

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPAL  
BENCH AT NEW DELHI  
ORIGINAL APPLICATION NO. 606 OF 2018

IN THE MATTER OF:

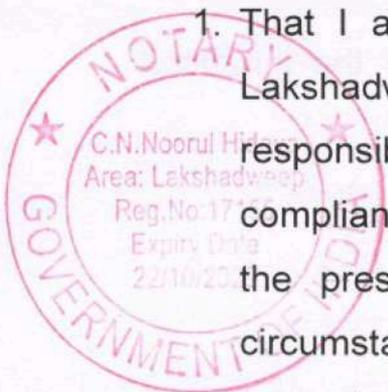
COMPLIANCE OF MUNICIPAL SOLID WASTE MANAGEMENT  
RULES, 2016 AND OTHER ENVIRONMENTAL ISSUES

AFFIDAVIT ON BEHALF OF THE ADVISOR TO THE  
ADMINISTRATOR, UNION TERRITORY OF LAKSHADWEEP, IN  
COMPLIANCE OF THE ORDER DATED 26.08.2025

MOST RESPECTFULLY SHOWETH:

I, Dr. S.B. Deepak Kumar, S/o Balraj Subbiah, aged about 45 years, presently posted as Advisor to the Administrator, Union Territory of Lakshadweep Administration, having my office at Kavaratti, Lakshadweep, do hereby solemnly affirm and state as under on the basis of the official records made available to me in my official capacity:

1. That I am the Advisor to the Administrator, Union Territory of Lakshadweep Administration, and am presently the officer responsible for supervising and coordinating matters relating to compliance with the directions issued by this Hon'ble Tribunal in the present case. I am well acquainted with the facts and circumstances of the matter and am duly authorised to file the present affidavit on behalf of the Lakshadweep Administration. The statements made herein are based on official records maintained by the concerned departments of the Administration.



*[Handwritten Signature]*  
C.N. NOORUL HOSSAIN  
ADVOCATE & NOTARY  
GOVT. OF INDIA, Area: Lakshadweep  
Reg.No:17155, Expiry Date:22/10/2029

## BRIEF INTRODUCTION

2. The Union Territory of Lakshadweep is the smallest Union Territory of India and consists of a chain of coral islands situated in the Arabian Sea. The Union Territory has a total geographical area of approximately 32 sq. km and comprises 12 atolls, 3 reefs and 6 submerged banks. Out of the total islands, 10 islands are inhabited and 17 islands remain uninhabited. The administrative headquarters of the Union Territory is located at Kavaratti Island. The islands are located at a distance of approximately 220 km to 440 km from the mainland coast of India, resulting in unique logistical and environmental management challenges.
3. As per the Census of India, 2011, the total population of Lakshadweep is 64,473 persons. The population growth during the decade 2001–2011 was 6.30%, as compared to 17.19% during the previous decade (1991–2001). Due to the limited land availability and fragile coral ecosystem of the islands, environmental management including solid and liquid waste management requires a decentralized and island-specific approach.
4. The population and geographical area of each of the inhabited islands of the Union Territory are as follows:

Sl. No.	Island	Population	Area (sq. km)
1	Agatti	7566	3.84
2	Amini	7661	2.60
3	Andrott	11191	4.90
4	Bitra	271	0.10



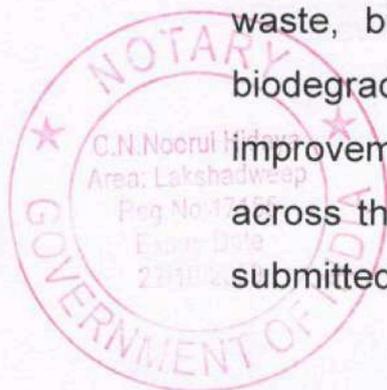
5	Chetlat	2347	1.40
6	Kadmat	5404	3.20
7	Kavaratti	11221	4.22
8	Kalpeni	4419	2.79
9	Kiltan	3946	2.20
10	Minicoy	10447	4.80

Total Population: 64,473

Total Area (inhabited islands): 30.05 sq. km

(Source: Census of India, 2011 and Lakshadweep Basic Statistics, 2023).

5. The present affidavit is being filed in compliance with the Order dated 26.08.2025 passed by this Hon'ble Tribunal in the above matter, wherein the Lakshadweep Administration was directed, inter alia, to furnish an updated status report regarding the implementation of solid and liquid waste management systems in the Union Territory. In compliance with the said directions, the present report provides the status of actions undertaken by the Administration during the period from 01.09.2025 to 28.02.2026.
6. Subsequent to the observations and directions issued by this Hon'ble Tribunal, the Lakshadweep Administration has undertaken various measures to strengthen the management of municipal solid waste, biodegradable waste processing, transportation of non-biodegradable waste to mainland recycling facilities, and improvement of sewage and liquid waste management systems across the inhabited islands. The details of the actions taken are submitted hereunder.



*(Signature)*  
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## A. SOLID WASTE MANAGEMENT

### 7.1 Assessment of Biodegradable Waste Generation

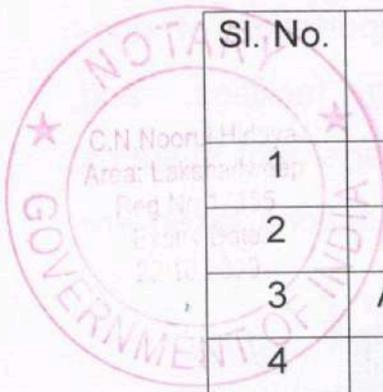
The Hon'ble Tribunal observed that approximately 6 TPD of organic/biodegradable waste generated from households, hotels and other establishments is being processed through livestock feeding and biogas plants and directed that the actual assessment of biodegradable waste generation be disclosed.

In this regard, it is respectfully submitted that the Lakshadweep Administration has undertaken an assessment of biodegradable waste generation based on household data and field studies. The total number of households in Lakshadweep has been assessed as 13,370 households based on the Har Ghar Jal (HGJ) Census 2024.

An experimental study conducted in Kavaratti Island during the year 2020 indicated that the average kitchen waste generation in Lakshadweep households is approximately 0.5 kg per household per day.

Based on these parameters, the biodegradable waste generation in Lakshadweep is estimated as follows:

Sl. No.	Island	Total HH	Estimated Kitchen Waste Generation per Day (kg)
1	Agatti	1517	758.5
2	Amini	1591	795.5
3	Andrott	2090	1045
4	Bitra	86	43



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5	Chetlat	608	304
6	Kadmat	1228	614
7	Kalpeni	1081	540.5
8	Kavaratti	2600	1300
9	Kiltan	900	450
10	Minicoy	1669	834.5

Total estimated biodegradable waste generation across Lakshadweep is 6685 kg/day ( $\approx$  6.685 tonnes per day). The biodegradable waste generated from households is largely utilised locally through:

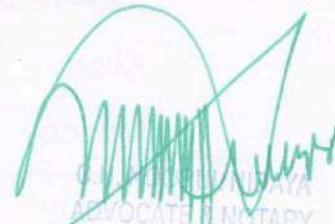
- feeding to cattle and poultry
- utilisation in household and community biogas plants
- composting and kitchen garden use.

With regard to the observation concerning the livestock feed requirement of 10.64 TPD, it is respectfully submitted that the said figure represents the total feed requirement of livestock across the islands and not the quantity of biodegradable waste generated within the islands.

The difference between the locally generated biodegradable waste (approximately 6.685 TPD) and the total feed requirement (10.64 TPD) is met through commercial livestock feed and other feed materials transported from the mainland.

The detailed household-wise estimation of kitchen waste generation is enclosed as **ANNEXURE-I**.



  
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## 7.2 Segregation, Door-to-Door Collection and Handling at CGDs

Waste generated from households is segregated at source into biodegradable and non-biodegradable fractions and stored separately. Biodegradable waste is largely managed at the household level through livestock feeding and utilisation in biogas plants.

Non-biodegradable waste generated from households, shops, institutions and other establishments is collected through door-to-door collection systems operated by service providers engaged by the Village (Dweep) Panchayats.

During the period September 2025 to February 2026, a total of 1,265,472 kg of non-biodegradable waste was collected through the house-to-house collection system across the inhabited islands.

The island-wise collection during this period is as follows:

Island	Waste Collected (kg)
Agatti	201,634
Amini	201,964
Andrott	253,400
Bitra	15,283
Chetlat	27,936
Kadmat	89,217
Kalpeni	75,082
Kavaratti	154,818
Kiltan	38,693
Minicoy	207,445



  
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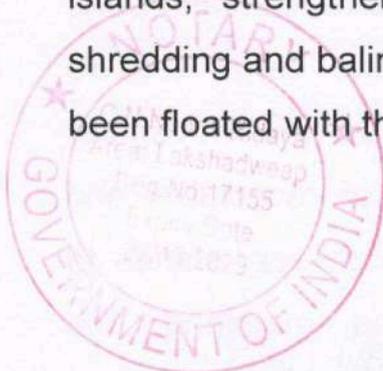
The monthly collection totals during this period are as follows:

Month	Waste Collected (kg)
September 2025	223,930
October 2025	230,571
November 2025	213,863
December 2025	193,436
January 2026	212,501
February 2026	191,171

The island wise details of collection of non-biodegradable waste are provided as **ANNEXURE-II**

The collected waste is transported to the Central Garbage Depositories (CGDs) established in each inhabited island. At the CGD sites, the waste undergoes secondary segregation into categories such as plastic covers, bottles and glass, metal scrap, rubber, paper and cardboard, cement bags, ropes and cloth bags, tube lights and LED lamps, e-waste and other miscellaneous materials. The segregation records maintained at CGD sites are enclosed as **ANNEXURE-III**.

The CGD facilities at Kadmat, Kavaratti and Agatti islands are equipped with shredder and bailer machines for volume reduction and packing of segregated waste prior to transportation. For the remaining inhabited islands, strengthening of CGD infrastructure including provision of shredding and baling facilities is under implementation, and tenders have been floated with the work presently in progress.



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 ADVOCATE NOTARY  
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 Reg. No: 17155, Expiry Date: 22/12/2025

### 7.3 Island-wise Waste Generation and Transportation to Mainland

Based on monthly Gram Panchayat records for the period July 2024 to June 2025, the non-biodegradable waste generation in Lakshadweep is approximately 6.349 tonnes per day.

The island-wise generation is as follows:

Island	Waste Generation (TPD approx.)
Agatti	1.06
Amini	0.99
Andrott	1.09
Bitra	0.059
Chetlat	0.23
Kadmat	0.40
Kalpeni	0.60
Kavaratti	0.70
Kiltan	0.23
Minicoy	0.99

After segregation and packing at CGD sites, recyclable materials are bundled category-wise in approximately 50 kg packages to prevent spillage and facilitate safe transportation.

The packed materials are transported from the islands to mainland ports such as Kochi and Beypore through passenger and cargo vessels operating between Lakshadweep and the mainland. From November 2024 onwards, a total of 1,552.14 metric tonnes of recyclable and incinerable waste has been transported from Lakshadweep islands to mainland recycling facilities. Upon delivery at the mainland, the

authorised recycler issues receipts confirming the quantity and category of waste received. The transportation records are enclosed as **ANNEXURE-IV**.

#### **7.4 Biogas Plants and Performance Audit**

Biogas plants have been installed in Minicoy, Kavaratti and Kalpeni islands, with plant capacities ranging between 0.6 m<sup>3</sup> and 2.0 m<sup>3</sup>. These plants utilise household kitchen waste, fish waste and vegetable waste as feedstock and generate biogas that can be utilised for cooking for approximately 1–4 hours per day, depending on feedstock availability.

In compliance with the directions of this Hon'ble Tribunal regarding performance evaluation of these plants, the Lakshadweep Administration arranged for a technical performance audit by Tamil Nadu Agricultural University (TNAU), Coimbatore, which functions as a recognised Biogas Development Training Centre.

Two scientists from TNAU conducted field inspections during 17.02.2026 to 21.02.2026 at the biogas plants located in Kalpeni, Kavaratti and Minicoy islands, and submitted their report on 09.03.2026.

The audit report observed that:

- the biogas plants are generally functioning satisfactorily
- the primary feedstock consists of household food waste, fish waste and vegetable waste
- methane content ranged between 55% and 65%, indicating acceptable gas quality
- digested slurry is utilised in household kitchen gardens

- installation of biogas plants has reduced LPG consumption by approximately 25%–50% in beneficiary households
- average daily biogas utilisation was approximately 2–3 hours.

The audit also identified certain operational issues relating to feedstock preparation, pipeline layout and slurry management. The Lakshadweep Administration has taken note of these observations and necessary corrective measures and awareness programmes for beneficiaries are being undertaken to improve operational efficiency of the biogas plants.

Based on the findings of the inspection report, the Administration will review the operational practices of the existing biogas plants and plan appropriate measures for improving their performance and utilisation, including technical guidance to beneficiaries and optimisation of plant capacity wherever required. The detailed inspection report is enclosed as **ANNEXURE-V**.

## **B. Liquid Waste Management**

### **8.1 Sewage Management and Installation of High-Performance Biodigesters**

At present, management of black water in Lakshadweep is primarily carried out through septic tanks followed by soak pits at the household level.

In addition, 1,618 biodigesters have been installed earlier in Kavaratti, Andrott and Bitra islands, and their performance has been evaluated by DRDO/DRDE.

Subsequently, Defence Research and Development Organisation (DRDO) has developed High-Performance Biodigesters (HPBDs) with improved treatment efficiency. These systems incorporate multi-stage

treatment including anaerobic treatment, aerobic treatment, roughing filtration and chlorination, with the objective of improving effluent quality in environmentally sensitive island ecosystems.

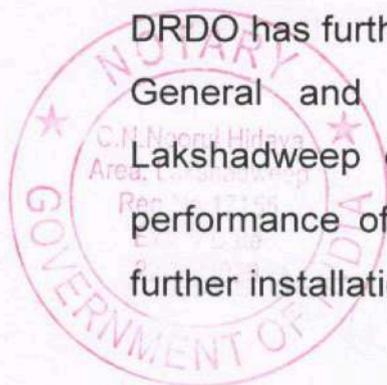
In order to strengthen decentralized sewage management in Lakshadweep, the Administration requested DRDO through the Ministry of Defence to support field evaluation of the HPBD technology in the islands. Based on this request, DRDO agreed to install 12 High-Performance Biodigesters on a pilot basis for field evaluation.

As part of this pilot implementation, four HPBD units have been commissioned at Kavaratti during November and December 2025 at the following locations:

- Two units at the Paramedical Hostel near Indira Gandhi Hospital
- One unit at the Dak Bungalow
- One unit at the Nursing College Hostel

The remaining units are proposed to be installed at identified locations as part of the ongoing pilot programme. DRDO advised that the biodigester system requires a minimum stabilisation period of two months prior to full operational assessment. Based on this guidance, activated carbon was loaded into the roughing filter on 18.02.2026 after completion of the stabilisation period.

DRDO has further informed that a technical team comprising the Director General and senior scientists of DRDO is scheduled to visit Lakshadweep during the fourth week of March 2026 to review the performance of the installed HPBD units and assess the feasibility of further installations. The Administration will review the performance of the



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pilot installations and plan further implementation of suitable sewage treatment systems across the inhabited islands based on the technical recommendations.

## 8.2 Groundwater Monitoring

Groundwater monitoring is being carried out on a periodic basis across the inhabited islands. Identified wells are monitored on a quarterly basis to assess water quality parameters including Fecal Coliform (FC) and E. coli (EC).

In addition to the scheduled monitoring programme, water samples are also collected on a random basis and upon receipt of public complaints. In cases where contamination is detected, immediate remedial measures such as chlorination and disinfection of the affected sources are undertaken, along with necessary advisory to residents to prevent further contamination.

## C. RING FENCE ACCOUNT

### 9.1 Funding for Solid and Liquid Waste Management

The Hon'ble Tribunal has directed that funds be allocated for establishing solid and liquid waste management facilities across the inhabited islands.

It is respectfully submitted that no environmental compensation has been imposed on the Union Territory of Lakshadweep in the present matter, and therefore no specific direction has been issued requiring the creation of a ring-fenced environmental compensation account.

However, the Lakshadweep Administration is implementing waste management infrastructure under the Swachh Bharat Mission (Grameen)

– Central Sector Scheme, under which 100% financial assistance is provided by the Ministry of Jal Shakti to Union Territories without legislatures.

Under the Annual Implementation Plans (AIP) approved under SBM (G), funding is provided for the following components:

- a. Solid Waste Management
- b. Grey Water Management
- c. Plastic Waste Management
- d. Faecal Sludge Management
- e. Construction of Individual Household Latrines (IHHL)
- f. Community Sanitary Complexes
- g. IEC and Capacity Building
- h. Administrative Charges

The AIP allocations received for Lakshadweep during the recent years are as follows:

Year	Allocation (₹ Crore)
2022–23	7.74
2023–24	4.00
2024–25	2.70
2025–26	3.32

Funds under the approved AIPs are being released to Village Water and Sanitation Committees (VWSCs) functioning under the Village Dweep Panchayats for implementation of island-specific sanitation and waste management facilities.

Thus, the requirements relating to funding for solid and liquid waste management infrastructure in Lakshadweep are being addressed

through the Swachh Bharat Mission (Grameen) framework, which provides a dedicated mechanism for financing such activities.

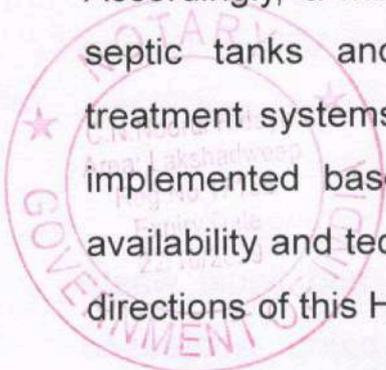
The expenditure incurred towards sanitation activities, including ward-wise cleaning, door-to-door waste collection, and packing and transportation of non-biodegradable waste from the islands to mainland recycling facilities, is reflected in the expenditure statement under the Swachh Lakshadweep Abhiyan for FY 2024–25, enclosed as **ANNEXURE-VI**.

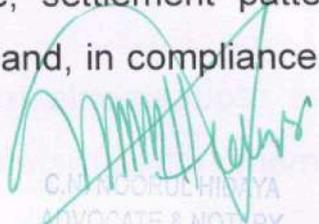
The Department of Panchayats has proposed the Annual Implementation Plan (AIP) for the year 2026–27 under the Swachh Bharat Mission (Grameen) Phase II. The component-wise physical and financial details are annexed at **ANNEXURE-VII**.

### **9.2 Infrastructure Appropriate to Island Population**

The population of the inhabited islands varies significantly, ranging from 271 persons in Bitra Island to 11,221 persons in Kavaratti Island. Considering the variation in population and settlement pattern across the islands, the Administration is adopting a combination of individual household-level systems and community-level sanitation infrastructure for effective management of liquid waste and sewage.

Accordingly, a mix of individual household sanitation systems such as septic tanks and biodigesters, and community-level decentralized treatment systems for clusters of households and institutions, is being implemented based on the population size, settlement pattern, land availability and technical feasibility in each island, in compliance with the directions of this Hon'ble Tribunal.



  
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 ADVOCATE & NOTARY  
 GOVT. OF INDIA, Area: Lakshadweep  
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10. The Union Territory of Lakshadweep Administration is undertaking all necessary measures to comply with the directions issued by this Hon'ble Tribunal from time to time in the present matter.

11. The Lakshadweep Administration respectfully submits that it shall continue to monitor and strengthen the implementation of solid and liquid waste management systems in the islands and shall place further status reports before this Hon'ble Tribunal as and when directed.

12. The annexures annexed to the present affidavit are true copies of their respective originals.

13. The present affidavit is submitted bona fide and in the interest of justice.



**VERIFICATION**

Verified at Kavaratti, Lakshadweep on this 14<sup>th</sup> day of March, 2026 that the contents of the above affidavit are true and correct to my knowledge and belief based on the official records available with the Lakshadweep Administration. No part of the same is false and nothing material has been concealed therefrom.

**DEPONENT**

Advisor to the Administrator  
U.T. of Lakshadweep  
Kavaratti-682555



EXECUTED & SIGNED IN MY PRESENCE  
ON 14/03/2026 AT LAKSHADWEEP

C.N. MOORTHY HIDAYA  
ADVOCATE & NOTARY  
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GOVT. OF INDIA, Arma, Lakshadweep  
Reg. No:17155, Expiry Date:22/10/2029

**DEPONENT**

Advisor to the Administrator  
U.T. of Lakshadweep  
Kavaratti-682555

Kitchen waste generation in Islands/day

Sl. No	Name of Islands	Total HH in Island	Kitchen waste generation/HH (in kg)	Total waste generation/day (TPD)
1	Agatti	1517	0.5	758.50
2	Amini	1591	0.5	795.50
3	Andrott	2090	0.5	1045
4	Bitra	86	0.5	43
5	Chetlat	608	0.5	304
6	Kadmat	1228	0.5	614
7	Kalpeni	1081	0.5	540.50
8	Kavaratti	2600	0.5	1300
9	Kiltan	900	0.5	450
10	Minicoy	1669	0.5	834.50
	<b>Total</b>	<b>13370</b>	<b>0.5</b>	<b>6685</b>



(Aditya Bhatt, DANICS)  
Director, Panchayats

- Note:** 1. Household data collected from Har Gar Jal (HGJ) census, 2024  
2. The average kitchen waste generation data estimated from experimental collection at Kavaratti Island during the year 2020.

## Annexure-II

Collection details (September 2025- February 2026) (in Kgs)								
Sl. No.	Name of islands	Sep, 25	Oct, 25	Nov, 25	Dec, 25	Jan, 26	Feb, 26	Total
1	Agatti	37410	39971	35325	28713	31254	28961	201634
2	Amini	36941	38126	20718	26226	43828	36125	201964
3	Andrott	42000	43400	42000	43400	43400	39200	253400
4	Bitra	2838	2803	2970	2532	2013	2127	15283
5	Chetlat	5272	7300	5191	5256	4917	0	27936
6	Kadmat	10177	16090	25479	13951	10592	12928	89217
7	Kalpeni	20360	10873	10801	10871	12337	9840	75082
8	Kavaratti	30021	25997	23970	27079	23665	24086	154818
9	Kiltan	7738	5960	7560	5976	5254	6205	38693
10	Minicoy	31173	40051	39849	29432	35241	31699	207445
	<b>Total</b>	<b>223930</b>	<b>230571</b>	<b>213863</b>	<b>193436</b>	<b>212501</b>	<b>191171</b>	<b>1265472</b>



Aditya Bhatt, DANICS  
Director (Panchayats)

## Segregation details (September 2025 to February 2026)

ANNEXURE-III

Sl.no.	Month	Name of Islands	Bottle	Glass	tube/led	Plastic cover	hard plastic	rubber	scraps	e-waste	cement	rope	other	cloth bags	packing items	total
1	Sep-25	Agatti	1394	1839	92	6098	3244	2257	1702	127	7383	11	13263			37410
2		Ammini	2650	2096		3173	2844	4107	1483	536	4077	351	6674	1011	1170	30172
3		Andrott	239	1515	218	7365	336	1565	228	634	7335	200	10210			29845
4		Bitra	92	320	33	137	456	339	427	56	389	59	530			2838
5		chelrat	128	683	58	203	842	716	763	66	798	80	935			5272
6		Kadmat	187	720	4	1699	1180	740	185	86	2985	45	2346			10177
7		Kalpeni	2448	1583	497	2220	1486	1935	1334	1013	2690	1879	3275			20360
8		Kavaratti	1326.3	2147.2	30.5	3625.9	5040.4	2480	1720.6	614.8	2296.8	185	11753.7			31221.2
9		Kilhan	1034	578	29.1	988	1097	934	25.4	26	1291	7	1728			7737.5
10		Mimicoy	712.2	333.1	228.3	13742	3146.1	166.5	213.44	431	982	110.6	2363.48			22428.7
		<b>Total</b>	<b>10210.5</b>	<b>11814.3</b>	<b>1189.9</b>	<b>39250.9</b>	<b>19671.5</b>	<b>15239.5</b>	<b>8081.44</b>	<b>3589.8</b>	<b>30226.8</b>	<b>2927.6</b>	<b>53078.2</b>	<b>1011</b>	<b>1170</b>	<b>197461</b>
Sl.no.	Month	Name of Islands	Bottle	Glass	tube/led	Plastic cover	hard plastic	rubber	scraps	e-waste	cement	rope	other	cloth bags	packing items	total
1	Oct-25	Agatti	1371	945	53	5686	2857	1413	1155	98	13290	73	12312	0	0	39253
2		Ammini	2454	2983	0	2457	2879	2799	1681	549	4106	807	6666	1216	1404	30001
3		Andrott	245	1580	235	7425	351	1610	244	674	7590	233	10475			30662
4		Bitra	138	314	63	150	433	365	376	32	401	79	452			2803
5		chelrat	149	948	65	284	1151	981	1083	93	1112	107	1327			7300
6		Kadmat	282	930	0	2480	1795	1210	65	323	6105	25	2875			16090
7		Kalpeni	620	1093	471	1334	742	1116	791	739	1414	526	2027			10873
8		Kavaratti	1019.5	1880	42.3	4200.8	2857.3	2064	1287.5	388.7	1785.4	110.8	10359.8			25996.1
9		Kilhan	605.2	387	31	641	888	605	24.3	5	1123.4	1	1647.1			5958
10		Mimicoy	1736.51	598.3	460.27	12948.8	3745.75	6482.7	1115.7	465.4	1773.7	595.9	3761.6			33684.6
		<b>Total</b>	<b>8620.21</b>	<b>11658.3</b>	<b>1420.57</b>	<b>37606.6</b>	<b>17699.05</b>	<b>18645.7</b>	<b>7822.5</b>	<b>3367.1</b>	<b>38700.5</b>	<b>2557.7</b>	<b>51902.5</b>	<b>1216</b>	<b>1404</b>	<b>202621</b>
Sl.no.	Month	Name of Islands	Bottle	Glass	tube/led	Plastic cover	hard plastic	rubber	scraps	e-waste	cement	rope	other	cloth bags	packing items	total
	Nov-25	Agatti	1580	1188	43	6837	2925	2132	1032	134	6622	11	12821			35325
		Ammini	782	865	0	1683	1635	2260	740	191	1965	222	3319	363	342	14567
		Andrott	314	1315	287	7637	475	1670	267	641	7670	233	10737			31246
		Bitra	151	288	102	155	541	494	539	51	262	60	327			2970
		chelrat	416	429	431	203	747	523	435	106	745	112	1044			5191
		Kadmat	309	1515	323	3475	1708	1549	0	229	13055	479	2837			25479
		Kalpeni	552	1009	452	1343	804	1062	804	732	1413	555	2060			10786
		Kavaratti	951.8	1277	22.7	3944	2746.8	1941.3	1396	374.2	1595	169.4	9552.4			23970.6
		Kilhan	551	615	33	842	821	872	36	0	1344	5	2441			7560
		Mimicoy	1035.6	548.7	264.65	12239.9	3831.3	599	949.8	312.85	1057.2	279.6	6359.9			27478.5
		<b>Total</b>	<b>6642.4</b>	<b>9049.7</b>	<b>1958.35</b>	<b>38358.9</b>	<b>16234.1</b>	<b>13102.3</b>	<b>6198.8</b>	<b>2771.05</b>	<b>35728.2</b>	<b>2126</b>	<b>51498.3</b>	<b>363</b>	<b>342</b>	<b>184373</b>

S.No	Month	Name of Islands	Bottle	Glass	tube/led	Plastic cover	hard plastic	rubber	scraps	e-waste	cement	rope	other	cloth bags	packing items	total
1	Dec-25	Agatti	1521	1702	67	4635	2923	1451	855	25	5580	382	9572		1224	28713
2		Amini	1521	788	0	1975	2157	1460	699	195	7017	663	4746	710		23155
3		Andrott	334	1433	332	7836	352	1737	305	748	7928	271	11228			32504
4		Bitra	158	218	97	156	418	417	426	27	260	76	279			2532
5		chetlat	439	445	432	229	741	533	411	107	772	116	1031			5256
6		Kadmat	204	948	196	2191	871	644	0	40	6827	140	1890			13951
7		Kalpeni	614	903	505	1380	780	1186	799	666	1318	584	2110			10845
8		Kavaratti	1124.7	1544.3	22.03	3297.1	3009.1	1842.9	1309.7	402.7	1949.2	12.5	9902.8			24417
9		Kiltan	551	615	33	842	821	872	36	0	1344	5	2441			7560
10		Mimicoy	554.3	232	128.5	14311	1856	382.5	516.3	281.1	721	208	4201			23391.7
		<b>Total</b>	<b>7021</b>	<b>8828.3</b>	<b>1812.53</b>	<b>36852.1</b>	<b>13928.1</b>	<b>10525.4</b>	<b>5357</b>	<b>2491.8</b>	<b>33716.2</b>	<b>2457.5</b>	<b>47400.8</b>	<b>710</b>	<b>1224</b>	<b>172325</b>

S.No	Month	Name of Islands	Bottle	Glass	tube/led	Plastic cover	hard plastic	rubber	scraps	e-waste	cement	rope	other	cloth bags	packing items	total
1	Jan-26	Agatti	2008	1915	7	5112	3036	2115	757	0	5672	593	10039		1194	31254
2		Amini	1867	1049	0	2905	3348	1700	1021	227	7235	655	5099	663		26963
3		Andrott	420	1115	351	8555	371	1187	369	644	8323	83	11427			32845
4		Bitra	114	197	72	156	360	266	336	40	202	64	206			2013
5		chetlat	395	424	397	220	639	519	394	105	701	112	1011			4917
6		Kadmat	165	700	145	1250	1040	228	0	94	4890	165	1915			10592
7		Kalpeni	765	1112	458	1468	983	1310	981	846	1589	645	2180			12337
8		Kavaratti	1029	1441	30.3	2693.1	2477.6	1771.8	1048.1	376.4	1154.5	0	8940.1			20961.9
9		Kiltan	468	313	76	681	542	445	19	0	963	0	1747			5254
10		Mimicoy	815	103	93	11974	5455	621	286	162	912	232	4372			25025
		<b>Total</b>	<b>8046</b>	<b>8369</b>	<b>1629.3</b>	<b>35014.1</b>	<b>18251.6</b>	<b>10162.8</b>	<b>5211.1</b>	<b>2494.4</b>	<b>31641.5</b>	<b>2549</b>	<b>46936.1</b>	<b>663</b>	<b>1194</b>	<b>172162</b>

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S.No	Month	Name of Islands	Bottle	Glass	tube/led	Plastic cover	hard plastic	rubber	scraps	e-waste	cement	rope	other	cloth bags	packing items	total
1	Feb-26	Agatti	1563	1475	88	3852	3717	1675	923	47	5003	531	10087		1196	28961
2		Amini	2651	1610	0	3091	3436	2511	2336	0	7783	994	4854	393		30855
3		Andrott	342	1183	410	7388	327	1300	301	726	7138	270	9980			29365
4		Bitra	146	198	85	108	355	324	418	35	157	98	203			2127
5		chetlat	0	0	0	0	0	0	0	0	0	0	0			0
6		Kadmat	258	801	231	2276	1030	316	50	141	5250	230	2345			12928
7		Kalpeni	756	818	406	1235	739	1040	822	519	1256	597	1652			9840
8		Kavaratti	1254	1505.1	34.9	2770.5	3316.3	2260.1	1346	572.3	1522	72.9	8704.2			23358.3
9		Kiltan	659	292	67	855	749	527	27	0	1144	20	1865			6205
10		Mimicoy	906	70	416	6721	4689	478	365	66	5056	180	2699			21646
		<b>Total</b>	<b>8535</b>	<b>7952.1</b>	<b>1737.9</b>	<b>28296.5</b>	<b>18358.3</b>	<b>10431.1</b>	<b>6588</b>	<b>2106.3</b>	<b>34309</b>	<b>2992.9</b>	<b>42389.2</b>	<b>393</b>	<b>1196</b>	<b>165285</b>

Director of Panchayats  
 U.T of Lakshadweep  
 Kavaratti - 692 555

ANNEXURE-IV					
Transportation details for the period from June 2024 to December 2025					
Sl.No	Name of the islands	Consignment date	Name of Vessel	Quantity transported to mainland (in Kg)	Recycler who received the waste
1	Agatti	18.07.2024	M.V.Sagar Yuvaraj	9286	CM Scraps Traders
		20.09.2024	M.V.Sagar Yuvaraj	15675	CM Scraps Traders
		02.12.2024	MSV Hasbunalla	35760	M/s Nadheem Enterprises
		09.12.2024	M.V.Sagar Yuvaraj	42545	M/s Nadheem Enterprises
		10.02.2025	MSV Salwasarwathi	19750	M/s Nadheem Enterprises
		14.02.2024	MV Sagar Samraj	23100	M/s Nadheem Enterprises
		14.02.2024	MSV Dikshachandini	11845	M/s Nadheem Enterprises
		30.03.2025	MSV Salwasarwathi	39115	M/s Nadheem Enterprises
		08.04.2025	MSV Dikshachandini BDI 1483	33445	M/s Nadheem Enterprises
		22.04.2025	MSV Mandovi	41565	M/s Nadheem Enterprises
		28.04.2025	MSV Saraswathi	36100	M/s Nadheem Enterprises
		30.04.2025	MSV Mandovi	3890	M/s Nadheem Enterprises
		20.10.2025	MSV Tharun Velan	9200	M/s Nadheem Enterprises
		25.11.2025	MSV AADESH	22800	M/s Nadheem Enterprises
		27.12.2025	MSV Mandovi	5225	M/s Nadheem Enterprises
		26.01.2026	MV Bathusha	33472	Thachanattukara Framer Producer Company Pvt Ltd.
<b>Total</b>				<b>382773</b>	
2	Amini	05.08.2024	M.V.Sagar Samraj	95000	CM Scraps Traders
		27.10.2024	MV Marine Line	34090	CM Scraps Traders
		19.12.2024	MV Sagar Samraj	124060	M/s Nadheem Enterprises
		29.12.2024	MV Thinnakara	45840	M/s Nadheem Enterprises
		06.02.2025	MSV Noor Al Kadiri	30054	M/s Nadheem Enterprises
		18.02.2025	MSV Noor A Kadiri	26678	M/s Nadheem Enterprises
		28.04.2025	MSV Noor A Kadiri	47025	Thachanattukara Framer Producer Company Pvt Ltd.
		11.05.2025	MSV Noor A Kadiri	70049	Thachanattukara Framer Producer Company Pvt Ltd.
		05.09.2025	MV Sagar Samraj	33203	Thachanattukara Framer Producer Company Pvt Ltd.
		13.11.2025	MV Noor Al Kadiry	69856	Thachanattukara Framer Producer Company Pvt Ltd.
<b>Total</b>				<b>575855</b>	
3	Andrott	29.08.2024	M.V.Sagar Yuvaraj	11340	Grand Enterprises
		29.10.2024	M.V. Laccadives	30325	Grand Enterprises
		27.12.2025	M.V Thinnakara	102684	M/s Nadheem Enterprises
		23.01.2025	M.V Sagar Samraj	35600	M/s Nadheem Enterprises
		27.03.2025	M.V Sarkar	103330	M/s Grand Enterprises
<b>Total</b>				<b>283279</b>	
4	Bitra	02.03.2025	M.V Laccadives	21661	M/s Nadheem Enterprises
<b>Total</b>				<b>21661</b>	
5	Chetlat	12.02.2025	MSV Beefathima MNG 465	66289	M/s Nadheem Enterprises
		01.03.2025	MSV Beefathima MNG 465	52820	M/s Nadheem Enterprises
		30.03.2025	MSV Beefathima MNG 465	22166	M/s Nadheem Enterprises
		28.04.2025	MSV Beefathima MNG 465	24745	Thachanattukara Framer Producer Company Pvt Ltd.
		10.05.2025	MSV Beefathima MNG 465	38145	Thachanattukara Framer Producer Company Pvt Ltd.
		12.2025	MSV Beefathima MNG 465	38561	Thachanattukara Framer Producer Company Pvt Ltd.
<b>Total</b>				<b>242726</b>	

6	Kadmat	24.06.2024	M.V Sagar Yuvraj	48500	CM Scraps Traders
		19.10.2024	MSV Mariya Matha	18220	CM Scraps Traders
		24.12.2024	MSV Noor Al Kadiri	33325	CM Scraps Traders
		01.02.2025	MSV Beefathima	10611	CM Scraps Traders
		08.04.2025	MSV Salamath	10237	M/s Nadheem Enterprises
		18.05.2025	MSV Badariya-II	18340	M/s Nadheem Enterprises
<b>Total</b>				<b>139233</b>	
7	Kalpeni	29.12.2024	MSV Murugan Thunai	36729	M/s Nadheem Enterprises
		20.01.2025	M.V Sagar Yuvraj	41406	M/s Nadheem Enterprises
		01.03.2025	Jesus Heart (TTN 231)	59970	M/s Nadheem Enterprises
		29.03.2025	MSV Alsattari	33358	Thachanattukara Frammer Producer Company Pvt Ltd.
<b>Total</b>				<b>171463</b>	
8	Kavaratti	27.06.2024	M.V Sagar Yuvraj	87003	CM Scraps Traders
		11.07.2024	M.V Sagar Yuvraj	26411	CM Scraps Traders
		30.08.2024	M.V Sagar Yuvraj	23249	CM Scraps Traders
		11.12.2024	M.V Sagar Yuvraj	35070	M/s Nadheem Enterprises
		23.12.2024	M.V Sagar Samraj	24264	M/s Nadheem Enterprises
		09.01.2025	M.V Sagar Yuvraj	73786	M/s Nadheem Enterprises
		19.01.2025	M.V Sagar Samraj	40268	M/s Nadheem Enterprises
		20.02.2025	MSV Beefathima	21598	M/s Nadheem Enterprises
		15.03.2025	MSV. K. Muthamma	25222	M/s Nadheem Enterprises
		23.04.2025	MSV. K. Muthamma	40250	Thachanattukara Frammer Producer Company Pvt Ltd.
		08.05.2025	MSV. K. Muthamma	36488	Thachanattukara Frammer Producer Company Pvt Ltd.
		21.05.2025	MSV Badariya	20528.5	Thachanattukara Frammer Producer Company Pvt Ltd.
		09.08.2025	MV Sagar Samraj	7164.84	Thachanattukara Frammer Producer Company Pvt Ltd.
18.11.2025	MSV Saraswati	84560	Thachanattukara Frammer Producer Company Pvt Ltd.		
<b>Total</b>				<b>545862.34</b>	
9	Kiltan	18.01.2025	M.V Sagar Samraj	44898	M/s Nadheem Enterprises
		17.03.2025	M.V Sagar Samraj	35134	M/s Nadheem Enterprises
		13.11.2025	MSV. RS Kamali	14880	Thachanattukara Frammer Producer Company Pvt Ltd.
		24.11.2025	MSV Beefathima	33093	Thachanattukara Frammer Producer Company Pvt Ltd.
		13.12.2025	MSV Beefathima	8923.2	Thachanattukara Frammer Producer Company Pvt Ltd.
<b>Total</b>				<b>136928.2</b>	
10	Minicoy	17.03.2025	M.V Thinnakara	16000	Nadheem Enterprises
		26.05.2025	M.V Thinnakara	24269	Nadheem Enterprises
<b>Total</b>				<b>40269</b>	
<b>Grand total</b>				<b>2540049.54</b>	

  
 Aditya Bhatt, DANICS  
 Director (Panchayats)

**PERFORMANCE EVALUATION AND ENERGY AUDIT OF  
BIOGAS PLANTS INSTALLED AT THE  
LAKSHADWEEP ISLANDS**



*REPORT -2026*

**BIOGAS DEVELOPMENT AND TRAINING CENTRE**

*Department of Renewable Energy  
Engineering Agricultural Engineering  
College and Research Institute Tamil  
Nadu Agricultural University  
Coimbatore, Tamil Nadu-641003*

### About Lakshadweep

Lakshadweep, the smallest Union Territory consisting of 36 islands with an area of 32 km<sup>2</sup>. Lakshadweep has a tropical climate and it has an average temperature of 27° C – 32° C and relative humidity of 70-75%. Total population of Lakshadweep is about 64473. The organic waste produced in the three islands (Kalpeni, Kavaratti and Minicoy) is used as animal feed for livestock.

**Table1. Demographic details of islands of The Lakshadweep**

S. No	Name of Island	Total area, km <sup>2</sup>	Population	Number of houses
01	Agatti	3.84	7566	1517
02	Amini	2.60	7661	1591
03	Andrott	4.90	11191	2090
04	Bitra	0.10	271	86
05	Chetlat	1.40	2347	608
06	Kadmat	3.20	5404	1228
07	Kalpeni	2.79	4419	1081
08	Kavaratti	4.22	11221	2600
09	Kiltan	2.20	3946	900
10	Minicoy	4.80	10447	1669
	<b>Total</b>		<b>64473</b>	

### Performance Evaluation of installed Biogas Plants

A survey on performance of biogas plants installed at The Union Territory of Lakshadweep was carried out by the Biogas Development and Testing Centre, Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Coimbatore. Biogas plants have been installed at three islands viz., Kalpeni, Kavaratti and Minicoy of UT of Lakshadweep during 2016, 2018 and 2019. Visits have been made at Kavaratti and Kalpeni islands to assess the performance of the biogas plants between 17.02.2026 and 21.02.2026. Three biogas plants at Kavaratti and 29 biogas plants at Kalpeni islands were visited and data were collected on the operation, maintenance of biogas plants and applications of biogas and biodigested slurry.

**Methodology adopted**

Before starting the survey, a questionnaire was prepared to collect information on beneficiary details, plant information, feedstock data and biogas generation and consumption, effluent collection and usage; burner usage; operational problems, repair and maintenance etc..The collected data were made into a spreadsheet and the obtained information are studied thoroughly to assess the performance of the biogas plant, feedstock consumption and effective utilization .As a sampling test of gas quality, saccharometer has been used to assess the carbon dioxide content of biogas at beneficiaries' locations. The remaining portion is considered to be methane content of biogas. The data analysis and observation postulate the effective adaptation of biogas plants in the households of Union Territory of Lakshadweep.

**Kavaratti**

In Kavaratti, all the three plants are in operation and the biogas is being used for cooking. The digested effluent is used as organic manure in their household itself *ie.*, kitchen garden. In Kavaratti, three portable plants of 0.6, 0.75 and 1 m<sup>3</sup> are installed at the beneficiaries' locations.

**Kalpeni**

In the Kalpeni island, Deenbandhu model biogas plants were installed with 1 and 2m<sup>3</sup> capacities. Though the water table is nearer and habitat is near coastal, the plants have been commissioned well and most of them are in operation with the household, market-based feedstocks. Among the 29 biogas plants, 18 beneficiaries are effectively using biogas; 6 biogas plants are operational and the usage is occasional based on the visit of the family members to their residence at Kalpeni; by understanding the usage of the biogas plant one beneficiary is ready to revive the feeding and further usage; two plants are not in use and two plants have been demolished due to their family shifting and relocation.

The plants were visited and the common observations are presented below.

- The major feedstocks for the biogas plants are household food waste, kitchen waste, household or market fish wastes, shop-based vegetable or fruit waste etc.

# 1055

- Regular collection of food, fish and kitchen wastes at their houses and feeding to the biogas plant.
- Interestingly, it is observed that in few of the houses, the neighbours also provide their food and vegetable wastes, without dumping or disposing the waste in open, which otherwise would cause cleanliness issues in their environment.
- The qualitative measurement of biogas through saccharometer method revealed an average methane content in the range of 55 to 65% in the sampling households.
- Few houses voluntarily collect wastes from the shops and fish sales points to feed the plant.
- The repairs in the pipelines, burners etc. were attended by the local personnel
- All are effectively using the digested wastewater to their kitchen garden and other plants at the houses and backyard. Hence, disposal of digested waste is not a problem.
- Considering the cost of LPG, beneficiaries are interested in effective utilization of biogas for cooking and other thermal applications.
- It could be observed from their feedback, that about 25% to 50% of reduction in other fuels (mainly LPG) consumption is being achieved for cooking, due to the installation of biogas plants
- It is understood that, after the installation of biogas plant, the average consumption of LPG is reduced to about 7 - 10 cylinders per year from 10 - 12 cylinders per year (before the installation of biogas plant).
- The beneficiaries reported that the average usage of biogas per day is about 2 to 3 hours to meet out their thermal requirements.
- Understanding the biogas plant advantages and biogas utilisation, many of the neighbours of the beneficiaries are expressed their interest in the installation of biogas plant at their houses.

Apart from the general observations on the feeding and biogas consumption, specific technical issues observed during the visit and corresponding suggestions are provided for better adaptation of biogas plants at the Lakshadweep Islands.

# 1056

- In general, the plants are under loaded with available feedstocks at houses, shops and market. Hence, based on the availability of feedstocks, the capacity of biogas plant at the households may be selected (appr. 0.12 to 0.16 m<sup>3</sup>/kg)
- In few of the houses, the biogas outlet pipelines are with excess length, leading to the transport of generated biogas to a longer distance, which reduces gas pressure at the consumption point. This could results in lower the burner efficiency and increased cooking time, interrupted gas supply (due to water in the pipe line). The gas pipes may be checked and the shortest possible route may be suggested between biogas plant and stoves.
- The slope of the pipelines may also be taken care, so as to avoid the condensation of biogas water vapour along the passage of biogas in the pipes.
- Proper water mix may be educated to the beneficiaries, so as to have optimized 10% total solid content of the slurry for better biogas production.
- To the possible extend, the feedstocks may be size reduced and made into slurry for avoiding chocking at the inlet. It is observed in few of the plants, the size of the feedstocks is larger and with lesser water mixing.
- The outlet tanks of Deenbandhu biogas plants at Kalpeni are not provided with designed opening for automatic effluent discharge at regular interval. Hence, beneficiaries have to manually remove the effluent water as per their convenience and understanding. The higher level at the outlet tank provides lesser slurry displacement volume and ultimately lesser gas storage at the plant. Few are using pumps for effluent discharge, which leads to irregular slurry level at the digester and resulted into conditions variable for anaerobic microorganisms and further digestion. These lead to reduced gas production or reduced gas usage.
- The improper outlet slurry displacement may lead to total solid accumulation in the digester and reduce the slurry storage volume.
- Effort may be made to feed proper form of slurry and accordingly effluent removal for better biogas generation.

Based on the observations, the general suggestions are

- Considering the present operational conditions of the biogas plants at the Lakshadweep, there is scope for better extension of the scheme for the installation of biogas plant to the eligible beneficiaries.

- According to the feedstock availability, the capacity of the biogas plants may be selected for better functioning.
- Personnel may be available with technical knowledge for addressing the operational and maintenance issues in the biogas plants.
- For the construction of the biogas plant, trained masons at the locations will provide timely implementation and also problem solving.
- Beneficiaries may be educated for better utilisation of plant such as feeding in terms of quality and quantity, operations, problem identification etc.
- The households having the option of probable shifting of household, portable models may be suggested.
- If the local communities are interested, a large scale community based biogas plant may also be considered with due policies on feedstock collection, plant maintenance and biogas consumption among communities.

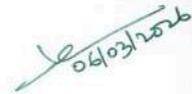
## Conclusion

The Kavaratti and Kalpeni islands are facilitated with biogas plants to treat the food, kitchen and fish wastes of the households. The installation of the biogas plants is good and the working of the biogas plants is satisfactory. Few technical issues to be addressed for effective functioning and utilisation of the biogas are suggested and may be considered for better implementation of the technology. Considering the past experience of The Lakshadweep islands in the installation and operation of biogas plant, there is better scope for further extension of the biogas plant installation to the eligible beneficiaries.



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/



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**Engineering**  
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**Visit to biogas plants installed at Kavaratti and Kalpeni islands of The Lakshadweep and interaction meeting with biogas beneficiaries**



**Visit to biogas plants installed at Kavaratti and Kalpeni islands of The Lakshadweep and interaction meeting with biogas beneficiaries**

## ACKNOWLEDGEMENT

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*Mrs. Thajunnisa CN, Junior Scientific officer*

*Shri. Naseem K, Technical Assistant,*

*Mrs. Beegum Thasleena, Technical Assistant*

*Shri. Mohammed Naha, Field Assistant, Kalpeni*

*Mr. Faizul Azeem, Field Assistant, Agatti*

## ANNEXURE-VI

## Expenditure statement of last FY 2024-25 under Swachh Lakshadweep Abhiyan

Sl.No.	Name of the islands	Ward wise cleaning programme	Tender for Door to Door collection				Tender Packing and transportation			
			Estimate/month	Quoted rate/month	Amount for 1 year	Actual released amount to VDPs (including previous year pending amount)	Estimate/month	Quoted rate/month	Amount for 1 year	Actual released amount to VDPs (including previous year pending amount)
1	Agatti	1944099	210000	185599	2227188	3319188	225000	128340	1540080	2428080
2	Amini	2296449	230300	229500	2754000	4049500	210000	240000	2880000	1440000
3	Andrott	3913714	301000	246000	2952000	4085743	208800	202050	2424600	1212300
4	Bitra	890570	0	0	0	0	0	0	0	0
5	Chetlat	2085126	107900	101111	1213332	1680590	130800	128730	1544760	1544760
6	Kadmat	1125568	168600	85000	1020000	1944000	144000	139000	1668000	834000
7	Kalpeni	2075620	121100	107600	1291200	1800173	100000	111331.5	1335978	1335978
8	Kavaratti	2696505	350000	305509	3666108	5567565	225000	195300	2343600	1512010
9	Kiltan	1950722	120200	102900	1234800	1717200	100000	111331.5	1335978	1335978
10	Minicoy	3453349	248000	219090	2629080	3560479	210000	199500	2394000	1440000
	<b>Total</b>	<b>22431722</b>	<b>1857100</b>	<b>1582309</b>	<b>18987708</b>	<b>27724438</b>	<b>1553600</b>	<b>1455583</b>	<b>17466996</b>	<b>13083106</b>

## Others:

VVIP Visit Kavaratti	309773
Repainting waste bin	513800
Swachhta Pakhwada	197500
SBM, JIM reconciliation	232399
<b>Total</b>	<b>1253472</b>

## Abstract

Ward wise cleaning programme	22431722
Tender for Door to Door collection	27724438
Tender Packing and transportation	13083106
Others	1253472
<b>Total</b>	<b>64492738</b>

  
Aditya Bhatt, DANICS  
Director (Panchayat)

## Summary of physical and financial targets for FY 2026-27

Sl. No.	Component	Projected physical plan	Projected requirements for SBM(G) funds (in Lakh)
1	Solid Waste Management (SWM)	6	0.89
2	Plastic Waste Management	3	0.48
3	Gobardhan Projects	5	0.50
4	Faecal Sludge Management	10	4.00
5	No. of CSCs projected to be constructed	3	0.13
6	IEC and Capacity Building [upto 3% of SBM(G) funds]		0.18
7	Administrative Charges [upto 1% of SBM(G) funds]		0.06
	<b>Total</b>		<b>6.24</b>



Aditya Bhatt, DANICS

Director of Panchayat &amp; MD (SBM)