Maldives : Greater Male Waste-to-Energy Project

1. Project Information

Project information			
Project ID:	P000278	Instrument ID:	L0278A
Member:	Maldives	Region:	Southern Asia
Sector:	Urban	Sub-sector:	Integrated waste management
Instrument type:	⊠ Loan:40.00 US Dollar million □ Guarantee	Lead Co-financier (s):	Asian Development Bank
ES category:	A	Borrowing Entity:	Ministry of Finance, Maldives
Implementing Entity:	Ministry of Environment, Maldi		
Project Team Leader:	Ankur Agrawal		
Responsible DG:	Rajat Misra		
Responsible Department:	PSC1		
Project Team Members:	Monyrath Nuth, SFD - Social De Liu Yang, Project Counsel; Shonell Robinson, SFD - Financi Jurminla Jurminla, SFD - Procur Sabah Iqbal, SFD - Environment Ankur Agrawal, Back-up PTL; Jinghui Li, Project admin	al Management Specialis ement Specialist;	:t;
Completed Site Visits by AIIB:	Waste Management company (Dec, 2021 Lead Co-financier (ADB) had ph virtually. May, 2022 ADB team (lead co-financier), c 19, 2022. AIIB team attended so Nov, 2022 AIIB joined the physical implem to the WTE site to review the ir Mar, 2023 AIIB joined the physical implem to the WTE site to review the ir Aug, 2023 AIIB joined the physical implem to the WTE site to review the ir Jan, 2024	officials of Ministry of Fin (WAMCO) etc. ysical review mission fro onducted the site visit du ome mission meetings vin mentation support mission nplementation progress. mentation support mission nplementation progress. mentation support mission mplementation progress.	nance, Ministry of Environment, m Dec 5-Dec 14. AIIB joined partly uring the mission from May 8 - May rtually. n led by ADB including the field visit n led by ADB including the field visit n led by ADB including the field visit
Planned Site Visits by	Aug, 2024		
AIIB:	Field visit to the WTE plant site	is planned to review the	implementation progress.
		is planned to review the	implementation progress.

Project Implementation Monitoring Report (#8) Reporting Period From 2024/01 To 2024/06

Regime:						
Previous Red Flags Assigned:						
Assigned:	0					
Previous Red Flags Assigned Date:	2023/12					
Assigned Date:						
Brief justifications for assigned red flags:	Delay in contract execution					
assigned red flags:	Delay in contract execution.					

2. Project Summary and Objectives

The main objective of the project is to establish a regional solid waste treatment system in the Greater Malé capital region. The project is designed to reduce disaster risk and improve climate change resilience while creating a cleaner environment and reducing greenhouse gas emissions. The project has two components: Component 1 - Establishment of climate resilient regional waste management facilities, including construction of a 500-ton per day (tpd) Waste-to-Energy (WTE) plant with flue gas treatment, emissions monitoring, a bottom ash processing plant, and an ash disposal landfill with leachate treatment ponds and Component 2 - Institutional capacity building in sustainable waste management, environmental monitoring and public awareness. AIIB is financing only Component 1.

The project will be implemented during the period October 2020 to September 30, 2026.

The Project cost is USD151.13 million which would be financed through AIIB loan of USD40.00 million, ADB loan of USD38.21 million, ADB grant of USD35.18 million, Japan Fund for the Joint Crediting Mechanism (JFJCM) grant of USD10.00 million and counterpart funds (Government of Maldives) of USD27.74 million.

3. Key Dates

Approval:	Sep. 10, 2020	Signing:	Sep. 29, 2020
Effective:	Dec. 11, 2020	Restructured (if any):	
Orig. Closing:	Mar. 31, 2027	Rev. Closing (if any):	

4. Disbursement Summary (USD million)

Contract Awarded:	120.22	Cancellation (if any):	0.00
Disbursed:	10.30	Latest disbursement (amount/date):	0.01/Jun. 06, 2024
Undisbursed:	29.70	Disbursement Ratio (%) ¹ :	25.74

5. Project Implementation Update

A Design-Build-Operate (DBO) contract for the construction and operation of the Waste-to-Energy (WTE) plant was executed on October 10, 2021 and the site was handed over to the contractor in March 2022. After the initial delays in conducting geotechnical surveys, site activities have started in July 2022. The conceptual design for the WTE plant has been approved by the Project Management, Design and

¹Disbursement Ratio is defined as the volume (e.g. the dollar amount) of total disbursed amount as a percentage of the net committed volume.

Construction Supervision Consultants (PMDCSC) supporting the PMU. Currently, foundation works and slab casting works are going on. Overall, there is a delay of about 400 days due to several factors (i) delays in geotechnical survey; (ii) site boundaries changes and delay in site handover by the Government; (iii) coordinating issues amongst all stakeholders; and (iv) technical complexity

Components Physical Progress
ComponentsPhysical ProgressComponent 1: isstablishment of lisaster and limate resilient egional waste nanagement acilityConstruction of fences surrounding the construction site and the labour accommodation has been completed. Currently, foundation works and slab casting works are going on. Part of the bunker foundation slab has been cast and the walls reinforcement work is going on in the bunker area. Overall, there is a delay of about 400 days.

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Contractor's compliance with the CEMP will be continuously monitored.	
An update on the ES staffing with specific timeline, as well as the implementation status regarding gender actions will be updated in the next PIMR, following discussion in the upcoming mission.	

Financial Management:

Overall, the FM arrangements are in place and functioning. However, it was noted that due to government budgetary constraints and the consistent underutilization of the Project budget, the GoM has decreased Project allocations. There are delays in processing payments of invoices submitted by contractors which might involve penalties as per the contract. Despite this, MoF has committed to prioritizing payments under the Project.

The audited financial statements for the year ending December 2023 are due by June 30, 2024. The audit is ongoing and is expected to be submitted by the due date.

6. Status of the Grievance Redress Mechanism (GRM)

The Project GRM has multiple tiers – an individual or an interest group can contact DBO Contractor (1st tier), PMU/MOE (2nd tier), and if not resolved, the complainant could use judiciary approach. PMU (2nd tier) has been set up and able to receive grievances. No complaints have been received; however, there were some suggestions made by workers to improve food at site canteen.

7. Results Monitoring (please refer to the full RMF, which can be found on the last page of this PIMR)

Given the implementation delay, RMF may be adjusted and reflected in the next PIMR.

Remarks:



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			Cumula	tive Target	: Values																					
Project Objective Indicators	Indicator level	Unit of Measure	Baseline		2020		2021		2022		2023		2024		2025		2026		2027		End Target			Frequency	Responsibility	Comments
			Year	Value	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Target	Actual	Year	Target	Actual			
Solid waste treated with residuals safely disposed or recycled	Project	%	2020												50		70		80							
Reduction in estimated annual GHG emissions	Project	tons	2020												20,000		20,000		20,000							
Installed capacity of WTE plant (50% is renewable energy)	Project	Number	2020												8 (4)		8 (4)		8 (4)							

			Cumul	ative Targe	ve Target Values																					
Project Intermediate Indicators	Indicato r level	Unit of Measur e	Baselir	Baseline	2020		2021		2022		2023		2024		2025		2026		2027		End Ta	rget		Frequenc Y	Responsibilit Y	Comment s
			Year	Valu e	Targe t	Actua I	Targe t	Actua I	Targe t	Actua I	Target	Actual	Target	Actua I	Target	Actua I	Target	Actua I	Target	Actua I	Yea r	Targe t	Actua I			



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Electricity generated from WTE (50% is renewable energy)	Project	Number	202 0							16,000 (8,000)	32,000 (16,000)	32,000 (16,000)				
500 tpd WTE plant (with extended O&M contract) is constructed and operational	Project	Text	202 0						Constructe d	Operation al	Operation al	Operation al				
Landfill for safe disposal of WTE air pollution control residues and nonmarketabl e bottom ashes is constructed and operational.	Project	Text	202 0						Constructe d	Operation al	Operation al	Operation al				
Adoption of disaster and climate resilience measures in the design and construction phases of WTE	Project	Text	202 0				Adopte d	Ongoin g	Adopted	Adopted	Adopted	Adopted				