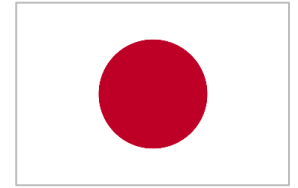




Republic of Sudan
The Higher Council for the Environment
and Natural Resources



JCCI International Seminar 2025
- Approaches to Improve Waste Management in Fragile States -

THE CLEAN CITIES PROJECT IN SUDAN

Community-led Waste Collection Initiatives in Sudan

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CONTENTS

1. Outline of the Clean Cities Project in Sudan (Technical Cooperation Project (TCP))
2. Grant aid project
3. Community-led waste collection initiative in the TCP



1. OUTLINE OF CLEAN CITIES PROJECT IN SUDAN

- ## 1-1. Objectives
- (1) Type of the Assistance**
Technical Cooperation Project (TCP)
 - (2) Overall Goal**
Solid waste management services in the target states is improved.
 - (3) Project Purpose**
Management capacity of Cleaning Corporation in the target states is improved.



1. OUTLINE OF CLEAN CITIES PROJECT IN SUDAN

1-2. Project Area

a. Khartoum State

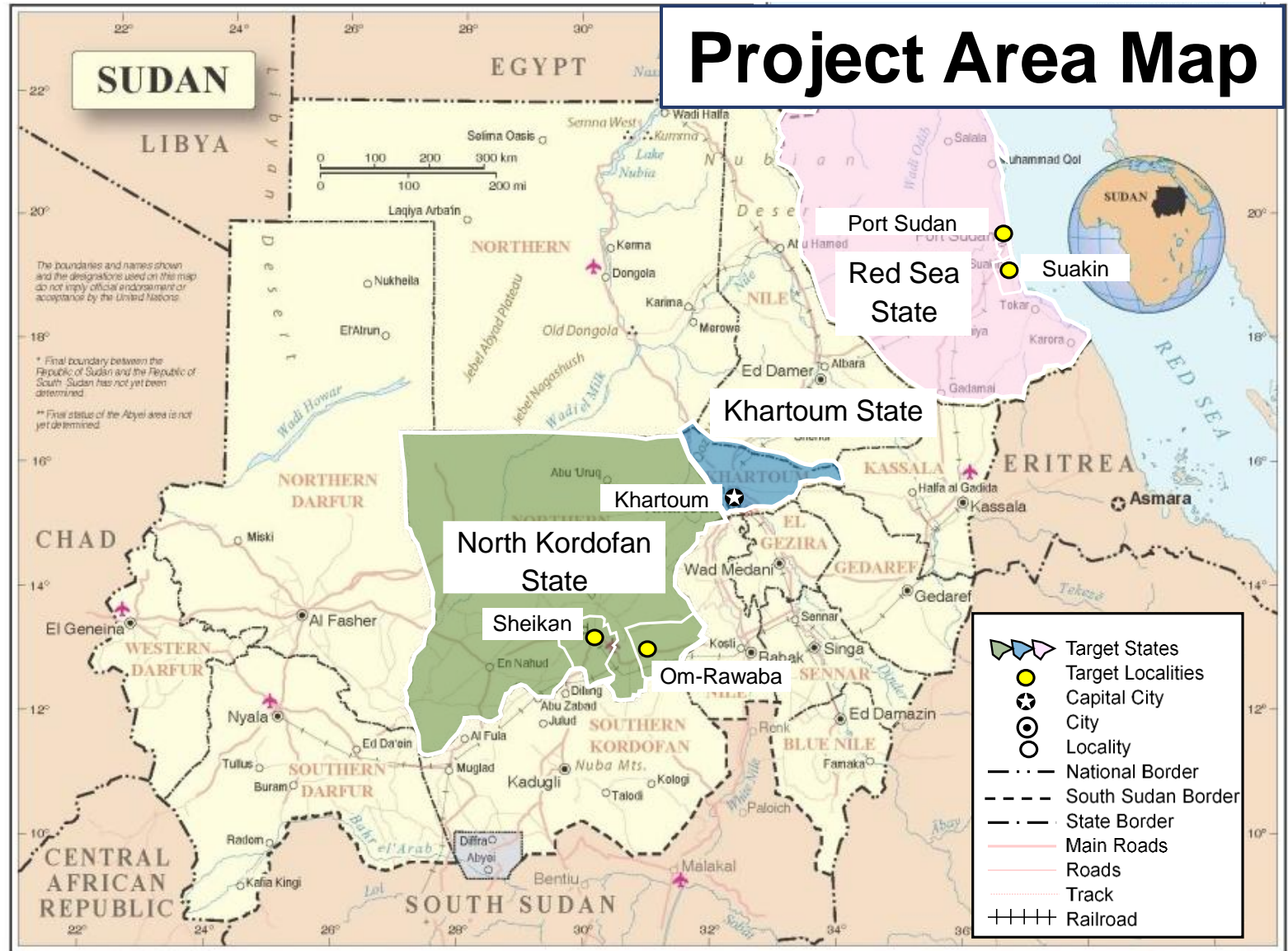
- 7 Localities

b. North Kordofan State

- Sheikan Locality
- Om-rawaba Locality

c. Red Sea State

- Port Sudan Locality
- Suakin Locality



1. OUTLINE OF CLEAN CITIES PROJECT IN SUDAN

1-3. Outputs

OUTPUTS		Responsible Organizations
OUTPUT 1	The current status and challenges of waste management in the target areas are identified.	HCENR/KCC/NKCC/RSCC
OUTPUT 2	<u>KCC's waste management and planning capacity</u> is strengthened.	KCC
OUTPUT 3	<u>NKCC's waste management capacity</u> is strengthened.	NKCC
OUTPUT 4	<u>RSCC's waste management capacity</u> is strengthened.	RSCC
OUTPUT 5	<u>Preparation for development of the national direction of Solid Waste Management</u> is made based on the data and information collected from all the states.	HCENR

HCENR: Higher Council for Environment and Natural Resources
KCC: Khartoum Cleaning Cooperation
NKCC: North Kordofan Cleaning Corporation
RSCC: Red Sea Cleaning Corporation

1. OUTLINE OF CLEAN CITIES PROJECT IN SUDAN

1-4. Period of the Project

4 years
(April 2021 – April 2025)

Phase-3: Implementation/Monitoring phase
Nov. 2024 – April 2025

Phase-2: Implementation phase
May 2022 – Oct. 2024

We are here

Phase-1: Detailed Design phase
April 2021 – April 2022



2. GRANT AID PROJECT

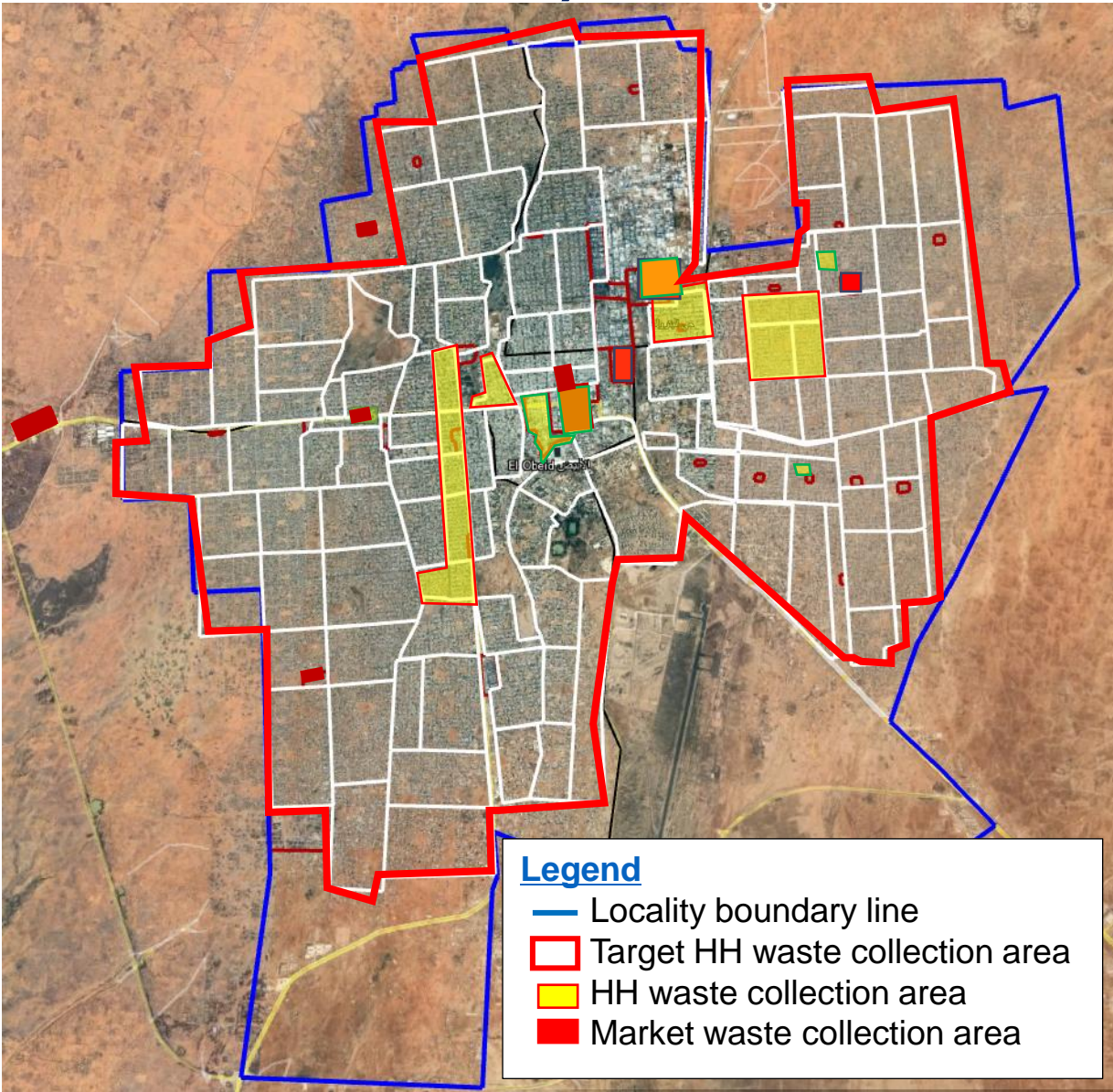
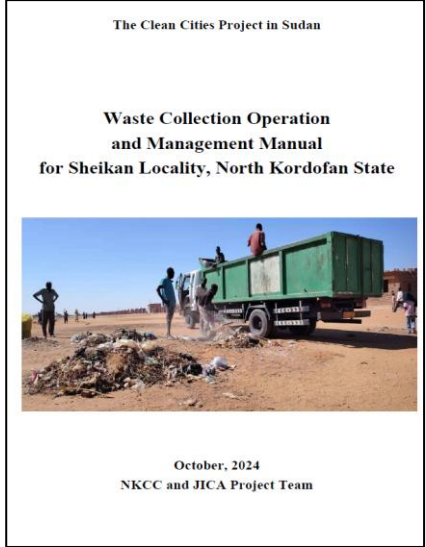
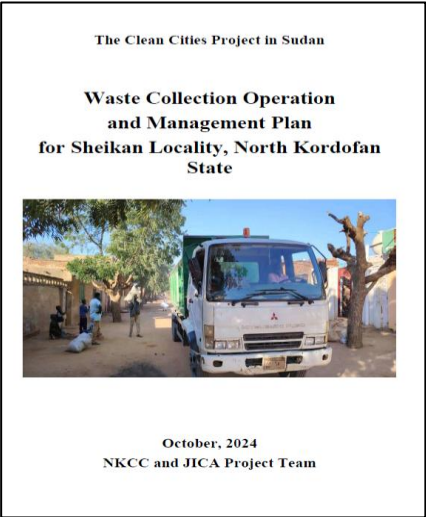
Delivery Schedule of Grant Aid Equipment

Item		State/Locality		Khartoum State	Red Sea State		North Kordofan State		Total
					Port Sudan	Suakin	Sheikan	Um-rawaba	
1. Collection vehicle	1-1. Compactor truck (12m³)		-	13	1	23	4	41	
	1-2. Container carrier (Lift type/8m³)	Vehicle	-	9	1	6	1	17	
		Container	-	18	2	12	2	34	
2. Transfer vehicle	2-1. Tractor head (32ton)		15	-	-	-	-	15	
	2-2. Container trailer (Open type / 75m³)		15	-	-	-	-	15	
3. Equipment for landfilling	3-1. Bulldozer (21ton)		-	1	-	1	-	2	
	3-2. Excavator (0.8m³)		-	1	-	-	-	1	
	3-3. Wheel loader (2.0m³)		-	-	1	-	1	2	
	3-4. Wheel loader (3.0m³)		-	-	-	1	-	1	
	3-5. Dump truck (9.0m³)		-	1	-	1	-	2	
Handover			April 2024	October 2024		Under transportation in domestic		-	

3. Community-led waste collection initiative in the TCP

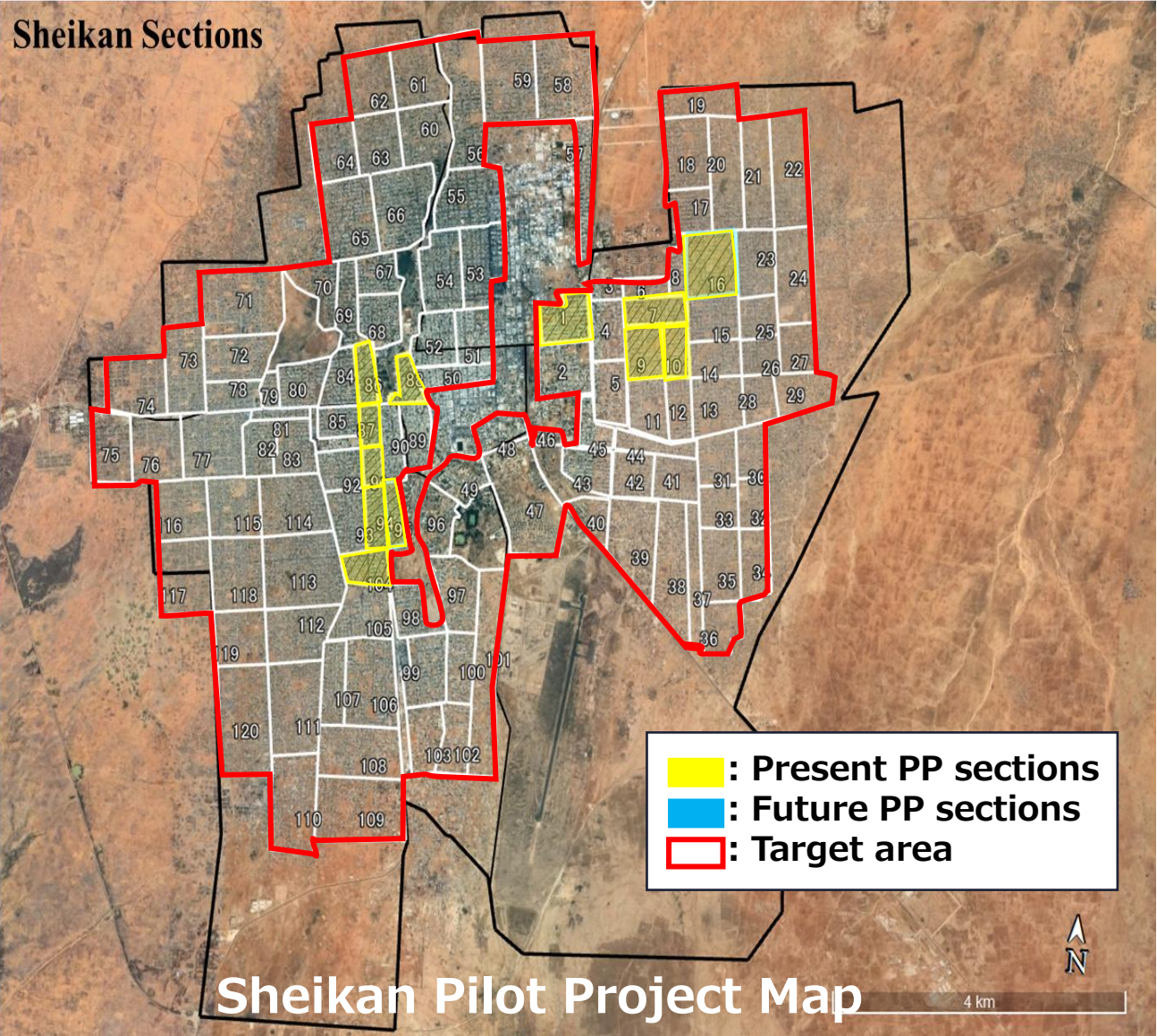
3-1. Waste collection (Sheikan, North Kordofan State)

Existing vehicles collect for Market waste : 8 out of 18 in operation.
PP vehicles collect for household waste : 3 Vehicles in operationon



3. Community-led waste collection initiative in the TCP

3-2. User Fee Collection Pilot Project for Household Waste (Sheikan)



User Fee Collection PP Implementation Section

Locality Name	Present PP sites	Future PP sites
Sheikan (120 Sections)	① Section 1	
	② Section 9	
	③ Section 10	
	④ Section 94	
	⑤ Section 86	
	⑥ Section 87	
	⑦ Section 88	
	⑧ Section 91	
	⑨ Section 7	
	⑩ Section 104	
	⑪ Section 16	
	⑫ Section 94	



Fix-place and fix-time collection

3. Community-led waste collection initiative in the TCP

3-3. Preparation flow of Fee Collection Pilot Project (PP)



(1)-1. Selection of PP area (Section) with CC Director

(1)-2. Explanation of PP to Section Leader

(1)-3. Distribution of leaflets to residents and plot numbering

(1)-4. Explanation of the PP to residents (Community meeting)

(1)-5. Start of waste collection

(1)-6. Start of use fee collection with managements table

(1)-7. Management of Income and expenditure

(2)-1. Preparation of a housing map

(2)-2. Confirmation of the housing map on site and examination of collection points and route with Section

(2)-3. Finalization of the housing map, collection points and routes, and explanation of them to residents



3. Community-led waste collection initiative in the TCP

3-4. Third Country Training to South Sudan



User fee collection
manual lecture



Community meeting



Distribution of leaflet



User fee collection



User Fee collector training



Steering committee

3. Community-led waste collection initiative in the TCP

3-4. Third Country Training to Sudan



2016 year
South Sudan C/P visit to
Sudan through JICA
Project

2017 year
Mr. Gosai of HCENR visit
to South Sudan and
support to conduct waste
quality and quantity
survey



3. Community-led waste collection initiative in the TCP

3-5. Third Country Training to Bangladesh

- Community participatory waste collection



Lecture in Ward Cleaning Office



Community Meeting

- Management of landfill sites



Management of Weighbridge data



Gas monitoring at landfill site

- Vehicle maintenance



Preventive maintenance



Washing Grant Aid vehicles



Knowledge sharing meeting with Governor



Knowledge sharing meeting with CC & LCA staffs



Knowledge sharing meeting with community leader

3. Community-led waste collection initiative in the TCP

3-6. Clean-up Campaign held in Collaboration with the Community



"Keep the city clean"



NKCC



Community

Strong relationship

3. Community-led waste collection initiative in the TCP

3-7. Public Awareness for User Fee Collection



Section leader meetings



Distribution Leaflet with explanation of PP

3. Community-led waste collection initiative in the TCP

3-8. User Fee Collection Rate in Sheikan

From October to December 2024

Locality	Section	# of HH	Use fee Collection Rate			Average
			Oct.	Nov.	Dec.	
Sheikan	S94	371	99% (369)	98% (366)	95% (355)	97%
	S1	502	95% (477)	81% (409)	87% (435)	88%
	S9	369	—	96% (355)	91% (336)	94%
	S10	337	—	89% (301)	96% (322)	93%
	S86	262	—	—	95% (248)	95%
	S87	249	—	—	99% (147)	99%
	S88	198	—	—	87% (173)	87%
	S91	169	—	—	92% (155)	92%
Average			97%	91%	93%	93%

() : The figures inside indicate the number of households with user fee paid

3. Community-led waste collection initiative in the TCP

3-9. User Fee Collection Amount in Sheikan

From October to December 2024

Locality	Section	Amount of Collected Fee (SDG)			Total (SDG)
		Oct.	Nov.	Dec.	
Sheikan	S94	1,107,000	1,089,000	1,065,000	3,261,000
	S1	1,383,000	1,227,000	1,305,000	3,915,000
	S9	—	1,065,000	1,008,000	2,073,000
	S10	—	903,000	996,000	1,899,000
	S86	—	—	744,000	744,000
	S87	—	—	441,000	441,000
	S88	—	—	519,000	519,000
	S91	—	—	465,000	465,000
Total		2,490,000	4,284,000	6,513,000	13,317,000

● 3,000 SDG/House ⇒ 5,000 SDG/House (From Feb. 2025)

3. Community-led waste collection initiative in the TCP

3-9. Balance of user Fee Collection in Sheikan

Income							Expenditure						Balance	
Section No.	HHs No.	Collected No.	Unit rate (SDG)	Unit rate (SDG)	Amount (SDG)	Amount (USD)	Items	Quantity	Unit rate (SDG)	Unit rate (USD)	Amount (SDG)	Amount (SDG)	(SDG)	(USD)
S94	(371)	(355)	4000	2.0	1,420,000	710	Fuel (litter)	25	2,600	1.3	65,000	32.5		
S1	(502)	(435)			1,740,000	870	Driver	1	4,400	2.2	4,400	2.2		
S9	(369)	(336)			1,344,000	672	Workers	2	4,000	2	8,000	4		
S10	(337)	(322)			1,288,000	644	Rate collector	1	5,000	2.5	5,000	2.5		
S86	(262)	(248)			992,000	496								
S87	(149)	(147)			588,000	294								
S88	(198)	(173)			692,000	346								
S91	(169)	(155)			620,000	310								
S7	(460)	(45)			180,000	90								
S104	(320)	(124)			496,000	248								
Total (1 month)						9,360,000	4,680	Sub total (1 day)				82,400	41.2	6,064,000
				Total (1 month)				3,296,000				1,648		

- Collected number of user fee for month of December
- 5000 SDG/House *0.2 (20% of the user fee collection is be charged by Sheikan Locality)

After Delivery GA vehicles, fee collection can be operated by collection user fee

3. Community-led waste collection initiative in the TCP

3-10. Amount of Waste collected in Sheikan

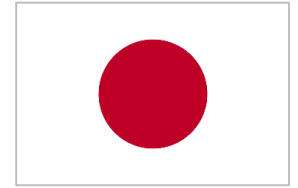
Unit: ton

Type of waste	Dec. 2021		Dec. 2024	
	Generated Amount	Collected Amount	Generated Amount	Collected Amount
Household	260.0	36.0	280.0	13.0 (4.6%)
Business	88.0		95.0	54.5 (57.4%)
Total	348.0	36.0(10.3%)	375.0	67.5 (18.0%)

10.3% ⇒ 18.0%
(Without GA vehicles)



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THANK YOU