	Plan Actual									Done
3.2.3 Implement cost banafit analysis of the according materizes	Plan									000
	Actual									DOILE
3-3 The nesessary steps and actions required to implement the identified economic measures is clarified	Plan									Done
	Actual									
34 Compile produced information and data required for initiating the economic measure	Plan									Done
	Actual									

3 Work flow chart

3.1 Work flow chart based on PO2



3.2 Work flow chart based on PO3



4 Changes of PDM

PDM3 was modified and approved in the 4th JCC held on 20th April 2022, and no modification in the 5th JCC held on 17th August 2022.

4.1 **Project Purpose**

PDM2	PDM3
Project purpose	
Institutional capacity for SWM is strengthened at the national and provincial centers' levels.	No change
Objectively Verifiable Indicators	
 Activities proposed in the SWM plan are revised annually. SWM activities reflecting lessons learned are practiced in at least three provincial centers during the project period 	No change
 Necessary actions*1 are taken for legalization of selected economic measures 	

4.2 Outputs, Indicator and Activities

4.2.1 Output 1

PDM2	PDM3
Output 1	
Capacity of Solid Waste Management of HCC is strengthened	No change
Objectively Verifiable Indicators	
 1-1 Draft SWM plan is submitted to the city council. 1-2 Landfill management and waste collection service are carried out in accordance with the developed SWM Plan. (Numerical target indicators will be set based on the plan) 	No change
Activities	
 1-1 Review the existing data and conduct supplementary survey of the current SWM situation and organizational management issues 1-2 Develop a framework of the SWM plan 1-3 Organize a working group to discuss institutional, technical and financial arrangements for the SMW system in HCC 	No change

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PDM2	PDM3
Activities	
1-4 Formulate a draft SWM plan, including recommendations for the necessary arrangements based on the results of discussion in the working group	No change
1-5 Conduct consultation meeting to build a consensus among stakeholders on the draft SWM plan	
1-6 Develop a landfill operation manual based on the draft SWM plan	
1-7 Monitor and prepare an annual monitoring report of the activities of SWM	
1-7-1 Develop and enforce ordinance for tipping fee to introduce tipping fee system	
1-7-2 Develop and implement new waste collection plan including skip bin relocation to improve waste collection service	
1-7-3 Develop concept paper of new sanitary landfill to facilitate a discussion about the construction of new landfill site	

Output 2 4.2.2

PDM2	PDM3
Output 2	
Lessons learnt from the activities related to SWM in Honiara and Gizo are promoted and practiced in the targeted provincial centers	No change
Objectively Verifiable Indicators	
 2-1 Training material is developed and revised at least once during the project 2-2 SWM plans are prepared in at least three provincial centers. 2-3 SWM plans are monitored in at least three provincial centers. 	 2-1 Training material is developed and revised at least once during the project 2-2 SWM plans are prepared in at least two provincial centers. 2-3 SWM plans are monitored in at least two provincial centers.
Activities	
 2-1 Review and compile lessons learnt from activities related to SWM implemented in Honiara and Gizo 2-2 Develop draft training material on SWM based on the results of 2-1 2-3 Conduct material review workshop with 	No change
officers of MECDM, MHMS, HCC, and GTC to verify and finalize training material	

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PDM2	PDM3
Activities	
2-4 Conduct in-country workshops for officers involved in SWM of targeted provincial centers to prepare SWM plans in the targeted area, utilizing the above training material	No change
2-5 Support targeted provincial centers for development of SWM plans and implementation of SWM activities reflecting lessons learned	

Output 3 4.2.3

Output 3	
Economic measures for sustainable SWM in the SI are specified	No change
Objectively Verifiable Indicators	
are identified through the basic study	 3-1 Feasible options of economic measures are identified through the basic study 3-2 The document necessary to legally process one economic option is prepared
Activities	
 expenditure on SWM 3-2 Conduct a basic study on various options of economic measures applicable to the Solomon Islands to sustain SWM 3-2-1 Consider options for economic measures 3-2-2 Examine how to introduce these economic measures 3-2-3 Implement cost-benefit analysis of the economic measures 3-3 Conduct a workshop to explain the results of basic study to stakeholders and discuss various scenarios 	 3-1 Review the existing revenue and expenditure on SWM 3-2 Conduct a basic study on various options of economic measures applicable to the Solomon Islands to sustain SWM 3-2-1 Consider options for economic measures 3-2-2 Examine how to introduce these economic measures 3-2-3 Implement cost-benefit analysis of the economic measures 3-3 The necessary steps and actions required to implement the identified economic measures is clarified 3-4 Compile produced information and data required for initiating the economic measure

5 JCC

5.1 JCC Program

5.1.1 4th JCC

- Date: 20th April 2022
- Time: 10:00 12:00
- Venue: MECDM Conference room (Advanced Technology Building) & Online
- Agenda:

Time	Provisional Agenda Item	Responsible Person
9:30-10:00 am	Arrival of Participants Participants logging in to the zoom link	All participants
Session 1-Offic	cial Opening of Meeting	
10:00- 10:10am	Welcome	Ms. Debra Kereseka, Co-Project Manager/MECDM
10:10- 10:15am	Opening Prayer	Ms. Ella Rizwold, Acting Chief Health Inspector, EHD/HCC
10.15-10:35 am	1. Keynote Remarks	 Mr. Chanel Iroi, Deputy Secretary Technical, MECDM Mr. Motoyuki Uegaki, Resident Rep, JICA SI
10.35-10.40 am	2. Group Photo	All participants
Session 2- Pre	sentation of Project Progress of Outp	outs
10.40-10.43 am	3. Presentation 1-Objectives of JCC	Mr. Hamada, JICA Expert, JICA/JPRISM II Project Team
10:43-11:00 am	3.a. Presentation 2-Progress of Activities under Output 1	Mr. George Bogese, Director, Waste Management Pollution Control Division, HCC
11.00-11.05 am	3.b. Presentation 3-Progress of Activities under Output 2 &3	Ms. Wendy Beti, Senior Environment Officer/MECDM
11.05-11.10 am	3. c. Presentation 4-Summary of Monitoring Sheet	Mr. Hamada, JICA Expert, JICA/JPRISM II Project Team
11.15- 11.20am	3.d. Presentation on update of J- PRISM II Regional Activities	Mr. Faafetai Sagapolutele, Assistant Chief Advisor, J-PRISM II Project
11.20- 11.30am	Plenary Session (Question & Answer)	MC to lead facilitate discuss-Mr. Justus Denni, City Clerk, HCC

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e Management in Pacific Island Countries	Kokusai Kogyo Co., Ltd. · Yachiyo Enginee
Group 2) Project Completion Report (3rd Term)

Time	Provisional Agenda Item	Responsible Person
Session 3- End	lorsement & Approval of Project PDN	I, PO & Project Counterparts Personal
11:30-11:40 am	 4. Presentation on Documents for Endorsement/Approval Revision of PDM Modification of PO Human Resource Changes Q & A on modified 	Mr. Hamada, JICA Expert, JICA Project Team Ms. Wendy Beti, Senior Environment Officer/MECDM
11:40-11:50 am	5. Endorsement of ProjectDocumentsPDM, PO, Human resources, etc	Chair to facilitate JCC endorsement of PDM/PO/CP list - Mr. Chanel Iroi, Deputy Secretary Technical, MECDM
Session 4- Clo	sing of Meeting	
11.50- 12.00pm	6. Any other Business	MC- Justus Denni, City Clerk, HCC
11:50-12:00 pm	7. Closing Remarks	 Mr. Mimura Satoru, Chief Advisor, J-PRISM II Project (tbc) Mr. Justus Denni, City Clerk, Honiara City Council
12:00-12:10 pm	Closing Prayer	Mr. Eddie Gaza, Works Manager, HCC

5th JCC 5.1.2

- Date: 17th August 2022 ٠
- Time: 10:00 12:00 •
- Venue: Rock Haven Conference room
- Agenda •

Time		Provisional Agenda Item	Responsible Person
Session	1- Offici	al Opening of Meeting	
10:00- am	10:10	Welcome	Ms. Debra Kereseka, Co- Project Manager / MECDM
10:10- am	10:15	Opening Prayer	Ms. Ella Rizwold, Acting Chief Health Inspector, EHD/ HCC (tbc)
10:15- am	10:35	1. Keynote Remarks	 Mr. Chanel Irori, Deputy Secretary Technical, MECDM Mr. Takeshi Watanabe, JICA SI Office
10:35- am	10:40	2. Group Photo	All participants

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Time	Dravisional Agonda Itam	Deepensible Dereen
	Provisional Agenda Item	Responsible Person
Session 2- Pres	entation of Project Achievements	
10:40 – 10:45 am	3. Presentation 1- objectives of JCC	Mr. Hamada, JICA Expert, JICA/ PRISM II Project Team (tbc)
10:45- 11:00 am	4. a. Presentation 2- Project Achievements under Output 1	Mr. Abednigo Maeohu, D/ Director, Waste Management Pollution Control Division, HCC
11:00- 11:15 am	4. b. Presentation 3. Project Achievements under Outputs 2 & 3	Ms. Wendy Beti, Senior Environment Officer/ MECDM
11.15-11.25am	4.c. Achievement of Project Purpose	Ms. Debra Kereseka, Co- Project Manager
11:15- 11:25 am	5. Summary of Phase II activity and way forward	Mr. Hamada, JICA Expert, JICA project Team
11:25- 11:45	Plenary session (Question & Answers)	MC to lead facilitate
am		discuss- Mr. Justus Denni, City Clerk, HCC
Session 3-		
11:45- 11:55 am	5. Adoption of a. J-PRISM Phase II activity achievements and Way forward b. J-PRISM II Project Counterparts list for remaining period of project	Chair– Mr. Chanel Irori, Deputy Secretary Technical, MECDM (tbc)
Session 4- Closi	ng of Meeting	
11:55- 12:05 pm	Any other Business	MC- Justus Denni, City Clerk HCC (tbc)
12:05- 12:10 pm	Closing Remarks	1. Mr. Justus Denni, City Clerk Honiara City Council
12:10- 12:15 pm	Closing Prayer	Mr. Eddie Gaza, Works Manager, HCC

5.2 Minutes of Meeting

5.2.1 4th JCC

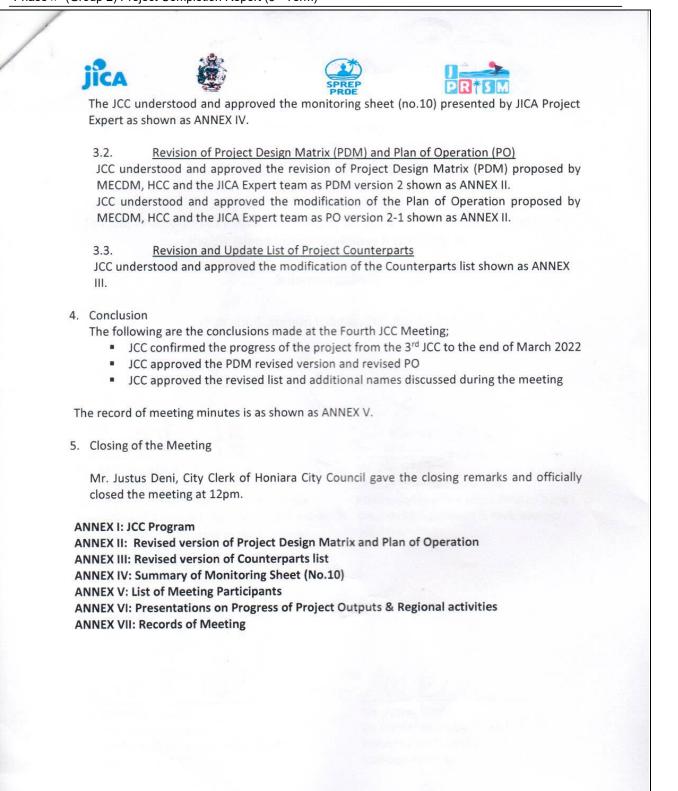
Minutes of Meeting on the Fourth Joint Coordinating Committee of the Japanese Technical Cooperation Project For the Promotion of Regional Initiative on Solid Waste Management in the Pacific Island Countries Phase II (J-PRISM II) In Solomon Islands Honiara, Solomon Islands, 20th April 2022 Mr. Mimura Satoru Mr. Chanel Iroi **Chief Advisor Deputy Secretary Technical** Japanese Technical Cooperation Project for Ministry of Environment Climate Change Promotion of Regional Initiative on Solid Waste **Disaster Management & Meteorology** Management in the Pacific Island Countries Solomon Islands Phase II (J-PRISM II) Witnessed by: Mr. Motoyuki Uegaki Mr. Justus Denni Co-Project Manager/City Clerk **Resident Representative** Japan International Cooperation Agency Honiara City Council Solomon Islands Office Solomon Islands B-11

iic/ Fourth Joint Coordinating Committee Meeting of the J-PRISM II Project 20 April 2022- Virtual Meeting, Solomon Islands 1. Meeting started by Opening Prayer. One of the Project Counterparts opened the meeting with a word of prayer. 2. Opening of the Meeting Due to time, all participants were not able to introduce themselves formally but when all logged in were able to greet everyone prior to the start of the meeting. An opening welcome was given by Ms. Debra Kereseka, Deputy Director Environment of the Environment & Conservation Division under the Ministry of Environment Climate Change Disaster Management & Meteorology (MECDM). Mr. Chanel Iroi, Deputy Secretary Technical of MECDM and Mr. Motoyuki Uegaki, Resident Representative of Japan International Cooperation Agency of Solomon Islands gave keynote remarks. Mr. Chanel Iroi acted as Chair and declared the meeting opened. The main points discussed as follows. 3. Agreement & Confirmation Several Presentations on the purpose of JCC, Progress of Project Outputs and Regional Project Activities were presented. Following the presentations, plenary discussions were followed. The meeting chairperson, Mr. Chanel Iroi then proceeded the meeting with the confirmation of the following matters: 3.1. Progress of Project Outputs The JCC acknowledged that the progress of each output made by several activities carried out by the Project Counterparts and the JICA Expert team from the 3rd JCC to the end of March 2022 according to the presentation by MECDM & HCC as below: (i) OUTPUT 1 One of the major outcomes of the Honiara City Council Solid Waste Management Plan is the establishment of the new Waste Management & Pollution Control Division. Under the new division, relevant staff were recruited to man the different sections of the division. The presentation on progress of output 1 as shown in ANNEX VII. OUTPUT 2 (ii) The draft Solid Waste Management Plan for Tulagi (Central Province) and Auki (Malaita Province) was developed in consultation with the Provincial Counterparts. The development of the draft Plans was compiled following a follow-up workshop and lead by Provincial Counterparts supported by MECDM and JICA Expert. The presentation on progress of output 2 as shown in ANNEX VII. OUTPUT 3 (iii) The Basic study report was developed and completed. It will be reviewed and updated when necessary. There were some activities under the output which will be considered for

2

3 as shown in ANNEX VII.

amendment for the remaining project time-frame. The presentation on progress of output



2

5.2.2 5th JCC

MINUTES OF MEETING **OF THE** FINAL JOINT COORDINATING COMMITTEE MEETING ON JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTRIES PHASE II BETWEEN SOLOMON ISLANDS GOVERNMENT MINISTRY OF ENVIRONMENT, CLIMATE CHANGE, DISASTER MANAGEMENT AND METEOROLOGY **MINISTRY OF HEALTH & MEDICAL SERVICES** HONIARA CITY COUNCIL AUTHORITY **GIZO TOWN COUNCIL** AND JAPAN INTERNATIONAL COOPERATION AGENCY Rock Haven Conference room, Honiara, Solomon Islands Wednesday 17th August 2022 演四夏之钟 Mr. Yoshinosuke Hamada Mr. Chanel Iroi JICA Expert **Deputy Secretary Technical** Ministry of Environment Climate Change JICA Expert G2 Team J-PRISM II **Disaster Management & Meteorology** Witnessed by: JOV Dr. Nemia Bainivalu Mr. Takeshi Watanabe Mr. Abegnigo Maeohu **Resident Representative** Deputy Secretary Technical **Deputy Director** Ministry of Health & Medical Waste Management & JICA SI Office Services **Control Division** Honiara City Council 1







THE FINAL JOINT COORDINATING COMMITTEE MEETING ON THE J-PRISM II PROJECT, WEDNESDAY 17TH AUGUST 2022 – ROCK HAVEN CONFERENCE ROOM, HONIARA, SOLOMON ISLANDS

The minutes of meeting is the record of the Final Joint Coordinating Committee on the J-PRISM II (herein referred to as the" JCC ") held on Wednesday 17th August 2022 to update and report on the information on J-PRISM II, for confirmation of the project achievements based on the Project Design Matrix and Plan of operation of implementation within the frame work of the record of discussion and to exchange opinions on major issues that arise during the implementation of the project.

The list of meeting participants is attached in Annex 1.

Date: Wednesday 17th August 2022

Time: 10: 00am - 12:00 pm

Venue: Rock Haven Conference room, Honiara, Solomon Islands

Chairman: Mr.Chanel Iroi, Deputy Secretary Technical, Ministry of Environment Climate Change Disaster Management & Meteorology

Facilitator: Ms. Debra Kereseka, Deputy Director Environment of Environment & Conservation Division of MECDM

1. Introduction

The Ministry of Environment, Climate Change, Disaster Management and Meteorology (MECDM), Ministry of Health & Medical Services (MHMS) and Honiara City Council (HCC) coorganised the Final Joint Coordinating Committee Meeting of the Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management Phase II on Wednesday 17th August 2022 in Honiara, Solomon Islands. The JCC was supported by the JICA Project Expert and Solomon Islands Project Counterparts.

The JCC was attended by participants (See Annex I) who are mainly the core stakeholders from the Ministry of Environment, Climate Change, Disaster Management and Meteorology (MECDM), Ministry of Health and Medical Services (MHMS), Honiara City Council, Japan International Cooperation Agency (JICA), JICA Expert Project Team and relevant project partners. There were also two observers from the Solomon Islands Recycling & Waste Management Association (SIRWMA) who also participated in the meeting.

The meeting agenda is in Annex II.







2. Opening of Meeting

The meeting was formally opened with a word of prayer.

An opening welcome was given by Ms. Debra Kereseka, Deputy Director Environment of the Environment & Conservation Division under the Ministry of Environment Climate Change Disaster Management & Meteorology (MECDM). Mr. Chanel Iroi, Deputy Secretary Technical of MECDM and Mr. Takuya Kuga, Project Formulation Advisor of Japan International Cooperation Agency of Solomon Islands gave keynote remarks. Mr. Chanel Iroi acted as Chair and declared the meeting opened. The main points discussed as follows.

3. Agreement & Confirmation of Project Achievements

Several Presentations on the purpose of JCC, achievement of Project activities, overall achievement of project purpose and summary of achievement of Project Activities were presented. Following the presentations, plenary discussions were followed. The meeting chairperson, Mr. Chanel Iroi then proceeded the meeting with the confirmation of the following matters:

1.1. Achievement of Project Outputs

The JCC acknowledged that the achievement of each output made by several activities carried out by the Project Counterparts and the JICA Expert team during the Project period according to the presentation by MECDM & HCC as below:

(i) OUTPUT 1

Some of key achievements of the Honiara City Council includes the development of Solid Waste Management Plan which establishes the new Waste Management & Control Division. Under the new division, staff were recruited to man the different sections of the division. Another key achievement is the development of a landfill operation manual and the implementation of the tipping fees at the Ranadi landfill. Most of the project activities have been implemented and achieved. The presentation on project output 1 achievements is shown in ANNEX III.

(ii) OUTPUT 2

Key project output 2 achievements over the past years includes the development of the SWM training manual which enables project counterparts to utilize to support Tulagi and Auki to develop their SWM plans. The development of the SWM Plans for Tulagi and Auki was compiled by Provincial Counterparts and supported by MECDM, MHMS & HCC and JICA Expert. Most of the project activities under the project output 2 are completed and achieved. The presentation on project output 2 achievements is shown in ANNEX IV.

(iii) OUTPUT 3

The Basic study report was developed and completed. The outcome of the basic study report is for the plastic ban. Draft drafting instructions for regulation on plastic is developed and clarifications on next steps and actions done. Project activities under the







project output 3 is achieved. The presentation on project output 3 achievements is shown in ANNEX V.

(iv) ACHIEVEMENT OF THE PROJECT

JCC confirmed that the most of outputs and indicators set in the PDM were achieved. This was reflected in the presentation delivered by the Co-Project Manager is shown in Annex VI. The presentation on the achievement of project purpose and summary of the overall project achievements is shown in ANNEX VII.

4. Close of Meeting

The chair delivered the final wrap of the meeting discussions. Following the final wrap up of the meeting discussions, the meeting was officially closed with a closing remarks from Mr. Abednigo Maeohu, Deputy Director of Waste Management & Control Division, Honiara City Council at 12pm.

Annex I- List of meeting participants

Annex II- Final Joint Coordinating Committee Meeting Agenda

Annex III- Presentation on Project Output 1 by Honiara City Council

Annex IV- Presentation on Project Output 2 by Ministry of Environment Climate Change Disaster Management & Meteorology

Annex V- Presentation on Project Output 3 by Ministry of Environment Climate Change Disaster Management & Meteorology

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5.3 List of participants

5.3.1 4th JCC

Email	<u>Clroi@mecdm.gov.sb</u>	DKereseka@mecdm.gov.sb			WBeti@mecdm.gov.sb		justusdenni@honiaracitycouncil.com.sb	rizwoldella@gmail.com/ERizwold@hcc.gov.sb	georgebgs59@gmail.com	worksmanager.hcc@gmail.com	OOli@hcc.gov.sb		<u>JPuia@hcc.gov.sb</u>		<u>BGedi@hcc.gov.sb</u>			<u>GTitiulu@moh.gov.sb</u>	<u>BRamo@moh.gov.sb</u>	<u>KSikala@moh.gov.sb</u>		
Organizations	Ministry of Environment Climate Change Disaster Management & Meteorology	Environment & Conservation Division/ Ministrv	of Environment Climate Change Disaster	agement & Meteorology	ronment & Conservation Division/	of Environment Climate Change Disaster Management & Meteorology	Honiara City Council	Environmental Health Division/Honiara City	Waste Management & Pollution Control Division/ Honiara City Council	Works Division/ Honiara City Council	Environmental Health Promotion	ra City Council	Environmental Health Division/Honiara City Council		Environmental Health Division/Honiara City Council	Waste Management & Pollution Control Division/ Honiara City Council	Environmental Health Division/Honiara City Council	Environmental Health Division/Ministry of Health & Medical Services	National Health Promotion Division/Ministry of Health & Medical Services	National Health Promotion Division/Ministry of Health & Medical Services	Environmental Health Division/Guadalcanal Provincial Government	
Positions	Deputy Secretary Technical	Deputy Director Environment			Senior Environment Officer		City Clerk	Acting Chief Health Inspector	Director	Works Manager	Chief Health Promotion Officer		Senior Health Inspector		Health Inspector	Senior Works Officer	Senior Health Inspector	Deputy Director			Senior Health Inspector	
Names	Chanel Iroi	Debra Kereseka			Wendy Beti		Justus Denni	Ella Rizwold	George Bogese	Eddie Gaza	Oliver Oli		Josiah Puia		Billy Gedi	Francis Fiku	Chelsea Hou	George Titiulu	Beverly Ramo	Kelton Sikala	Vaelyn Moli	
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charleskelly74@gmail.com	<u>reneerario@gmail.com</u>	<u>ys-hamada@yachiyo-eng.co.ip</u>				<u>Uegaki. Motoyuki@jica.go.jp</u>												
Gizo Town Council/ Western Provincial Government	Gizo Town Council/ Western Provincial Government	JICA Expert /JICA Project Team/Yachiyo Engineering	J-PRISM II Project	J-PRISM II Project		Japan International Cooperation Agency			SPREP									
Town Clerk	Waste Management Officer					Resident Representative				Regional Cooperation Coordinator								
Charles Kelly	Renee Rario	Yamaguchi Hamada	Nakamura Mimura	Junji Anai	Shinnosuke Oda	Motoyuki Uegaki	Yutaka Fukase	Nonka Yamada	Laisani Lewanavanua	Ayako Yoshida	Evangeline Potifara	Maeshima	Mimura Satoru					
17	18	19	20	21	22	23	24	25	26	27	28	29	30					

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5.3.2 5th JCC

Signature	(mark)	All way	Agendy-	Mr. Rowd	(Enered .		(
Email	Clroi@mecdm.gov.sb	<u>DKereseka@mecdm.gov.sb</u>	<u>WBeti@mecdm.gov.sb</u>	justusdenni@honiaracitycouncil.com.sb	rizwoldella@gmail.com ERizwold@hcc.gov.sb	georgebgs59@gmail.com	worksmanager.hcc@gmail.com	<u>OOll@hcc.gov.sb</u>	<u>JPuia@hcc.gov.sb</u>	<u>BGedi@hcc.gov.sb</u>
Organizations	Environment Climate ter Management &	Environment & Conservation Division/ Ministry of Environment Climate Change Disaster Management & Meteorology	Environment & Conservation Division/ Ministry of Environment Climate Change Disaster Management & Meteorology	Honiara City Council	Environmental Health Division/Honiara City Council	Waste Management & Pollution Control Division/ Honiara City Council	Works Division/ Honiara City Council	Environmental Health Promotion Division/Honiara City Council	Environmental Health Division/Honiara City Council	Environmental Division/Honiara City Council
Docitione	Deputy Secretary Technical	Deputy Director Environment	Senior Environment Officer	City Clerk	Acting Chief Health Inspector	Director	Works Manager	Chief Health Promotion Officer	Senior Health Inspector	Health Inspector
Namor	Chanel Iroi	Debra Kereseka	Wendy Beti	Hickey I au b	Ella Rizwold	George Bogese	Eddie Gaza	Oliver Oli	Josiah Puia	Billy Gedi
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Project for Promotion of Regional Initiative on Japan International Cooperation Agency (JICA) Solid Waste Management in Pacific Island Countries Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd. Phase II (Group 2) Project Completion Report (3rd Term) Project for Promotion of Regional Initiative on Japan International Cooperation Agency (JICA) Solid Waste Management in Pacific Island Countries Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd. Phase II (Group 2) Project Completion Report (3rd Term)

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Annex C : Attachment for Republic of Vanuatu

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1 Lists of Project outputs and related documents

No.	Name of the Outputs	lssued date	Outline
Tech	nical Cooperation Products		
	Outline of Counterparts (Summary of Baseline Survey)	Feb. 2018	C/P list, Organization structure, Baseline survey results
A	Solid Waste Management (SWM) plan of PVMC1 (2019)	Oct. 2018	Outline of PVCC, Waste flow and composition, collection and transport, landfill, priority activities, action plan in 2019 etc.
	Detailed action plan of the priority activities of NWWMPCS (2019, public version)	Mar. 2019	Monitoring results of NWMPCS (2018), Detailed action plan (2019)
в	Detailed action plan of the priority activities of NWWMPCS (2020, public version)	Mar. 2020	Monitoring results of NWMPCS (2017-2019 and 2020 provision), Detailed action plan (2020)
	Final evaluation report of NWMPCS	May 2021	Final evaluation of monitoring results of NWMPCS, outcomes and Issues to be solved in the next term of the NWMPCS
с	PVCC and Shefa province SWM Plan (2021-2030)	Dec. 2020	Current status of SWM, issues, waste flow, future plan of SWM system, action plan etc.
D	Drafting Instructions on Product Stewardship for Selected Beverage Containers in Vanuatu (as of July 2021)	Aug. 2022	Instructions that the DEPC has to submit to the State Law Office (SLO) so that SLO will draft the regulation of CDS accordingly.
Gene	eral		
1	Press release	Jul. 2020 - Sep. 2022	Articles on JICA website, DEPC website and local newspaper etc.
2	Presentation material of the 4th JCC meeting	Nov. 2021	C/P activity report, Progress of activities and achievements
2	Presentation material of the 5th JCC meeting	Aug. 2022	through J-PRISM II etc.
Outp	ut 2 related documents		
3	Development Guide and Operation Manual For Bouffa Disposal Site	Aug. 2022	Development Guide of Bouffa Disposal Site, Landfill extension procedure, Landfill Operation Manual, Emergency Measures (Accident, fire) etc.
4	PVCC Waste Management Action Plan 2022-2024	Aug. 2022	Monitoring results on the progress of the SWM plan 2021-2030 as of the mid of 2022, Actions to be completed in 2022-2024

Table 1-1 Lists of Project outputs and related documents (Vanuatu)

¹ Port Vila Municipal Council changed its name to "Port Vila City Council" in January 2020.

Solid Waste Management in Pacific Island Countries Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd. Phase II (Group 2) Project Completion Report (3rd Term)

No.	Name of the Outputs	lssued date	Outline
Outp	out 3 related documents		
5	Lessons Learnt on Consensus Building Process for Introducing the Container Deposit Scheme in Vanuatu (confidential and internal review only)	Aug. 2022	Chronology and Activity Timelines, Key Factors Concerning the Introduction of CDS into Vanuatu & Analysis of Constraining Factors, Lessons Leant etc.
6	Implementation Notes for CDS from J-PRISM II (public version)	Aug. 2022	Action plans including the potential Technical Assistance areas for implementing CDS in Vanuatu.

2 Inputs and Work schedule

2.1 Inputs

2.1.1 Dispatch of Japanese experts

No.	Name	Position	Dispatc	h period	PM	PM
INO.	Name	FOSILION	Start date	End date	FIVI	
1	Mr. Junji	Sub Team	21/10/2021	05/12/2021	1.53	2.56
	ANAI	Leader/SWM D2	24/07/2022	23/08/2022	1.03	2.50
2	Ms. Rikae	SWM F3	21/10/2021	05/12/2021	1.53	2 70
2	KODANI	300101 F3	12/08/2022	15/09/2022	1.17	2.70
3	Mr. Tetsuo	Heavy Equipment	21/10/2021	21/11/2021	1.07	1.87
3	Yatsu	Procurement	02/08/2022	25/08/2022	0.80	1.07
					Total	7.13

*Work in Japan is separately summarized.

2.2 Acceptance of trainees

There was no acceptance of trainees.

2.3 Work schedule

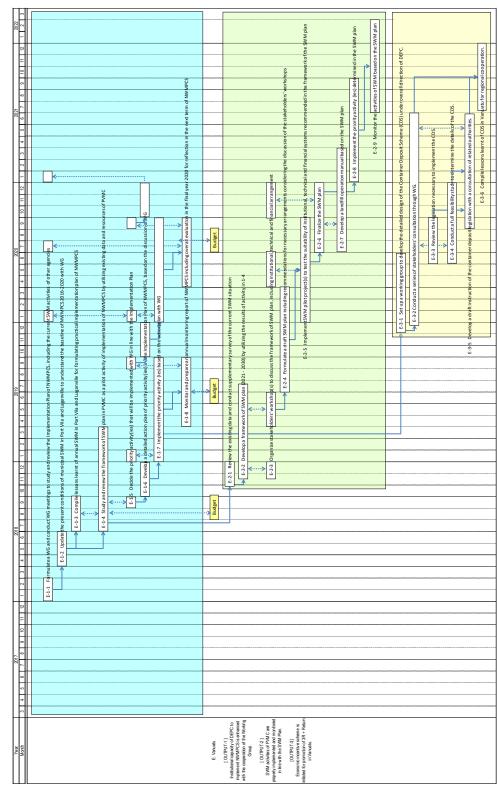
Activities	Plan	2017			2018			2019	19			2020			7	2021			2022	2	
Sub-Activities	Actual	H H H I	2	н I	H	₽	н	н	Ħ	Þ	-	-	N E	I L	н	Ħ	₽	н	Ħ	н	
Output 1: Implementation process to enforce NWMPCS is organize	d unde	nized under the initiative of DEPC and the Working Group	ative of	f DEP(C and	the	Wor	king	Grou	ġ.											
p	Plan																				
current SWM activities of other agencies	Actual																				
1-2 Update the present conditions of municipal SWM in Port Vila	Plan																				
and Lugarivine to understand the baseline of NVIMPCS 2010- 2020 with WG	Actual																				
1-3 Compile lessons learnt of SWM in Port Vila and Luganville for	Plan																				
formulating practical implementation plan of NWMPCS	Actual																				
1-4 Study and renew the framework of annual SWM plan in	Plan																				1
existing data and resources of PVCC	Actual																				
1-5 Decide the priority activity(ies) that will be implemented with	Plan																				
WG in line with the Implementation Plan	Actual																				
1-6 Develop a detailed action plan of priority activity(ies) in the	Plan																				
	Actual																				
1-7 Implement the priority activity (ies) based on the action plan	Plan																				
with WG	Actual																				
S	Plan																				
the next term of NWMPCS	Actual																				

Project for Promotion of Regional Initiative on	Solid Waste Management in Pacific Island Countries	Phase II (Group 2) Project Completion Report (3rd Term)
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Activities	Plan	20	2017		8	2018		2019	6		2020	0		2021	-	Ñ	2022
Sub-Activities	Actual	Ħ	Ħ	2	н I	Ħ	и И	Ħ	₽ E	r I	Ħ	≥ Ħ	I	ц	N ∎	I	н
Output 2: SWM activities of PVCC are properly implemented and ${f m}$	monitored	d in li	in or	th th∈	SWN	in line with the SWM Plan.											
2-1 Review the existing data and conduct supplementary survey	Plan																
of the current SWM situation	Actual																
2-2 Develop a framework of SWM plan (2021 - 2030) by utilizing	Plan																
the results of activity in 1-4	Actual																
2-3 Organize stakeholders' workshop(s) to discuss the framework	Plan																
ol SWM plan, including insulutional, technical and inancial arrangement	Actual																
2-4 Formulate a draft SWM plan including recommendations for	Plan																
necessary arrangements considering the discussion of the stakeholders' workshops	Actual																
2-5 Implement SWM pilot project(s) to test the suitability of	Plan																
insulutional, technical and linancial systems recommended in the framework of the SWM plan	Actual																
0 6 Fincline the CWMM alon	Plan																
	Actual																
2-7 Develor a landfill oneration manual based on the SWM nlan	Plan																
	Actual																
2-8 Implement the priority activity (ies) determined in the SWM	Plan																
	Actual																
2.0 Monitor the activities of CNAM heard on the CWAM class	Plan																
	Actual																
Output 3: Economic incentive scheme is initiated for promotion of	of 3R + Return in	turn i	n Var	Vanuatu													
3-1 Set up a working group to develop the detailed design of the	Plan																
Container Deposit Scheme (CDS) under overall direction of DEPC	Actual																
2.0 O Construction of statistical and statistical transmission of the statistical statisti	Plan																
	Actual																
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Plan																
	Actual																
3-4 Conduct a full feasibility study to determine the details of the	Plan																
CDS	Actual																
3-5. Develop a draft instruction of the container deposit legislation	Plan																
with a consultation of related authorities	Actual																
3-6. Compile lessons learnt of CDS in Vanuatu for regional	Plan																
cooperation	Actual																

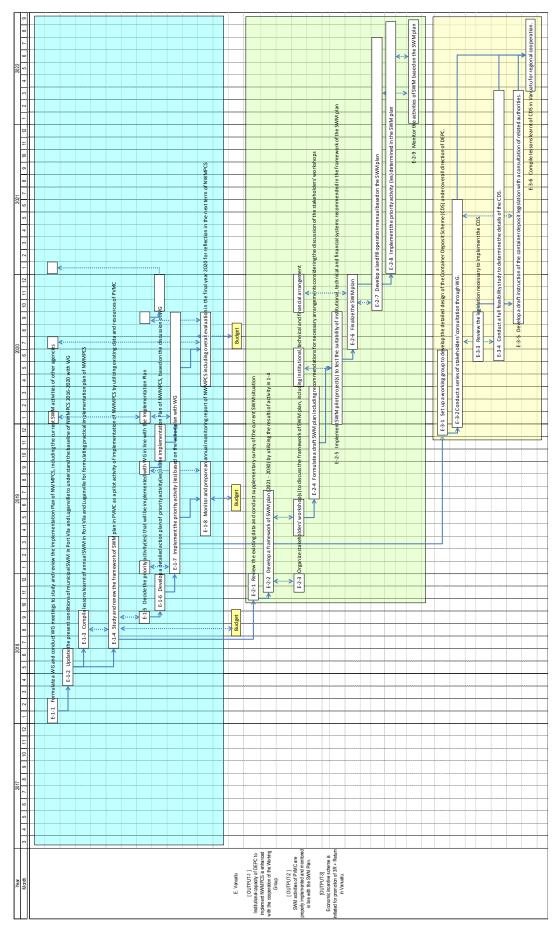
3 Work flow chart

3.1 Work flow chart based on PO3



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3.2 Work flow chart based on PO3.1



C-6

4 Changes of PDM

PDM3 was revised as PDM3.1 in the 4th JCC held on November 30th, 2021 with the following changes. There was no further changes in the 5th JCC held on August 19th, 2022.

4.1 Project Purpose

PDM3	PDM3.1		
Project purpose			
A foundation of implementing and monitoring SWM activities in line with the Vanuatu National Waste Management and Pollution Control Strategy (NWMPCS) is built.	No change		
Objectively Verifiable Indicator	Objectively Verifiable Indicator		
1. Based on the monitoring results of NWMPCS 2016-2020, the gaps and issues of the Implementation Plan are evaluated and reflected to the next term of NWMPCS.	No change		
Means of Verification			
1. Summary of the monitoring reports submitted to the NWMPCS coordinating committee.	 Summary of the monitoring reports shared with stakeholders identified in the NWMPCS. 		

4.2 Outputs, Indicator and Activities

There was no changes of outputs, indicator and activities during the 3rd term.

5 JCC

5.1 JCC Program

5.1.1 4th JCC

- Data: Tuesday, November 30th, 2021
- Venue: Conference Room at the Melanesian Hotel
- Chairperson: Ms. Donna Kalfatak, Director, DEPC
- Agenda:

Time	Agenda Items	Presenter/Responsible Person
9:30-10:00	Registration of Guests and Participants	Registration by All participants
10:00-10:02	Opening Prayer	Mr. Sandy Mwetu, PVCC
10:02-10:10	Welcome Toktok	Project Director: Ms. Donna Kalfatak, Director, DEPC
10:10-10:20	Keynote Remarks of JICA Vanuatu Office	Ms. Rika Uemura, Resident Representative of JICA in Vanuatu
10:20-10:25	Introduction of participants	Project Director
10:25-10:30	Confirmation of Minutes of Meeting of the third JCC	Ms. Rikae Kodani, J-PRISM II
10:30-10:45	Final Evaluation of NWMPCS 2016- 2020, next term of strategy & national coordinating committee and Progress of CDS Introduction	Ms. Ionie Bolenga, DEPC Ms. Annabelle Alilee, DEPC
10:45-11:00	Improvement of SWM based on the PVCC SWM Plan 2021-2030	Mr. Jason Andrews, PVCC Mr. Sandy Mwetu, PVCC Ms. Felicity Bebe, PVCC
11:00-11:15	Bouffa Landfill Development Plan and Operation Manual	Mr. Junji Anai, J-PRISM II
11:15-11:30	Current situation of SWM in Shefa Province	Mr. Solomon Jimmy, Shefa Province
11:30-11:45	LMC and Sanma SWM Plan (2021- 2025) and current status of SWM in Luganville	Ms. Gina Tari, LMC Mr. Ray Vilvil, LMC Mr. Leonard Lolo, LMC
11:45-12:00	Summary of J-PRISM II activities, revised PDM/PO and counterpart list in Vanuatu	Ms. Rikae Kodani, J-PRISM II
12:00-12:20	Q&A Section and Approval of Revised PDM/PO and Confirmation of Minutes of Meeting	Project Director: Ms. Donna Kalfatak, Director, DEPC
12:20-11:28	Closing Remarks	Project Manager: Mr. Peter Sakita, Town Clerk, PVCC
12:28-12:30	Closing Prayer	Mr. Solomon Jimmy, Shefa Province
12:30-13:30	Group Photo & Lunch	-

5.1.2 5th JCC

- Data: Friday, August 19th, 2022
- Venue: Conference Room at the Melanesian Hotel
- Chairperson: Ms. Ionie Bolenga, Acting Director, DEPC
- Agenda:

Time	Agenda Items	Presenter/Responsible Person
9:30-10:00	Registration of Guests and Participants	Registration by All participants
10:00-10:02	Opening Prayer	Mr. Sandy Mwetu, PVCC
10:02-10:10	Welcome Toktok	Ms. Ionie Bolenga, Acting Director, DEPC
10:10-10:20	Keynote Remarks of JICA Vanuatu Office	Ms. Rika Uemura, Resident Representative of JICA in Vanuatu
10:20-10:25	Introduction of participants	Project Director
10:25-10:30	Confirmation of Minutes of Meeting of the previous JCC	Ms. Rikae Kodani, J-PRISM II
10:30-10:45	Achievements of Output 1 & Output 3	Ms. Ionie Bolenga, DEPC Ms. Annabelle Alilee, DEPC
10:45-11:00	Achievements of Output 2	Mr. Jason Andrews, PVCC Mr. Sandy Mwetu, PVCC Ms. Felicity Bebe, PVCC
11:00-11:15	Lessons leant of CDS introduction in Vanuatu	Mr. Alice Leney, J-PRISM II
11:15-11:30	Discussion and Way Forward	Ms. Ionie Bolenga, Acting Director, DEPC
11:30-11:45	Confirmation of Minutes of Meeting	Mr. Junji Anai, J-PRISM II
11:45-11:55	Closing Remarks	Project Manager: Mr. Peter Sakita, Town Clerk, PVCC
11:55-12:00	Closing Prayer	Mr. Solomon Jimmy, Shefa Province
12:00-13:00	Group Photo & Lunch	-

5.2 Minutes of Meeting of JCC (including participants list)

5.2.1 4th JCC

MINUTES OF MEETING ON THE FOURTH JOINT COORDINATING COMMITTEE OF THE JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTIRES PHASE II (J-PRISM II)

IN

THE REPUBLIC OF VANUATU

Ms. Donna Kalfatak Project Director Director of Department of Environmental Protection and Conservation, Ministry of Environment, Republic of Vanuatu

Mr. ANAI Junji Sub Team Leader, JICA Expert G2 Team, J-PRISM II

Witnessed by:

Rika Uemina

Ms. UEMURA Rika Resident Representative Japan International Cooperation Agency Vanuatu Office Port Vila, 30th November, 2021

Mr. Peter Sakita Project Manager Town Clerk, Port Vila City Council, Republic of Vanuatu

Fourth Joint Coordinating Committee of the Project

30 November 2021 - the Melanesian Hotel Conference Room, Port Vila, Vanuatu

- 1. Meeting started at 10:00 am
- 2. Attendance list of the meeting is given in Appendix 1
- 3. Opening of the meeting

Opening remarks were given by Ms. Donna Kalfatak, Director of the Department of Environmental Protection and Conservation (DEPC). Subsequently, Ms. Uemura Rika, Resident Representative of JICA Vanuatu Office, gave keynote remarks on behalf of the Japanese side. Ms. Donna Kalfatak as the chair declared the meeting open. At the beginning, the chairperson provided a brief on the minutes of the 3rd JCC meeting and all the participants confirmed it.

4. Agreement and Confirmation

The chairperson proceeded the meeting in accordance with the program in **Appendix** 2. All the attendants confirmed and agreed with the following matters:

(1) Progress of the Project

JCC confirmed that several activities were carried out by the Counterparts and JICA Expert Team (JET) after the 3rd JCC on 24th February 2020 up to the present for a year and a half (hereinafter referred to as "this period") based on the presentation by DEPC, Port Vila City Council (PVCC), Luganville Municipal Council (LMC), Shefa province and JET.

On the other hand, JCC also acknowledged that there were some areas that had not progressed as per the Plan of Operation (PO), as inputs by JET had to be limited to the activities that could be supported remotely during this period due to the border closure caused by the global spread of the coronavirus diseases 2019 (COVID-19). In particular, the strategic support for OUTPUT 1 and OUTPUT 3 by JET were carried out remotely with support of local resources even though the progress had to be slowed down. However, it was inevitable that JET struggled to provide remote support for the capacity development for improving the Solid Waste Management (SWM) in practice for OUTPUT 2. JCC recognized that during this period, in the municipalities

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directly responsible for waste management, the implementation of the waste management plan had not been carried out as planned due to insufficient measures in terms of financial and human resources, as the absence of JET had resulted in a lack of communication between the people in charge of the worksites and the top management of the municipalities.

i) OUTPUT 1

JCC confirmed the final monitoring and evaluation report on the National Waste Management and Pollution Control Strategy (NWMPCS) 2016-2020, and acknowledged that all activities planned for the OUTPUT 1 were completed.

It should be noted that OUTPUT 1 was initially planned to be done by early 2021 but due to the absence of JET, information disclosure process of the final report had not been realized up to the present.

In addition, DEPC requested that JET would continue to support the establishment of the NWMPCS coordinating committee for formulating the next NWMPCS, even though it was confirmed in the 3rd JCC meeting that the DEPC would take full responsibility for renewal of the strategy. In consideration of the urgency of this matter, JET agreed to continue supporting DEPC within the remaining assignments of experts. JCC recommended that the next NWMPCS should take over the remaining targets that had not achieved during the current target period and also cover the emerging topics identified in the final evaluation report presented by DEPC. JCC also discussed the membership of the NWMPCS coordinating committee that should be updated based on the proposal in 2016 in consideration for adding new members such as Efate waste management association, Customs, Public Health department, Biosecurity Vanuatu, Vanuatu Recycling and Waste Management Association (VRWMA).

ii) OUTPUT 2

PVCC appreciated the waste collection vehicle and heavy equipment that had been procured in December 2020 and to be procured in March 2022 by the Government of Japan, along with the current intensive support of technical assistance for the on-site road construction at the Bouffa landfill site. JCC recognized some remarkable progress in PVCC such as an establishment of the new division dedicating for waste management, endorsement of waste management by-laws and the SWM plan 2021-2030, practice of promotion for environmental education in school, and

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strengthening the city-city cooperation between PVCC and LMC initiated by the Department of Urban Affairs and Planning (DUAP) that had been newly established in April 2021.

At the same time, JCC was aware of the lack of maintenance capacity of PVCC for collection vehicles and heavy landfill equipment. JCC also recognized the current status of the Bouffa landfill site that waste was dumped everywhere in the site due to the inadequacy of on-site road at Bouffa, and that the landfill area was in an open dump state without being covered with soil.

In these circumstances, JCC recommended improving the maintenance capacity of equipment and strengthening the landfill operation capacity of the Bouffa landfill site as priority areas for next year to improve waste management.

JET also pointed out that the root causes of inappropriate equipment maintenance and landfill operation were the insufficient budget allocation and frequent replacement of staff leading to the outflow of the knowledge and experience that should be accumulated as an organizational capacity of PVCC. JCC deeply understood the importance of this matter and recommended strongly that PVCC should ensure the budget disbursement along with maintaining and positioning staff in accordance with the waste management plan.

iii) OUTPUT 3

JCC confirmed that the detailed design for introducing the Container Deposit Scheme (CDS) was in progress through the CDS technical working group whose regular meetings had been done five times during this period connected virtually among Vanuatu, Australia, New Zealand and Japan. DEPC showed its gratitude for continuous inland support of JICA Vanuatu Office during this period. JCC understood that the drafting instructions for CDS would be ready by the end of 2021 and recommended it should be submitted to the State Law Office without delay for smooth implementation.

(2) Modification of PDM

Originally, the NWMPCS coordinating committee was supposed to be established by 2020 initiated by DEPC in the process of implementation of the NWMPCS 2016-2020. However, it has not been established yet in such a way. During the Project, two working groups were established for realizing the NWMPCS; one is the working

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group for solid waste management composed of the national and local governments, and another is the CDS technical working group composed of the governmental organizations, private sectors and NGOs. As such, DEPC through J-PRISM II encouraged stakeholder participation and communication on SWM in Vanuatu.

Against the background, DEPC and JET proposed a slight change of the terms describing the means of verification for the project purpose and JCC approved the amendment of the Project Design Matrix (PDM) as the PDM version 3.1 shown as **ANNEX I**.

(3) Confirmation of the Project Period and Modification of PO

JCC acknowledged that the duration of the Project was extended until 30th September 2022 because of the global spread of COVID-19 based on the Record of Discussion (R/D) signed on 24th February 2021, and recognized the necessity of the modification of PO reflected to the extension of the Project.

In addition, JICA decided to donate the excavator for landfill operation to PVCC that would be procured in March 2022 and dispatched the heavy equipment procurement expert in November 2021 as additional inputs from the Japanese side.

For these reasons, JET proposed the modification of PO and JCC approved the PO version 3.1 as shown in ANNEX II.

(4) Updates of the List of Counterparts

PVCC had established the waste management and environmental health division in January 2020 and enhanced human resources gradually, including the requirement of the new manager of the division in December 2020 followed by the recruitment of other new staff in the division. Besides, there were regular personal shifts in DEPC, PVCC, LMC and Shefa province that should be reflected in the list of counterparts.

JCC understood that there was no change on the organization chart and approved the updated counterpart list proposed by JET shown as ANNEX III and ANNEX IV respectively.

(5) Remaining Activities of J-PRISM II in Vanuatu

i) OUTPUT 1

As above-mentioned, DEPC recognized the necessity of renewal of the NWMPCS 2016-2020 and made a commitment to establishing the NWMPCS coordinating

committee by the end of December 2021 for formulating the next strategy, while DEPC adopted the NWMPCS 2016-2020 and its final evaluation and monitoring report as an interim strategy.

JCC also agreed to follow up on the approval process of the national waste minimization plan and dissemination of "Lessons Guide for Vanuatu Primary School's Waste Management" for promotion of the Clean School Program (CSP) nationwide in collaboration with the Ministry of Education and Training.

ii) OUTPUT 2

JCC confirmed the key priority areas and activities in 2022 among nine priority areas identified in the PVCC SWM plan 2021-2030. PVCC and JET agreed to make a commitment from both sides for implementation of those activities as follows:

[The priority activities that PVCC and JET will implement together in 2022]

- i. Training on data management and analysis for improvement of SWM;
- ii. Rehabilitation and improvement of the main access road at the Bouffa landfill site;
- iii. Technical assistance for construction of Cell-2 at the Bouffa landfill site;
- iv. Yellow Bag review committee for renewal of procurement contract in 2022.

[The priority activities that PVCC will implement by themselves in 2022]

- i. Feasibility study for weighbridge installation
- ii. Promotion of Clean School Program
- iii. Divisional capacity development training for drivers, workers and mechanics
- iv. Management of maintenance of machineries and equipment
- v. Improvement of financial management through independent account for SWM

iii) OUTPUT 3

As above-mentioned, JCC recommended that DEPC should proceed with the necessary consulting process without delay and submit the drafting instructions on CDS to SLO by the end of 2021. DEPC requested the continuous support from JET after submission of the drafting instructions and JET agreed to support where necessary based on the queries from SLO and relevant authorities until the end of the Project.

DEPC also requested that JET would support planning the preparation for launching

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CDS. JET recognized the DEPC's needs and agreed to seek the possibility to expand the scope of detailed design, including the dispatch of the CDS expert to Vanuatu within the remaining assignment of expert, though it would depend on the situation of border closure of Vanuatu.

5. Others

- DEPC requested that JET would support formulating the next NWMPCS.
- DEPC recognized the necessity to seek the fund for seed money to launch the CDS and facilitate the donor coordination to support the operation of CDS.
- JCC recommended that LMC should endorse the Waste Management Plan 2021-2024 forthwith.
- Shefa province requested that JET would provide technical assistance on drafting a waste management plan for Shefa province.
- Shefa province also sought technical assistance from JET to draft waste management by-law on Green Islands declared physical boundary.
- JCC acknowledged that the city-city cooperation scheme initiated by DUAP was effective and recommended that involvement of DUAP in the Project should be encouraged.
- 6. Conclusion

JCC made the conclusions as follows;

- JCC confirmed the progress of the Project after the 3rd JCC on 24th February 2020 up to the present.
- JCC approved the PDM and PO version 3.1.
- JCC approved the updated List of Counterparts.
- JCC confirmed and made a suggestion about the implementation policy for each output.
- 7. Closing of the meeting

The chairperson closed the meeting at 13:30 p.m.

Appendix 1:List of AttendantsAppendix 2:Agenda of 4th JCC

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ANNEX I:Revised version of the Project Design MatrixANNEX II:Revised version of the Plan of OperationANNEX III:Project Organization ChartANNEX IV:Revised version of the Counterpart List

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Appendix 1: List of Attendants

(1) On-site

SN	Position	Organization	Name
1	Director	DEPC	Ms. Donna Kalfatak
2	Principal Waste Management and Pollution Control Officer	DEPC	Ms. Ionie Bolenga
3	Senior Officer Chemical and Ozone	DEPC	Ms. Roselyn Bue
4	Pollution Control Officer	DEPC	Ms. Annabelle Alilee
5	Waste Management Manager, Waste Management and Environmental Health Division	PVCC	Mr. Jason Andrews
6	Principle Waste Management Officer, Waste Management and Environmental Health Division	PVCC	Mr. Mwetu Serge Sandy
7	Waste Management Officer, Waste Management and Environmental Health Division	PVCC	Ms. Felicity Bebe
8	Environmental Waste Management Officer, Waste Management Unit, Physical Planning Division	Shefa Province	Mr. Solomon Jimmy
9	Resident Representative of JICA Vanuatu Office	JICA Vanuatu Office	Ms. Uemura Rika
10	Assistant Representative (Project Formulation)	JICA Vanuatu Office	Mr. Motegi Akihito
11	Program Officer	JICA Vanuatu Office	Ms. Loughman Orsiany
12	Deputy Team Leader/ Solid Waste Management Expert	J-PRISM II Project Team	Mr. Anai Junji
13	Solid Waste Management Expert	J-PRISM II Project Team	Ms. Kodani Rikae
14	National Coordinator	J-PRISM II Project Team	Ms. Mary O'Reilly

DEPC: Department of Environmental Protection and Conservation PVCC: Port Vila City Council

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(2) Online

SN	Position	Organization	Name	
1	Director	JICA Headquarters	Mr. Matsuoka Hideaki	
2	Environmental Management Group Global Environment Department	JICA Headquarters	Mr. Miura Sho	
3	Environmental Management Group Global Environment Department	JICA Headquarters	Ms. Yamada Noriko	
4	Chief Advisor	lvisor J-PRISM II Project Office in Samoa		
5	Assistant Chief Advisor	J-PRISM II Project Office in Samoa	Mr. Faafetai Sagapolutele	
6	Aid Coordination / Project Coordinator	ation/Project Coordinator J-PRISM II Project Office in Samoa		
7	Solid Waste Management Training/Monitoring	J-PRISM II Project Office in Samoa	Ms. Nomura Mayu	
8	Monitoring/3R+Return	J-PRISM II Project Office in Samoa	Ms. Onuma Yoko	
9	Project Assistant	J-PRISM II Project Office in Samoa	Ms. Evangeline Potifara	
10	CDS Expert	J-PRISM II Project Team	Mr. Alice Leney	
11	Project Manager	SCE	METAYER Matthieu	
12		SCE	ANEX Camille	
13		SCE	Marc-Antoine Morel	
14		SCE	Paul Mooney	
15	Acting Director	SPREP (WMPC)	Mr. Anthony Talouli	
16		IUCN	KATIREWA Paula	

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Attendance List of the 4th JCC meeting in Vanuatu

Date: Tuesday, 30th November 2021 Venue: Conference Room. The Melanesian Hotel Port Vila

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Ne.	Organization	Publics	Name	Signature
1	PVCC	Manager - whose naigheat	Jaroh Andrews	0
2	Price		Hundy Sauch	States
3	PVCC	Principle werte officer Waste management afficer	Hugh Such	Callo.
4	DEPC	Senior officer	Roselyn Bue	Alone
5	DEP	Aller Cardial officer	Amabelle Alites	A.
6	DERC	Divezh	Donna Kalfelde	Hardy
7	JICA	Resident Representat	RIKA VEMURA	Rithe hanna
8	JICA	Assistant Representative	Akihito MOTEY	pmy
9	JICA	Program officer	Orsizing Loughman	Git
10	Shefa Council	Waste Management of	ior Solowon Jimmy	
n	DEPC	Procept Officer: WMPC Sub-Leader, J-PRISMI G2	Ionic Bolenga	Colenga.
12	JICA	Sub-Leader, J-PRISMI G2	Junji ANAI	Ali
13	JICA	National Coordination JICA Consultant/SWM E	Mary orkedly	NECREPELLY
14	JICA/J-PRISM I	JICA Consultant/SWM E	xpert Ritae Koda	in Britadin
15				
16				
17				
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Project Title: Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (J-PRISM II)	Project Design Matrix: PDM al Initiative on Solid Waste Management in Pacific Island Countries	s Phase II (J-PRISM II)	Annex I
implementing Agency: Department of Environmental Protection and Conservation (DEPC), Port Vila City Council (PVCC), Luganville Municipal Council, Shefa Province Target Group: DEPC, PVCC, Working Group (WG) i)	ervation (DEPC), Port Vila City Council (PVCC), Luganville Mun	icipal Council, Sheta Province	Version 3.1
Period of Project, 2017-2022 (5 years) Protect Siles Vanuatu			Dated 30th Novemebr 2021
Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Overall Goal Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016- 2025 (Cleaner Pacific 2025)			
Project Purpose (Region-wise) Human and institutional capacity base for sustainable Solid Waste Management (SVMM) in the Pacific region is strengthened through imblementation of Cleaner Pacific 2025.			 Natural disaster would not drastically affect the collaboration among participating countries. Political changes would not drastically affect
(Country) A foundation of implementing and monitoring SWM activities in line with the Vanuatu National Waste Management and Pollution Control Strategy (NWMPCS) is built.	(Country) 1. Based on the monitoring results of NWMPCS 2016-2020, the gaps and issues of the Implementation Plan are evaluated and reflected to the next term of NWMPCS.	(Country) 1. Summary of the monitoring reports shared with stakeholders identified in the NVMPCS. II)	the collaboration of participating countries.
Outputs 1. Institutional capacity of DEPC to implement NWMPCS is enhanced with the cooperation of the Working Group.	 1-1. Detailed action plan of the priority activity(les) in the Inplementation Plan of NWMPCS is processed through the relevant governmental agencies for implementation from 2019. NWMPCS 1-2. The annual monitoring report of NWMPCS is made open to the public (through DEPC webpage, published reports, etc.) NWMPCS 1-3. With the support of WG as the priority activity, national SWM 1-3. With the support of WG as the priority activity, national SWM 1-4. With the support of WG as the priority activity, national waste 1-4. With the support of WG as one of the priority activity, national waste 1-5. Draft let minimization plan is developed. 	 1-1. Detailed action plan of the priority action (les) in the implementation Plan of NUMPCS 1-2. Annual monitoring report(s) of NUMPCS 1-3. Annual monitoring report(s) of 1-4. Annual waste management planning (log) 1-4. National waste minimization plan (2021-2025) 1-5. Draft lessons Guide of environmental education 	 Counterpart personnel keep working in the field of SWM. Counterpart personnel do not leave the post without handing over the skills' knowledge to the new staff.
 SWM activities of PVCC are properly implemented and monitored in line with 2-1. Results of SVM pilot project(s) in line with a draft SVM plan are evaluated in a stakeholder's workshop. SWM Plan. SWM Plan. Landfill management in Bouffa disposal site is improved following the landfill operation manual. Monitoring results of SVM activities are reflected to the annual SVM plan iii) (2022). 		 2-1. Minutes of meeting of a statkeholders workshop/ Pliot project(s) report 2-S. SWM Plan of PVCC (2021-2030) 2-3. Landfill operation manual 2-4. Annual SWM plan of PVCC(2022) 	
 Economic incentive scheme is initiated for promotion of 3R + Return in Vanuatu. 	3-1. Documents necessary to process the container deposit legislation are prepared.	3-1. Draft instruction of the container deposit legislation	
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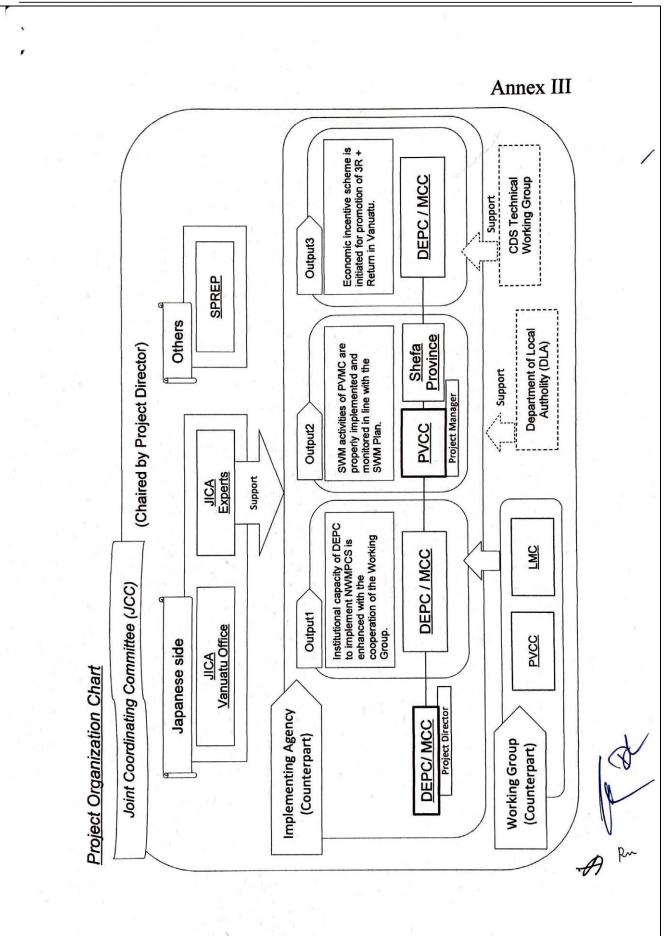
Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries

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Project for Promotion of Regional Initiative on Japan International Cooperation Agency (JICA) Solid Waste Management in Pacific Island Countries Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd. Phase II (Group 2) Project Completion Report (3rd Term)

puts	motion of Regional Initiative on Bolid Wante Memoryment in Pacific Island Constrine Planedi (J4PRIMI II) Plan 2017 2018 2019 2020 2021 2022	1
part		
Team leader / Solid Waste management D1		
Sub-Team leader / Solid Wasta management D2	Pien Actual Control Co	
Capacity Development E1		
Capacity Development E2 Waste Management F1		
Waste Management F2	Actual 1 <td></td>	
Waste Management F3	Plan	
Heavy Equipment Procurement		
Heavy Equipment (Excavator)		
	Pan	
	Actual Plan Plan Plan Plan Plan Plan Plan Pl	
aining in Japan		
country/Third country Training		
Sub-Activities	Plan 2017 2018 2019 2020 2021 2022 Perspensible Organization Actual 1 1 11 <td></td>	
riput 1: Implementation process to enforce NWNPCB is organ	ed under the initiative of DEPC and the Working Group.	
1-1 Formulate a WG and conduct WG meetings to study and revi the Implementation Plan of NWMPCS, including the current SWM activities of other agencies	Y Pien III III III III IIII IIII IIII IIII	
1-2 Update the present conditions of municipal SWM in Port Vila and Lugarville to understand the baseline of NWMPCS 2018-202		
with WG		
1-3 Compile lessons learnt of SWM in Port Vila and Lugarville for formulating practical implementation plan of NWMPCS		
1-4 Study and renew the framework of annual SWM plan in PVC as a pilot activity of implementation of NWMPCS by utilizing exists data and resources of PVCC		
area and resources of PVCC 1-5 Decide the priority activity(ies) that will be implemented with V in line with the Implementation Plan		
1-8 Develop a detailed action plan of priority activity(ies) in the	Actual Plan Plan Plan Plan Plan Plan Plan Pl	
implementation Plan of NWMPCS, based on the discussion of W		
1-7 Implement the priority activity (ies) based on the action plan w WG		
1-8 Monitor and prepare an ennual monitoring report of NWMPC3 including overall evaluation in the final year 2020 for reflection in the		
next term of NWMPCS stput 2: SWM activities of PVCC are properly implemented an		
2-1 Review the existing data and conduct supplementary survey of the current SWM situation		
2-2 Develop a framework of SWM plan (2021 - 2030) by utilizing results of activity in 1-4		
2-3 Organize stakeholders' workshop(s) to discuss the framework SWM plan, including institutional, technical and financial	7 Pan Actual I I I I I I I I I I I I I I I I I I I	
arrangement 2-4 Formulate a draft SWM plan including recommendations for necessary arrangements considering the discussion of the		
stakeholders' workshops 2-5 implement SWM pilot project(s) to test the suitability of		
institutional, technical and financial systems recommended in the framework of the SWM plan		
2-8 Finalize the SWM plan		
2-7 Develop a landfill operation manual based on the SWM plan		
2-8 Implement the priority activity (les) determined in the SWM pla		
2-9 Monitor the activities of SWM based on the SWM plan		
tput 3: Economic incentive scheme is initiated for promotion	3R + Return in Vanuatu.	
3-1 Set up a working group to develop the detailed design of the Container Deposit Scheme (CDS) under overall direction of DEPO	Actual	
3-2 Conduct a series of stakeholders' consultation through WG		
3-3 Review the legislation necessary to implement the CDS		
3-4 Conduct a full feasibility study to determine the details of the CDS	Actual	
3-5. Develop a draft instruction of the container deposit legislation with a consultation of related authorities		
3-8. Comple lessons learnt of CDS in Vanuatu for regional		
cooperation		
uration / Phasing	Actual	
ionitoring Plan		. (
enitoring Joint Coordinating Committee		N
Set-up the Detailed Plan of Operation		IA.
Submission of Monitoring Sheet Monitoring Mission from Japan		
Joint Monitoring		IM
Post Monitoring eports/Documents		V
Project Completion Report		1
ublic Relations		A
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Project for Promotion of Regional Initiative on Japan International Cooperation Agency (JICA) Solid Waste Management in Pacific Island Countries Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd. Phase II (Group 2) Project Completion Report (3rd Term)



Annex IV LIST OF COUNTERPART PERSONNEL OF VANUATU (As of 30 November 2021) **Related** Output **Project Position** Position Organization Name 1 Project Director Ø Director DEPC Ms. Donna Kalfatak 2 Project Manager Town Clerk PVCC Ø Mr. Peter Sakita Principal Waste Management and Pollution 3 Counterpart DEPC Ms. Ionie Bolenga Ø Ø Control Officer 4 Counterpart N Senior Officer Chemical and Ozone DEPC Ms. Roselyn Bue Ø 5 Counterpart Pollution Control Officer DEPC Ms. Annabelle Alilee Ø Senior Officer - Provincial Environment 6 Counterpart DEPC Mr. Rontexstar Mogeror Ø Coordinator 7 Counterpart PVCC Ø Manager, Town Planning Division Mr. Mandes Tangaras Waste Management Manager, Waste Management 8 Counterpart PVCC Mr. Jason Andrews and Environmental Health Division Principle Waste Management Officer, Waste 9 Counterpart Ø PVCC Mr. Mwetu Serge Sandy Management and Environmental Health Division Waste Management Officer, Waste Management Counterpart 10 Ms. Felicity Bebe PVCC and Environmental Health Division Administration Officer, Waste Management and 11 Counterpart PVCC Ms. Rollina Kalonikara Environmental Health Division Environment and Health Officer, Waste 12 Counterpart Ms. Rebecca Vuta Ø Ø Management and Environmental Health Division Chief Mechanic, Waste Management and Environmental Health Division Heavy Equipment Operator, Landfill Unit, Waste PVCC 13 Counterpart PVCC Mr. George Taun 2 Ø 14 Counterpart PVCC Mr. Arnold Sarginson Management and Environmental Health Division Driver, Landfill Unit, Waste Management and PVCC Mr. Mark Calo Ø 15 Counterpart Environmental Health Division Landfill Gate Keeper, Landfill Unit, Waste PVCC Ms. Annie Tama 16 Counterpart Management and Environmental Health Division Driver, CBD Unit, Waste Management and Ø 17 Counterpart PVCC Mr. Essou Samson Environmental Health Division LMC Mr. Jonathan lavere Ø Town Clerk 18 Counterpart LMC Ms. Gina Tari 19 Counterpart Executive Secretary LMC (to be nominated) 20 Counterpart Community Service Manager Environmental Officer LMC Mr. Ray Vilvil 21 Counterpart Mr. Leonard Lolo Ø LMC Counterpart Waste Management Officer 22 Shefa Province Mr. Morris Kaloran Ø Secretary General 23 Counterpart Mr. Willie Shran Kalo Ø Shefa Province 24 Counterpart Compliance Office Environmental Waste Management Officer, Waste Shefa Province Mr. Solomon Jimmy Ø 25 Counterpart Management Unit, Physical Planning Division Filing Clerk, Property Tax Unit, Physical Planning Shefa Province Mr. Tetuwi Jeannat Ø 26 Counterpart Division Property Tax Officer, Property Tax Unit, Physical Mr. Owen Joel Sisi Shefa Province 27 Counterpart Planning Division Counterpart personnel will be added as the need arises for the smooth and effective implementation of the Project. Note: DEPC: Department of Environmental Protection and Conservation, Ministry of Climate Chang PVCC: Port Vila City Council LMC: Luganville Municipal Council A Pr

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5.2.2 5th JCC

MINUTES OF MEETING ON THE FINAL JOINT COORDINATING COMMITTEE OF THE JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTIRES PHASE II (J-PRISM II) IN THE REPUBLIC OF VANUATU

Ms. Donna Kalfatak Project Director Director of Department of Environmental Protection and Conservation, Ministry of Environment, Republic of Vanuatu

Mr. ANAI Junji Sub Team Leader, JICA Expert G2 Team, J-PRISM II

Witnessed by:

The hanne

Ms. UEMURA Rika Resident Representative Japan International Cooperation Agency Vanuatu Office

Vila, 19th August 2022 Por

Mr. Peter Sakita Project Manager Town Clerk, Port Vila City Council, Republic of Vanuatu

Final Joint Coordinating Committee (JCC) of the Project

19th August 2022 - the Melanesian Hotel Conference Room, Port Vila, Vanuatu

- 1. Meeting started at 10:00 am
- 2. Attendance list of the meeting is given in Appendix 1
- 3. Opening of the meeting

Opening remarks were given by Ms. Ionie Bolenga, Acting Director of the Department of Environmental Protection and Conservation (DEPC). Subsequently, Ms. Uemura Rika, Resident Representative of JICA Vanuatu Office, gave keynote remarks on behalf of the Japanese side. Since Ms. Donna Kalfatak was absent due to her health condition, Ms. Ionie Bolenga, as the chair on behalf of the Director, declared the meeting open.

At the beginning, the JICA Expert Team provided a brief on the minutes of the 4th JCC meeting and all the participants confirmed it.

4. Agreement and Confirmation

The chairperson proceeded the meeting in accordance with the program in **Appendix** 2. All the attendees confirmed and agreed with the following matters:

(1) Achievements of the Project

Representatives from DEPC and Port Vila City Council (PVCC) gave a presentation on the final evaluation of the achievements of the Project and JCC confirmed that the all outputs and indicators set in the PDM were achieved. Lessons learned extracted in the process of introduction of the Container Deposit Scheme (CDS) was also shared and confirmed among the attendees.

(2) Discussion and Way Forward

JCC concluded that in general, the waste management in Vanuatu, especially in Port Vila City, is on its way to sound operation. JCC acknowledged the support of J-PRISM II for a long time and showed the expectation for the continued support.

The following are some of the remaining/upcoming issues needed to be solved as well as recommendations for the better waste management in the future:

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1) Capacity development of municipal Solid Waste Management (SWM) through inter-municipality cooperation

DEPC is expected to proactively promote SWM capacity development in municipalities, in collaboration with the Department of Local Authorities (DLA) of the Ministry of Internal Affairs, and relevant ministries and agencies.

2) Implementation of a Container Deposit Scheme (CDS)

The practice of 3R+Return by means of a CDS will contribute greatly to solving SWM problems unique to island countries. The Government of Vanuatu is expected to launch CDS without any further delay.

A CDS based on participative management by multiple enterprises is an advanced initiative in the Pacific region, and is expected to become a model for south-to-south cooperation. In addition, it is also expected that the scope of the system will be expanded in the future to include electrical appliances, waste batteries, and automobiles. When the CDS is introduced, Technical assistance may be needed to ensure a smooth operation.

3) Strengthening PVCC's waste management capacity

PVCC is expected to strengthen its solid waste management capacity in implementing the "SWM Plan 2021-2030" by paying attention to the following points.

• <u>Improvement of financial management through independent account for SWM</u> Financial management improvement is one of the priority activities in 2022 that is decided in the previous JCC meeting. PVCC should reinforce the financial management system so that the income generated from the yellow bags selling and gate fee will be used properly for SWM.

• <u>Urgent improvements to the next landfill section at Bouffa disposal site</u> As the existing cell (landfill area) of the Bouffa disposal site is already full, the construction of a new access road and the expansion of the next cell is urgently needed.

· Appropriate maintenance of waste disposal equipment.

Waste management (collection, transport and landfill) is not possible without equipment. In order to continue with proper waste management, PVCC is

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required to ensure that equipment is well maintained to keep it in good condition at all times.

5. Conclusion

The JCC made the following conclusions:

- The three expected outputs of J-PRISM II have been completed, and the project purpose of "A foundation of implementing and monitoring SWM activities in line with the National Waste Management and Pollution Control Strategy" has been mostly achieved.
- Phase 3 of J-PRISM is scheduled to be implemented from next year, and we must sustainably develop the results of Phase 2 and link to Phase 3.
- 6. Closing of the meeting

The chairperson closed the meeting at 13:00 p.m.

Appendix 1:List of AttendantsAppendix 2:Agenda of 5th JCC

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Appendix 1: List of Attendants

(1) On-site

SN	Position	Organization	Name	
1	Town Clerk	PVCC	Mr. Peter Sakita	
2	Acting Director / Principal Waste Management and Pollution Control Officer	DEPC	Ms. Ionie Bolenga	
3	Pollution Control Officer	DEPC	Ms. Annabelle Alilee	
4	Senior Officer - Provincial Environment Coordinator	DEPC	Mr. Rontexstar Mogeror	
5	Waste Management Manager, Waste Management and Environmental Health Division	PVCC	Mr. Jason Andrews	
6	Principle Waste Management Officer, Waste Management and Environmental Health Division	PVCC	Mr. Mwetu Serge Sandy	
7	Waste Management Officer, Waste Management and Environmental Health Division	PVCC	Ms. Felicity Bebe	
8	Environmental Waste Management Officer, Waste Management Unit, Physical Planning Division	Shefa Province	Mr. Solomon Jimmy	
9	Physical Planner	Torba Province	Mr. Jamesly Tavuti	
10	Resident Representative of JICA Vanuatu Office	JICA Vanuatu Office	Ms. Uemura Rika	
11	Assistant Representative (Project Formulation)	JICA Vanuatu Office	Mr. Motegi Akihito	
12	Program Officer	JICA Vanuatu Office	Ms. Obed Tarish	
13	Program Officer	JICA Vanuatu Office	Ms. Patricia Abock	
14	Deputy Team Leader/ Solid Waste Management Expert	J-PRISM II Project Team	Mr. Anai Junji	
15	Heavy Equipment Maintenance Expert	J-PRISM II Project Team	Mr. Yatsu Tetsuo	
16	CDS Expert	J-PRISM II Project Team	Mr. Alice Leney	
10	CDS Experi	J-PRISM II Project Team	MI. Ance Leney	

DEPC: Department of Environmental Protection and Conservation PVCC: Port Vila City Council

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(2) Online

SN	Position	Organization	Name Mr. Mimura Satoru	
1	Chief Advisor	J-PRISM II Project Office in Samoa		
2	Assistant Chief Advisor	J-PRISM II Project Office in Samoa	Mr. Faafetai Sagapolutele	
3	Monitoring/ 3R + Return	J-PRISM II Project Office in Samoa	Ms. Yoko Onuma	
4	Aid Coordination / Project Coordinator	J-PRISM II Project Office in Samoa	Ms. Yoshida Ayako	
5	Project Assistant	J-PRISM II Project Office in Samoa	Ms. Evangeline Potifara	
6	Solid Waste Management Expert	J-PRISM II Project Team	Ms. Kodani Rikae	
7	National Coordinator	J-PRISM II Project Team	Ms. Mary O'Reilly	

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Appendix 2: Agenda of the Final JCC meeting







Final Joint Coordinating Committee Meeting for J-PRISM II Port Vila, Vanuatu

Date: Friday, 19 August 2022

Venue: Conference Room, The Melanesian Hotel Port Vila & Online (Zoom)

Participants: J-PRISM II Counterparts and stakeholders

Chairperson: Ms. Ionie Bolenga, Acting Director, DEPC

Agenda:

Time	Agenda Items	Presenter/Responsible Person
9:30-10:00 am	Registration of Guests and Participants	Registration by All participants
10:00-10:02 am	Opening Prayer	Mr. Sandy Mwetu, PVCC
10:02-10:10 am	Welcome Toktok	Ms. Ionie Bolenga, Acting Director, DEPC
10:10-10:20 am	Keynote Remarks of JICA Vanuatu Office	Ms. Rika Uemura, Resident Representative of JICA in Vanuatu
10:20-10:25 am	Introduction of participants	Project Director
10:25-10:30 am	Confirmation of Minutes of Meeting of the previous JCC	Ms. Rikae Kodani, J-PRISM II
10:30-10:45 am	Achievements of Output 1 & Output 3	Ms. Ionie Bolenga, DEPC Ms. Annabelle Alilee, DEPC
10:45-11:00 am	Achievements of Output 2	Mr. Jason Andrews, PVCC Mr. Sandy Mwetu, PVCC Ms. Felicity Bebe, PVCC
11:00-11:15 am	Lessons leant of CDS introduction in Vanuatu	Mr. Alice Leney, J-PRISM II
11:15-11:30 am	Discussion and Way Forward	Ms. Ionie Bolenga, Acting Director, DEPC
11:30-11:45 am	Confirmation of Minutes of Meeting	Mr. Junji Anai, J-PRISM II
11:45-11:55 am	Closing Remarks	Project Manager: Mr. Peter Sakita, Town Clerk, PVCC
11:55-12:00 pm	Closing Prayer	Mr. Solomon Jimmy, Shefa Province
12:00-13:00 pm	Group Photo & Lunch	-



Annex D : Attachment for Kingdom of Tonga

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5	JCC8
	5.1 JCC Program 8 5.1.1 3 rd JCC 8 5.1.2 4 th JCC 9 5.2 Minutes of Meeting (including participants list)
	5.2.1 3 rd JCC

1 Lists of Project outputs and related documents

No	Title of outputs/documents	Creation date	Summary
1	WAL 5-years Business Plan	August, 2017	Mid-long term Business plan published in the Combine Utilities Business Plan 2018 – 2022
2	Vava'u waste management service action plan	July, 2017	The action plan for the commencement of Vava'u waste management service targeted on Jan 2018 then
3	Vava'u waste management service basic plan/ JCC presentation material	April 2017 – December 2018	Collection schedule and monitoring sheets prepared before the commencement of waste services in Vava'u
4	Ha'apai Action Plan for Waste Management Service	January, 2019	The working plan for starting waste management service in Ha'apai
5	'Eua Action Plan for Waste Management Service	February, 2020	A working plan for starting waste management service in 'Eua
6	3rd JCC Meeting materials	October, 2020	Materials regarding progress of the project, report on activities, and revision of PDM
7	4th JCC Meeting materials	September, 2022	Materials regarding progress of the project, report on activities, and revision of PDM

Table 1-1 Lists of Project outputs and related documents (Tonga)

2 Inputs and Work schedule

2.1 Inputs

2.1.1 Dispatch of Japanese experts

No.	Name Expert		Dispatch period		PM	РМ
NO.	Name	Expert	Start date End date		1 171	1 171
1	Shinnosuke ODA	Team Leader / SWM D1	2022/08/28	2022/08/31	0.13	0.13
2	Junji Anai	Sub Team Leader/ SWM D2	2022/8/23	2022/9/16	0.83	0.83
3	Mitsuko NAKAMURA	Capacity Development E	2022/8/7	2022/9/19	1.47	1.47
Tota	l			•		2.43

*Work in Japan is separately summarized.

2.1.2 Acceptance of trainees

There was no acceptance of trainees.

Work schedule 2.2

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ant	ctual										_						
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stainability for expanding waste management services to	lan																
the Tongan outer islands	stual			;		=				-			=		=		
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2-1 Review the draft Solid Waste Management Plan of Vava'u and supplementarily	lan											_					_
	orual						-			1							-
z-z Formutate an acuon plan or expanding the waste management services in Vava'u Vava'u	tual																
bare the monitoring sheet of service operation for Vava'u office	lan																
Actual	stual																
2.4 Conduct OJT such as waste collection service, landfill operation, public plan	lan																
awareneos agong, etc. for type to provide waste management service in yawa	stual																
2-5 WAL conducts stakeholders meeting in Vava'u.	lan																
	stual																
2-6 WAL implements the waste management service in Vava'u.	lan																
2-7 Review the result of implementation of waste management service in Vava'u.	lan				Ħ			Ħ		Ħ							
	ctual																
e	veloped.				Ē		Ē	Ē	F	F	Ē	ŀ		Ē	F	Ē	F
3-1 Facilitate inception workshops for action plan for the main islands of Ha'apai Plan and Eua.	lan ctual																-
uct baseline surveys to develop the action plan and business	lan																-
	stual																
3-3 Formulate the Action plan(s) for providing waste management service to the main isotrate of Halanci and Euro based on the availance in Vavou and the results	lan																
of stakeholder's workshops held in these islands.	stual																
Output 4: WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strengthened through providing waste management service in Ha'apai 'Eua.	ngan out	er islands i	s strei	ngthe	ned t	hrouç	gh pr	ovidir	g wa	iste n	ıanag	lemet	nt ser	rice in	ı Ha'a	ipaia	and
e the monitoring sheet of service operation for 'Ha'apai and	lan																
'Eua office Actual	stual																
4-2 Conduct OJT such as waste collection service, landfill operation, Plan	lan																
	stual																
4-3 WAL implements the waste management service in 'Ha'apai and 'Eua	lan																
	lan						-		-		-						
'Ha'apai and 'Eua	stual																

3 Work flow chart

3.1 Work flow chart based on PO2

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3.2 Work flow chart based on PO3

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### 4 Changes of PDM

PDM2 was revised and approved as PDM3 in the 3rd JCC which was held on October 22nd, 2020. There was no revision of PDM in the 4th JCC held on September 13th 2022.

### 4.1 **Project Purpose**

PDM2	PDM3
Project purpose	
A foundation of sustainable solid waste management is built in the outer islands of Tonga, with emphasis on practical implementation.	A foundation of sustainable solid waste management is built in the Tongan outer islands, with emphasis on practical implementation.
Objectively Verifiable Indicator	
<ol> <li>SWM action plan of Tongan outer islands is reflected in WAL's 5 year business plan.</li> <li>100% of households in the main island of Vava'u receive waste collection service provided by WAL by the end of the Project.</li> <li>The waste fee collection rate in Vava'u</li> </ol>	No changed
3. The waste fee collection rate in Vava'u exceeds 80% due to the improvement of public awareness.	

### 4.2 Outputs, Indicator and Activities

### 4.2.1 Output 1

PDM2	PDM3
Output 1	
WAL's 5 year business plan for expanding waste management services throughout Tonga is formulated.	No changed
Objectively Verifiable Indicator	
<ul> <li>1-1 WAL's 5 year business plan for providing waste management services in the Tongan outer islands is approved by WAL board meeting and submitted to Ministry of Public Enterprise</li> <li>1-2 Necessary human resources, technical support, infrastructure, capital are incorporated into the WAL's business plan.</li> <li>1-3 Mid-long term of WAL's Objectives and Strategies are specified in 5 years Business Plan</li> </ul>	No changed
Activities	
<ul> <li>1-1 Conduct the waste management baseline survey for mainly Tongatapu island.</li> <li>1-2 Conduct Waste Amount and Composition Surveys (WACS) to identify the generation amount and characteristics of solid waste throughout</li> </ul>	No changed
<ul> <li>Tonga (if necessary).</li> <li>1-3 Assess the current solid waste management implementing capacity (human resources, technical skills, business system, asset, capital, etc.) of WAL.</li> </ul>	

Japan International Cooperation Agency (JICA) Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd. Phase II (Group 2) Project Completion Report (3rd Term)

PDM2	PDM3
Activities	
1-4 Formulate WAL's 5 year business plans of expanding the waste management service area into the Tongan outer islands, in line with Waste Management Act 2005 and other official documents concerned national policy.	No changed
1-5 Study on financial sustainability for expanding waste management services to the Tongan outer islands.	

### Output 2 4.2.2

PDM2	PDM3
Output 2	
WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strengthened through providing waste management service in Vava'u.	No changed
Objectively Verifiable Indicator	
2-1 WAL collects solid waste in accordance with the collection schedule in Vava'u	No changed
2-2 WAL operates and maintains Kalaka landfill site according to O&M manual to be updated through OJT.	
2-3 WAL Vava'u office manages waste collection and landfill activities in accordance with the monitoring sheet of service operation for Vava'u office.	
Activities	
2-1 Review the draft Solid Waste Management Plan of Vava'u and supplementary conduct the baseline survey.	No changed
2-2 Formulate an action plan of expanding the waste management services in Vava'u.	
2-3 Prepare the monitoring sheet of service operation for Vava'u office.	
2-4 Conduct OJT such as waste collection service, landfill operation, public awareness raising, etc. for WAL to provide waste management service in Vava'u.	
2-5 WAL conducts stakeholders meeting in Vava'u.	
2-6 WAL implements the waste management service in Vava'u.	
2-7 Review the result of implementation of waste management service in Vava'u.	

### 4.2.3 Output 3

PDM2	PDM3
Output 3	
SWM action plans for the main islands of Ha'apai and Eua are developed.	No changed
Objectively Verifiable Indicator	
3-1 Actual situation of solid waste management in the main islands of Ha'apai and Eua is grasped.	No changed
3-2 WAL identifies the issues to be solved for providing solid waste management service in the main islands of Ha'apai and Eua.	
Activities	
3-1 Facilitate inception workshops for action plan for the main islands of Ha'apai and Eua	No changed
3-2 Conduct baseline surveys to develop the Action plan and Business implementation plan of the main islands of Ha'apai and Eua.	
3-3 Formulate the Action plan(s) for providing waste management service to the main islands of Ha'apai and Eua based on the experience in Vava'u and the results of stakeholder's workshops held in these islands.	

### 4.2.4 Output 4

PDM2	PDM3
Output 4	
	WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strengthened through providing waste management service in Ha'apai and Eua.
Objectively Verifiable Indicate	or .
	<ul> <li>4-1 WAL collects solid waste in accordance with the collection schedule in Ha'apai and Eua.</li> <li>4-2 WAL Ha'apai and Eua office manages waste collection and landfill activities in accordance with the monitoring sheet of service operation for Vava'u office.</li> </ul>
Activities	
	<ul> <li>4-1 Prepare the monitoring sheet of service operation for Ha'apai and Eua office.</li> <li>4-2 Conduct OJT such as waste collection service, landfill operation, public awareness raising, etc. for WAL to provide waste management service in Ha'apai and Eua.</li> <li>4-3 WAL implements the waste management service in Ha'apai and Eua.</li> <li>4-4 Review the result of implementation of waste management service in Ha'apai and Eua.</li> </ul>

### 5 JCC

### 5.1 JCC Program

### 5.1.1 3rd JCC

- Date: 22nd October 2020
- Venue: JICA Tonga Office
- Chairperson: Dr. Siale 'Akau'ola (CEO, MOH)
- Agenda

Time (Tonga)	Agenda	Facilitator/Resource Person
13:30 - 14:00	Registration	All participants
14:00 - 14:05	Opening prayer	
14:05 – 14:10	Opening remarks	Dr. Siale 'Akau'ola (CEO, MOH)
14:10 – 14:20	Keynote Remarks of JICA Tonga Office	Mr. Nobuaki MATSUI (Resident Representative, JICA)
14:20 – 14:40	Project Progress	Mr. Malakai Lomu Sika, (CEO, WAL)
14:40 – 14:50	Presentation on PDM and PO	Mr. Hitoshi Katayama (JPRISM II)
14:50– 15:00	Confirmation of forthcoming schedule	MEIDECC, MOE, WAL, JICA, and JPRISMII
15:00– 15:10	Closing remarks	Dr. Siale 'Akau'ola (CEO, MOH)

### 5.1.2 4th JCC

- Date: 13th, September, 2022
- Venue: Board Room, Waste Authority Limited
- Chairperson: Dr. Siale 'Akau'ola (CEO, MOH)
- Agenda

Time (Tonga)	Agenda	Facilitator/Resource Person
10:00 - 10:30	1. Registration	All participants
10:30 – 10:35	2. Opening prayer	
10:35 – 10:40	3. Opening remarks	Dr. Siale 'Akau'ola (CEO, MOH)
10:40 – 10:50	4. Keynote Remarks	Mr. Hiroaki TAKASHIMA
	of JICA Tonga Office	(Resident Representative, JICA)
10:50 – 11:20	5. Project Progress	Mr. Stalini, (WAL Manager, Special Projects)
	5-1.Output 1&3	Mr. Tevita (WAL Vava'u Branch Manager)
	5-2 Output 2	Mr. Maali (WAL Ha'apai Branch Manager)
	5-3 Output 4	Mr. Anitelu (WAL 'Eua Branch Managers)
11:20 – 11:30	6. Summary of PDM	Ms. Mitsuko NAKAMURA
		(JPRISM II)
11:30– 11:50	7. Discussions	MEIDECC, MOH, WAL, JICA, and JPRISMII
11:50– 12:00	8. Closing remarks	Mr. Paula Ma'u (CEO, MEIDECC)

### 5.2 Minutes of Meeting (including participants list)

### 5.2.1 3rd JCC

**MINUTES OF MEETINGS** ON THE THIRD JOINT COORDINATING COMMITTEE OF THE JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTRIES PHASE II (J-PRISM II) IN THE KINGDOM OF TONGA Nuku'alofa, Tonga, 22nd October, 2020 Mr. Shinnosuke Oda Mr.'Paula Ma'u Team Leader, Chief Executive Officer JICA Expert G2 Team, Ministry of Metrology, Energy, information, Technical Cooperation Project for Disaster Management, Environment, Promotion of Regional Initiative on Solid Climate Change and Commutations waste Management in Pacific Island The Kingdom of Tonga Countries Phase II (J-PRISM II) Dr. Siale 'Akau'ola Mr. Malakai Lomu Sika Chief Executive Officer Chief Executive Officer Ministry of Health Waste Authority Limited The Kingdom of Tonga The Kingdom of Tonga Witnessed by: Mr. maki Resident Representative TONGA Office Japan International Cooperation Agency

### Main Points Discussed

The chairperson, Dr. Siale 'Akau'ola, proceeded the meeting in accordance with the program in Appendix 2. All the attendances agreed and confirmed the following matters;

1. Progress of the project

JCC acknowledged that the activities carried out by Counterparts and JICA Expert Team (JET) from the 1st JCC to the beginning of October 2020, according to the presentation by WAL and JET.

2. Modification of PDM and PO

JCC understood and approved the modification of The Project Design Matrix (PDM) and

Plan of Operation (PO) shown as ANNEX I and ANNEX II. There are no modifications in

this JCC meeting except for the addition of Output4. Record of discussion of the Project will be modificated accordingly in timely manner.

3. List of Counterparts

JCC understood and approved the modification of the counterparts list shown as **ANNEX** III

ANNEX I:Project Design Matrix Version 3ANNEX II:Plan of operation Version 3ANNEX III:Organization chartANNEX IV:List of Counterparts

Appendix 1:List of AttendanceAppendix 2:Agenda of 3rd JCC

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Appendix 1	: List of Attendand	ce	
No.	Name	Position	Organization
1	Dr. Siale 'Akau'ola	CEO	МОН
2	Mr. Malakai Lomu Sika	CEO	WAL
3	Ms. Mafile'o Masi	Chief Environmentalist, DoE	MEIDECC
4	Ms. Lucy Fa'anunu	OIC Vavau, MEIDECC	MEIDECC
5	Ms. Filisi Tonga	Public Health Inspector Graduate	МОН
6	Ms. LoLa Liava'a Tonga	Manager of Administration & Special Projects	WAL
7	Mr. Nobuaki Matsui	Resident Representative	JICA Tonga Office
8	Mr.Tetsuji Nakasone	Project Formulation Advisor	JICA Tonga Office
9	Mr. Alfred Vaka	Program officer	JICA Tonga Office
10	Ms. Yu Sugita		JICA HQ
11	Mr. Satoru Mimura	Chief Advisor	J-PRISM II Project Office
12	Mr. Faafetai Sagapolutele	Assistant Chief Advisor	J-PRISM II Project Office
13	Ms. Ayako Yoshida	Regional Cooperation Coordinator	J-PRISM II Project Office
14	Ms. Mayu Nomura	Expert on Solid Waste Management Training/Monitoring	J-PRISM II Project Office
15	Ms. Yoko Onuma	Expert, Monitoring/3R+Return	J-PRISM II Project Office
16	Ms. Evangeline Potifara	Project Assistant	J-PRISM II Project Office
17	Mr. Shinnosuke Oda	Team Leader/ Solid Waste management Expert	J-PRISM II Project short term exper Team
18	Mr. Hitoshi Katayama	Solid Waste management Expert	J-PRISM II Project short term exper Team
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### Appendix 1: List of Attendance

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Appendix 2: Agenda of 3rd JCC

### J-PRISM II

### 3rd Joint Coordinating Committee (JCC) Meeting

Date: Thursday, 22th October, 2020

Venue: JICA Tonga Office

Chairperson: Dr. Siale 'Akau'ola (CEO, MOH)

Purpose: To confirm over all progress including the outcome of the project and challenges to achieve our goals, and to get approval for adding Output 4.

Time (Tonga)	Agenda	Facilitator/Resource Person
13:30 14:00	Registration	All participants
14:00 14:05	Opening prayer	Mr. Sione Pahulu
		(JICA)
14:05 - 14:10	Opening remarks	Dr. Siale 'Akau'ola
		(CEO, MOH)
14:10 - 14:20	Keynote Remarks of JICA Tonga Office	Mr. Nobuaki MATSUI
		(Resident Representative,
		JICA)
14:20 14:40	Project Progress	Mr. Malakai Lomu Sika, (CEO,
		WAL)
14:40 – 14:50	Presentation on PDM and PO	Mr. Hitoshi Katayama
		(JPRISM II)
14:50 15:00	Confirmation of forthcoming schedule	MEIDECC, MOE, WAL, JICA,
		and JPRISMII
15:00- 15:10	Closing remarks	Dr. Siale 'Akau'ola
		(CEO, MOH)
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Period of Project: 2017 – 2022 (5 years in regional project)			22 October 2019	
		Dated: 22		
Project Site: Tonga				
Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumption	
Overall Goal Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016 – 2025 (Cleaner Pacific 2025).				
Project Purpose (Regional) Human and institutional capacity base for sustainable Solid Waste Management (SVM) in the Pacific region is strengthened through implementation of Cleaner Pacific				
(Country) A foundation of sustainable solid waste management is built in the Tongan outer Islands ⁴¹ , with emphasis on practical implementation.	tgan outer islands is reflected in WAL's 5 year	1. Business Plan of WAL		
	<ol> <li>100% of households in the main island of Vava'u receive waste collection service provided by VVAL by the end of the Project.</li> </ol>	2. Record of waste collection service	ŝ,	
3. The waste fee collection rate in improvement of public avareness.	Vava'u exceeds 80% due to the	3. Record of waste fee collection		
Outputs 1. WAL's 5 year business plan for expanding waste management services throughout 1. WAL's 5 year busin Tonga is formulated.	1-1 WAL's 5 year business plan for providing waste management services 1 in the Tongan outer islands is approved by WAL board meeting and	1-1 WAL's 5 year business plan		
suomues to Ministy of 1-2 Recessary human are incontorated hind	apital	1-2 Business plan for each outer islands		
1-3 Mid-long term of WAL' years Business Plan	scified in 5	1-3 WAL's 5 year business plan	A	
<ol> <li>WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strencthened through providing waster management service in VavaU. VavaU.</li> </ol>	2-1 WAL collects solid waste in accordance with the collection schedule in 2 Vavau.	2-1 Operation records of WAL		• '
	ilaka landfill site according to O&M	2-2 Operation records of WAL	*	
2-3 WAL Vave'u office accordance with the m	ste collection and landfill activities in st of service operation for Vava'u office.	2-3 Record of collection works, landfill works and summary of operations compiled by WAL Vava'u office	×	28
<ol> <li>SWM action plans for the main islands of Ha'apai and Eua are developed.</li> <li>Actual situation of solid y Ha'apai and Eua is grasped.</li> <li>2-2 WAL identifies the issue to the second solution.</li> </ol>	vaste management in the main islands of s o be sooned for providing solid waste	3-1 Report of baseline survey of the target island(s) 2. Solid waste management plan in the target		

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

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Project Design Matrix (PDM)

Implementing Agency: Waste Authority Limited (WAL), Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications (MEIDECC), Ministry of Health (MOH) Target Group: Staff and C/Ps of WAL, C/P

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		L.	ement					SD SD			sures>	*	<i></i>			
		Important Assumption	1. National Waste Management Strategy is endorsed by	Cabinet.				Pre-Conditions 1. Legal base of WAL is secured to expand waste services to the outer islands.			sissues and countermeasures?		¥. 2.			
4-1 Operation records of WAL	4-2 Operation records of WAL	The Tonna Side	1. Allocation of counterpart	<ol> <li>Office space and facilities for Japanese experts</li> </ol>	<ol> <li>Operational expenses for administrative work, transportation, training, and seminar, etc.</li> </ol>			G.			и	*			*	×
4-1 WAL collects solid waste in accordance with the collection schedule in Ha apai and 'Eua	4-2 WAL office manages waste collection and landfill activities in accordance with the monitoring sheet of service operation.	The lenguese Side	1. Dispatch Experts	2. Training	<ol><li>Local cost of Japanese exparts</li></ol>	4. Material cost for the training in Vava'u				8						*
<ol> <li>WAL's capacity on implementation of sustainable SWM in the Tongan outer islands this strengthened through providing waste management service in Haspai and 'Eua.</li> </ol>		Activities	1-1 Conduct the waste management baseline survey for mainly Tongatapu island.	1-2 Conduct Waste Amount and Composition Surveys (WACS) to identify the generation amount and characteristics of solid waste throughout Tonga (if necessary). 2		ng the waste management Naste Management Act 2005	and outer onliced occurrents of local reaction pointy. 1-5 Study on financial sustainability for expanding waste management services to the Tongan outer islands.	<output 2=""> Contput 2&gt; Carl Review the draft Solid Waste Management Plan of Vava'u and supplementarily conduct the baseline survey. 2-2 Formulate an action plan of expanding the waste management services in Vava'u.</output>	2-3 Prepare the monitoring sheet of service operation for Vava'u office. 2-4 Conduct OJT such as waste collection service, landfill operation, public awareness raising, etc. for WAL to provide waste management service in Vava'u	<ol> <li>2-5 WAL conducts stakeholders meeting in Veva'u.</li> <li>2-6 WAL implements the waste management service in Vava'u.</li> <li>2-7 Review the result of implementation of waste management service in Vava'u.</li> </ol>	<output 3=""> 3-1 Facilitate inception workshops for action plan for the main islands of Ha'apai and Eua.</output>	3-2 Conduct baseline surveys to develop the Action plan and Business implementation plan of the main islands of Helappi and Eua. 3-3 Formulate the Action plan(s) for providing waste management service to the main stateholder's workshops held in these islands.	<output 4=""> 4-1 Prepare the monitoring sheet of service operation for 'Ha'apai and 'Eua office 4-1 Prepare the monitoring sheet of service operation for 'Ha'apai and 'Eua office 4-2 Conduct OUT such as waste collection service, landfill operation, public awareness raising, etc. for WAL to provide waste management service in 'Ha'apai and 'Eua office</output>	4-3 WAL implements the waste management service in "Ha apal and "Eua 4-4 Review the result of implementation of waste management service in 'Ha'apai and the service in 'Ha'apai and 'Ha'apai and 'Ha'apai'	tuda *1: *Tongan outer islands" means Main islands of Vavelu, Haʻapai and 'Eua.	

Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (Group 2) Project Completion Report (3rd Term)

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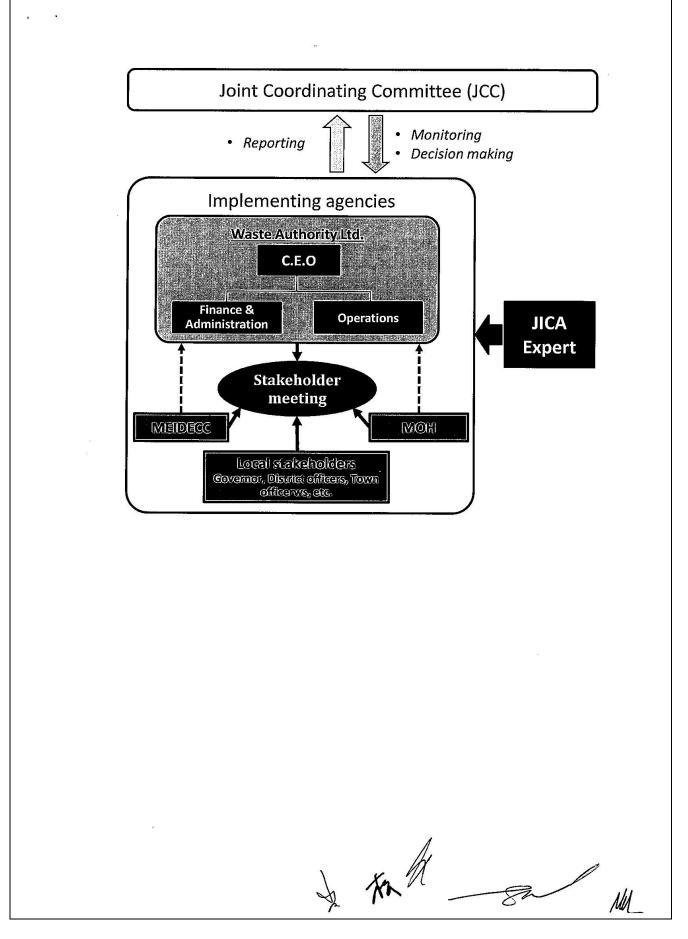
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Sub-Activities	ketmel	и ш п і	ИШТІГ	V I I I W	VI II I V	IЛШИ	I I II II	/	:) P
Output 1: WAL's 5 year business plan for expanding waste management services throughout Tonga is formulated	nt services	throughout To	onga is formulate	d.					roj
<ol> <li>1-1 Conduct the waste management baseline survey for mainly Tongatapu island</li> </ol>	Plan								ect
1-2 Conduct Waste Amount and Composition Surveys (WACS) to identify the generation amount and characteristics of solid waste throughout Tonga (if necessary)	Plan								Comp
1-3 Assess the current solid waste management implementing capacity (human resources, technical skills, business system, asset, capital, etc.) of WAL	1								letioi
1-4 Formulate WAL's 5 year business plans of expanding the waste management service area into the Tongan outer islands, in line with Waste	Plan							1	п Кер
1-5 Study on financial ustainability for expanding waste management services to the Thrancial ustainability for expanding waste management services to the Thrancia Chando	and in section								ort (
Outro tronger outer isatios	Tongan o	uter islands is	strengthened thr	rough providing w	aste management	service in Vava'u.			310
2-1 Review the draft Solid Waste Management Plan of Vava'u and supplementarily conduct the baseline survey.	Plan								Iern
2-2 Formulate an action plan of expanding the waste management services in Vava'u	Plan							,	n)
2-3 Prepare the monitoring sheet of service operation for Vava'u office	Plan								
2-4 Conduct OJT such as waste collection service, landfill operation, public awareness ratsing, etc. for WAL to provide waste management service in Vava'u									
2-5 WAL conducts stakeholders meeting in Vava'u.	Plan							8	
2-6 WAL implements the waste management service in Vava'u.	Plan								
2-7 Review the result of implementation of waste management service in Vava'u.							<b>v</b>		
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3-1 Facilitate inception workshops for action plan for the main Islands of Harapat		
and Eua.		
3-2 Conduct baseline surveys to develop the Action plan and Business		
implementation plan of the main islands of Ha'apai and Eua.		
ritatii biatiqos or na apar aria cua paseo or tre experience in vava u aria tre results of stakeholder's workshops held in these islands.	Vertraft	
Output 4: WAL's capacity on implementation of sustainable SWM in the	tainable SWM in the Tongan outer Islands is strengthened through providing waste management service in Ha'apai and 'Eua	rvice in Ha'apai and 'Eua.
4-1 Prepare the monitoring sheet of service operation for 'Ha'apai and 'Eua		
office		
4-2 Conduct OJT such as waste collection service, landfill operation, public	Plan	
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4-3 YVAL III PIEITETIS LIE WASTE IIIATIAGETIETI SETVICE III DA APALATIC CUA		
4-4 Review the result of implementation of waste management service in		
'Ha'apai and 'Eua		

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No.	Project Position	Name	Position	Organization	1000100-000	keiate Olutoi	den de Calènde
			- Conton	Organization	1	2	3
1	Co-Project Director	Paula Ma'u	CEO	MEIDECC			V
2	Co-Project Director	Siale 'Akau'ola	CEO	МОН			Ø
3	Project Manager	Malakai Lomu Sika	CEO	WAL	Ø		V
4	Counterpart	Lupe Matoto	Director, DoE	MEIDECC		Ø	V
5	Counterpart	Mafile'o Masi	Chief Environmentalist, DoE	MEIDECC		Ø	V
6	Counterpart	Filimone Lapao'o	Senior Environmentalist, DoE	MEIDECC		Ø	Ø
7	Counterpart	Siosiua Latu	Conservation Officer, DoE	MEIDECC		Ø	
8	Counterpart	Feauini Veikoso	Principal Energy Planner	MEIDECC		Ø	Ø
9	Counterpart	Lucy Fa'anunu	OIC Environment in Vava'u	MEIDECC		Ø	
10	Counterpart	Reynold 'Ofanoa	Chief Medical Officer, Public Health	МОН			
11	Counterpart	Sela Taniela Fa'u	Supervising Public Health Inspector	МОН			Ø
12	Counterpart	John Lee	OIC in Vava'u	МОН			
13	Counterpart	Ma'ana 'Akau'ola	Finance Manager	WAL	V	V	Ø
14	Counterpart	Lola Liava'a Tonga	Manager of Administration & Special Projects	WAL	V	Ø	Ø
15	Counterpart	Tevita 'Ofafonua Toli	WAL Vava'u manager	WAL	Ø	Ø	Ø
16	Counterpart						
17	Counterpart						
18	Counterpart						
19	Counterpart						

### List of Counterparts

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### 5.2.2 4th JCC

MINUTES OF MEETINGS ON THE FORTH JOINT COORDINATING COMMITTEE OF THE JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTRIES PHASE II (J-PRISM II) IN THE KINGDOM OF TONGA Nuku'alofa, Tonga, 13th September, 2022 Mr. ANAI Junji Mr. Paula An'u Sub Team Leader, Chief Executive Officer JICA Expert G2 Team, Ministry of Metrology, Energy, information, Technical Cooperation Project for Disaster Management, Environment, Climate Change and Commutations Promotion of Regional Initiative on Solid The Kingdom of Tonga waste Management in Pacific Island Countries Phase II (J-PRISM II) noo 00 Mr. Malakai Lomu Sika Dr. Siale 'Akau'ola for Chief Executive Officer Chief Executive Officer Waste Authority Limited Ministry of Health The Kingdom of Tonga The Kingdom of Tonga Witnessed by: Mr. TAKASHIMA Hiroaki Resident Representative Rotone L A **TONGA** Office Japan International Cooperation Agency

### Main Points Discussed

The chairperson, Mr. Paula Ma'u, proceeded the meeting in accordance with the program in Appendix 2. All the attendances agreed and confirmed the following matters;

1. Achievements of the Project

JCC confirmed that the achievements of the Project carried out by Counterparts and JICA Expert Team (JET), according to the presentation by WAL and JET.

2. List of Counterparts

JCC understood and approved the modification of the counterparts list shown as **ANNEX** III

ANNEX I:	Project Design Matrix Version 3
ANNEX II:	Plan of operation Version 3
ANNEX III:	Organization chart
ANNEX IV:	List of Counterparts
Appendix 1:	List of Attendances

Appendix 2: Agenda of 4th JCC

Rot Jul KA

Ministry of Health (MOH) <u>Target Group</u> : Staff and CPS of WAL, C/PS of MEI: "ECC and MOH <u>Period of Project</u> : 2011–2022 (5 years in regional project) <u>Dated: 22 Oct</u>		Version 3 Dated: 22	Version 3 Dated: 22 October 2020
Project Site: Tonga	Objectively Verifiable Indicators	Means of Verification	Important Assumption
Overall Goal Ventation Countrient Sustainable managements' rolid waste in the Pacific region is enhanced based on Pacific Regional Waste and follution Management Strategy 2016 – 2025 (Cleaner Pacific 2025).			
Project Purpose (Regional) Human and institutional coperity base for sustainable Solid Waste Management (SWM) in the Pacific region it strengthened through implementation of Cleaner Pacific 2015			
(country) A foundation of sustainable solid waste management is built in the Tongan outer islands*, with emphasts in pactical implementation.	<ol> <li>SWM action plan of Tongan outer islands is reflected in WAL's 5 year busineess plan.</li> <li>100% of households in the main island of Vava'u receive waste callection service provided by WAL by the end of the Project.</li> <li>The waste fee collection rate in Vava'u exceeds 80% due to the improvement of public awareness.</li> </ol>	<ol> <li>Business Plan of WAL</li> <li>Record of waste collection service</li> <li>Record of waste fee collection</li> </ol>	
Outbuts 1. WAL's 5 year business pla: for expanding waste management services throughout Tonga is formulated Tonga is formulated	ut 1-1 WAL's 5 year business plan for providing waste management services in the Tongan outer islands is approved by WAL board meeting and submitted to Ministry of Public Enterprise	1-1 WAL's 5 year business plan	
	pport, infrastructure, capital ch outer islands. rategies are specified in 5	<ol> <li>Business plan for each outer islands</li> <li>WAL's 5 year business plan</li> </ol>	
<ol> <li>WAL's capacity on implementation of sustainable SWM in the Tongan outer islands is strengthened through providing wasts management service in Vava'u.</li> </ol>	<ol> <li>WAL collects solid waste in accordance with the collection schedule in Vavau.</li> <li>Vavau.</li> <li>VAL operates and maintains Kalaka landfill site according to O&amp;M manual to be updated through OJT.</li> <li>2.3 WAL Vavau office manages waste collection and landfill activities in accordance with the monitoring sheet of service operation for Vava'u office.</li> </ol>	2-1 Operation records of VVAL. 2-2 Operation records of VVAL 2-3 Record of collection works, landfill works and summary of operations compiled by VVAL Vava'u office	
3. SWM action plans for the rain islands of Ha'apai and Eua are developed.	<ol> <li>3-1 Actual situation of solid waste management in the main islands of Ha'apai and Eua is grasped.</li> <li>3-2 WAL identifies the issues to be solved for providing solid waste management service in the main islands of Ha'apai and Eua.</li> </ol>	<ol> <li>Report of baseline survey of the target island(s)</li> <li>Solid waste management plan in the target island(s)</li> </ol>	

	Important Assumption		1. National Waste Management Strategy is endorsed by Cabinet.	ministrative nd seminar, etc.		Pre-Conditions 1. Legal base of WAL is secured to expand waste services to the outer islands.		<li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li>		
<ul> <li>4-1 Operation records of WAL</li> <li>4-2 Operation records of WAL</li> </ul>		The Tonga Side	<ol> <li>Allocation of counterpart</li> <li>Office space and facilities for Japanese</li> </ol>	<ol> <li>Operational expenses for administrative work, transportation, training, and seminar, etc.</li> </ol>						
4-1 WAL collects solid waste in accordance with the collection schedule in Ha'apal and 'Eua 4-2 WAL office manages waste collection and landfill activities in accordance with the monitoring sheat of service operation.	Inputs	The Japanese Side	1. Dispatch Experts 2. Training	3. Local cost of Japanese experts	4. Material cost for the training in Vava'u					
4. WAL's capacity on implementation of sustainable SWM in the Tongan outler islands is strengthened through providing waste management service in Ha apai and islands is strengthened through providing waste management service in Ha apai and	Activities	Control 1>	t the waste management baseline survey for mainly Tongatapu island. t Waste Amount and Composition Surveys (WACS) to identify the	uman	lagement ent Act 2005 ervices to the	-Output 2> 2-1 Review the draft Solid Waste Management Plan of Vava'u and supplementarily conduct the baseline survey. 2-2 Formulate an action plan of expanding the waste management services in Vava'u. 2-3 Properte the monitoring sheat of service operation for Vava'u office. 2-3 Conduct OJT such as wastecollection service, landfill operation, public.	awareness raising, etc. for WAL to provide waste management service in vava u 2-5 WAL conducts stakehold/smeeting in Vava'u. 2-6 WAL implements the waste management service in Vava'u. 2-7 Review the result of implementation of waste management service in Vava'u.	coulput 3> 3.1 Facilitate inception workshops for action plan for the main islands of Ha'apal and 3.1	Lua. 2.2 Conduct baseline surveys todevelop the Action plan and Business implementation plan of the mainislands of Ha'apai and Eua. 3.3 Formulate the Action plan(s) for providing waste management service to the main islands of Ha'apai and Eua based on the experience in Vava'u and the results of stakeholder's workshops held in these islands.	Coupul 4> Contput 4> 4.1 Prepare the monitoring sheel of service operation for 'Ha'apai and 'Eua office avaereness raising, etc. for WAL to provide waste management service in 'Ha'apai and 'Eua office 4.3 WAL implements the waste management service in 'Ha'apai & Review the result of implementation of waste management service in 'Ha'apai

Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (Group 2) Project Completion Report (3rd Term

Plan     2017       Actual     I     I       Actual     I     I       and     Plan		Management in	Pacific Island C	ountries Phase II (J-PRISM I	II (J-PRISM II)
Activities     2017       Sub-Activities     Actual I I I I I I I I I I I I I I       Output 1: WAL's 5 year business plan for expanding waste management services throughout       1-1 Conduct the waste management baseline survey for mainly Tongatapu island	0040	2010	2020	2021	2022
Sub-Activities     Actual     I     II     II     III     III       Output 1: WAL's 5 year business plan for expanding waste management services throughout       1-1 Conduct the waste management baseline survey for mainly Tongatapu island	20102		т т т		-
Output 1: WAL's 5 year business plan for expanding waste management services throughout           1-1 Conduct the waste management baseline survey for mainly Tongatapu island		AT   III   II   I		1	
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1-2 Conduct Waste Amount and Composition Surveys (WACS) to identify the Plan					
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on implementation of sustainable SWM in the T	ds is strengthened un	rougn providing	Maste IIIaliage		
2-1 Review the draft Solid Waste Management Plan of Vava'u and					
supplementarily conduct the baseline survey.					
mulate an action plan of expanding the waste intailagement services in					
2.3 Dranare the monitoring sheet of service operation for Vava'u office					
2-4 Conduct OJT such as waste collection service, landfill operation, public Plan					
ava u					
2-5 WAL conducts stakeholders meeting in Vava'u.					
Actual					
2-6 WAL implements the waste management service in VaVa u.					
in Vava'u					
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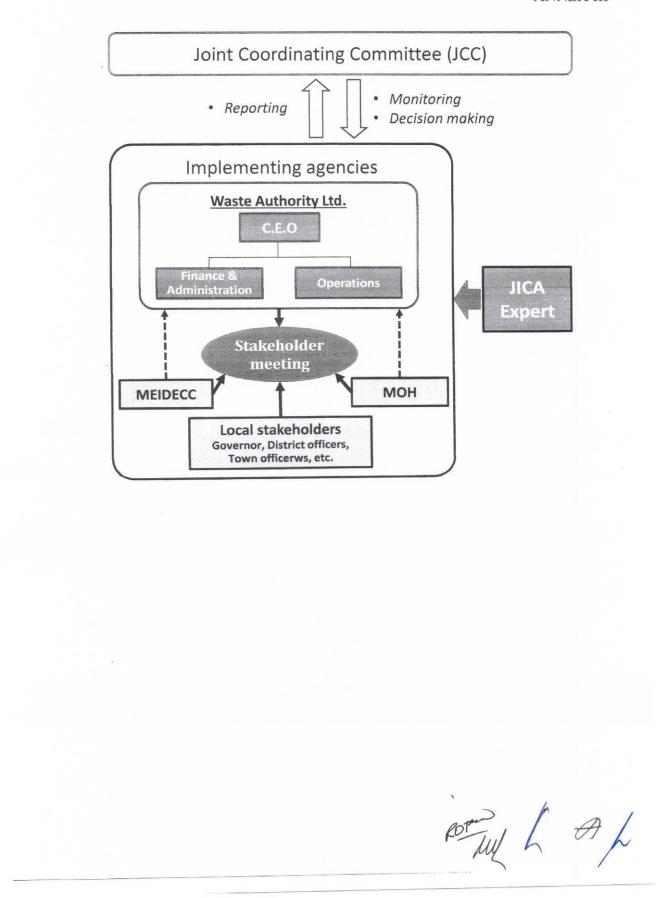
### Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries

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the second se	nds of Ha'apai	Plan						
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and Eua.		Dian						
2 2 Conduct haseline surveys	a control haseline surveys to develop the Action plan and Business							
implementation plan of the ma		Actual						
	or commentation providence for providing waste management service to the	Plan						
3-3 Formulate ure Automitianian	'u and the							
results of stakeholder's workshops held in these islands.	hops held in these islands.		1	widing weete m	anadements	service in H	a'apai and	Éua
To Mar & WAI's canacity on	stainab	le SWM in the Tongan outer Islands is strengtreireu un ough provincie accession and accession acces	Iduana an					
utput 4. VAALS Capacity		Plan						
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4-2 Conduct OJT such as was	4-2 Conduct OJT such as waste collection service, landfill operation, public	Plan						
awareness raising, etc. for Wi	awareness raising, etc. for WAL to provide waste management service in Ha	Actual						
anai and 'Eua office								
		Plan						
4-3 WAL implements the was	4-3 WAL implements the waste management service in 'Ha'apai and 'Eua	Actual						
	Ha'apail	Plan						
4-4 Review the result of imple	4-4 Review the result of implementation of waste management of the	Actual						

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ANNEX III



Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (Group 2) Project Completion Report (3rd Term)

### ANNEX IV

List of C				Related			
No.	Project Position	Name	Position	Organization	1	2	3
1	Co-Project Director	Paula Ma'u	CEO	MEIDECC			Z
2	Co-Project Director	Siale 'Akau'ola	CEO	МОН			
3	Project Manager	Malakai Lomu Sika	CEO	WAL	Ø	Ø	Ø
4	Counterpart	Lupe Matoto	Director, DoE	MEIDECC			Z
5	Counterpart	Mafile'o Masi	Chief Environmentalist, DoE	MEIDECC		Ø	Z
6	Counterpart	Filimone Lapao'o	Senior Environmentalist, DoE	MEIDECC			
7	Counterpart	Siosiua Latu	Conservation Officer, DoE	MEIDECC		Ø	Z
8	Counterpart	Feauini Veikoso	Principal Energy Planner	MEIDECC		Ø	Z
9	Counterpart	Lucy Fa'anunu	OIC Environment in Vava'u	MEIDECC			
10	Counterpart	Reynold 'Ofanoa	Chief Medical Officer, Public Health	МОН			2
11	Countorpart	Sela Taniela Fa'u	Supervising Public Health Inspector	МОН			V
12	Counterpart	John Lee	OIC in Vava'u	МОН		Ø	
13	Counterpart	Ma'ana 'Akau'ola	Finance Manager	WAL			Z
14	Counterpart	Lola Liava'a Tonga	Manager, Administration & Projects	WAL		Ø	V
15	Counterpart	Stalini Naufahu	Mangers, IT, Support & Special Projects	WAL	N	Ø	¥
16	Counterpart	Charlynn Lautaha	Manager, Operations	WAL			Į.
17	Counterpart	Tevita 'Ofafonua Toli	WAL Vava'u manager	WAL	Ø		¥
18	Counterpart	Anitelu Toea'pi	WAL 'Eua Manager	WAL			5
19	Counterpart	Ma'ali Folau	WAL Ha'apai Manager	WAL			5

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	Name	Position	Organization
1	Mr. Paula Ma'u	CEO	MEIDECC
2	Dr. Siale 'Akau'ola	CEO	МОН
3	Mr. Malakai Lomu Sika	CEO	WAL
4	Ms. Lupe Matoto	Director, DoE	MEIDECC
5	Ms. Mafile'o Masi	Chief Environmentalist, DoE MEIDECC	
6	Mr. Reynold 'Ofanoa	Chief Medical Officer, Public Health MOH	
7	Ms. Ma'ana 'Akau'ola	Finance Manager	WAL
8	Ms. Lola Liava'a Tonga*	Manager, Administration & Projects	WAL
9	Mr. Stalini Naufahu	Manager, IT Support & Special Projects	WAL
10	Mr. Tevita 'Ofafonua Toli	WAL Vava'u Manager	WAL
11	Mr. Maali Folau	WAL Ha'apai Manager	WAL
12	Mr. Anitel Toeapi	WAL 'Eua manager	WAL
13	Mr. Koji Maeshima*	Deputy Director, Environmental Management Team 1, Environmental Management Group, Global Environment Dept.	JICA Headquarter
14	Mr. Hiroaki Takashima	Resident Representative	JICA Tonga Office
15	Mr. Tetsuji Nakasone	Project Formulation Advisor	JICA Tonga Office
16	Ms. Hiroko Oka	Project Formulation Advisor	JICA Tonga Office
17	Mr. Alfled Vaka	Program Officer	JICA Tonga Office
18	Mr. Satoru Mimura*	Chief Advisor	J-PRISM2 Project Office
19	Mr. Faafetai Sagapolutele*	Assistant Chief Advisor	J-PRISM2 Project Office
20	Ms. Shinnosuke Oda*	Team leader/Solid Waste Management	J-PRISM2 Project team
21	Mr. Junji Anai	Sub-team leader/Solid Waste Management	J-PRISM2 Project Team
22	Ms. Mitsuko Nakamura	Capacity Development	J-PRISM2 Project Tean

* On-line

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Appendix 2: Agenda of 4th JCC

### J-PRISM II

### 4th Joint Coordinating Committee (JCC) Meeting

- Date: 13th, September, 2022
- Time: 10:00 12:00
- Venue: Board Room, Waste Authority Limited
- Chairperson: Dr. Siale 'Akau'ola (CEO, MOH)
- Purpose: To confirm the progress and achievements of all outputs and project purpose.

Time (Tonga)	Agenda	Facilitator/Resource Person
10:00 - 10:30	1. Registration	All participants
10:30 - 10:35	2. Opening prayer	(TBC)
10:35 - 10:40	3. Opening remarks	Dr. Siale 'Akau'ola (CEO, MOH)
10:40 - 10:50	4. Keynote Remarks of JICA	Mr. Hiroaki TAKASHIMA (Resident Representative, JICA)
10:50 - 11:20	Tonga Office 5. Project Progress 5-1.Output 1&3 5-2 Output 2 5-3 Output 4	Mr. Stalini, (WAL Manager, Special Projects) Mr. Tevita (WAL Vava'u Branch Manager) Mr. Maali (WAL Ha'apai Branch Manager) Mr. Anitelu (WAL 'Eua Branch Managers)
11:20 - 11:30	6. Summary of PDM	Ms. Mitsuko NAKAMURA (JPRISM II)
11:30- 11:50	7. Discussions	MEIDECC, MOH, WAL, JICA, and JPRISMII
11:50-12:00	8. Closing remarks	Mr. Paula Ma'u (CEO, MEIDECC)

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Annex E : Attachment for Independent state of Samoa

### **Table of Contents**

1	Lists of Project outputs and related documents	1
2	Inputs and Work schedule	.1
	<ul> <li>2.1 Inputs</li> <li>2.1.1 Dispatch of Japanese experts</li> <li>2.1.2 Acceptance of trainees</li> <li>2.2 Work schedule</li> </ul>	. 1 . 1
3	Work flow chart	4
	<ul><li>3.1 Work flow chart based on PO2</li><li>3.2 Work flow chart based on PO3</li></ul>	
4	Changes of PDM	6
	<ul> <li>4.1 Project Purpose</li></ul>	6 .6 .7
5	JCC	9
	<ul> <li>5.1 Program of 3rd JCC</li></ul>	0

### 1 Lists of Project outputs and related documents

No	Title of outputs/documents	Creation date	Summary
1	National Waste Management Strategy and Action Plan	January 2020	National Waste Management Strategy and Action Plan which was approved in January 2019 through activity under output 1.
2	Format of Rubbish Collection Monitoring System	March 2020	Format of Rubbish Collection Monitoring System which was developed and being operated through activity under output 2.
3	Proposal on user pay system	July 2022	The proposal which summarizes recommendation and future direction finalized in July 2022 through activity under output 3. The user pay option and result of public consultation is attached.
4	Meeting documents for the 3 rd JCC	June 2022	Progress of activities, Revision on PDM and etc.

Table 1-1 Lists of Project outputs and related documents (Samoa)

### 2 Inputs and Work schedule

### 2.1 Inputs

### 2.1.1 Dispatch of Japanese experts

No.	Name	Exporty	Dispatc	h period	PM	PM
NO.	Name	Experty	Start date	End date		FIVI
1	Hiroshi Tsuruta	SWM G	2022/3/4	2022/7/8	3.53	3.53
Tota	I					3.53

*Work in Japan is separately summarized.

### 2.1.2 Acceptance of trainees

There was no acceptance of trainees.

### 2.2 Work schedule

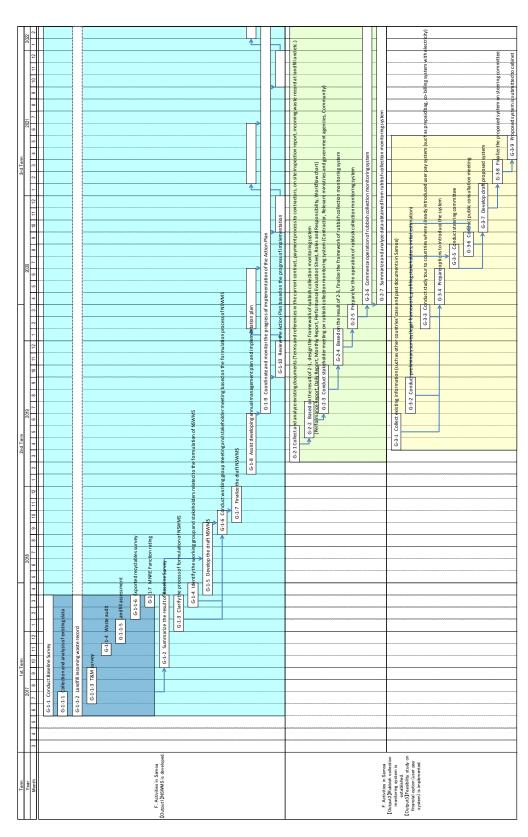
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Activities	Plan		2017				2018		_		2019				2020			20	2021			2022		
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	Actual																							
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1-1-3 T&M survey	Plan	-					_						_								-	-		
	Actual	_						$\top$																
1-1-4 Waste audit	Actual	ļ																				-		
	Plan																							
1-1-2 Langilli assessment	Actual																							
	Plan																							
1-1-0 Exported recyclaptes survey	Actual																							
4 4 7 MAIDE Frustiens actions	Plan																							
	Actual																							
1.0 Summarize the second of Becchine Summer	Plan																							
	Actual																							
1 3 Clarify the manage of formal define of NEWING	Plan																							
	Actual																							
1-4 Identify the working group and stakeholders related	Plan																							
	Actual																							
1 E Doublook the during MICWAN	Plan																							
	Actual																							
1-6 Conduct working group meeting and stakeholder	Plan																							
meeting based on the formulation process of NSWMS	Actual																							
	Plan																							
	Actual																							
1-8 Assist developing annual management plan and	Plan																							
implementation plan	Actual																							
1-9 Coordinate and monitor the progress of	Plan																							
	Actual																							
1-10 Review the Action Plan based on the progress of	Plan																							
	Actual																							

2017     2019     2020     2021       I     I     I     I     I     I     I     I     I     I       I     I     I     I     I     I     I     I     I     I     I
2013         2019         2020         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021         2021 <th< td=""></th<>

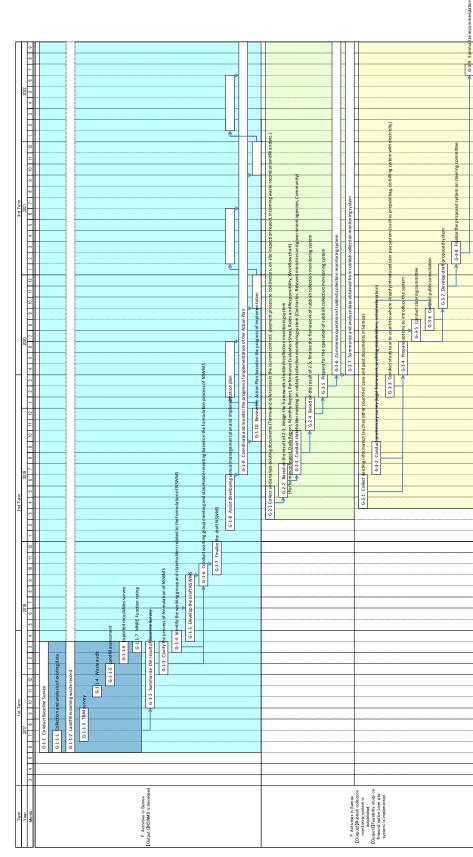
### Work flow chart

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# 3.1 Work flow chart based on PO2



# 3.2 Work flow chart based on PO3



### 4 Changes of PDM

PDM2 was revised and approved as PDM3 in the 3rd JCC held on Jane 22, 2022.

### 4.1 **Project Purpose**

PDM2	PDM3
Project purpose	
Solid waste is appropriately managed based on the National Waste Management Strategy (NWMS).	No change
Objectively Verifiable Indicator	
1 Top priority activities listed in the NWMS related to waste collection service are implemented.	No change
2. Annual Management Plan is developed based on the NSWMS.	
3. Basic data on SWM is updated as scheduled in the NSWMS.	

### 4.2 Outputs, Indicator and Activities

### 4.2.1 Output 1

PDM1	PDM2
Output 1	
NSWMS is developed.	No change
Objectively Verifiable Indicator	
1. The draft final NSWMS with consensus among stakeholders is submitted to the Cabinet	No change
Activities	
<ul> <li>1-1 Conduct Baseline Survey</li> <li>1-2 Summarize the result of Baseline Survey</li> <li>1-3 Clarify the process of formulation of NSWMS</li> <li>1-4 Identify the working group and stakeholders related to the formulation of NSWMS</li> <li>1-5 Develop the draft NSWMS</li> <li>1-6 Conduct working group meeting and stakeholder meeting based on the formulation process of NSWMS</li> <li>1-7 Finalize the draft NSWMS</li> <li>1-8 Assist Developing annual management plan and implementation plan</li> <li>1-9 Coordinate and monitor the progress of implementation of the Action Plan</li> </ul>	No change

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PDM1	PDM2
Activities	
1-10 Review the Action Plan based on the progress	No change

### 4.2.2 Output 2

PDM2	PDM3
Output 2	
Rubbish collection monitoring system is established.	No change
Objectively Verifiable Indicator	
<ul> <li>2-1 Data for rubbish collection monitoring system is collected on a regular basis</li> <li>2-2 Supervision to the contractor is made based on the data collected from the system.</li> <li>2-3 Revised contract format is proposed</li> </ul>	No change
based on the rubbish monitoring system	
Activities	
2-1 Collect and analyze existing documents (Terms and references in the current contract, payment process to contractors, on site inspection report, incoming waste record at landfill and etc.)	No change
2-2 Based on the result of 2-1, design the framework of rubbish collection monitoring system (Performance Report, Daily Report, Monthly Report, Performance Evaluation Sheet, Roles and Responsibility, Workflow chart)	
<ul> <li>2-3 Conduct stakeholder meeting on rubbih collection monitoring system (Contractor, Relevant ministries and government agencies, Community)</li> <li>2-4 Based on the result of 2-3, finalize the framework of rubbish collection</li> </ul>	
2-5 Prepare for the operation of rubbish collection monitoring system	
<ul> <li>2-6 Commence operation of rubbish collection monitoring system.</li> <li>2-7 Summarize and analyze data obtained from rubbish collection monitoring system</li> </ul>	

### 4.2.3 Output 3

PDM2	PDM3
Output 3	
Feasibility study on financial option (user pay system) is implemented.	No change
Objectively Verifiable Indicator	
3-1 Suitable system is consulted with public and stakeholders	3-1 No change
3-2 Suitable system is determined on steering committee	3-2 No change
3-3 Proposed system is submitted to cabinet	3-3 Recommendation and future direction on user pay system is summarized
Activities	
3-1 Collect existing information (such as other countries' case and past documents in Samoa)	3-1 No change
3-2 Conduct preliminary survey (legal framework, profiling stakeholders, initial estimation)	3-2 No change
3-3 Conduct study tour to countries where already introduced user pay system (such as prepaid bag, co-billing system with electricity)	3-3 No change
3-4 Prepare options to introduce the system	3-4 No change
3-5 Conduct steering committee	3-5 No change
3-6 Conduct public consultation meeting	3-6 Conduct public consultation
3-7 Develop draft proposed system	3-7 No change
3-8 Finalize the proposed system on steering committee	3-8 No change
3-9 Proposed system is submitted to cabinet	3-9 Summarize recommendation and future direction on proposed system

### 5 JCC

The 3rd JCC was conducted on 22nd June 2022.

### 5.1 **Program of 3rd JCC**

- Date: 22nd June 2022
- Time: 15:00 16:30
- Venue: TATTE CONVENTION CENTRE (Ground floor)
- Agenda

Item	Time	Presenter
Opening Remarks	15:00 – 15:10	Ms. Lealaisalanoa Frances Reupena Chief Executive Officer, MNRE
Objective of JCC	15:10 – 15:20	JICA Expert Team
Progress of J-PRISM II	15:20 – 15:40	Mr. Aliimuamua Setoa Apo Principal waste management officer, MNRE
Presentation on PDM, PO & Counterparts	15:40 – 16:00	JICA Expert Team
Presentation on pilot project in Samoa	16:00 – 16:05	J-PRISM II Project Office
Q&A	16:05 – 16:15	
Approval at revised PDM/PO & Counterparts Signing the MM	16:15 – 16:20	
Closing Remarks	16:20 – 16:30	Ms. Yumiko Asakuma Resident Representative, JICA

### 5.2 Minutes of Meeting

MINUTES OF MEETINGS ON THE THIRD JOINT COORDINATING COMMITTEE OF THE JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTRIES PHASE II (J-PRISMI) IN INDEPENDENT STATE OF SAMOA Apia, Samoa, 22nd June 2022 Mr. Satoru Mimura Ms. Lealaisalanoa Frances Reupena Chief Execute Officer **Chief Advisor** Ministry of Natural Resources and J-PRISM II Environment The Independent State of Samoa Witnessed by: Ms. Yumiko Asakuma **Resident Representative** Samoa Office Japan International Cooperation Agency

### Main Points Discussed

### 1. Replacement of the Project Director

Ms. Lealaisalanoa Frances Reupena has appointed as CEO on January 2021 after the former CEO resigned. Accordingly, the project Director position is replaced with Ms. Lealaisalanoa Frances Reupena.

### 2. Modification of PDM and PO

JCC understood and approved the modification of the Project Design Matrix (PDM) and Plan of Operation (PO) as version three (3) shown as ANNEX I and ANNEX II respectively (Amendments are shown as follows).

### Period of Project

Before (Version two)	After (Version three)
2017 - 2022 (5 years)	2017 - 2022 (5.5 years)
Reason: Based on agreement on F 2021, extended Period of Project is	Record of Discussion signed on 19th February s reflected.

### **Objectively Verifiable Indicators for output 3**

Before (Version two)	After (Version three)
3-1 Suitable system is consulted with public and stakeholders	(No change)
3-2 Suitable system is determined on steering committee	(No change)
3-3 Proposed system is submitted to cabinet	3-3 Recommendation and future direction on user pay system is summarized

revision of activity 3-9.

### Means of Verification for output 2

Before (Version two)	After (Version three)
2-1 Performance Report, Daily Report	2-1 Monthly Evaluation Sheet
2-2 Monthly report, Performance Evaluation Sheet	2-2 Monthly Evaluation Sheet
2-3 Revised contract format	(No change)
	em, "Monthly Evaluation Sheet" provides data and supervision to the contractors Verification 2-1 and 2-2.

### Means of Verification for output 3

Before (Version two)	After (Version three)
3-1 Report of public consultation	3-1 Report of public consultation, Brief note on comments from Steering Committee.
3-2 Minutes of S/C	(No change)
3-3 Cabinet submission document	3-3 Document on recommendation and future direction

Reason: As for Means of Verification 3-1, "Brief note on comments from Steering Committee" serves as additional Means of verification to confirm consultation with stakeholders.

Means of Verification 3-3 is revised to make alignment with revision of activity 3-9.

### Important Assumption

Before (Version two)	After (Version three)
The Cabinet approves the NSWMS.	1. The Cabinet approves the NSWMS.
Reason: In order to make it clear the	assumption is for Output 1, number is
assigned.	

### Activities for output 3

After (Version three)
(No change)
3-6 Conduct public consultation
(No change)
(No change)
3-9 Summarize recommendation and future direction on proposed system

Activity 3-6 and 3-9 are revised considering followings;

Samoa's National Election and COVID-19 outbreak delayed implementation of output 3 and also changed the political and socio economic situation of Samoa.

N

Considering the COVID-19 situation in Samoa, public consultation was conducted using questionnaire. And there were people who don't support the system.

In this situation, it is difficult to foresee the completion of activity 3-9 "Proposed system is submitted to cabinet" within the project period. This is because the process may includes political decision which beyond the control of the project in this situation.

In response to this situation, the project suggest to revise activity 3-9 to "Summarize recommendation and future direction on proposed system".

### 3. List of Counterparts

JCC understood and approved modification of the counterparts list version three (3) attached herein as ANNEX III (No.1 Project Director replaced. No.6 Senior chemical & hazardous waste management officer has appointed. No.8 Waste policy & planning officer replaced).

Annex1: Project Design Matrix version three (3) Annex2: Plan of Operation version three (3) Annex3: Counterpart list version three (3)

Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Japan International Cooperation Agency (JICA) Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd.

Phase || (Group 2) Project Completion Report (3rd Term) Version 3 Dated 22nd June 2022 2. Political changes would not . The Cabinet approves the 1. Natural disaster would not Important Assumption collaboration of participating participating countries drastically affect the collaboration among drastically affect the countries. NSWWS. Project Title: Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (J-PRISM II) 3-1 Report of public consultation, Brief note on comments from Steering Committee. 3-2 Minutes of S/C 3-3 Document on recoomendation and future Cabinet submmission document, draft final NSWMS, Minitues of workshop and meeting 2. Annual management plan, NSWMS Means of Verification Annual Report, Monitoring sheet (To be discussed) (To be discussed) 2-1 Monthly Evaluation Sheet 2-2 Monthly Evaluation Sheet 3. Result of survey, NSWMS 2-3 Revised contract format Implementing Agency: Division of Environment and Conservation (DEC), Ministry of Natural Resources and Environment (MNRE) rection 3-2 Suitable system is determined on steering committee 3-3 Recommendation and future direction on user pay Project Design Matrix: PDM Annual Management Plan is developed based on the 2-2 Supervision to the contractor is made based on the Basic data on SWM is updated as scheduled in the NSWMS. 2-3 Revised contract format is proposed based on the Top priority activities listed in the NWMS related to 2-1 Data for rubbish collection monitoring system is The draft final NSWMS with consensus among 3-1 Suitable system is consulted with public and **Objectively Verifiable Indicators** waste collection service are implemented. stakeholders is submitted to the Cabinet (To be discussed) (To be discussed data collected from the system collected on a regular basis. ubbish monitoring system system is summarized stakeholders **NSWMS.** based on Pacific Regional Waste and Pollution Management Strategy 2016 Sustainable management of solid waste in the Pacific region is enhanced Feasibility study on financial option (user pay system) is implemented. Solid waste is appropriately managed based on the National Waste Human and institutional capacity base for sustainable Solid Waste Management (SWM) in the Pacific region is strengthened through Rubbish collection monitoring system is established. Narrative Summan Period of Project: 2017 - 2022 (5.5 years) nplementation of Cleaner Pacific 2025. Management Strategy (NWMS)*3. Target Group: C/P of MNRE 2025 (Cleaner Pacific 2025) NSWMS is developed. Project Site: Samoa roject Purpose Overall Goal Regional) (Country) Outputs N é

Important Assumption	Pre-Conditions	in output 1	
Its	The Samoan Side 1. Allocation of counterparts 2. Office space and facilities for Japanese experts 3. Operational expenses for administrative work, transportation, training, and seminar etc.	nent, Exported recyclables survey, MNRE function ² rating as NSVMMS(National Solid Waste Management Strategy) is	
Inputs	The Japanese Side 1. Dispatch Experts 2. Training 3. Local cost for the activities of experts 4. Necessary cost and equipment for pilot project	ecord, Waste audit, Time and motion survey, Landfill assessn ste management which was initially expected to be developed	
Activities	<ul> <li>-Coutput 1&gt;</li> <li>- 1 Conduct Baseline Survey¹</li> <li>1 - 1 Conduct Baseline Survey¹</li> <li>1 - 2 Summarize the nesult of Baseline Survey</li> <li>1 - 3 Clarify the working group and stakeholders related to the formulation of NSWMS</li> <li>1 - 4 Identify the working group meeting and stakeholders related to the formulation for NSWMS</li> <li>1 - 5 Deviolping annual management plan and implementation plan formulation process of NSWMS.</li> <li>1 - 5 Deviolping annual management plan and implementation plan termulation process of NSWMS.</li> <li>1 - 5 Conduct working group meeting and stakeholder meeting based on the formulation process of NSWMS.</li> <li>2 - Conduct working group meeting and stakeholder meeting based on the connulation process of NSWMS.</li> <li>2 - Conduct working group meeting and stakeholder meeting based on the connulation process of NSWMS.</li> <li>2 - Conduct working group meeting and stakeholder meeting based on the connulation process of NSWMS.</li> <li>2 - Collect and analyze existing documents (Terms and references in the current contract, payment process to contractors, on site inspection report, nonling waste record at landill and etc.)</li> <li>2 - 1 - Collect and analyze existing documents (Terms and references in the current contract, payment process to contractors, on site inspection report, nonling system (Performance Evaluation of rubbish collection monitoring system.</li> <li>2 - 1 - Collect and analyze data obtained from rubbish collection monitoring system.</li> <li>2 - Sommonitoring system.</li> <li>2 - Sommonitoring system.</li> <li>2 - Conduct system.</li> <li>2 - Conduct system.</li> <li>2 - Conduct system.</li> <li>2 - Sommonitoring system.</li> <li>3 - Conduct system.</li> <li>3 - Conduct set as syste</li></ul>	Ine survey consists from collection and existing data analysis, Landfill incoming record, Waste audit, Time and motion survey, Landfill assessment, Exported recyclables survey, MNRE function ² rating *MNRE function rating will be conducted as part of baseline survey *NWMS(National Waste Management Strategy) covers the component of solid waste management which was initially expected to be developed as NSWMS(National Solid Waste Management Strategy) in output 1	AL O

nent in Pacific Island Countries Kokusai Kogyo Co., Ltd. • Yachiyo Engineering roject Completion Report (3rd Term)

	Dated 22nd June 2022 r Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (J-PRISM II)	
Project Title: Japanese Technical Gooperation Project Project site: Samoa	2027 2048 2049 2020 2021 2022	
Inputs	ctual I I I IV I I I VI I I IV I I I VI I I IV I I I VI I I I VI I I I VI I I I VI I I I I	
Expert Junji ANAI (Deputy Team Leader, SWM D2)	Plan Deputy Team leader from the second term.	
Shinnosuke ODA (Team Leader, SWM D1)	Actual Life alcolor with: Plan Life alcolor with: Actual Actual	
Mitsuko Nakamura (Capacity Assessment E)	Plan Actual	
Hiroshi TSURUTA (SWM G1)	Pan Winki Awat	
Equipment Procurement of two sets of large monitor with stand through JICA	Plan	
Samoa Office Training in Japan	Pan	
In-country/Third country Training	Actual	
in-county mild county maning	Plan Actual	
Activities	Plan         2017         2018         2019         2020         2021         2022         Responsible Organization           Actual         I         I         I         I         I         I         II	
Sub-Activities Output 1: NSWMS is developed		
1-1 Conduct Baseline Survey	Plan Short-term MNRE	
1-1-1 Collection and analysis of existing data	Plan Broken MNRE	
1-1-2 Landfill incoming waste record	Plan Experimental Plan Plan Plan Plan Plan Plan Plan Pl	
1-1-3 T&M survey	Actual Experts Plan Short-term MARE	
1-1-4 Waste audit 1-1-5 Landfill assessment	Actual Experts white Experts white Experts white Experts white Experts white Experts white Experts Exp	
1-1-6 Exported recyclables survey	Actual Plan Actual Northerm Experts MNRE	
1-1-7 MNRE Function rating	Plan Short-term Experts MNRE	
1-2 Summarize the result of Baseline Survey	Actual Experts Plan Actual Short-kern Anne Experts Anne E	
1-3 Clarify the process of formulation of NSWMS	Plan Short-term MNRE	
1-4 Identify the working group and stakeholders related to the formulation of NSWMS	Plan United Mine Mine Actual Experts	
1-5 Develop the draft NSWMS	Plan Short-term Actual Experts MNRE	
1-6 Conduct working group meeting and stakeholder meeting based on the formulation process of NSWMS	Plan Short-term Actual Experts MNRE	
1-7 Finalize the draft NSWMS	Plan Short-term MNRE	
1-8 Assist developing annual management plan and implementation plan	Ptan Short-term MNRE	
1-9 Coordinate and monitor the progress of implementation of the Action Plan	Plan Actual Actual Actual	
1-10 Review the Action Plan based on the progress of	Plan Short-term MNRE	
implementation	Actual Exports MINIC	
Output 2: Rubbish collection monitoring system is estab	shed.	
2-1 Collect and analyze existing documents (Terms and references in the current contract, payment process to	Plan Short-lerm MNRE	
contractors, on site inspection report, incoming waste record at landfill and etc.) 2-2 Based on the result of 2-1, design the framework of	Actual	
rubbish collection monitoring system (Performance	Plan Short-term KNRE	
Report, Daily Report, Monthly Report, Performance Evaluation Sheet, Roles and Responsibility, Workflow 2-3 Conduct stakeholder meeting on rubbish collection	Actual	
monitoring system (Contractor, Relevant ministries and government agencies, Community)	Plan Short term Experts MNRE	
2-4 Based on the result of 2-3, finalize the framework of	Plan Short-term MNRE	
rubbish collection monitoring system 2-5 Prepare for the operation of rubbish collection	Plan NNRE	
monitoring system	Actual	
2-6 Commence operation of rubbish collection monitorin system	Plan Short-lem Actual Experts MARE	
2-7 Summarize and analyze data obtained from rubbish	Plan Short-term MNRE	
collection monitoring system Output 3: Feasibility study on financial option (user pay	Actual	
3-1 Collect existing information (such as other countries' case and past documents in Samoa)	Plan Short-term MNRE	
3-2 Conduct preliminary survey (legal framework, profilin stakeholders, initial estimation)	Actual Short-term MNRE	
3-3 Conduct study tour to countries where already introduced user pay system (such as prepaid bag, co-	Plan Short-term MNRE	
3-4 Prepare options to introduce the system	Actual Rest Control Rest Contro	
3-5 Conduct steering committee	Plan Short-term Kartal Short-t	
3-6 Conduct public consultation	Plan Short-term MNRE	
	Actual	
3-7 Develop draft proposed system	Plan	
3-8 Finalize the proposed system on steering committee 3-9 Summarize recommendation and future direction or	factual Experts	
proposed system	Plan ANRE	
Duration / Phasing	Actual	
Monitoring Plan	Plan         2017         2018         2019         2020         2021         2022           Actual         I         I         I         II         III         IIII         III         IIII         IIII         IIII         IIII         IIII         IIII         IIII         <	
Monitoring		
Joint Coordinating Committee Set-up the Detailed Plan of Operation	Actual Actu	
Submission of Monitoring Sheet		
Monitoring Mission from Japan	Actual Plan	
Joint Monitoring	Pin	
Post Monitoring Reports/Documents	Actual	
Inception Report	Plan Actual	
Progress Report	Plan	
Project Completion Report Public Relations	Actual	
	Plan	
	Actual Actu	

No.	Project position	Position	Name	Related output
1	Project Director	Chief Executive Officer, MNRE	Ms. Lealaisalanoa Frances Reupena	All
2	Project Manager	Assistant CEO, MNRE	Mr. Seumalo Afele Faiilagi	All
3	Counterpart	Principal solid waste management officer	Mr. Setoa Apo	All
4	Counterpart	Principal chemical & hazardous waste management officer	Ms. Fiasosoitamalii Siaosi	All
5	Counterpart	Senior waste policy & planning officer	Ms. Faatamalii Meredith	All
6	Counterpart	Senior chemical & hazardous waste management officer	Mr. Darren Bartley	All
7	Counterpart	Senior landfill officer	Mr. Fualaga Pemita	All
8	Counterpart	Waste policy & planning officer	Ms. Bhavana Sanele	All
9	Counterpart	Landfill officer	Mr. Falaniko Tino	All

### List of Counterpart Personnel of SAMOA, version 3

Note: Counterpart personnel will be added as the need arises for the smooth and effective implementation of the Project

### 5.3 List of participants

		list for 3 rd Joint Coordinating Comm 22nd June 2022 at TATTE CONVEN		
No	Name	Organization Position	Contact	Signature
1	Frances Relipping	CED	67700	PERceip 1
2	Janinho Afeli	MLO	6700	init)
3	AYAKO YOSHIDA	JPRISM/JICA	7276983	古四陵了
4	Evangeline Potifara	JPRISM /514A	7664525	Đ.
5	Charles . Belli	MCR	7763649	Hund
	Yumiko ASA ASAKUMA	JICA	22572	
1	Shoichi Iwata	5109	22572	~
8	Rebecca Nun Yan	JICA	22572	AN-
7	August Alice	MPE	34500	A.
10	Minura Satoru	JPRISM	7770463	25

### Participants list for 3rd Joint Coordinating Committee (JCC3) on J-PRISM II 22nd June 2022 at TATTE CONVENTION CENTER

lo	Name	Organization Position	Contact	Signature
11	WATA SHOLOGE,	TICA	17001252	E
12	fiasosoitandi Jassi	MNRE-DEC	67200	Ð
13	Fuelasa. Perita.	MNRE - DEC	22281	AP.
14	Darren Bartley	MNRE - DEC	6720 "	D.
15	Hiroshi TSURUTA	J-PRISM Export	7586762	静日
16	Seton Apo	PSWMU DEC	7717975	5000
	Bhavana Sande	WPPO	7758172	Blanch
	,			

Participants list for 3rd Joint Coordinating Committee (JCC3) on J-PRISM II 22nd June 2022 at TATTE CONVENTION CENTER (Participants from Web meeting)

No	Name	Organization Position
1	Mr. Koji Maeshima	ЛСА Head Quarter
2	Mr. Faafetai Sagapolutele	J-PRISM, Project Office
3	Mr. Shinnosuke Oda	J-PRISM, Short Term Expert
4	Ms. Atsuko Orimoto-Etheridge	Terminal Evaluation Team
5	Mr. Junji Anai	J-PRISM, Short Term Expert
6	Ms. Mistuko Nakamaura	J-PRISM, Short Term Expert
7	Ms. Laisani Lewanavanua	J-PRISM, Senior Technical Assistant (Fiji)

Annex F : Attachment for Republic of Fiji

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	5.3.2 3 rd JCC

### 1 Lists of Project outputs and related documents

No	Title of outputs/documents	Creation date	Summary
1	2nd JCC Meeting Documents	Nov. 2020	Documents which show the purpose of the JCC, progress & issues of each output, and changes of PDM
2	Finalized Solid Waste Management Plans	Aug 2022	Solid waste management plans for the next 10 years submitted by 13 councils in 2019 and finalized in 2022.
3	Monthly monitoring report	1st and 2nd quarter, 2022	Quarterly monitoring reports prepared by local governments and submit to DLG
4	Documents of workshop for waste collection service expansion in rural areas	May 2021	Workshop program, presentation materials, and minutes of the meeting
5	Survey report on beverage business establishments	May 2021	Report of an interview survey on beverage business establishments
6	Survey report on recycling establishments	May 2021	Report of an interview survey on recycling establishments
7	Report of follow-up hearing survey on monthly monitoring results	July 2021	Result of hearing survey on the collection systems, in particular rural areas
8	Report of Waste Amount and Composition Survey in Suva and Lautoka	May 2022	Result of WACS survey in April and May in Suva and Lautoka
9	Documents of workshop for SWM quantitative data management	May 2022	Workshop program, presentation materials, and minutes of the meeting
10	3rd JCC Meeting Documents	Sep 2022	Documents which show the purpose of the JCC, progress & issues of each output, and changes of PDM

Table 1-1 Lists of Project outputs and related documents (Fiji)

### 2 Inputs and Work schedule

### 2.1 Inputs

### 2.1.1 **Dispatch of Japanese experts**

No.	Name	Exporty	Dispatc	h period	PM
INO.	Name	Experty	Start date	End date	PM
1	Shinnosuke	Team Leader/	2021/3/9	2021/5/23	1.03*
	Oda	SWM D1	2021/11/20	2021/12/18	0.97
			2022/2/12	2022/2/28	0.57
			2022/5/10	2022/6/30	0.87
			2022/8/10	2022/8/26	0.53
2	Junji Anai	Sub Team leader / SWM D2	2021/3/9	2021/5/23	0.50*
3	Mitsuko	Capacity	2021/11/20	2021/12/18	0.97
	Nakamura	Development E	2022/6/24	2022/7/22	0.97**
4	Keiko Kani	SWM H	2021/12/4	2021/12/18	0.50
			2022/5/21	2022/6/4	0.50
			2022/8/12	2022/8/27	0.53
3	Hiroshi Tsuruta	SWM G	2021/3/9	2021/5/23	0.47*
Tota					8.41

*The person-months shows the total length of the stay in Fiji and it includes a certain periods used for another JICA project

**The person-months shows the total length of the stay in Fiji and it includes a certain periods used for activities in other J-PRISM countries ***Work in Japan is separately summarized.

### 2.1.2 Acceptance of trainees

There was no acceptance of trainees.

### 2.2 Work schedule

Activities	Plan		2017			2018			2019	_			2020			2021	21		20	2022	
Sub-Activities	Actual			2	I	H H		H	H	н Н	и И		Ħ	8	I	Ħ	Ħ	B		н н	Ħ
Output 1: By the initiative of Department of Local Government, Evidence-based policy making for waste management	/idence-	Jasec	polic	:y maki	ng for	waste	mana	gemer	tt of loc	al gov	/ernn	nent is	; pron	noted	of local government is promoted based	1 on 3	on 3R concept	cept		-	
1-1 Conduct baseline survey (Population, Boundary maps, Financial	Plan																				
status, waste characterization survey, Conection coverage, or activities) for local government waste management plan	Actual																				
	Plan																				
1-2 Analyze the result of paseline survey	Actual			 																	
1-3 Prepare the form of local government waste management plan based on baseline survey (supposed to include those goals:	Plan																				
Collection coverage of rural, finance the waste management service, procurement plan of trucks)	Actual																				
1-4 Conduct the workshop to present the result of base-line survey	Plan																				
and training for local government waste management plan	Actual																				
4. E. E. och souristif formulate works management slav	Plan																				
	Actual																				
1-6 Monitor the implementation progress of local government waste	Plan																				
management plans	Actual																				
1-7 Conduct the workshop for sharing the progress of local	Plan																				
government waste management plans	Actual																				
1-8 DLG evaluate and decide the policy based on the progress of	Plan																				
local government waste management plans	Actual																				
Output 2: Pilo	Pilot study(s) for 3R + Return program are implemented	s) for	3R-	F Retui	rn pro	ogram	are in	nplem	ented.												
2-1 Identify the issues and challenges of 3R+Return activity in Fiji	Plan																				
	Actual																				
2.3 Ecrimitate alance for ailet attribute	Plan																				
	Actual																				
2-3 Conduct pilot study(s) such as development of database on	Plan																				
packaging containers and various options of 3R+Return activity	Actual							 													
2-4 Summarize the results of pilot study (s) with recommendations for	Plan																				
options of 3R+R activity	Actual					 															

### 3 Work flow chart

## 3.1 Work flow chart based on PO1

												agement plans	te management plans					
3rd Term	2020 2021 2022	6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3			inagement plan based on baseline survey	H-1.4. Conduct the workshort the result of base line survey and rishing for fixed laws the management of an		Each council form whate wastermanagement plan		H-1-6 Monitor the implementation progress of local government waste management plans		H-1-7 Conductifie workshop for sharing the progress of local government weste management plans	H-1-8 DLG evaluate and decide the policy based on the progress of local government waste management plans		the current situation		H-2.3 Conduct pilot study [6] such as beved priment of fatabase of packaging container and various options of 3R+ perturn activity	H-2-4 Summa ize the results of pilots tudy (s) with reformmend ations for options bri 38 R a cevity
2nd Term	2018 2019	6         7         8         9         10         11         12         1         2         3         4         5         6         7         8         9         10         11         12         2         3         4         5         6         7         8         9         10         11         12         1         2         3         4         5	H-1-1 Conduct baseline survey	H-1-2 Analyze the result of baseline survey	H-1-3 Prepare the form of local government waste management plan based on baseline survey.	H-1-4 Conduct the workshow to research the		H-1-5 Each council for							H-2-1 Identify the issues and challenges of 3R+Return activity in Fijl based on the jcurrent stribation	H-2-2 Formulate plans for plinet study(s)	H-2-3 Conduct pilot study (s) such as development of dat	H-24 Summarizettle respire
1st Term	2017	3 4 5 6 7 8 9 10 11 12 1 2 3 4 5																
Term	Year	Month					H. Activities in Fiji	[Output 1]By the initiative of	Lepartment of Local Governmet	Evidence-based policy making ror waste management of local	government is promoted based on	3R concept Criterit 3 Dilot studule) for radional	3R + Return program are	Induation.				

## 3.2 Work flow chart based on PO2

																1-7 Conduct the works boo for sharing the progress of local dowert ment waste mains as ment nia re		1-8 DLG evaluate and decide the policy based on the progress of local government waste								2-4 Summarizethe results of pilot study (s) with recommendations for	
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		8	-							 				nentpla		n for ch	-	luate an	nt plans						arious	4 Sumr	ptionso
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	2020	7		e survey (Population, Boundarymaps, Financial sta <mark>tus, Waste characterization survey, Colection coverage, 3R activities) for flocal government</mark>				the second second	1-3 Frepare ure rollingi produktion in the summer of the stranger frequencies of the sum wey	 1-4 Conductifie workshop to present the result of base-line survey and training for local government waste management plan			t,	1-6 Monitor the implementation progress of local government waste management plans							2-1 Identify the issues and challenges of 3R+Return activity in Fiji based on the current situation	h			2-3 Conduct pilot study(s) such as development of database on packaging containers and various options of 3R+Return activity		
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Term	Year	Month								H Activities in Fill	Output 1. Du the initiation of	Department of Local	Government, Evidence-based	policy making for waste	management of local	government is promoted	Dased on 3K	Output 2: Pilot study(s) for 3R	+ Keturn program are	implemented.							

# After the project was extended to September 2022

	2022	8 9 10 11 12 1 2 3 4 5 6 7 8 9	1-1 conduct WACS								ementplans		1-7 Conduct the workshop for sharing the progress of local government was telmanagement plaris	1-8 DLG evaluate and decide the policy based on the progress of local government waste	ent plans				various options of 3R+Return activity	2.4 Cimmonia the results of ailatetudy (c) with recommondationsfor	
Third Term	2020 2021	5 6 7 8 9 10 11 12 1 2 3 4 5 6 7	verage, 3R activities) for local government		ased on baseline survey	Condict the workshop to present the result of hase-lines urvey and training for local provernment was to management of an		tolan			1-6 Monitor the implementation progress of local government waste management plans		1-7 Conduct the works	1-8 DIG ev	management plans		2-1 Identify the issues and challenges of 3R+Return activity in Fijl based on the current situation	(5)	2-3 Conduct pilot study(s) such as development of database on packaging containers and various of 30+Return activity		
Second Term	2019 2019	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         1         2         3         4         1         1         12         1         2         3         4         1         1         11         12         1         2         3         4         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         <	1-1 Conduct baseline survey (Population, Boundary maps, Financial stabus, Waste pharakteriz bion jurvey. Collection coverage, 3R a divitite) for local government	1-2 Analyze the result of the survey	1-3 Prepare the form of local government waste management of local government waste	14 Conduct the workshod to present the result of t		1-5 Each council form lists waste management of an									2-1 Identify the issues and challenges of	2.2 Formulate plans for pliot studyls			
First Term	2017	3 4 5 6 7 8 9 10 11 12 1 2 3 4 5												×							
Term	Year	Month					H. Activities in Fiji	Output 1: By the initiative of Department of I cool	Construct Diidence based	OVELINITIE III, EVIDERICE-DASEC	policy making for waste	management of local	based on 3R	Output 2: Pilot study(s) for 3R	+ Return program are	implemented.					

### 4 Changes of PDM

PDM2 was approved at the 2nd JCC Meeting held on November 25, 2020. There was no change of PDM at the third JCC meeting.

### 4.1 **Project Purpose**

PDM1	PDM2
Project purpose	
Solid waste is managed appropriately based on the National Waste Management and Pollution Control Strategy 2018-2028	No change
Objectively Verifiable Indicator	
<ol> <li>Waste management plan of 8 municipal councils is formulated.</li> <li>Waste management indicators in NWMPCS 2018-2028 are figured out in Local government waste management plans.</li> </ol>	No change
3 . Roadmap for waste management coverage to rural area is identified based on Local government waste management plan	

### 4.2 Outputs, Indicator and Activities

### 4.2.1 Output 1

PDM1	PDM2
Output 1	
By the initiative of Department of Local Government, Evidence-based policy is promoted based on 3R concept	No Change
Objectively Verifiable Indicator	
<ol> <li>Format of Local Government Waste Management Plan is developed.</li> <li>Training for developing Local Government Waste Management Plan is conducted by the initiative of DLG.</li> <li>Functional PDCA cycle for waste management between Department of Local Government and municipal councils is identified.</li> </ol>	No Change
Activities	
<ul> <li>1-1 Conduct baseline survey (Population, Boundary maps, Financial status, Waste characterization survey*1, Collection coverage, 3R activities) for local government waste management plan</li> </ul>	No Change
1-2 Analyze the result of baseline survey	

Phase II (Group 2) Project Completion Report (3rd Term)

PDM1	PDM2
Activities	
1-3 Prepare the form of local government waste management plan based on baseline survey (supposed to include those goals: Collection coverage of rural, finance the waste management service, procurement plan of trucks)	No Change
1-4 Conduct the workshop to present the result of base-line survey and training for local government waste management plan	
1-5 Each council formulate waste management plan	
1-6 Monitor the implementation progress of local government local government waste management plans	
1-7 Conduct the workshop for sharing the progress of waste management plans	
1-8 DLG evaluate and decide the policy based on the progress of local government waste management plans。	

### Output 2 4.2.2

PDM1	PDM2
Output 2	
Pilot study(s) for regional 3R + Return program are implemented.	Pilot study(s) for 3R + Return program are implemented.
Objectively Verifiable Indicator	
2-1 Recommendations for options of regional 3R+Return program are made.	2-1 Recommendations for options of 3R+Return program are made.
Activities	
2-1 Identify the issues and challenges of 3R+Return activity in Fiji based on the current situation	Not Change
2-2 Formulate plans for pilot study(s)	
2-3 Conduct pilot study(s) such as development of database on packaging containers and various options of 3R+Return activity	
2-4 Summarize the results of pilot study (s) with recommendations for options of 3R+R activity	

### 5 JCC

### 5.1 JCC Program

### 5.1.1 2nd JCC

- Date: 25th November 2020
- Time: 13:45 16:25
- Venue: Albert Park Pavilion
- Agenda

Time	Agenda	Presentator
13:45-13:50	Opening remarks	Mr. Joshua Wycliffe Permanent Secretary, Ministry of Waterways & Environment
13:50-13:55	Remarks from JICA Fiji Office	Ms. Yukari Ono Resident Representative
13:55-14:05	Outline of J-PRISM II activities	Mr. Shinnosuke Oda JICA Expert
14:05-14:45	OUTPUT1 Briefing Waste Management Master Plan as drafted	Representatives of Councils (Suva, Lautoka, Nadi, Levuka)
14:45-14:55	Presentation for points of discussion on OUTPUT1	Mr. Shinnosuke Oda JICA expert
14:55-15:05	Discussion	Chaired by PS
15:05- 15:20	Tea Break	
15:20-15:35	OUTPUT2 Survey Progress	Representative from DOE
15:35-15:45	Presentation for points of discussion on OUTPUT2	Mr. Shinnosuke Oda JICA expert
15:45-15:55	Discussion	Chaired by PS
15:55-16:05	Briefing proposed PDM(Project Design Matrix), PO(Plan of Operation) & Counterparts nomination	Mr. Shinnosuke Oda JICA Expert
16:05-16:15	Discussion	Chaired by PS
16:15-16:20	Signing of MM	
16:20-16:25	Closing Remarks	Ms Dimity Fifer Permanent Secretary, Ministry of Local Government
	End of Program	

### 5.1.2 3rd JCC

- Date: 5th September 2022
- Time: 13:30-16:30
- Venue: Suva Civic Centre Hall
- Chairperson Ms. Bindula Devi (Director of Local Government)
- Agenda

Time	Agenda	Presentator
1. 13:30-13:40	Opening remarks	Ms. Bindula Devi Director of Local Government
2. 13:40-13:50	Outline of J-PRISM II activities	Mr. Shinnosuke Oda JICA Expert
3. 13:50-15:10	OUTPUT1 Launching Waste Management Master Plan from Municipal Councils	Representatives of Councils (13 municipal councils)
4. 15:10-15:20	Certificate Handing Out to Municipal Councils	Ms. Laisani Lewanavanua Project Assistant
5. 15:20-15:30	Coffee and Tea Break	
6. 15:30-15:40	Briefing the output of projects	Mr. Shinnosuke ODA, JICA expert
7. 15:40-15:50	Presentation about J-PRISM Phase 3	JICA HQ
8. 15:50-16:15	Discussion	
9. 16:15-16:30	Closing Remarks from JICA Fiji Office	Ms. Mayumi Amaike Resident Representative

### 5.2 Minutes of Meeting

### 5.2.1 2nd JCC

**MINUTES OF MEETINGS** ON THE SECOND JOINT COORDINATING COMMITTEE OF THE JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTRIES PHASE II (J-PRISM II) IN

### THE REPUBLIC OF FIJI

Suva Fiji, 25th November 2020

Mr. Shinnosuke Oda Team Leader, JICA Expert G2 Team, J-PRISM II

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Co-Project Director V Permanent Secretary for Waterways & Environment

Ms. Dimity Fifer

Co-Project Director Permanent Secretary for Local Government

Witnessed by:

Ms. Yukari Ono Resident Representative Fiji Office Japan International Cooperation Agency

### Main Points Discussed

The chairperson, Mr. Joshua Wycliffe, proceeded the meeting in accordance with the program in Appendix 2. All the attendances agreed and confirmed the following matters;

### 1. Co-Project Director

JCC understood the project shall be directed by Co-Project Director because Department of Environment (DOE) is transferred to Ministry of Waterways and Environment from Ministry of Local Government. Permanent Secretary for Ministry of Waterways and Environment is continuously assigned as the Co-Project Director as a representative from DOE, and Permanent Secretary for Ministry of Local Government is assigned as the Co-Project Director as a representative from DOE, and a representative from Department of Local Government (DLG).

### 2. Co-Project Manager

JCC understood the project shall be managed by Co-Project Manager as same reason with Co-Project Director. Director of Environment is assigned as Co-Project Manager for DOE, and Director of Local Government is assigned as Co-Project Manager for DLG.

### 3. Modification of PDM and PO

JCC understood and approved the modification of The Project Design Matrix (PDM) and Plan of Operation (PO) as version two (2) shown as ANNEX I and ANNEX II, respectively. Project time line is rescheduled to take into consideration of delay due to COVID-19. Record of discussion of the Project will be modified accordingly in timely manner.

### 4. List of Counterparts and Project Organization Chart

JCC understood and approved the modification of Project Organization Chart and Counterparts list in accordance with the contents of PDM version two (2) shown as ANNEX III and ANNEX IV, respectively.

### 5. Progress of activities

to b

JCC understood and acknowledged the progress of activities presented at the meeting including draft waste management master plan and monitoring sheet.

ANNEX I:	Project Design Matrix version two
ANNEX II:	Plan of Operation version two
ANNEX III:	Project Organization Chart version one
ANNEX IV:	Counterpart list version two

on

	Project Design Matrix ( version 1)	tix ( version 1)	ANNEXI
<u>oject Title: Japanese Technical Cooperation F</u>	Project Title: Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Involvmenting According According of Local Generation (DLG) Dependent of Environment (DOE)	Project Title: Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (J-PRISM II) Inclomenting Annual: Description of Local Generation (DLG) Description of the Invironment of Countries Phase II	e II (J-PRISM II)
Implementing Advincements of DLG, DOE and Local Governments Periode groups: 2018-2022.	cal Governments		Version: 2 Dated: 25 Nov 2020
Country: The Republic of Fiji			
Narrative Summary	Ubjectively Verifiable Indicators	Means of Verification	Important Assumption
Sustain used Sustainable management of solid waste in the Pacific region is enhanced based on Pacific Regional Waste and Pollution Management Strategy 2016 – 2025 (Cleaner Pacific 2025).			
Project Purpose			
(Regional) Human and institutional capacity base for sustainable Solid Waste Management (SWM) in the Pacific region is strengthened through implementation of Cleaner Pacific 2025.			5
(Fiji) Solid waste is managed appropriately based on the National Waste Management and Pollution Control Strategy 2018-2028	<ol> <li>Waste management plan of 8 municipal councils is formulated.</li> <li>Waste management indicators in NWMPCS 2018- 2028 are figured out in Local government waste management plans.</li> <li>Roadmap for waste management coverage to rural area is identified based on Local government waste management plan</li> </ol>	<ol> <li>Waste management plans formulated</li> <li>Waste management plans formulated</li> <li>Waste management plans formulated</li> </ol>	
Outputs			
initiative of Department of Local nent, Evidence-based policy is promoted n 3R concept	<ol> <li>1-1 Format of Local Government Waste Management Plan is developed.</li> <li>1-2 Training for developing Local Government Waste Management Plan is conducted by the initiative of DLG.</li> </ol>	<ul> <li>1-1 Format developed</li> <li>1-2 Training reports</li> <li>1-3 Flowchart for PDCA cycle identified</li> </ul>	
	1-3 Functional PUCA cycle for waste management between Department of Local Government and municipal councils is identified.		
2. Pilot study(s) for 3R + Return program are	2-1 Recommendations for options of 3R+Return	2-1 Pilot study reports	

 Project for Promotion of Regional Initiative on
 Japan International Cooperation Agency (JICA)

 Solid Waste Management in Pacific Island Countries
 Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd.

 Phase II
 (Group 2) Project Completion Report (3rd Term)

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Budget of DLG and councils are allocated conduct the activities in timely manner Counterpart personnel do not leave the post without handing over the skills/ knowledge to the new staff. 2. National 3R policy does not drastically Pre-conditions 1. NWMPCS 2018-2028 does not Important Assumption frastically changed. changed. Office space and facilities for Japanese experts 3. Operational expenses for administrative work, ansportation, training, and seminar The Fiji Side 1. Allocation of counterpart Inputs 3. Local cost for the activities of experts The Japanese Side . Dispatch of experts 2. Training 2-3 Conduct pilot study(s) such as development of Waste characterization survey will be conducted by Fiji side 1-4 Conduct the workshop to present the result of 1-8 DLG evaluate and decide the policy based on coverage of rural, finance the waste managemen base-line survey and training for local governmen 1-6 Monitor the implementation progress of local database on packaging containers and various options of 3R+Return activity 2-4 Summarize the results of pilot study (s) with recommendations for options of 3R+R activity Boundary maps, Financial status, Waste characterization survey*1, Collection coverage, 3R activities) for local government waste 1-3 Prepare the form of local government waste waste management plan 1-5 Each council formulate waste management 3R+Return activity in Fiji based on the current management plan based on baseline survey (supposed to include those goals: Collection 1-7 Conduct the workshop for sharing the 1-1 Conduct baseline survey (Population, management plan 1-2 Analyze the result of baseline survey 2-1 Identify the issues and challenges of the progress of local government waste progress of waste management plans 2-2 Formulate plans for pilot study(s) service, procurement plan of trucks) government local government waste Activities nanagement plans nanagement plans situation plan

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Plan of Operation (PO)

ANNEX II version 2 dated: 25/11/2020

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on the current situation     Actual	
2-4 Summarize the results of pilot study (s) with recommendations for Plan	
options of 3R+R activity	

### 5.2.2 3rd JCC

### MINUTES OF MEETINGS ON THE SECOND JOINT COORDINATING COMMITTEE OF THE JAPANESE TECHNICAL COOPERATION PROJECT FOR PROMOTION OF REGIONAL INITIATIVE ON SOLID WASTE MANAGEMENT IN PACIFIC ISLAND COUNTRIES PHASE II (J-PRISM II) IN THE REPUBLIC OF FIJI

Suva Fiji, 5th September 2022

Mr. Shinnosuke Oda Team Leader, JICA Expert G2 Team, J-PRISM II Mr. Joshua Wycliffe Co-Project Director Permanent Secretary for Waterways & Environment

Mr. Shaheen Ali Co-Project Director Acting Permanent Secretary for Local Government

Witnessed by:

Ms. Mayumi Amaike Resident Representative Fiji Office Japan International Cooperation Agency

### Main Points Discussed

The chairperson, Ms.Bindula Devi, proceeded the meeting in accordance with the program in Appendix 2. All the attendances agreed and confirmed the following matters;

1. Progress and result of activities

JCC understood and acknowledged the progress and results of activities presented at the meeting including draft waste management master plan and monitoring sheet.

ANNEX I:Project Design Matrix version twoANNEX II:Plan of Operation version threeANNEX III:Project Organization Chart version oneANNEX IV:Counterpart list version three

ANNEX I mportant Assumptio 5 Nov Project Title: Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phase II (J-PRISM II). Version: 2 Dated: 5 No 1. Waste management plans formulated 2. Waste management plans formulated 3. Waste management plans formulated 1-2 Training reports 1-3 Flowchart for PDCA cycle identified ans of Ve 2-1 Pilot study reports 1-1 Format developed Project Design Matrix (version 1) Implementing Agency: Department of Local Government (DLG), Department of Environment (DOE) 1. Waste management plan of 8 municipal councils is I-1 Format of Local Government Waste Management Roadmap for waste management coverage to rural 1-2 Training for developing Local Government Waste .. Waste management indicators in NWMPCS 2018area is identified based on Local government waste I-3 Functional PDCA cycle for waste management Management Plan is conducted by the initiative of 2028 are figured out in Local government waste between Department of Local Government and 2-1 Recommendations for options of regional 3R+Return program are made. Objectively Verifiable Indicators nunicipal councils is identified. nanagement plans. Target group: Counterparts of DLG, DOE and Local Governments nanagement plan Plan is developed. formulated. DLG. Government, Evidence-based policy is promoted based on 3R concept (Fiji) Solid waste is managed appropriately based on the National Waste Management and Pollution Control Strategy 2018-2028 sustainable Solid Waste Management (SWM) in inable management of solid waste in the Regional Waste and Pollution Management Strategy 2016 – 2025 (Cleaner Pacific 2025) Pilot study(s) for 3R + Return program are acific region is enhanced based on Pacific he Pacific region is strengthened through mplementation of Cleaner Pacific 2025. luman and institutional capacity base for .By the initiative of Department of Local Narrative Summary Period of Project: 2018 -2022 ountry: The Republic of Fiji roject Purpose implemented Regional) utputs N

Budget of DLG and councils are allocated conduct the activities in timely manner 2. National 3R policy does not drastically Counterpart personnel do not leave the post without handing over the skills/ 1. NWMPCS 2018-2028 does not Important Assumption Pre-conditions knowledge to the new staff. Irastically changed. changed. Office space and facilities for Japanese experts Operational expenses for administrative work, ransportation, training, and seminar The Fiji Side 1. Allocation of counterpart e. 3. Local cost for the activities of experts The Japanese Side . Dispatch of experts . Training Waste characterization survey will be conducted by Fiji side 2-2 Formulate plans for pilot study(s) 2-3 Conduct pilot study(s) such as development of database on packaging containers and various progress of waste management plans 1-8 DLG evaluate and decide the policy based on the progress of local government waste 1-4 Conduct the workshop to present the result of base-line survey and training for local government coverage of rural, finance the waste management I-6 Monitor the implementation progress of local 1-3 Prepare the form of local government waste 2-4 Summarize the results of pilot study (s) with characterization survey*1, Collection coverage, I-5 Each council formulate waste management 2-1 Identify the issues and challenges of 3R+Return activity in Fiji based on the current ecommendations for options of 3R+R activity management plan based on baseline survey (supposed to include those goals: Collection -7 Conduct the workshop for sharing the I-1 Conduct baseline survey (Population, Boundary maps, Financial status, Waste 3R activities) for local government waste 1-2 Analyze the result of baseline survey government local government waste service, procurement plan of trucks) options of 3R+Return activity Activitie waste management plan nanagement plans nanagement plans nanagement plan situation an

Version 3 Dated: 5/9/2022 Project Title: Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries Phasell (J-PRISM II)

**ANNEX II** 

Activities	Plan				-	3	2018	—		2019	6		1	7020		_	~	2021		_	2022	~
Sub-Activities	Actual	1	пп	ш	1 I	Η	Ħ	N	I	н	ш	N	ш	H .	N	I	Π	Ξ	Δ	I	Π	Ξ
Output 1: By the initiative of Department of Local Government, Evidence-based policy making for waste management of local government is promoted based on 3R concept	Evidence	e-bas	ed pe	licy n	nakin	g for w	aste m	anag	emer	tt of I	ocal g	overr	ment	is pr	omot	ed ba	ased o	on 3F	con	sept		
1-1 Conduct baseline survey (Population, Boundary maps, Financial	Plan																					
status, waste characterization survey, collection coverage, 3K activities) for local government waste management plan	Actual																					
	Plan																					
I-2 Analyze the result of baseline survey	Actual																					
1-3 Prepare the form of local government waste management plan based on baseline survey (supposed to include those goals: Collection	Plan																					
coverage of rural, finance the waste management service, procurement plan of trucks)	Actual																					
1-4 Conduct the workshop to present the result of base-line survey	Plan																					
and training for local government waste management plan	Actual																					
	Plan		 																			
I-5 Each council iomnuate waste management plan	Actual																					
1-6 Monitor the implementation progress of local government waste	Plan				_							_									_	
management plans	Actual																					
1-7 Conduct the workshop for sharing the progress of local	Plan		-	_						_												
government waste management plans	Actual																					
1-8 DLG evaluate and decide the policy based on the progress of local	Plan																					
government waste management plans	Actual																					
Output 2: Pilot study(s) for 3R + Return program are implemented.	lot study	r(s) fc	or 3R	+ Re	turn	progr	am are	imp	leme	nted			3									
2-1 Identify the issues and challenges of 3R+Return activity in Fiji	Plan			_																_		_
based on the current situation	Actual																					
2.2 Ecrimitate alone for allot chink (c)	Plan																					
2-2 I OIIIIUIUU DIUI DIUI DIUU SUUDA 3)	Actual																					
2-3 Conduct pilot study(s) such as development of database on	Plan																					
packaging containers and various options of 3R+Return activity	Actual																		_			
2-4 Summarize the results of pilot study (s) with recommendations for	Plan																					
					-		-	F					ŀ	F								

Actual

options of 3R+R activity

### 5.3 List of participants

### 5.3.1 2nd JCC

	J-PR	RISM II 2 nd Joint Coordinating		ing held on 25. 11. 2020,	
		<u>1</u> .	<u>00pm to 4.00pm</u>		
		Att	tendance Register		
	No.	Name	Organization	Designation	
	1	Vineel Kumar	Ministry of Economy	Policy Analyst,	
	2	Rezity Raj	MOE	Budget andyd	
	3	Ronika Mishra	Bil	Horth Ingactor	
	4	Shameel Rom	Nasinu Town Council	Health Inspector	
	5	Mufecd Shah	Nasing Tocon (our		upervisor
	6	Siliveni. Cakamitab			~
	7	LOSALINI. BAIKERBWA		on Health Inspector	
1	8	Seini L. Ubitau	Labasa Town Council	Asst. Health Inspector	
	9	Semi V. Waga	Nausori Town Council	Asst Health Inspector-	
	10	Luke Bakinabuli	Levente tops land		2
	11	Shalond p Singh	Laufole Gty Council	Senior Health Inspec	
	12	TAITO R. WASAIYAA			f .
	13	Alexina Maitaca	Nausun Tunkeney	Engineering Dpt.	
	14		Cani Tam Connal	still 2 relidence (FOM	
	15	Muhelle Baleikaracea	M. OEncivorment	Meligrane LEOM	vareners)
	16	Miliakere Kovoijiuta	Local Gurt	SAO Multon + PS	
	17	Joshua Wycliffe Graig Powell	RS MIN OF THUI	Whent IS	
	18	Graig Powell 1200 Talemaibus		IRY	
	20	Peineli Sivo	Min of Local Govt	my fold	
	21	Sandery Singl	DOE DOE	Director	
)	22	Derne	DOF	TEO	
2.44 ⁽²⁾	23	Dimity Fifer	Rocal Growt	PS. Lorcal 60.	
		Mohammed Anexis Khan	LCC	C.E.O.	
	25	# Mr. Taisula Iwano			
	26	Ms Yukari ONO	Embassy of Japan J.I.C.A	Resident Representation	e
	27		V	Deputy	
	28	Mr. Ring KURUMBAWA	$\checkmark$	Assistant	] ]
	29	Ms. Ilisapeci Bai	J-PRISM	Project Assistant	].
	30	Nila Masad	JILA	Program off	er l
	31	Tevite Tuibau	Economic offic	MOEconorth	
	32	Atesh Lal	Nausoni "	Assistant Hi	alth
	33,		Town connid	Inspector	
	34	9 Senii waga	V		
		1			1h
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					$\wedge$

### 5.3.2 3rd JCC

	<b>Ř</b>			PRTSM
		nical Cooperation Proj Management in Pacific		
		3rd Joint Coordinat	ion Committee in Fi	IJ
C	ate: Monday, 5 S	eptember 2022	Venue: Suva Ci	vic Centre Lower Hall
		REGISTRA	TION FORM	
NO.	NAME	DESIGNATION	ORGANISATION	SIGNATURE
1	Vauling Nasewe	Accustant Health Inspector	Sigatoka Tavn Cancil	Abgene.
2	Snyad Shah	Presistant Health Inspector	Sigatoka Tour Council	Ah
3	Arishna Ashmita Chand	Health Inspector	Laboba Town Council	Bled
4	Shalend	SHE	1.00	2
5	Rouhit Ic Singh	197	Vel	RIL
6	Seveni	Health Inspector	Rakiraki/ Tavua Town	AB.
7	Nirvi Lal	3R officer	Rakiraki town Counci)	Ale
8	Nischer 1 Kumeir	3R Officer	Tavua Town Council	Denne
9	Salassage	twinnet officer	hendre Tom	Dongula
10	Gwynneth Chan	Environment officer	Savisavi Town council	Stom.
11	Mana Vulan	21 Health Educat	r Scc	Whilesel.

Project for Promotion of Regional Initiative on Japan International Cooperation Agency (JICA) Solid Waste Management in Pacific Island Countries Kokusai Kogyo Co., Ltd. • Yachiyo Engineering Co., Ltd. Phase II (Group 2) Project Completion Report (3rd Term)

NAME DESIGNATION ORGANISATION SIGNATURE NO 12 SAB MIG eppel.S 13 MIG DIG la Den 14 Lami TC HI Geleina M 15 Compost officer Schveni.V .. 16 Ba To HI Gemi W. 17 Muni Ressy ACEO Nadi TC 18 Nafiza Ali SHI 11 19 Assistant Andma Labasa TC HI 20 Nasing TC esalini HI 21 Nauson TC Azan HT 22 23 24 25 26

### LIST OF PARTICIPANTS - JPRISM II JCC WORKSHOP

### (JICA SIDE)

NO		DESIGNATION	ODCANUZATION	
NO.	NAME.	DESIGNATION	ORGANIZATION	
1	Mayumi Amaike	Resident Representative	JICA FIJI OFFICE	
2	Makumo Iwatani	Assistant Resident	JICA FIJI OFFICE	
		Reperesentative		
3	Takashi Oba	Assistant Resident	JICA FIJI OFFICE	
		Reperesentative	34 1995.	
4	Nila Prasad	Senior Program Officer	JICA FIJI OFFICE	
5	Shiho Watanabe	Volunteer Coodinator	JICA FIJI OFFICE	
6	Iori Yasuda	Volunteer Coodinator	JICA FIJI OFFICE	
7	Liki Finauga		JICA FIJI OFFICE	
8	Shinnosuke Oda	Waste Management	J-PRISM 2	
		Expert		
9	Laisani Lewanavanua	Project Assistant	J-PRISM 2	
10				
11	Shiro Amano	J-PRISM 3 Detail Design	JICA HQ	
		Survey team	-2	
12	Koji Maeshima	J-PRISM 3 Detail Design	JICA HQ	
		Survey team		
13	Issei Hamana	J-PRISM 3 Detail Design	JICA HQ	
		Survey team	10 (AD	
14	Atsuko Orimoto	J-PRISM 3 Detail Design		
		Survey team		
PART	ICIPANTS VIRTUALLY		40 40	
1	Satoru Mimura	Chief Advisor	J-PRISM 2	
2	Faafetai Sagapolutele	Deputy chief advisor	J-PRISM 2	
3	Ayako Yoshida	Regional Cooperation	J-PRISM 2	
4	Keiko Kani	Waste Management	J-PRISM 2	
		Expert		

### Annex G : Attachment on Input for Work in Japan

### Table of Contents

1	Input for Work in Japan	1
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### 1 Input for Work in Japan

No.	Name	Experty	PM
1	Shinnosuke Oda	Team Leader / SWM D1	4.54
2	Junji Anai	Sub Team Leader / SWM D2	5.17
3	Mitsuko Nakamura	Capacity Development E	4.35
4	Makoto Tsukji	SWM F1	3.23
5	Yoshinosuke Hamada	SWM F2	6.35
6	Rikae Kodani	SWM F3	6.76
7	Hiroshi Tsuruta	SWM G	6.08
8	Hitoshi Katayama	SWM H	3.05
9	Keiko Kani	SWM H	3.77
10	Tetsuo Yatsu	Heavy equipment procurement	0.13
11	Yoshiyuki Nishimura	Preliminary design for landfill	1.00
12	Koji Uzawa	Vehicle Maintenance Training	1.00
Total	45.43		

Following input was made for Work in Japan.