APPENDIX-6 Project Monitoring Report

(First Edition)

Project Monitoring Report
on
The Project for the Improvement of Water Reservoir at Majuro Atoll in the Republic of the Marshall Islands
Grant Agreement No. XXXXXXX

2020, June

Organizational Information

Signer of the G/A (Recipient)	**Ministry of Works, Infrastructure and Utilities (MWIU)** Person in Charge (Designation) Minister, Hon Anthony M. Muller Contacts Address: PO Box 1727, Majuro, Marshall Islands, MH, 96960 Phone/FAX: **** Email: ****
Executing Agency	Majuro Water and Sewer Company (MWSC) Person in Charge (Designation) General Manager, Mr. Joseph Batol Contacts Address: PO Box 1751, Majuro, Marshall Islands, MH, 96960. Phone/FAX: 625-8838 Email: jlbatol@gmail.com
Line Ministry	**Ministry of Works, Infrastructure and Utilities (MWIU)** Person in Charge (Designation) Minister, Hon Anthony M. Muller Contacts Address: PO Box 1727, Majuro, Marshall Islands, MH, 96960 Phone/FAX: **** Email: ****

General Information:

Project Title	The Project for the Improvement of Water Reservoir at Majuro Atoll in the Republic of the Marshall Islands
E/N	Signed date: Duration:
G/A	Signed date: Duration:
Source of Finance	Government of Japan: Not exceeding JPY _____ mil. Government of the Republic of the Marshall Islands (RMI) : Approximately USD 59 thousand

1: Project Description

1-1 Project Objective

The objective of the Project is to increase storage capacity of a rainwater reservoir required for the Water Treatment Plant (WTP) –C.

1-2 Project Rationale

- Higher-level objectives to which the project contributes (national/regional/sectoral policies and strategies)
- Situation of the target groups to which the project addresses

RMI's policy which is related to the Project is shown in the following table.
The Project is to strengthen measures against and the preparation for climate change and related disasters in RMI by improving water security in drought period.

Policies	Relevance to the Project
Vision 2018 (2001)	● Improvement of Access to Safe Water
Agenda 2020 (2017)	● Strengthening water, energy and food security ● strengthening water security (expansion of rainwater reservoir in Majuro)
20-Year Water and Sanitation Strategic Plan (2017)	● Planning construction (commencement in 2022) of new rainwater reservoirs with s total capacity of 46 MG (174,129 m^3): ➢ 16 MG (60,567 m^3) around Majuro Airport ➢ 30 MG (113,562 m^3) around Peace Park
National Climate Change Policy Framework (2011)	● Preparing for protection of water resources against disaster
National Action Plan for Disaster Risk Management 2008-2018 (2007)	● Planning and securing access to safe water
Joint National Action Plan for Climate Change Adaptation and Disaster Risk Management (JNAP) (2013–18)	● Strengthening the resilience of the society across RMI ● Ensuring safe and enough water in drought period
National Water and Sanitation Policy (2014)	● Improving the resilience of infrastructure against climate change and abnormal weather

1-3 Indicators for measurement of "Effectiveness"

Quantitative indicators to measure the attainment of project objectives

Indicators	Original in 2019	Target in 2026
Total number days that water can be supplied to the WTP-C continuously in drought period	55 days	74 days

Qualitative indicators to measure the attainment of project objectives

- Improvement in life quality and public hygiene through water supply service improvement such as reduction of water rationing.
- Making soundness of water circulation due to reduction of intake from fresh lens layer during drought period

2: Details of the Project

2-1 Location

Components	Original *(proposed in the outline design)*	Actual
Construction of a rainwater reservoir for supplying water to WTP-C	East side of Majuro International Airport in Majuro, Majuro Atoll, RMI	

2-2 Scope of the work

Components	Original* *(proposed in the outline design)*	Actual*
Facility Construction	1. Revetment: Sloping rubble mound-type, L=1,099 ft (335 m) 2. Rainwater Reservoir: Embankment plus inverted T-retaining wall structure type, Capacity is 15 MG (56,900 m^3) 3. Pipelines 3.1 Transmission (inlet/outlet) pipeline: PVC, 14 in.(356 mm), 3.2 Sub-drain pipe: Perforated PVC 4 in. (102 mm) Drain pipe: PVC 8 in. (203 mm) 3.3 Air Ventilation Pipeline: Perforated PVC 3 in. (76 mm) 3.4 Overflow Pipe DIP 6 in. (152 mm)	

Reasons for modification of scope (if any).

(PMR)

2-3 Implementation Schedule

Items	Original		Actual
	(proposed in the outline design)	***(at the time of signing the Grant Agreement)***	
Detail Design and Bidding process	11 months from October 2020		
Facility Construction	22 months from September 2021		

Reasons for any changes of the schedule, and their effects on the project (if any)

2-4 Obligations by the Recipient

2-4-1 Progress of Specific Obligations

See Attachment 2.

2-4-2 Activities

See Attachment 3.

2-4-3 Report on RD

See Attachment 11.

2-5 Project Cost

2-5-1 Cost borne by the Grant(Confidential until the Bidding)

Components			Cost (Million Yen)	
	Original *(proposed in the outline design)*	Actual *(in case of any modification)*	Original[1),2)] *(proposed in the outline design)*	Actual
Facility Construction	1. Revetment 2. Rainwater reservoir 3. Pipelines 4. Other direct cost 5. Indirect cost		1,564	
Consulting Service	1. Detail Design, 2. Supervision for facility construction		161	
Total			1,725	

Note: 1) Date of estimation: 17 April 2020
2) Exchange rate: 1 US Dollar = 111.95 Yen

2-5-2 Cost borne by the Recipient

Components			Cost (1,000 USD)	
	Original *(proposed in the outline design)*	Actual *(in case of any modification)*	Original[1),2)] *(proposed in the outline design)*	Actual
Facility Construction	1. Installation of power cable and water supply to the construction site		11	
Banking Commission	2 Payment commission of A/P		48	
Total			59	

Note: Date of estimation: 13rd December 2019

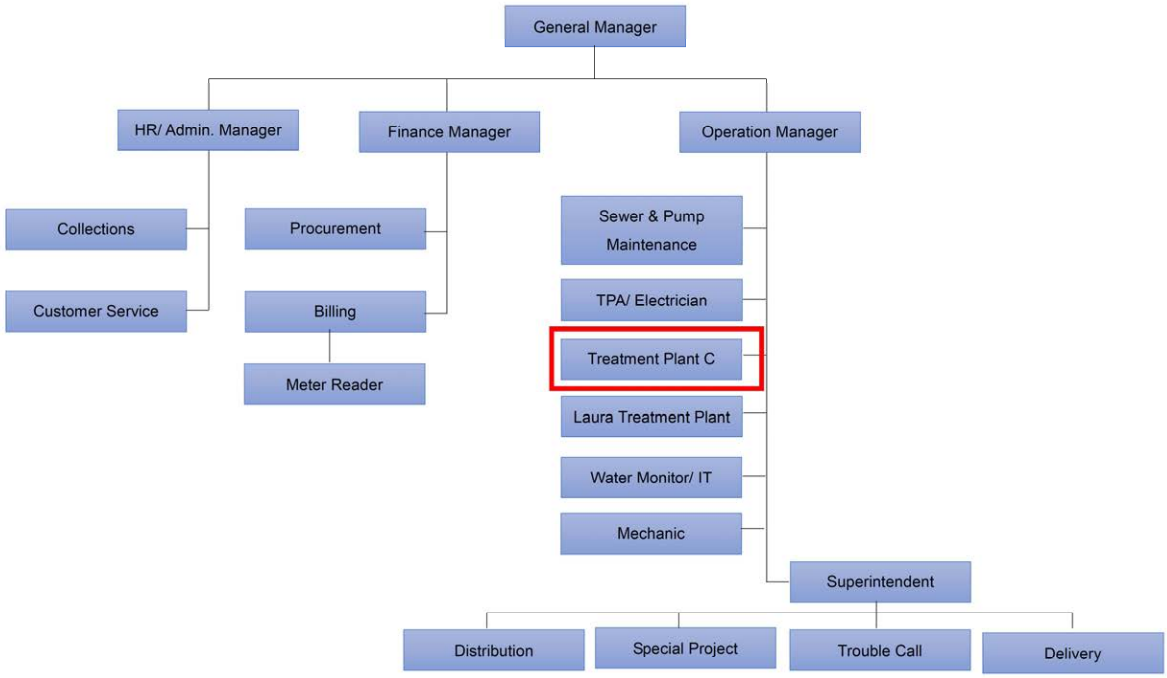
Reasons for the remarkable gaps between the original and actual cost, and the countermeasures (if any)

(PMR)

2-6 Executing Agency

- Organization's role, financial position, capacity, cost recovery etc.
- Organization Chart including the unit in charge of the implementation and number of employees.

Original *(at the time of outline design)*
Name: Majuro Water and Sewer Company (MWSC)
Role: MWSC carries on suitable preventive maintenance which aims at keeping reliability, safety, efficiency, functions of facilities to secure the stable water supply.
Financial situation: MWSC operating revenues are usually below operating expenses.
Institutional and organizational arrangement (organogram): WTP-C Section in Operation Division, MWSC is in charge of the management of the proposed Rainwater Reservoir.
The organogram of MWSC is shown in the following figure. WTP-C section is surrounded with the red line.



Majuro Water and Sewer Company (MWSC) Organizational Chart 2019

Human resources (number and ability of staff): Operation Division in MWSC has 30 persons. O&M of the proposed rainwater transmission pipeline and the rainwater reservoir is a part of current O&M works, their ability is enough to maintain the proposed rainwater reservoir.

Actual *(PMR)*

2-7 Environmental and Social Impacts

- The results of environmental monitoring based on Attachment 5 (in accordance with Schedule 4 of the Grant Agreement).
- The results of social monitoring based on in Attachment 5 (in accordance with Schedule 4 of the Grant Agreement).
- Disclosed information related to results of environmental and social monitoring to local stakeholders (whenever applicable).

3: Operation and Maintenance (O&M)

3-1 Physical Arrangement

- Plan for O&M (number and skills of the staff in the responsible division or section, availability of manuals and guidelines, availability of spare parts, etc.)

Original *(at the time of outline design)* Carrying on O&M of the rainwater transmission pipeline and the rainwater reservoirs, MWSC does not need to establish O&M structure for O&M of the proposed rainwater transmission pipeline and the rainwater reservoir.
Actual *(PMR)*

3-2 Budgetary Arrangement

- Required O&M cost and actual budget allocation for O&M

Original *(at the time of outline design)* O&M of the proposed rainwater transmission pipeline and the rainwater reservoir is a part of current O&M works. Therefore, MWSC does not need an additional budget for O&M.
Actual *(PMR)*

4: Potential Risks and Mitigation Measures

- Potential risks which may affect the project implementation, attainment of objectives, sustainability
- Mitigation measures corresponding to the potential risks

Assessment of Potential Risks (*at the time of outline design)*

Potential Risks	Assessment
1. Exemption of Taxes and fiscal levies for the Japanese Consultant and Contractor	Probability: Low
	Impact: High
	Analysis of Probability and Impact: RMI side agreed to deal with tax exemption in the Outline Design Survey. However, if RMI side fails to deal with tax exemption, the construction will be delayed definitely.
	Mitigation Measures: If the taxes and fiscal levies are not exempted, the Executing Agency bears the equivalent cost instead.
	Action required during the implementation stage: The Executing Agency commences discussions with relevant authorities for exemption of taxes and fiscal levies. In parallel, the Executing Agency commences the budget preparation to bear the equivalent cost as same as the cost which may not be exempted.
	Contingency Plan (if applicable): N/A
2. Environmental Activists and Residents' Complaint to quarrying in the Lagoon	Probability: Low
	Impact: High
	Analysis of Probability and Impact: There is not always environmental activists across the world. Once environmental activists complains about quarrying, etc., the construction will be delayed definitely.
	Action required during the implementation stage: The Executing Agency keeps always communication with the residents under collaboration with related organizations (RMIEPA, etc.) to promote public awareness.
	Action required during the implementation stage: The Executing Agency holds public meeting if necessary.

	Contingency Plan (if applicable): N/A
3. Bird Strike by Birds gathering in the new Rainwater reservoir	Probability: Moderate
	Impact: High
	Analysis of Probability and Impact: Unless the Executing Agency covers with liners, etc., on surface of the new rainwater reservoir as soon as the construction is completed, bird strike by birds gathering in the new rainwater reservoir may occur.
	Mitigation Measures: When the construction of rainwater reservoir is completed, the Executing Agency should cover with liners on surface of the rainwater reservoir until solar power generation system is installed.
	Action required during the implementation stage: The Executing Agency should secure budgets for liners to prevent evaporation as well as bird strike.
	Contingency Plan (if applicable): N/A
4. Pandemic of Corona-virus	Probability: Moderate
	Impact: High
	Analysis of Probability and Impact: The pandemic of corona-virus has not settled down across the world. Once corona-virus spread out in RMI, the detail design and the construction will be suspended for the certain period.
	Mitigation Measures: Since pandemic condition of corona-virus is one of the external conditions, it is very difficult for the Executing Agency to take mitigation measures.
	Action required during the implementation stage: Nothing especially
	Contingency Plan (if applicable): N/A
Actual Situation and Countermeasures	
(PMR)	

5: Evaluation and Monitoring Plan (after the work completion)

5-1 Overall evaluation

Please describe your overall evaluation on the project.

5-2 Lessons Learnt and Recommendations

Please raise any lessons learned from the project experience, which might be valuable for the future assistance or similar type of projects, as well as any recommendations, which might be beneficial for better realization of the project effect, impact and assurance of sustainability.

5-3 Monitoring Plan of the Indicators for Post-Evaluation

Please describe monitoring methods, section(s)/department(s) in charge of monitoring, frequency, the term to monitor the indicators stipulated in 1-3.

Attachment

1. Project Location Map
2. Specific obligations of the Recipient which will not be funded with the Grant
3. Monthly Report submitted by the Consultant ⇒ To be attached

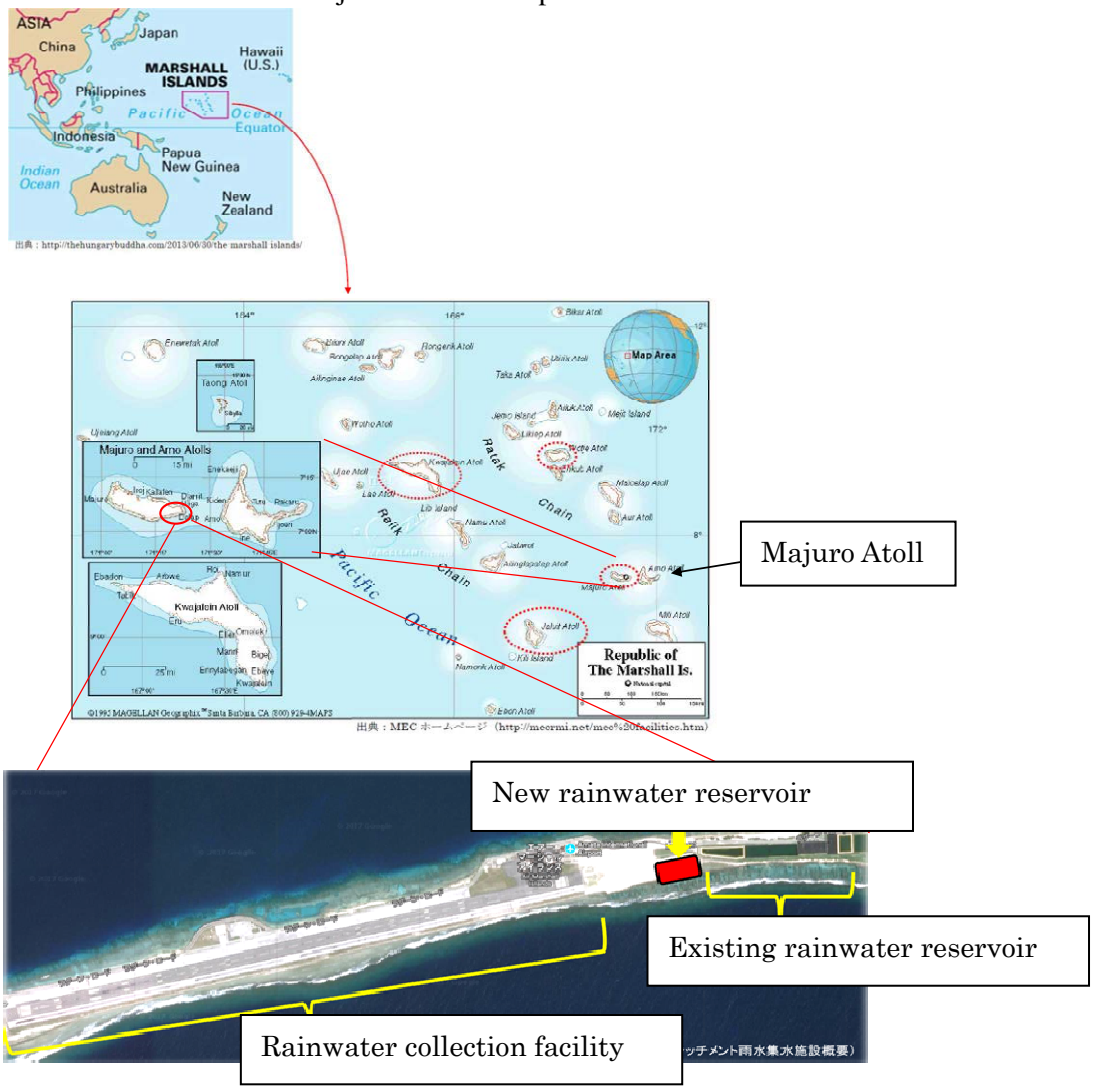
Appendix - Photocopy of Contractor's Progress Report (if any)
- Consultant Member List
- Contractor's Main Staff List

4. Check list for the Contract (including Record of Amendment of the Contract/Agreement and Schedule of Payment) ⇒ To be attached

5. Environmental Monitoring Form / Social Monitoring Form ⇒ To be attached
6. Monitoring sheet on price of specified materials (Quarterly)
7. Report on Proportion of Procurement (Recipient Country, Japan and Third Countries) (PMR (final)only)
8. Pictures (by JPEG style by CD-R) (PMR (final)only) ⇒ To be attached
9. Equipment List (PMR (final)only) ⇒ To be attached
10. Drawing (PMR (final)only) ⇒ To be attached
11. Report on RD (After project) ⇒ To be attached

Attachment-1

Project Location Map



Construction site for the Project

Attachment-2

Progress of Specific obligations of the Recipient which will not be funded with the Grant

	Original Plan *(proposed in the outline design)*	Progress
1.	To secure the budget required for conducting EMP and EMoP	
2.	To take necessary procedures for issuing Authorization to Pay (hereinafter referred to as "A/P") required for payments to the Japanese Consultant and/or Contractor(s), and to bear the following commissions to a bank in Japan for the banking services based upon the Banking Arrangement: - Advising commission of A/P - Payment commission	
3.	To submit the Project Monitoring Report (including a monitoring result) to JICA	
4.	To report to JICA promptly in case of accident and incident related to the environment, community, public and labors	
5.	To secure the land for the construction of the Project facilities through proper legal procedures	
6.	To secure a quarry site for sand and gravel	
7.	To secure yards (stockyards) for temporary works of the Contractor	
8.	To ensure prompt unloading and customs clearance of the Project goods at the port of disembarkation in RMI	
9.	To accord Japanese nationals whose services may be required in connection with the supply of products and services under the verified contract(s) such facilities as may be necessary for their entry into RMI and stay therein for the performance of their works	
10.	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in RMI with respect to the supply of the products and services under the verified contract(s) To take necessary measures for such tax exemption.	
11.	To bear all the expenses, other than those to be borne by the Grant Aid, necessary for construction of the facilities as well as for the transportation and installation of the equipment.	
12.	To conduct EMP and EMoP	
13.	To use and maintain properly and effectively all the facilities constructed, and equipment and materials provided under the Japan's Grant Aid	

Monitoring sheet on price of specified materials

1. Initial Conditions (Confirmed)

	Items of Specified Materials	Initial Volume A	Initial Unit Price (¥) B	Initial total Price C=A×B	1% of Contract Price D	Condition of payment	
						Price (Decreased) E=C−D	Price (Increased) F=C+D
1	Item 1	●●t	●	●	●	●	●
2	Item 2	●●t	●	●	●		
3	Item 3						
4	Item 4						
5	Item 5						

2. Monitoring of the Unit Price of Specified Materials

(1) Method of Monitoring : ●●

(2) Result of the Monitoring Survey on Unit Price for each specified materials

	Items of Specified Materials	1st ●month, 2015	2nd ●month, 2015	3rd ●month, 2015	4th	5th	6th
1	Item 1						
2	Item 2						
3	Item 3						
4	Item 4						
5	Item 5						

(3) Summary of Discussion with Contractor (if necessary)

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Report on Proportion of Procurement (Recipient Country, Japan and Third Countries)
（Actual Expenditure by Construction and Equipment each）

		Domestic Procurement (Recipient Country) A	Foreign Procurement (Japan) B	Foreign Procurement (Third Countries) C	Total D
Construction Cost		(A/D%)	(B/D%)	(C/D%)	
	Direct Construction Cost	(A/D%)	(B/D%)	(C/D%)	
	others	(A/D%)	(B/D%)	(C/D%)	
Equipment Cost		(A/D%)	(B/D%)	(C/D%)	
Design and Supervision Cost		(A/D%)	(B/D%)	(C/D%)	
Total		(A/D%)	(B/D%)	(C/D%)	