

India: Kerala Solid Waste Management Project

1. Project Information

Project ID:	P000453	Instrument ID:	L0453A
Member:	India	Region:	Southern Asia
Sector:	Urban	Sub-sector:	Integrated waste management
Instrument type:	<input checked="" type="checkbox"/> Loan:105.00 US Dollar million <input type="checkbox"/> Guarantee	Co-financier(s):	World Bank
ES category:	A	Borrowing Entity:	Ministry of Finance, India
Implementing Entity:	Local Self Government Department, Government of Kerala		
Project Team Leader:	Ankur Agrawal		
Responsible DG:	Rajat Misra		
Responsible Department:	INF1		
Project Team Members:	Christopher Damandl, Project Counsel; Aditi Khosla, Alternate Counsel; Shodi Nazarov, OSD - Financial Management Specialist; Susrutha Goonasekera, OSD - Social Development Specialist; Amy Chua Fang Lim, OSD - Environment Specialist; Bernadette Ndeda, OSD - Procurement Specialist; Ankur Agrawal, Back-up PTL; Jinghui Li, Project admin		
Completed Site Visits by AIIB:	Mar, 2022 World bank and AIIB conducted a virtual implementation support mission in March 2022. Further, World Bank conducted a physical Technical Mission in June 2022.		
Planned Site Visits by AIIB:	Dec, 2022 AIIB and World bank will plan a site visit in December 2022.		
Current Red Flags Assigned:	0		
Current Monitoring Regime:	Regular Monitoring		
Previous Red Flags Assigned:			
Previous Red Flags Assigned Date:			

2. Project Summary and Objectives

The project's objective is to strengthen the institutional and service delivery systems for Solid Waste Management (SWM) in Kerala.

The project will support the government to improve the SWM situation in Kerala by providing SWM infrastructure investments at both regional and municipal-levels. The project will support all 93 Urban Local Bodies (ULBs) across 14 districts in Kerala in improving access to efficient and reliable delivery of SWM services to their populations.

The total project cost is USD300 million financed by AIIB and World Bank to the extent of USD105 million

each and the balance USD90 million is counterpart funds by the Government of Kerala (GoK). The project includes the following components:

Component A (USD110 million): Development of Regional SWM Facilities which will support construction, rehabilitation, closure and remediation of SWM facilities servicing a cluster of local bodies;

Component B (USD150 million): Improvement of SWM Infrastructure in Participating ULBs will improve local-level SWM service delivery systems by providing funds to the participating ULBs; and

Component C (USD40 million): Institutional Development, Capacity Building and Project Management Support which will provide technical assistance and capacity building at state and local levels.

The project's implementation period is from June 2021 to June 2027.

3. Key Dates

Approval:	Mar. 25, 2021	Signing:	Jan. 21, 2022
Effective:	Mar. 29, 2022	Restructured (if any):	
Orig. Closing:	Dec. 31, 2027	Rev. Closing (if any):	

4. Disbursement Summary (USD million)

Contract Awarded:		Cancellation (if any):	0.00
Disbursed:	1.96	Most recent disbursement (amount/date):	1.67/Jul. 15, 2022
Undisbursed:	103.04	Disbursement Ratio (%) ¹ :	1.87

5. Project Implementation Update

The implementation of the project is picking up gradually. In total, contract packages of USD11.2 million have been executed primarily in the last six months. Five key contracts including that of Project Management Consultant (PMC) has been executed. REOs for Technical Support Consultants has been issued. The Project Management Unit (PMU) has been staffed and 40 out of 70 staff in 14 District-level Project Management Unit (DPMUs) have been recruited. An Environmental specialist has been appointed at PMU level.

All 93 ULBs have submitted their Year 1 investment proposals which are being appraised. State Project Management Unit (SPMU) has initiated a GIS-based state-wide waste cluster planning exercise and has identified five clusters for developing regional sanitary landfill facilities in the state.

Components	Physical Progress	Environmental & Social Compliance	Procurement Progress
Development of Regional SWM Facilities	SPMU has initiated a GIS-based state-wide waste cluster planning exercise and has identified five clusters for developing regional sanitary landfill facilities	There has been progress since the last mission in the following areas: (a) data fields for baseline on gender and vulnerability have been finalized and the survey has been initiated; (b) a process has been developed for stakeholder	NA

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

	<p>in the state. Currently, land parcels of regional landfill for two out of five clusters have been shortlisted and further site screening and land suitability analyses are being undertaken. For the remaining three clusters, identification of suitable land parcels is still underway. Additionally, SPMU is also preparing to conduct feasibility study (FS) of the regional facilities. Currently, SPMU is developing a detailed scope of work for the FS exercise.</p>	<p>consultations (generators and service providers) that are required for the Tribal Development Framework-Social Management Framework (TDF-SMF) and the Resettlement Policy Framework (RPF) ; and (c) promotional and awareness materials and creatives have been prepared.</p>	
Improvement of SWM Infrastructure in Participating ULBs	<p>All 93 ULBs have submitted their Year 1 investment proposals to the SPMU that have been appraised and have initiated their annual development planning (ADP) process. Out of these, 40 ULBs have obtained approvals from their respective Municipal Councils and are awaiting approvals from their District Planning Councils (DPC). Once approved, the ULBs will start designing and implementing the subprojects.</p>	<p>There has been progress since the last mission in the following areas: (a) data fields for baseline on gender and vulnerability have been finalized and the survey has been initiated; (b) a process has been developed for stakeholder consultations (generators and service providers) that are required for the TDF-SMF and the RPF; and (c) promotional and awareness materials and creatives have been prepared.</p>	NA
Institutional Development, Capacity Building and Project Management Support	NA	<p>Preliminary training needs assessment has been conducted and the training calendar for the next three months has been developed.</p>	<p>Five key contracts – hiring of PMC, Stakeholder survey consultants, Communication strategy development agency, Digital media agency and MIS consultants have been awarded under the project. A procurement expert has also been hired. Procurement of Technical Support Consultants (TSC) packages is expected to be awarded in Q4FY22. At the District PMUs, 40 staff out of 70 have been recruited</p>

			across 14 DPMUs.
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Financial Management:

An overall budget provision of around USD13 million has been provided for the project under the approved state budget for 2022-23, and the project has started to incur project expenditure. A Special Treasury Savings Bank (STSB) Account has been opened for component 1 and 3 activities which will be managed by SPMU. In these two components, SPMU would be the sole responsible entity for spending project funds and incurring the related expenditure. The first two withdrawal applications were processed in July 2022. The Kerala State treasury system and existing local government financial management systems will be used for releasing grant funds to the ULBs. The grant release/allotment (for Bank share, AIIB share, and the relevant state share) will be made to the eligible ULBs directly from the consolidated state fund. A qualified, experienced, dedicated Financial Management (FM) Specialist was assigned to SPMU. This was critical action agreed upon during project preparation. As a result of the WB Mission in June 2022, it was noted that the strengthening of FM staffing for ULBs is required. Each ULB needs a FM person on board who can manage the FM requirements pertaining to grants. The project implementation manual (PIM) was finalized in December 2020 and included some FM sections. The first Interim Unaudited Financial Report that would depict the AIIB funds will be prepared for 3Q2022 and due on November 15, 2022. The first project audit will be for the period from the loan signature date to March 31, 2023, and it will be due by September 30, 2023

6. Status of the Grievance Redress Mechanism (GRM)

The GRM is currently under review and only once the system is updated, its accessibility and effectiveness can be tracked.

7. Results Monitoring

Results shall be monitored in due course.

Project Objective Indicators #1

Number of people with access to improved solid waste management services (Number (Thousand))

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	500	N/A	
Jan. 01, 2023	1,000	N/A	
Jan. 01, 2024	2,000	N/A	
Jan. 01, 2025	3,000	N/A	
Jan. 01, 2026	4,000	N/A	
Jan. 01, 2027	6,000	N/A	

Project Objective Indicators #2

Solid waste disposed safely in engineered landfills (Metric tons/year (cumulative))

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	-	N/A	
Jan. 01, 2023	-	N/A	
Jan. 01, 2024	30,000	N/A	
Jan. 01, 2025	90,000	N/A	

Jan. 01, 2026	120,000	N/A	
Jan. 01, 2027	146,000	N/A	

Project Objective Indicators #3

Number of ULBs that accessed incentive grants for improving SWM services (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	-	N/A	
Jan. 01, 2023	-	N/A	
Jan. 01, 2024	30	N/A	
Jan. 01, 2025	60	N/A	
Jan. 01, 2026	60	N/A	
Jan. 01, 2027	60	N/A	

Intermediate Result Indicators #1

Number of dumpsites closed (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	0	N/A	
Jan. 01, 2023	0	N/A	
Jan. 01, 2024	0	N/A	
Jan. 01, 2025	1	N/A	
Jan. 01, 2026	2	N/A	
Jan. 01, 2027	3	N/A	

Intermediate Result Indicators #2

Number of landfills constructed and operational (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	0	N/A	
Jan. 01, 2023	0	N/A	
Jan. 01, 2024	1	N/A	
Jan. 01, 2025	2	N/A	
Jan. 01, 2026	3	N/A	
Jan. 01, 2027	3	N/A	

Intermediate Result Indicators #3

Number of inter-municipal coordination arrangements in place for regional disposal systems (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	1	N/A	
Jan. 01, 2023	2	N/A	
Jan. 01, 2024	3	N/A	
Jan. 01, 2025	3	N/A	
Jan. 01, 2026	3	N/A	
Jan. 01, 2027	3	N/A	

Intermediate Result Indicators #4

Household coverage of door to door segregated municipal waste collection services (Percentage)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	10	N/A	
Jan. 01, 2023	15	N/A	
Jan. 01, 2024	20	N/A	
Jan. 01, 2025	30	N/A	
Jan. 01, 2026	50	N/A	
Jan. 01, 2027	70	N/A	

Intermediate Result Indicators #5

Share of plastic waste recycled at the local level (Percentage)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 10%	N/A	
Jan. 01, 2022	10	N/A	
Jan. 01, 2023	20	N/A	
Jan. 01, 2024	30	N/A	
Jan. 01, 2025	40	N/A	
Jan. 01, 2026	50	N/A	
Jan. 01, 2027	50	N/A	

Intermediate Result Indicators #6

Number of ULBs with improved human resource capacity for SWM (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	10	N/A	
Jan. 01, 2023	20	N/A	
Jan. 01, 2024	40	N/A	
Jan. 01, 2025	60	N/A	

Jan. 01, 2026	60	N/A	
Jan. 01, 2027	60	N/A	

Intermediate Result Indicators #7

Number of ULBs that adopted cost recovery system for SWM (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	5	N/A	
Jan. 01, 2023	20	N/A	
Jan. 01, 2024	40	N/A	
Jan. 01, 2025	60	N/A	
Jan. 01, 2026	60	N/A	
Jan. 01, 2027	60	N/A	

Intermediate Result Indicators #8

Number of women's groups implementing SWM services financed by the project (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	20	N/A	
Jan. 01, 2023	30	N/A	
Jan. 01, 2024	40	N/A	
Jan. 01, 2025	100	N/A	
Jan. 01, 2026	150	N/A	
Jan. 01, 2027	190	N/A	

Intermediate Result Indicators #9

Share of the complaints registered resolved within 30 days (Percentage)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	50	N/A	
Jan. 01, 2023	70	N/A	
Jan. 01, 2024	75	N/A	
Jan. 01, 2025	80	N/A	
Jan. 01, 2026	80	N/A	
Jan. 01, 2027	80	N/A	

Intermediate Result Indicators #10

Number of ULBs in which beneficiary satisfaction survey is conducted (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	60	N/A	
Jan. 01, 2023	-	N/A	
Jan. 01, 2024	60	N/A	
Jan. 01, 2025	-	N/A	
Jan. 01, 2026	-	N/A	
Jan. 01, 2027	60	N/A	

Intermediate Result Indicators #11

Number of cities that have issued SWM by-laws (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	5	N/A	
Jan. 01, 2023	40	N/A	
Jan. 01, 2024	60	N/A	
Jan. 01, 2025	60	N/A	
Jan. 01, 2026	60	N/A	
Jan. 01, 2027	60	N/A	

Intermediate Result Indicators #12

Number of participants in SWM training sessions (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	2,500	N/A	
Jan. 01, 2023	6,000	N/A	
Jan. 01, 2024	10,000	N/A	
Jan. 01, 2025	12,000	N/A	
Jan. 01, 2026	14,000	N/A	
Jan. 01, 2027	16,800	N/A	

Intermediate Result Indicators #13

Number of cities with city SWM plans (Number)

Year	Target	Actual	Comments, if any
Jan. 01, 2021	Baseline: 0.0	N/A	
Jan. 01, 2022	5	N/A	
Jan. 01, 2023	40	N/A	
Jan. 01, 2024	60	N/A	
Jan. 01, 2025	60	N/A	

Jan. 01, 2026	60	N/A	
Jan. 01, 2027	60	N/A	

Remarks:
