



SUCHITWA MISSION

Annual Report

2016-17



Suchitwa Mission
Local Self Government of Kerala

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ANNUAL
REPORT
2016-17**



Suchitwa Mission
Local Self Government of Kerala

Suchitwa Mission is a technical arm of Department of LSG, Government of Kerala is responsible for evolving implementation strategy, providing policy in the sectors of sanitation and various solid and liquid waste management. The mission provides technical inputs for sanitation and waste management projects and has been functioning as the nodal agency for assisting Cities, Municipalities and Panchayats in sanitation and waste management aspects



vision

WastefreeKeralawithunpolluted environment, public hygiene, cleanliness with better quality of life due to improved health and general well being, economic gains, better aesthetic surroundings and overall environmental up gradation



thrust areas

The thrust areas of waste management in Kerala are the following:

- Coverage of sanitary latrines
- Management of household solid waste
- Management of wastes at community halls, public offices, educational institutions, hospitals, hotels and catering centres
- Management of wastes at markets, slaughter houses and chicken stalls
- Management of wastes at streets and public places
- Management of wastes at tourist and pilgrim centres
- Management of wastes in water bodies
- Management of plastics
- Management of e-waste
- Liquid waste management, including septage management
- Attitudinal changes of people
- Legal and institutional arrangements

mission objectives

1. Scientific management of non-degradable waste without causing environmental damages
2. Scientific management of biodegradable waste without causing environmental damages
3. 100% of the people are oriented on the importance of waste reduction, resource recovery, re-use and scientific management of waste.
4. Attaining the goal of Open Defecation Free streets in Kerala
5. Ensuring systems for liquid waste management
6. People are oriented on the effective management of e waste by utilising the existing systems



mandate of suchitwa mission

- Assist Cities, Municipalities and Panchayats by providing technical approvals for their projects envisaged for solid and liquid waste management and providing grants which are allocated by Government from time to time
- Coordinate various activities under Total Sanitation Campaign (TSC), now renamed as Nirmal Bharat Abhiyan (NBA) sponsored by the Government of India (Executive Director, Suchitwa Mission is the State Coordinator of NBA)
- Coordinate various activities under Integrated Low cost Sanitation(ILCS) sponsored by the Government of India implemented in 8 urban local bodies (Suchitwa Mission is the State Level Nodal Agency for ILCS)



- Assist Cities, Municipalities and Panchayats to evolve policies and strategies for the preparation of Detailed Project Reports (DPRs) and programmes for solid and liquid waste management in the State
- Scrutinize the DPRs prepared by Cities, Municipalities and Panchayats and to see whether the DPRs adhere to prevalent Acts and rules, viz, The Municipal Solid Wastes (Management & Handling) Rules, 2000, Kerala Municipality Act 1994 and Kerala Panchayat Raj Act 1994 and related legislations
- Facilitate the preparation of detailed project reports (DPRs) by providing technical training to concerned staff of LSGIs and by consultations at individual LSGI level
- Organise appropriate Information, Education and Communication (IEC) activities aimed at the attitudinal and behavioural change of people at large and capacity development of all concerned stakeholders (Executive Director, Suchitwa Mission is the State Director of Communication and Capacity Development Unit, funded by the Government of India)
- Channelise funds from Government of Kerala and Government of India to LSGIs for the Implementation of sanitation and waste management projects.

programmes



- Suchitwa Keralam (rural)
- Suchitwa Keralam (urban)
- Swach Bharath Mission (Urban)
- Swach Bharat Mission (Rural)
- Capacity & Communication Development Unit (CCDU)
- Information Education and Communication

management

ORGANISATION

Suchitwa mission is registered under Travancore Cochin Literary Scientific and Charitable Societies Act 1955 and registered office at Trivandrum with its activities extended to the whole state of Kerala

GOVERNING BODY

The Management and control of Suchitwa mission is entrusted to Governing Body and will be carried out on accordance with Rules and regulations of mission. The Hon'ble Minister for Local Self Government Department is the Chairman of Governing Body and the Principal Secretary, Local Self Government Department is the Vice Chairman.

CHAIRMAN

Dr K. T. Jaleel

Minister for Local Self Government, Govt. of Kerala

VICE CHAIRMAN

Shri T. K. Jose IAS

Principal Secretary, Local Self Government Department

MEMBER SECRETARY

Commissioner for Rural Development

MEMBER CONVENER

Dr K Vasuki IAS

Executive Director, Suchitwa Mission

MEMBERS

President of Grama Panchayat Association
Chairpersons of Mayors' Council
Chairperson Municipal Chairpersons' Chamber
Member in charge of Decentralisation, State Planning Board
Principal Secretary (H&FW)
Secretary (General Education)
Principal Secretary (Water Resources)
Secretary (Social Welfare)
Executive Director, Kudumbasree
Executive Director & member convener
Director of Panchayats
Director of Urban Affairs
Chairman, Kerala State Pollution Control Board

EXECUTIVE COMMITTEE

The Chairman of the Executive Committee of Suchitwa Mission is the Principal Secretary, Local Self Government Department. The Executive Director is the Member Convener

green protocol in vogue

In 2016-17, Green Protocol has been observed in School arts festival which is the biggest cultural extravaganza of the state, *Attukkal Pongala* (offering to goddess by women on a particular day) which entered the Guinness Book of world records for the maximum number of women congregation (40 lakhs), Honourable chief minister's mass contact programme, the state CPI (M) party meet, "*Sukapuram Athirathram*" (a traditional festival) in ponnani of Malapuram district and many others.

rural kerala becomes ODF

The State of Kerala became the third State overall and the largest State so far to be declared Open Defecation Free (ODF) under the Swachh Bharat Mission (SBM) (Gramin). 174720 toilets have been constructed in rural Kerala including critical areas like remote Tribal hamlets and water-logged areas under the ODF programme with the efforts of Suchitwa Mission as the implementing agency.

more MRFs in place

A specialised plant, MRF, separates and prepares recyclable materials for remanufacturing and reprocessing. MRFs act as a temporary storage and segregation area before transporting the materials for recycling.

A total of 30 MRFs have been established in the state till 31st March 2017.

SWAP shops turns popular

The concept 'Swap-Shop', aims at providing a public system for exchanging reusable goods that could be useful for others. Local self-governance bodies have the primary responsibility for arranging the functions of swap-shops, which are being set up with active public participation at 93 municipalities.

The collected materials would be segregated and displayed in stalls. Suchitwa Mission has given necessary instructions to set up swap-shops in an attractive manner. 15 permanent SWAP shops and around 40 temporary SWAP shops have been established in 2016-17



organised National Workshop on Solid and Liquid Waste Management (SLWM)

Suchitwa Mission, Ministry of Drinking Water and Sanitation (MDWS) in collaboration with World Bank organised a National Workshop on Solid and Liquid Waste Management (SLWM) in Rural Areas on 10-11 June 2016 in Thiruvananthapuram, Kerala.

The workshop shared international and national experiences on successful management of Solid and Liquid Waste in rural area and deliberated on the indicators to measure the level of SLWM. National, international experts, senior government officials attended the workshop.

newsletter launched

Suchitwa Mission launched monthly newsletter "Suchitwa Keralam" from January 2017. The newsletter informs the readers on suchitwa mission activities in the state and carries informative articles related to health, hygiene, waste management etc.



activities under the state scheme: **Suchitwa Keralam**

a

Solid Waste Processing and management

Suchitwa Mission (SM) extends technical support to Local Self Government Institutions in identifying issues, suggesting mitigation measures in Municipal Solid Waste Management (MSW). Accordingly, the Mission helps the Local Self Governments to prepare Detailed Project Reports (DPRs) for the construction of new waste treatment plants as well as modification of existing plants including up-gradation of all components of MSW. The Mission scrutinizes the DPRs technically and issues technical approval for the projects. 100% financial support for implementation of these projects is provided to the LSGs. The scheme includes construction/modification of waste treatment plants includes establishment of Plastic shredding units, Up-gradation of solid waste management facility, support in establishing Material Recovery Facility (MRF), facilitation for preparation of DPRs, etc. Considering the gravity of the problem, now SM focuses on the missing components in the Solid Waste Management System i.e. Development of Sanitary landfill, Green belt, Resource Recovery Centre/ Material Recovery Facility for the Management of non-biodegradables including e-waste. The Resource Recovery Centres/MRF will help the local bodies to collect the non-degradable and to hand over the same to Recyclers/scrap dealers in a massive manner. Community level composting/biogas units of bigger size is also promoted in this component. Development of Regional Sanitary Landfill is another focus area of Suchitwa Mission.



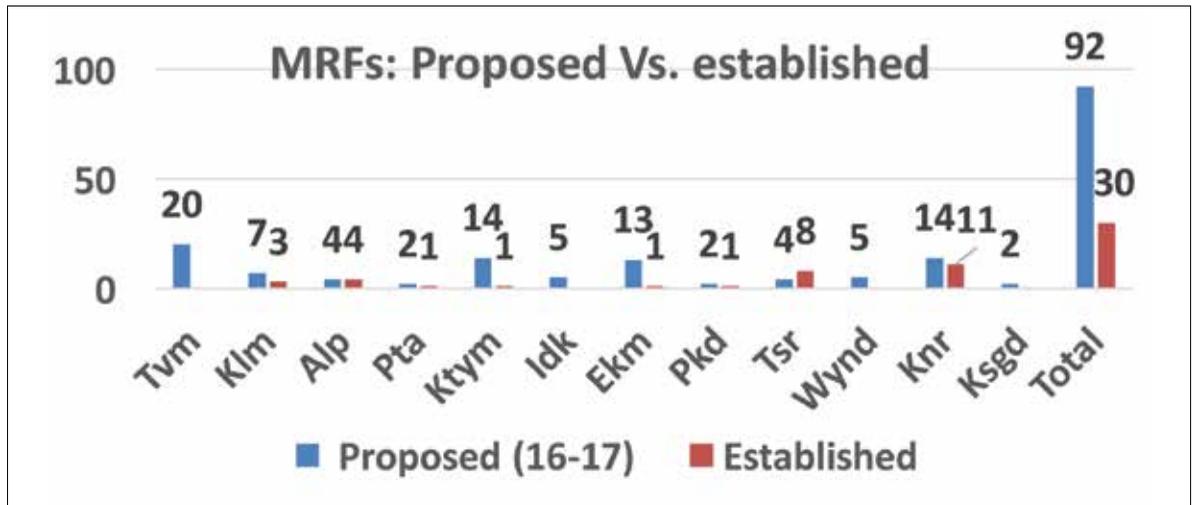
Organic waste composting in N.Paravur Municipality

Material Recovery Facilities

MRF is a centre where non-compostable solid waste can be temporarily stored by the local body or any person authorised by the ULB to facilitate segregation, sorting and recovery of various components of waste by informal sector of waste pickers or any other work force engaged for the purpose before the waste is delivered or taken up for its processing or disposal. Suchitwa Mission provides technical and financial support to Local Self Government Institutions for such units. 30 MRFs have been established in the year 2016-17 in 8 districts



MRF chembilode, Kannur

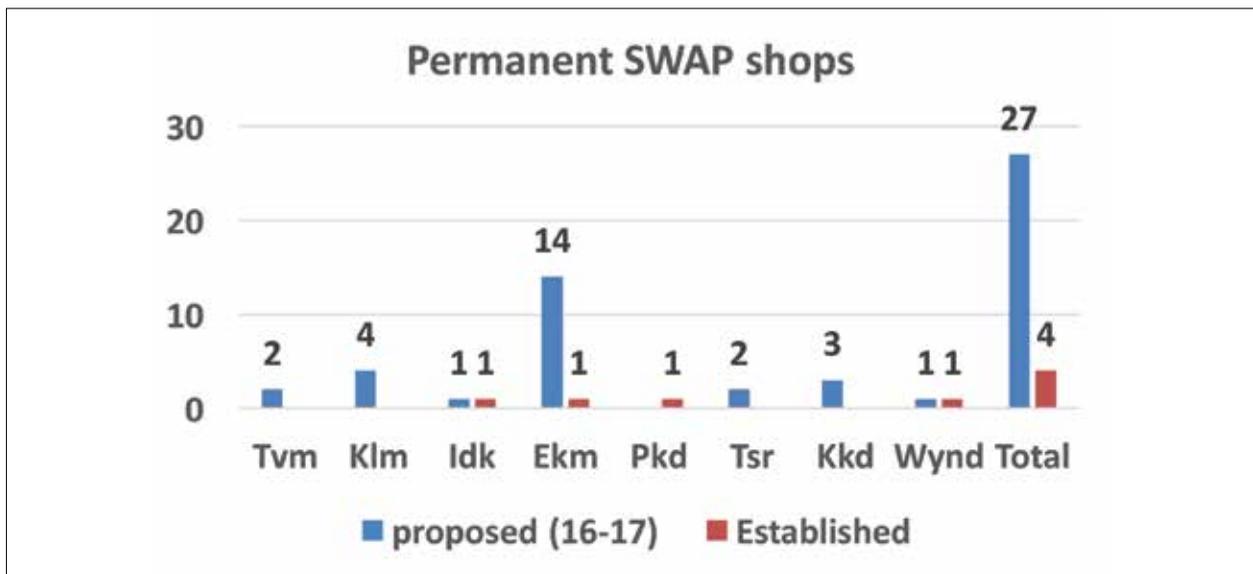


MRF chittur, Thathamangalam

Swap shops

The concept 'Swap-Shop', aims at providing a public system for exchanging reusable goods that could be useful for others. Local self-governance bodies have the primary responsibility for arranging the functions of swap-shops, which are being set up with active public participation of 93 municipalities. As part of the campaign, drop facility centres that would collect and store the permissible items from public have been put up at various places by local self-governing bodies.

The collected materials would be segregated and displayed in stalls. 4 permanent and 24 temporary SWAP shops were set up in the districts in the year 2016-17:



SWAP shop in Wayanad



SWAP shop in Kattappana

b source level composting facilities



SWAP shop in Shornur Municipality

Suchitwa Mission provides technical and financial support to the local bodies for their projects of households, institutional or communities level (source level) composting facilities such as Ring Composting, Kitchen Bin Composting, Pot Composting, Bio-gas plants etc. All composting facilities are eligible for subsidy of 75% from Suchitwa Mission and 50% for bio-gas plants. For source level composting facilities and bio-gas plants Local Self Government contributes a subsidy of 15% & 25% respectively.

Households, flats, residential colonies, institutions, hospitals and schools are encouraged to do source level segregation and source level treatment of bio-degradable fraction of solid waste. This approach helps to treat half of the waste generated from these sources at source. Currently 75% subsidy is given for source level treatment for biogas plants (50% by Suchitwa Mission and 25% by the Local Bodies; 25% by the beneficiary). In the case of different types of compost systems, 90% subsidy (75% by Suchitwa Mission, 15% by Local Bodies; 10% by the beneficiary) is given. The source level treatment of waste is encouraged by giving subsidy to hotels, chicken stalls, hospitals, schools, offices at the rate of 50% from the Government subject to a maximum of Rs. 1 lakh



Source level composting activities in households in Thiruvananthapuram Corporation

bio-park



Suchitwa Mission finds Legislative assembly as an ideal place to demonstrate composting devices and other waste management facilities as it is the right place to set examples to the people. In 2016, with an aim to set up a model Suchitwa Mission obtained permission from Hon. Speaker of Legislative assembly for establishing a waste management facility in the Legislative Assembly complex. Subsequently SEUF, the accredited agency of SM had set up the biopark with the financial support of SM.

Different composting devices like aerobin, bucket compost, ring compost, vermi compost, pipe compost, pot compost, bio gas plant with a capacity to process 50kg or organic waste etc are installed here. Besides a Material Recovery facility is also functioning here. The organic compost is used for vegetable garden behind the complex and biogas is used in the canteen.

Today, Biopark has become a study centre for not only the elected representatives and officials but also the public

Details of SWM Projects sanctioned Component Wise (Panchayath) - 2016-17

Sl No.	District	Bio gas plants	COMPOSTING							MRF	Crematorium
			Pipe Compost	Vermi Compost	Ring Compost	Bio Digester pot	Bucket Compost	Bio bin Compost	Aerobic Composting Unit		
1	Trivandrum	225							2	3	
2	Kollam	1039				1000					
3	Pathanamthitta	0							3		
4	Alappuzha	565							1		
5	Kottayam	689	2444	75	865	210					1
6	Idukki	650			1000						
7	Ernakulam	262					1000		1		
8	Thrissur	1282	2000		1732				4	1	1
9	Palakkad	170							11		
10	Malappuram	2	1380								1
11	Kozhikode	1125			4728	1000	450	1000			
12	Wayanad	1									
13	Kannur	446	1500		1000				9		2
14	Kasarcode	0									
Total		6456	7324	75	9325	2210			31	4	5
Grand Total			18965							4	5

Details of Components Sanctioned (Municipality) 2016-17

Sl. No.	Name of Urban Local Bodies	COMPOSTING PLANT									MRF	Slaughter House	Gas Crematorium	Plastic Shredding unit
		Biogas plants	SWM Treatment Plant	Pipe compost	Ring Compost	Pot Compost	Biodigester Pot	Aerobic Composting Unit	Biobin					
1	TVPM Corporation	6						15		9				
2	Attingal	0										1		
3	Neyyattinkara	0						1		1				
4	Varkala Municipality	0						1		1	1			
5	Nedumangadu	240						1			1	1		
6	Kollam Corporation	0						1						
7	Karunagappally	0						1						
8	Punalur	0	1									2		
9	Kottarakkara	1	1					1		1				
10	Adoor	0						2						
11	Kayamkulam	0						1		1				
12	Erattupetta	0						1					1	
13	Changanassery	0										1		
14	Eloor	0						1		1				
15	Perumbavur	0						1		1				
16	Muvattupuzha	0						1						
17	Aluva Municipality	0									1			
18	Koothattukulam	0						1		1				
19	Angamaly Municipality	300		1000										

Sl. No.	Name of Urban Local Bodies	COMPOSTING PLANT								MRF	Slaughter House	Gas Crematorium	Plastic Shredding unit
		Biogas plants	SWM Treatment Plant	Pipe compost	Ring Compost	Pot Compost	Biodigester Pot	Aerobic Composting Unit	Biobin				
20	Thrikkakkara	0										1	
21	Thrissur Corporation	0							500				
22	Chavakkad	0					536						
23	Wadakkanchery	376					2000						
24	Chalakkudi	0						1					
25	Guruvayur	120		1112		2400							
26	Chittur - Thathamangalam	0								1			
27	Shornur	110			417								
28	Malappuram (UIDSSMT)	0	1										
29	Ponnani	41											
30	Kozhikode Corporation	1000											
31	Koilandy Municipality	0	1		2000								
32	Kannur	0		1000		1000			110				
33	Koothuparambu	0			443								
34	Thaliparamba	0			2000								
35	Anthoor	0			2000							1	
36	Neeleswaram	140				2000							
	Total	2334	4	3112	6860	5400	2536	30	610	17	3	7	1
	Grand Total					18548				17	3	7	1

C semi-automated slaughter house



Slaughter house at Kattappana

Present system of killing animals poses several significant logistical, and public health and pollution problems. A slaughterhouse/abattoir is a facility where animals are scientifically and hygienically killed for consumption as food. Public aversion makes it difficult to finalise location for slaughterhouses. It is the responsibility of LSGs to comply with the rules and regulations regarding slaughtering activity that comes under their jurisdiction. In these circumstances, Suchitwa mission along with urban directorate is providing technical and financial sanctions and assistance to LSGs for their projects of modern abattoirs. LSGs are eligible for a 50% subsidy for setting up Slaughter house if they come up with good projects.

d crematorium



Crematorium at Pachalam, Ernakulam

Suchitwa mission along with the urban directorate is providing technical and financial sanctions and technical assistance to LSGs for their projects of LPG crematorium.



liquid waste including septage and sewage management



STP at Brahmapuram

Septage treatment plants are the need of the hour and it is the responsibility of the local bodies to establish such facilities in their jurisdiction to control unscientific disposal of septic tank sludge. The septage contain coliform bacteria, pathogens, heavy metals etc. Its unscientific discharge eventually results in black water getting mixed with water sources polluting water bodies, increasing communicable disease incidences, work loss and loss of academic days among children etc.

The issue needs to be addressed and Suchitwa mission provides all required support to local self-government instructions to come up with viable projects and provides technical sanctions for those which fit good in terms of prescribed specifications

The Mission supports the local bodies in the areas of Technology, design, specification, estimate, operation and maintenance strategy, implementation plan for liquid waste management system to concerned local bodies.



pre-monsoon cleaning activity

During Monsoon season, contagious diseases usually hit many places in the State. One of the main reasons is blocking of drainage systems with garbage and mud - for the spread of mosquitoes and other vectors. Local bodies need to conduct dry day and need to dispose of the accumulated solid waste prior to monsoon. Suchitwa Mission has been providing an amount of Rs.10, 000/- and Rs. 20,000/- for grama panchayat and ULBs respectively for conducting pre-monsoon cleaning activities every year.

In the year 2016-17 too Suchitwa Mission provided funds on this account



assistance to promote recycling and other eco-friendly industries, business, enterprises, etc

As most of the non-biodegradable waste has a good recycling value and since recycling is one of the most environment friendly activities, such industries which recycle waste and produce useful products should be encouraged. Likewise, production and sales of other eco-friendly products (cloth bags for instance) should also be encouraged. Therefore, it is envisaged that such industries and businesses can be encouraged through Capital subsidy and other such instruments of financial assistance to given either directly or through Industries Department. Assistance to Panchayats shall be provided based on projects



Recycling unit at Chembilode, Kannur

green protocol

Green Protocol is a new and successful innovative idea from Suchitwa Mission where all disposable items and plastics are avoided and reusable materials like steel, glass etc. is used. Overall outcome is reduction of non-biodegradable waste. It was experimented in National Games 2015 and turned out to be a huge success. Subsequently green protocol is being followed in major public functions, gatherings, festivals, weddings etc.

Attukal Pongala 2016



In 2016-17, Green Protocol has been observed in School arts festival which is the biggest cultural extravaganza of the state, Attukkal Pongala (offering to goddess by women on a particular day) which entered the Guinness Book of world records for the maximum number of women congregation (40 lakhs), Honourable chief minister's mass contact programme, the state CPI (M) party meet, "Sukapuram Athirathram" (a traditional festival) in ponnani of Malapuram district and many others.



School arts festival 2016

green protocol followed
in institutions and various
functions 2016-17



- Attukal Pongala-2016
- District and State Level School Kalolsavam-2016
- Police Head Quarters
- Commissionrate of Taxes
- Swaraj Bhavan
- Kerala Legislative Assembly
- Trivandrum Corporation Office
- Onam Celebration programme at all Tourism Destinations
- S A T Hospital, Trivandrum
- General Hospital, Trivandrum
- Inter National Film Festival at Nisha Gandhi and Tagore Theatre
- Swearing in ceremony of Sri. Pinarayi Vijayan Ministry
- Swearing in ceremony of Sri. M.M.Mony, Minister of electricity
- Harithakeralam launch
- A.R Police Camp, Nandavanam
- Trivandrum Club, Trivandrum
- Mission Green Sabarimala

Harithasena



Suchitwa mission's green army is functioning in all districts for facilitating and implementing green protocol in major events and functions. Students from NCC, NSS, SPC, bhoomitrasena, kudumbasree members etc are trained and enlisted by district mission to make use of their services when needed. Almost 50 members are part of this army in each district and has been providing their volunteer services up on request from Suchitwa mission.

Swach Bharath Mission (Rural)

a individual household latrines

The mission aims to ensure that all rural families have access to toilets. The incentive amount provided under SBM (G) to the beneficiary shall be upto Rs. 12000 for construction of one unit of IHHL and the central and state share of this incentive shall be Rs. 9000 and Rs.3000 respectively. Freedom from open defecation has been proven to lead to significant health benefits in terms of incidences of water-borne diseases, especially in children, and provide safety and dignity for all, especially women and senior citizens.

The State of Kerala became the third State overall and the largest State so far to be declared Open Defecation Free (ODF) under the Swachh Bharat Mission (Gramin). The declaration was formally made by the Chief Minister of Kerala, Shri Pinarayi Vijayan in Thiruvananthapuram on November 01, 2016



With this, all 14 districts, 152 blocks, 940 Gram Panchayats and 2117 villages of the State have been declared free from open defecation. Kerala, with a rural population of approximately 3.5 crores, is also the largest State so far to have achieved the ODF Status, after Sikkim (6 lakhs) and Himachal Pradesh (70 lakhs).

174720 toilets have been constructed in rural Kerala including critical areas like remote Tribal hamlets and water-logged areas. The initiative of the state government through an effective campaign for short span of 6 months resulted in this historic achievement. Despite the delay in receipt of central share funds, the state could encourage the local bodies to mobilise funds through CSR and other means to complete the project in critical areas enabling this milestone achievement



Table 1: The target and achievement of IHHL under Swachh Bharat Gramin during 2016-17

Name of District	No. of GPs	Target	Toilet completed	No. of Panchayat declared ODF
Thiruvananthapuram	73	14211	14211	73
Kollam	68	12777	12777	68
Pathanamthitta	53	10182	10182	53
Alappuzha	72	14985	14985	72
Kottayam	71	9141	9141	71
Idukki	52	21081	21081	52
Ernakulam	82	7808	7808	82
Thrissur	86	3002	3002	86
Palakkad	88	23075	23075	88
Malappuram	94	12011	12011	94
Kozhikode	70	12799	12799	70
Wayanad	23	13777	13777	23
Kannur	71	7182	7182	71
Kasaragod	38	12689	12689	38
	941	174720	174720	941

b rural sanitation mart

Community Sanitary Complexes (CSCs) comprises an appropriate number of toilet seats, bathing cubicles, washing platforms, wash basins etc. CSCs can be setup in a place in the village acceptable and accessible to all. Ordinarily such complexes shall be constructed only when there is lack of space in the village for construction of household toilets and community/GP owns up the responsibility of their operation and maintenance and gives a specific demand for the same. The maximum support per-unit prescribed for a community sanitary complex is Rs. 2 Lakh. Sharing pattern amongst central government, state government and community shall be in the ratio 60:30:10

Table 2: District wise achievement of community toilet during 2016-17

S.N	DISTRICT NAME	TOTAL
1	Alappuzha	1
2	Ernakulam	2
3	Idukki	1
4	Kannur	0
5	Kasargod	0
6	Kollam	0
7	Kottayam	0
8	Kozhikode	0
9	Malappuram	0
10	Palakkad	1
11	Pathanamthitta	0
12	Thiruvananthapuram	2
13	Thrissur	1
14	Wayanad	2
	Total	10



solid and liquid waste management

Solid and Liquid Waste Management is one of the key component of SBM (G) as its objective is to bring-in improvements in the cleanliness, hygiene and general quality of life in rural areas. The total assistance for SLWM projects shall be worked out based on the total number of households in each GP subject to a maximum of 7 lakh for a GP having up to 150 households, Rs. 12 lakhs up to 300 HHs, Rs.15 lakh up to 500 HHs and Rs.20 lakh for GPs having more than 500 households. Funding of SLWM project under SBM(G) is provided by central and state government in the ratio 75:25 of Kerala, Shri Pinarayi Vijayan in Thiruvananthapuram on November 01, 2016

National Workshop on Solid and Liquid Waste Management (SLWM) in rural areas: 10-11 June 2016, Thiruvananthapuram

Suchitwa Mission Ministry of Drinking Water and Sanitation (MDWS) in collaboration with World Bank organised a National Workshop on Solid and Liquid Waste Management (SLWM) in Rural Areas on 10-11 June 2016 in Thiruvananthapuram, Kerala. The major objectives of the workshop:

- To share and learn from international and national experiences on successful management of Solid and Liquid Waste in rural areas;
- Technical support required to states for SLWM initiatives; and
- To deliberate on the indicators to measure the level of SLWM in rural areas

International, national experts, senior officials from GOI and state governments participated in the workshop



Regional Conclave cum Workshop on preparation of Sewage & Septage Flow Diagram (SSFD)

Suchitwa Mission, with the support and assistance of German International Corporation & Centre for Science and Environment, New Delhi conducted a two-day Regional Conclave cum workshop on preparation of Sewage & Septage Flow Diagram on 28th and 29th June 2016 at Hotel SP Grand Days, Thiruvananthapuram.

The forum discussed on pre-fabricated septic tanks available in the market to assess its efficiency in treatment of excreta collected in the tanks

Consultative workshop on liquid waste management for Kerala- 12.04.16

A consultative workshop on liquid waste management for Kerala was organised on 12.04.16. Experts and practitioners in the field of sanitation and waste water treatment, agencies working in this sector, Representatives from technical consultancies involved in this sector, Product manufacturers attended the workshop

Objectives

- To discuss on cost effective technologies, as in the case of septage treatment plant
- To explore sustainable model for pilot studies
- To explore different technologies for onsite waste water treatment etc
- To understand bio digester/toilet linked biogas plants
- To discuss on need for improvement in design of septic tank
- To prepare a roadmap for empanelment process



Topics discussed:

- Septage management and national perspectives: facilitated by Dr. Suresh Rohila, Programme Director, CSE
- Bio-digester septage management and cost-effective options: facilitated by Mr. Sajan, Architect, Joint Director, Costford, Thiruvananthapuram
- Small bore sewer system & soil biotech based vermin filter technology for septic tanks: facilitated by Dr. Chandrasekhar Shankar, Director, Vision Earth Care, Mumbai
- Dry sanitation systems development of hygienic toilets: facilitated by Prof. Kishore Munshi, Formal Head- IDC, IIT Mumbai
- Septage treatment facility and advisory for Kerala: facilitated by Ms. Rohini, CDD India, Bengaluru
- Modular septic tanks- prefabricated designs and its applications: facilitated by Mr. Jackson Devassy, United Sanitation Devices, Thrissur
- ECOSAN-overview of Ecosan compost toilets and applications: facilitated by Mr. V. Ganapathy, Liaison Officer, Scope, Thiruchirappalli

Master Masons Training Training to act as a catalyst in achieving Open Defecation Free Kerala.

Suchitwa Mission organised a 3-day residential Training for Master Masons on alternate Scientific way of toilet construction at Laurie Baker Center, Vilappil, Thiruvananthapuram. The objective of this training was to create technical awareness and hands on training to selected master masons from across the state on alternate methods of toilet construction in critical and difficult areas such as water logged, water scarce, hilly, coastal and tribal areas. The training was aimed at enabling master masons to train other masons within their district so that the toilet construction as part of ODF campaign in critical areas can be accelerated and completed before 01st November 2017. Faculties from COSTFORD, Trivandrum facilitated the sessions. The topics included construction of Toilets using Bamboo and locally available Materials, Biogas Linked Toilet Methodology. Padmasree Ar. G Shankar, Chairman of Habitat Technology Group facilitated the session on alternate Methods of toilet construction and Smt. Nithya, Consultant handled a session on “Ecosan and Biotoilets”

Swach Bharath Mission (Urban)

a

household latrines

Under this scheme, financial assistance is given to construct sanitary toilets. The assistance is limited to households belonging to economic weaker sections who have no sanitary latrines. Assistance will also be given to convert insanitary latrine to sanitary one.

Central Government incentive for the construction of household toilet will be Rs.4000 per HH toilet, state shall contribute a minimum of 25% fund towards HH toilets to match 75% central share. A minimum of Rs.1333 need to be contributed by the state to each beneficiary identified.

Unit cost –Rs. 15400

Subsidy - Rs.5333 for the construction or up gradation of insanitary latrines

Kerala is steadily progressing towards ODF in Urban areas too. Urban areas in all the districts except Ernakulam is to become ODF. Dedicated efforts are in place to make Ernakulam too ODF in 2018 making the overall state of Kerala ODF

Table 3: Details of training held in 2016-17

Sl. No.	Name of District	No. of Municipalities	Target	Completed	Percentage of Completion
1	Thiruvananthapuram	5	6317	6317	100.00
2	Kollam	5	3397	3397	100.00
3	Pathanamthitta	4	1673	1673	100.00
4	Alappuzha	6	1711	1711	100.00
5	Kottayam	6	1395	1395	100.00
6	Idukki	2	445	445	100.00
7	Ernakulam	14	3675	2685	73.06
8	Thrissur	8	2546	2546	100.00
9	Palakkad	7	894	894	100.00
10	Malappuram	12	2058	2058	100.00
11	Kozhikode	8	2855	2855	100.00
12	Wayanad	3	912	912	100.00
13	Kannur	10	1198	1198	100.00
14	Kasaragod	3	770	770	100.00
		93	29846	28856	96.68



b community toilets

Households (Beneficiary Household group) whose member practice open defecation and who do not have access to HH toilet and for whom the construction of IHHL is not feasible are given assistance to construct community toilet. Government of India incentive for the construction of community toilet will be in the form of 40% grant/VGF for each community toilet. State will contribute a minimum of 25% fund towards community toilets project to match 75% central share.

c public toilets

ULBs should ensure sufficient numbers of public toilets are constructed in each city. All prominent places within the city attracting floating population shall be covered. There is no Government of India incentive support for the construction of public toilets.

d solid waste management

ULBs are to prepare DPR for Solid Waste Management of their city in consultation with State Government. 100% cost reimbursement for preparing the DPR shall be done by Government of India as per unit cost and norms set up by National Advisory and Review Committee (NARC). Central Government incentive for Solid Waste Management Projects will be in the form of maximum for 20% grant/VGF for each project. State will contribute a minimum of 25% funds for Solid Waste Management Projects to match 75% central share.

Communication and Capacity Development Unit (CCDU)

The Government of India has sanctioned a CCDU specifically for sanitation sector with the objective to develop state specific information, education and communication strategy and provide capacity development of functionaries at all levels.

The unit provides IEC/HRD support to State Suchitwa mission and districts. Besides, it provides HRD/IEC inputs to all Swachh Bharat Mission projects and to state scheme projects. Further, CCDU also documents successful IEC/HRD initiatives in the State and disseminate the same among functionaries at different levels

Table 4: Details of training held in 2016-17

S.N.	Training	Venue	No .of participants
1	Two days residential Technical Training for LSGD Engineers	Maria Rani Convention Centre, Sreekariyam	150
2	One Day training for Municipal Secretaries	Vanasree Auditorium, Vazhuthacaud	88
3	Two Days Residential Training on waste management for district programme officers and Technical consultants	Mar Ivanious Vidhya Nagar, Renewal Centre, Nalanchira, Thiruvananthapuram	28
4	Scrap dealers' registration –One day Workshop for stake Holders	Mascot Hotel, Thampanoor	50
5	Three Days Residential Workshop for the preparation of Hand books on Solid Waste Management	Maria Rani Convention Centre, Sreekaryam	
6	Waste Free Swaraj Bhavan- Awareness Classes from Swaraj Bhavan Employees	Conference hall Swaraj Bhavan	700 (7 Sessions)
7	Waste Free Niyamasabha- Awareness classes for Kerala Legislative Assembly Employees	Niyamasabha	1500
8	Waste Free Secretariat- Awareness classes for secretariat		3500
9	Two days preparatory workshop on IEC Manual preparation for programme Officers of District Suchitwa Mission	Maria Rani Convention Centre, Sreekariyam	10

S.N.	Training	Venue	No .of participants
10	Four days preparatory workshop for Technical Manual Preparation for Technical Consultants of District Suchitwa Mission	Hotel Chaithram, (KTDC), Thampanoor	6
11	Two days Residential Technical Training on SLWM for Technical Consultants in District Suchitwa Missions	Maria Rani Convention Centre, Sreekariyam	18
12	Two days preparatory workshop for LSGI Manual preparation	Hotel Chaithram, (KTDC), Thampanoor	7
13	Two days' workshop for the preparation of IEC Plan (second phase)	Hotel Chaithram, (KTDC), Thampanoor	10
14	Days Two Days Residential Training on Scientific Waste Management for Health Inspectors and Junior Health Inspectors	Socio Economic Unit Foundation (SEUF) , Alappuzha	All HI's, JHI's working under Urban Affairs & Health Services
15	Two Days Residential Training on Scientific Waste Management for Village Extension Officers	Extension Training Centre Kottarakkara, Mannuthy, Thalipparambu	
16	Doordarshan Reality Show- Media Workshop	Mascot Hotel, Trivandrum	45
17	Scrap Dealers Registration in State Level- Inauguration	Kozhikode	2000
18	State & District Level Training for Nehru Yuva Kendra Volunteers	All Districts	500
19	Three Days Residential Training for Master Masons (ODF)	Laurie Backre Centre Trivandrum	57
20	One Day Orientation Workshop for State Level Key Resource Persons	Hotel Chaithram, (KTDC),Thampanoor	85
21	Three Days Residential Training on Waste Management for State Level Key Resource Persons Training (TOT)	Animation Centre, Kovalam	75
22	State Level ODF Declaration Ceremony	Central Stadium	10000
23	Two days Technical Training for Technical consultants from all District Suchitwa Mission	State Suchitwa Mission Office	14
24	State level Technical Training for the Usage of Mobile App for Key Resource Persons of Suchitwa Mission	Hotel Chaithram, (K-TDC), Thampanoor	77

S.N.	Training	Venue	No .of participants
25	Two days Residential training for State Level Resource Persons	Maria Rani centre, Sreekaryam	
26	Review Meeting- Districts Coordinators	Hotel Chaithram, Thampanoor	
27	Master Faculty Workshop	Vanasree Auditorium, Vazhuthacadu	
28	Review Meeting with District team	Vanasree Auditorium, Vazhuthacadu	
29	NGO Meeting- Orientation for NGOs and District Coordinators	PWD Rest House Thycaud	
30	Vacation class- Master Trainers Training	Vanasree Auditorium, Vazhuthacadu	
31	State Level Training-Pre- monsoon	Health & Family welfare Hall, Thycaud	
32	Waste management Training -Beacon municipality- Health standing committee chairpersons& Senior Health Officers	KILA(CHRD), Kottarakkara	
33	One day workshop on Haritha Keralam- Waste management campaign for Mayors and chairpersons of Beacon Municipalities	Govt. Guest House, Thycaud	



Key Resource Person Training held at Kovalam Animation Centre

Information Education and Communication

For creating attitudinal and behaviour change among the people towards sanitation, hygiene and waste management, Information Education and Communication unit is functioning in Suchitwa Mission which utilizes the funds from both state and central schemes. To sensitize the public and create awareness among people Suchitwa Mission has been utilizing all possible means for campaigning and disseminate messages regarding scientific waste management, promoting segregation at source, reduce waste generation, reuse resources at its optimum and donating recyclables to scrap dealers.

IEC activities 2016-17

Making of IEC Videos and dissemination

As part of creating awareness on scientific management of waste and judicious and optimum usage of resources, Suchitwa Mission produced 11 Nos. of promotional videos with the financial support of ICICI bank utilizing their CSR funds. The details of the videos are given below

1. Animation Video on Burning
2. Animation Video on Dumping
3. Ill effects of burning and dumping
4. One music video – Scientific way of handling waste
5. One video on home composting
6. Two videos on green protocol
7. Two Videos on recycling
8. Two videos on “Shame & Fear” factor

These videos are now being disseminated through TV channels, cinema theatres, training programmes, student’s camps etc

FM channels are also used as an important medium of awareness generation through RJ talks, jingles etc

TVCs with messages promoted by celebrities



ODF Documentary

The journey of ODF has documented well by producing a documentary with the funding support of UNICEF. The 20 minutes documentary has covered the initiatives taken by various stakeholders in various districts for the fulfilment of task. Description on different types of toilets constructed under different terrains, special focus on critical areas, beneficiaries view-points etc came under the purview of documentary

Exhibitions

To make the public aware of composting at source, SM took-part in various exhibitions to demonstrate household level composting devices and bio-gas plants that are best suited for source level management of waste. The district missions of SM have participated in more than 20 exhibitions across the state. Posters regarding scientific management of waste are exhibited and posters and leaflets and booklets are distributed. Some of the major exhibitions held are:

- a) Trivandrum Club
- b) Forest day celebration at Kanakakunnu
- c) Gandhi Jayanthi observation, VJT hall
- d) Green Expo 2016
- e) Exhibition on Solid Waste Management organized by Government Engineering college Barton Hill
- f) Kerala Samskarikavedi mega Exhibition Putharikandam Maithanam
- g) State School kalolsavam- Putharikandam maithanam



ODF Journey Exhibition

As part of the declaration of ODF in rural Kerala on 1st Nov 2016, an exhibition was organized at central stadium which illustrated all the developments, interventions, and achievements happened across the state as part of the interventions in making the state ODF. There were panels depicting the developments and achievements happened in each district, details of periodic review by ministers and officials, variety of toilets constructed under different terrains, description regarding the journey of the state towards the milestone achievement etc

Onam Float on ODF

The declaration of rural Kerala ODF is propagated through a Float which depicted the importance of household toilets. Relating to the Onam week pageantry held on 18th September 2016, SM has highlighted this float and it attracted a huge mass gathered over for onam pageantry



Table 5: IEC print materials prepared and disseminated

IEC Materials	Type
Uravida Jaiva Malinya Samskarana Margangal (source level waste management)	Booklet
Biogas Plant	Booklet
Waste Free Swaraj Bhavan Campaign	Notice, Posters, Hoardings
Freedom from Waste	Notice
Table & Wall Calendar	Calendar

Campaign through MPKBY agents

There are around 17000 Mahila Pradan and SAS agents available in the state who is visiting around 30 lakh households each month as part of their job. SM has decided to capitalise the services of these agents to disseminate the message on sanitation and waste management and make them ambassadors of source level segregation and composting of bio-degradable waste.

In this connection, Suchitwa mission organized a ToT for selected resource persons of both SM & NSS and cascading trainings were held for MPKBY agents at district and block level to orient them on scientific solid waste management to promote decentralised waste management and source level treatment of bio-degradable waste.



Innovation Award for green protocol

Suchitwa Mission received the innovation award for best innovation in public sector 2015 for implementing green protocol activities. Certificate and 5 lakh cash prize was handed over to the Executive Director Suchitwa Mission by the chief minister on February 2017. The state government has initiated this award to promote government, non-government institutions to come up with innovative initiatives and services





Short Film Reality Show Think Clean

Suchitwa Mission in association with Doordarshan organized a short film reality show with an intention to create short videos with innovative concepts and attractive stories. The programme series was organized in a competition mode highlighting the messages of Swachh Bharat and Suchitwa Mission. The programme series was as follows

- 5 minutes inspiring, real life stories of ordinary people who have made a difference to the environment.
- 2 minutes films that educate and empower ordinary people on simple things in their immediate environment that will make them extraordinary

30 seconds commercials that create fear psychosis on the ill effect of poor waste management that motivate people to compost at source, collect recyclables in clean and dry form, manage liquid waste responsibly etc.

List of Winners

S.N.	Name of Winners	Category & Name of Film
1	Vineeth Chakyar	NILAM (5 minutes)
2	Manoj Kumar	KANNADI (5 minutes)
3	Suhesh M K	RIBBON (5 minutes)
4	Sahil Hussain	Think Before You Throw (2 minutes)
5	Anuj S. R	Let's Recycle (2 minutes)
6	Swathi Jayakumar	Little Acts Great Goal (30 Secs)



The 80 episode programme was launched by Dr. K. T. Jaleel, Minister for Local Self Government Department on 20th June, 2016 and the official announcement of the results was made on 9th November 2017, through Doordarshan on the finale episode.

The winners on each category won 1 lakh. The award distribution ceremony was held on 29th of December 2016 at Kanakakkunnu Palace Auditorium. Awards were distributed by Dr. T. N. Seema, Vice Chairperson, Harithakeralam Mission.

Sanitation Quiz

As part of Total Sanitation Campaign conducted a quiz programme, with the idea of making the public sensitise, involve & contribute in various aspects of sanitation. The project consisted of two phases. The first phase consisted fourteen quiz programs for public along with mass campaigning activities related to sanitation (One at each district head quarter). The second phase consisted of mega final quiz.

The state level final of Suchitwa Keralam was held at LBS college of Engineering, Thiruvananthapuram on 22nd May 2016. From 28 teams in the preliminary round 12 teams got selected to the semi-finals. Two semi-finals consisting 6 teams each were conducted following the preliminary round. The best 3 teams from each semi-final were selected for the mega final. Cash prizes were distributed for all the 12 semi-finalists and the finalists

State winners of Suchitwa Keralam Quiz

Positions	Name of winners	
First	Abdul Vahid PA	Economics Dept. GVC, Palakkad
	Sujith E	Revenue Dept. Palakkad
Second	Shibin Azad	Defence Accounts Dept.
	Amith MP	Civil Service Coaching
Third	Aswin S	Koyilandi Boys HSS
	Biju N	Engineer, BSNL



1 Suchitwa Mission, Newsletter

Suchitwa Mission launched monthly newsletter "Suchitwa Keralam" from January 2017. The newsletter informs the readers on suchitwa mission activities in the state and also carries informative articles related to health, hygiene, waste management etc. To make the newsletter interactive, a question-answer slot is added in the newsletter and from those who sends the right answers, selected readers will be given gifts. The newsletter is being sent to all Ministers, MLAs, LSGs, allied department heads, suchitwa mission resource persons, district suchitwa mission officers and media.



2 Investors meet

Local Self Government Department and Industries Department in co-ordination with Suchitwa Mission, Clean Kerala Company Ltd, KSIDC, KINFRA, CII organised investors meet at Kochi on 13th January 2017 towards promoting recycling industries in the state as part of Extended Producer Responsibility. The state government will give all facilities and support to those who come up with clear, practical and eco-friendly waste management treatment projects.





Representatives from various brand owners such as Pepsico India, Cocacola india, Hindustan unilever, ITC, Ureka forbes, TCS, V guard, kerala plastic manufactures association, dis ask bio energy, indo global polymers, Ecokey India private limited, green worms etc participated in the meet.

Following the meet, a discussion with 25 investors who have shown interest to setup recycling industry was conducted at KSIDC office, Kochi on 27.1.2017. Two proposals have been received after this meeting and further discussions are on

3 Scrap dealers' registration

- Recycling has become increasingly important to society and industry to meet the goals of cost reduction, efficient management of limited resources, and reduced landfill utilization. Recycling metal reduces pollution, saves resources, reduces waste going to landfills and prevents the destruction of habitats from mining new ore.
- Rag pickers and scrap dealers in our country is doing a great service to nation helping to recycle our valuable resources. However, they do not get appreciation and recognition for their great service. It is in this context that Suchitwa Mission initiated an innovative step to bring the ragpickers and scrap dealers on board in it efforts to promote recycling. The Survey and Registration of all types of scrap Dealers and Rag Pickers is being done. Around 2000 Scrap Dealers and Rag Pickers were so far been registered under this programme



4 Online radio

To update all those who work in the field of sanitation and waste management about happenings in this field Suchitwa Mission initiated ONLINE Radio from 15th March 2017. Daily news related to the field is compiled and recorded using a digital voice recorder. The recorded audio clip is disseminated through whatsapp groups and SM website daily.



5 Nirmal Lottery

Suchitwa Mission advocated with the state government to introduce a separate lottery ticket for mobilising funds for sanitation and waste management activities. As a result, the department of lotteries introduced a separate ticket named "nirmal". A part of the earnings from the sale of nirmal tickets will be earmarked for sanitation and waste management related activities. Besides, the entire campaigns and advertisement of this lottery will have sanitation and waste management messages as well.

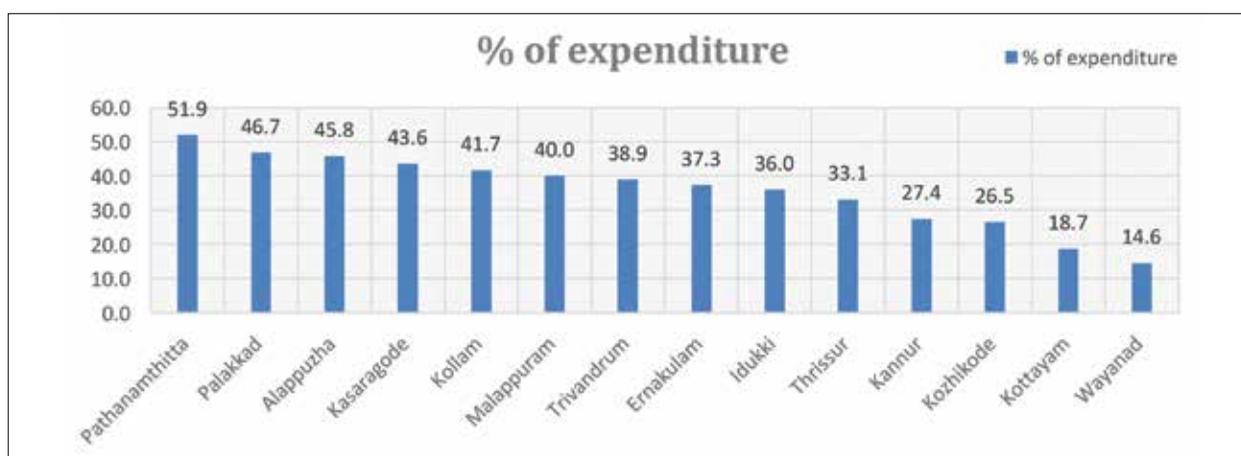


Allotment and Expenditure 2016-17
Table 7: Financial statement for the year 2016-17 (in lakhs)

Name of the scheme	Source of fund	Budget allocation	Receipt	Expenditure
Suchitwa Keralam (Rural)	State government	2600	1500	10.36
Suchitwa Keralam (Urban)	State government	1809	580	4.19
Swach Bharat Mission (Urban)	Central government	7500	24.44	991
	State government	5000	13.14	
Swach Bharat Mission (Rural)	Central government	6000	9825.35	9825
	State government	4000	6550.23	6550

Table 8: Utilisation of Plan Fund 2016-17

District	No. of projects	Total value (INR)	Total expenditure	% of expenditure
Pathanamthitta	313	406541630	210797436	51.85
Palakkad	638	968586880	452583537	46.73
Alappuzha	593	622454607	285214463	45.82
Kasaragode	311	344436200	150126819	43.59
Kollam	560	839446579	349663400	41.65
Malappuram	830	668574899	267503978	40.01
Trivandrum	572	1000093898	389036562	38.90
Ernakulam	712	793908016	296109419	37.29
Idukki	441	591474895	212995656	36.01
Thrissur	773	657133986	217718204	33.13
Kannur	707	660284474	181110583	27.43
Kozhikode	543	766539286	203055106	26.49
Kottayam	349	536847936	100367818	18.69
Wayanad	207	819768097	119487566	14.58



SBM (U) fund allocation to ULBs for Capacity building

District	Allotted amount (INR)
Trivandrum	48000
Kollam	43000
Pathanamthitta	20000
Kottayam	29000
Alappuzha	29000
Idukki	48000
Ernakulam	20000
Thrissur	40000
Malappuram	38000
Palakkad	40000
Kozhikode	50000
Wayanad	20000
Kannur	38000
Kasaragode	20000

SBM (U) fund allocation to ULBs for IEC

District	Allotted amount (INR)
Trivandrum	925000
Kollam	750000
Pathanamthitta	400000
Kottayam	600000
Alappuzha	450000
Idukki	1275000
Ernakulam	225000
Thrissur	725000
Malappuram	550000
Palakkad	575000
Kozhikode	950000
Wayanad	250000
Kannur	675000
Kasaragode	300000

SBM (U) funds to ULBs for IHHL

District	Allotted amount (INR)
Trivandrum	4,48,65,780.00
Kollam	2,28,18,936.00
Pathanamthitta	1,77,32,225.00
Kottayam	1,97,85,430.00
Alappuzha	1,26,92,540.00
Idukki	2,22,22,725.00
Ernakulam	29,59,815.00
Thrissur	2,73,37,000.00
Malappuram	1,40,89,786.00
Palakkad	1,70,68,286.00
Kozhikode	1,65,85,630.00
Wayanad	57,01,247.00
Kannur	85,43,466.00
Kasaragode	51,99,675.00

SBM (G) fund allocation to Panchayat for Capacity building

S.N	District	Allotted amount (INR)
1	Alappuzha	1042426
2	Ernakulam	545010
3	Idukki	1468420
4	Kannur	501314
5	Kasaragode	865020
6	Kollam	932953
7	Kottayam	653382
8	Kozhikode	885726
9	Malappuram	861376
10	Palakkad	1572353
11	Pathanamthitta	704588
12	Thiruvananthapuram	1013406
13	Thrissur	178891
14	Wayanad	970851

SBM (G) fund allocation to anchayat for IEC

S.N	District	Allotted amount (INR)
1	Alappuzha	4683966
2	Ernakulam	2448912
3	Idukki	6598100
4	Kannur	2252572
5	Kasaragode	3886824
6	Kollam	4192071
7	Kottayam	2935863
8	Kozhikode	3979862
9	Malappuram	3870447
10	Palakkad	7065105
11	Pathanamthitta	3165949
12	Thiruvananthapuram	4553572
13	Thrissur	803816
14	Wayanad	4362357

SBM (G) funds to Panchayat for IHHL

S.N	District	Allotted amount (INR)
1	Alappuzha	129538757
2	Ernakulam	67726577
3	Idukki	182475635
4	Kannur	62296652
5	Kasaragode	107493170
6	Kollam	115935009
7	Kottayam	81193599
8	Kozhikode	110066209
9	Malappuram	107040267
10	Palakkad	195391042
11	Pathanamthitta	87556815
12	Thiruvananthapuram	125932604
13	Thrissur	22230172
14	Wayanad	120644426

Financial assistance given to urban local bodies for solid waste management projects from plan fund during the period of 2011-12 to 2015-16

Sl. No	Name of District	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	Total Subsidy Released
		Amount Released (Rs.)						
1	Trivandrum	82610050	1552000	336600	816600	42300	0	85357550
2	Kollam	37893466	5775000	0	0	2025000	9004440	54697906
3	Pathanamthitta	4161633	1239000	0	0	0	0	5400633
4	Alappuzha	22771633	28716190	2008890	2508892	165240	0	56170845
5	Kottayam	16252167	31160820	998550	0	0	1049850	49461387
6	Idukki	11457500	1132900	2493255	1481095	0	0	16564750
7	Ernakulam	18729496	23247207	7971105	0	1049850	8696485	59694143
8	Thrissur	13006000	21155000	1396500	1020000	83081	0	36660581
9	Palakkad	18311483	7541750	0	0	862500	560250	27275983
10	Malappuram	53731750	8266400	0	1986666	0	30190	64015006
11	Kozhikode	5004273	18791760	288000	0	0	2250000	26334033
12	Wayanadu	1586033	0	0	0	0	202500	1788533
13	Kannur	77083595	4056528	2752500	1079475	9510817	2748375	97231290
14	Kasaragod	22517817	9106400	0	0	405000	870000	32899217
Total		385116896	161740955	18245400	8892728	14143788	25412090	613551857

audited statement of accounts included as annexure 3

annexure 1

PICTURES ON A FEW MODELS IN WASTE MANAGEMENT

Trivandrum

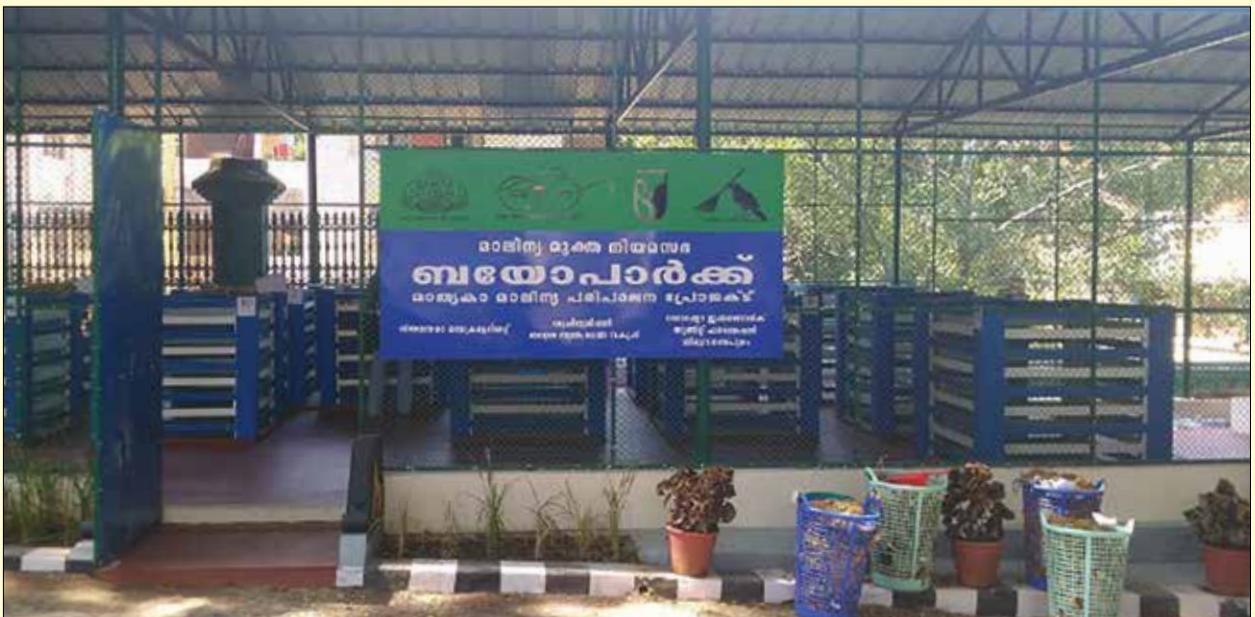
1. Biodegradable waste management in Institutions



Ring composting

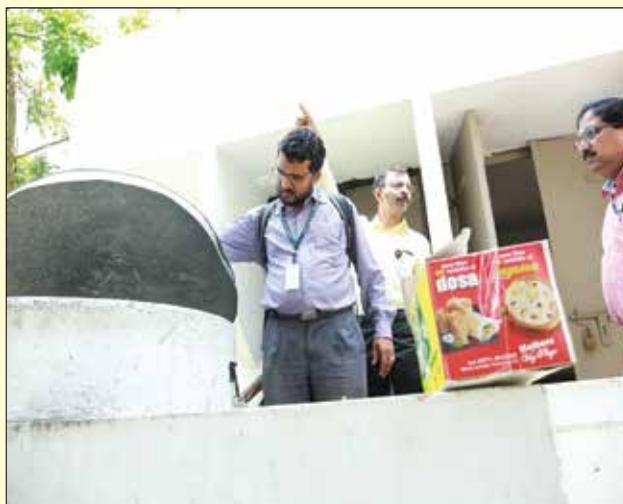


Pot composting



Kerala assembly complex

RBI Thiruvananthapuram



Technopark, Thiruvananthapuram



Trivandrum Club

Organic Waste Converter



Bio composting unit



Trivandrum Corporation

Source level waste management at HHs



Household level composting in Peroorkada & Jawahar nagar, Trivandrum corporation

Community level

Biogas plant (community level)



Biogas plant at Health Circle office, Trivandrum corporation office Manacaud



Thumboormuzhy composting at Manacaud, Trivandrum

Non-Bio degradable waste management



Material Recovery Facility @ Technopark



Material Recovery Facility @ Sreekantenswaram

Seggregated waste collection by kudumbasree in Manacaud, Trivandrum corporation



Mini MRF at Manacaud Health circle office Trivandrum corporation





Aerobic composting unit at Mezhuveli Grama Panchayat



Non bio degradable waste management

Eraviperoor Panchayat



Alappuzha

Biodegradable waste management in institutions



Vandanam Medical College, BARC model Biogas plant

Biodegradable waste management in LSGIs

Alappuzha Municipality



Watsan Park



Aerobic cluster, Thumboormuzhy

Mini MRFC's in Alappuzha Municipality



Kottayam

Biodegradable



Kottayam Medical College, BARC model Biogas plant

Kozhikkode

Biodegradable

Kozhikkode Airport



Ring Compost Plant



BARC model Biogas plant

Non bio degradable

Kozhikkode Airport



Idukki

Biodegradable waste management in LSGIs

Kumily Grama Panchayat



Vermi composting unit

Non bio degradable

Kumily GP



Plastic shredding unit



Plastic recycling unit

SLAUGHTER HOUSE

Kattappana



Thrissur

Adatt Grama Panchayat



Composting unit

Non bio degradable

Adaatt



CREMATORIUM

Porkulam Grama Panchayat



SLAUGHTER HOUSE



Thrissur

Slaughter House,
Mannuthy Agricultural University



Ernakulam

Biodegradable

Eloor Municipality

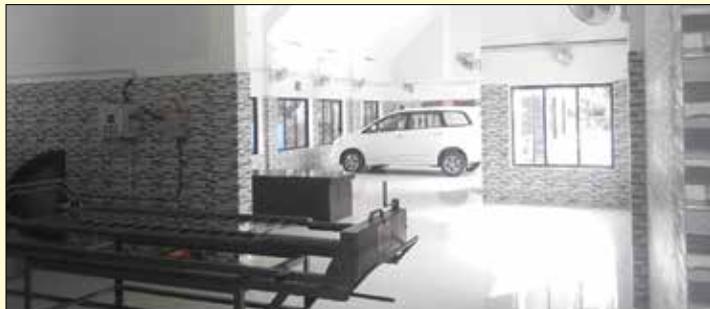


Aerobin



CREMATORIUM

Pachalam, Ernakulam



Mulanthuruthy



Palakkad

Non-Biodegradable

Chittur Thathamangalam



MRF at Chittur Thathamangalam



Kannur

Kathiroom Grama Panchayat



Plastic collection points



House to house plastic collection

Non-Biodegradable

Chembilode Panchayat



MRF and recycling unit, Chembilode



Plastic shredding unit, Mattannur Municipality



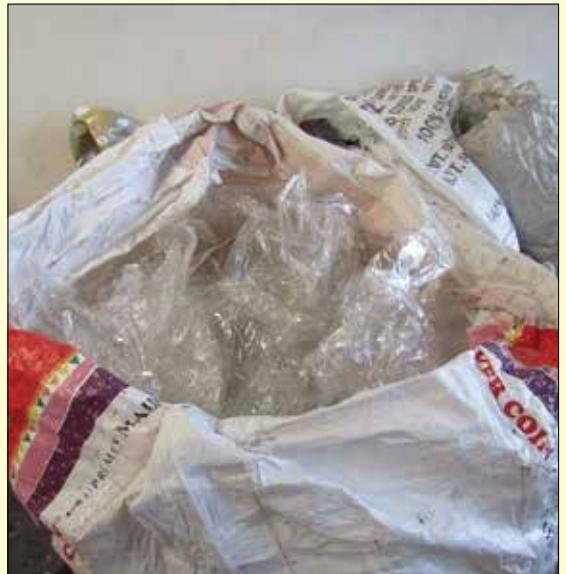
Managing non bio degradable- Mokeri Grama Panchayat Collection from houses and shops



Segregation and Transportation



Second level segregation at RRC



Products



CREMATORIUM

Mattanur



Sewage Treatment Plant

Kannur, Taliparamba Municipality



Kasaragode

Non-Biodegradable

- 1 Kinanoor Karinthalam Grama Panchayat- Poultry processing and rendering unit

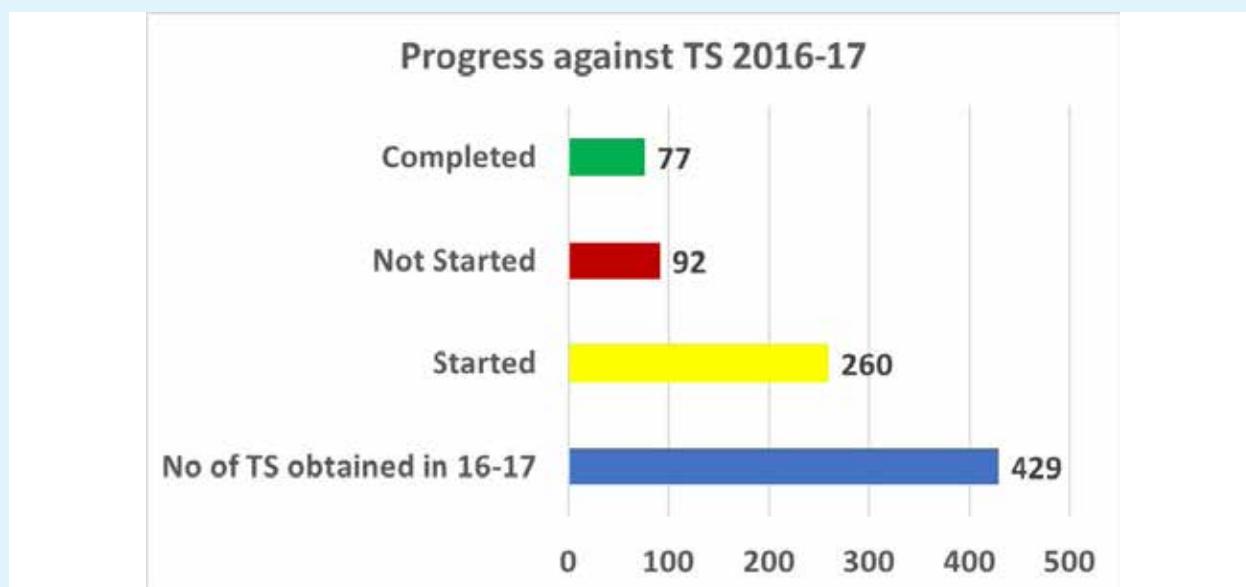


2

Plastic Processing (Shredding, bailing and pellet making) Unit in Pallikkara Grama Panchayat



annexure 2: Technical Sanctions



Details of Technical Sanctions 2016-17 | Grama Panchayats Thiruvananthapuram

S.N.	Name of GP	sanctioned amount	Name of work /Technology	Number
1	Kanjiramkulam	1402500	0.5 m3 Biogas Plant without WJ	165
2	Kollayil	546000	0.5 m3 Biogas Plant with WJ (FRP)	52
3	Pazhayakunnummal	420000	0.5 m3 Biogas Plant with WJ (FRP)	40
4	Ottoor	273000	0.5 m3 Biogas Plant with WJ (FRP)	26
		504000	0.5 M3 BGP,FRP, With WJ	48
5	Kalliyoor	140000	Construction of BGP 50 Kg/Day	1
6	Pothankodu	10,50,000	Construction of waste disposal plant	
7	Pangodu	2,70,000	Construction of 75 Kg/Day BGP	1
		3,12,500	Construction of 100 Kg/Day BGP	1
8	Vakkam	2,60,000	Construction of Aerobic composting unit.	1

Kollam

S.N.	Name of the GP	sanctioned Project Amount	Name of work /Technology
1	Kummil	31,50,000	0.5 M3 FRP made BGP
2	Thodiyoor	425000	0.5 M3 FRP made BGP W/o WJ
3	Mylom	1700000	0.5 M3 FRP made BGP W/o WJ
4	Pattazhy	500000	Ring Compost
		830000	Ring Compost
5	Kizhakkekallada	1530000	0.5 M3 FRP made BGP W/o WJ
6	Kadakkal	23,20,000	0.5 m3 BGP,FRP, With WJ
		27,36,000	Construction of 50 m3 BGP
		6,07,500	Construction of 50 Kg /Day BGP

Pathanamthitta

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Konni	12,00,000	1. Construction of Aerobic bin with shed at Konni Public market 2. Construction of Aerobic bin with shed at G.H.S.S Konni. 3. Construction of Aerobic bin at Panchayath Bus terminal.

Alappuzha

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Thazhakara	18,36,000	1 M3 HDPE portable type Bio gas plant
2	Vayalar	2405500	0.5m3 Biogas plant without water-jacket
		903000	0.5m3 Biogas plant with waterjacket
3	Karthikappally	650000	Ring Compost
4	Veeyapuram	1155000	0.5m3 Biogas plant with waterjacket

Kottayam

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Thrikkodithanam	27,31,500	0.5 M3 BGP
			Ring Compost
			Vermi Compost

2	Vazhappally	19,98,000	Biogas Plant
			Ring compost
			Bio digester pot
3	Chirakkadavu	1,47,00,000	Gas Crematorium
4	Kallara (Vaikom)	2,34,000	
5	Thiruvarpu	10,50,000	0.5m3 FRP Biogas plant with water jacket
6	Arpookara	8,24,000	0.5m3 FRP Biogas plant without water jacket
			Pipe Compost
7	Kozhuvanal	4,05,000	0.5m3 PVC/LLDPE/HDPE Biogas plant with water jacket
8	Poonjar	23,34,800	Bio digester pot
9	Meenadam	18,16,300	0.5m3 FRP Biogas plant without water jacket
			Pipe Compost
10	Vijayapuram	2,44,800	Pipe Compost
11	Karukachal	2,72,000	0.5m3 FRP Biogas plant without water jacket
12	Koottickal	3,06,000	Pipe Compost
			Pipe Compost
13	Mundakayam	17,00,000	0.5m3 FRP Biogas plant without water jacket
14	Mulakkulam	849600	Pipe Compost
15	Kurichi	39,10,000	0.5 m3,BGP FRP,WWJ

Idukki

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Karimannoor	309600	Pipe Composting Unit
2	Arakulam	250000	Pot Composting Units
		1656000	Portable Bio Gas plant WJ (FRP) with 5Kg per day capacity
3	Kumaramangalam	1210400	Pipe Compost Unit
			Ring Compost Unit
4	Adimaly	945000	1 m3 Portable Bio Gas plant WJ (FRP)
		2500000	Ring Compost Unit

Ernakulam

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Vengola	1863000	1 m3 FRP made portable Biogas Plant
2	Nedumbassery	20,50,000	0.5 m3 FRP made portable Biogas Plant
			Bucket Compost
3	Sreemoolanagaram	300000	1 m3 FRP made portable Biogas Plant
		1437500	1 m3 FRP made portable Biogas Plant with out water jacket
4	Kottuvally	765000	0.5 m3 FRP Biogas plant without water jacket
5	Chittattukara	850000	0.5 m3 FRP Biogas plant without water jacket
6	Varappuzha	96200	BIO DIGSTER POT
		55900	BIO DIGSTER POT
7	Mookkannoor	710000	BUCKET COMPOST
8	Thuravoor	1350000	1 m3 FRP made portable Biogas Plant with water jacket
9	Manjapra	1350000	1 m3 FRP made portable Biogas Plant with water jacket
10	Karukutty	2403000	1 m3 FRP made portable Biogas Plant with water jacket
11	Malayattoor -Neeleswaram	437500	RING COMPOST
12	Mudakkuzha	2025000	1 m3 FRP made portable Biogas Plant with water jacket
13	Vengola	1863000	1 m3 FRP made portable Biogas Plant
		212500	0.5 m3 FRP Biogas plant with out water jacket
		945000	Pipe Compost
14		945000	0.5 m3 PVC Biogas plant with water jacket
		909500	0.5 m3 FRP Biogas plant with out water jacket
15	Njarackal	333000	BUCKET COMPOST
		1340000	BUCKET COMPOST
16	Edavanakkad	1340000	BUCKET COMPOST
17	Pallipuram	977500	0.5 m3 FRP Biogas plant with out water jacket
		333000	BUCKET COMPOST

18	Kuzhuppilly	1989000	BUCKET COMPOST
19	Kumbalam	2800000	0.75 m3 PVC made portable Biogas Plant with out water jacket
6	Karumalloor	1045500	0.5 m3 FRP Biogas plant
20	Mulamthuruthy	2100000	0.5 m3 FRP made portable Biogas Plant with water jacket
21	Amballur	1134000	0.5 m3 FRP made portable Biogas Plant with water jacket
		283500	
22	Poothrikka	1869000	0.5 m3 FRP made portable Biogas Plant with water jacket
23	Thiruvaniyoor	3150000	1 m3 FRP made portable Biogas Plant with water jacket
		2025000	1 m3 FRP made portable Biogas Plant with water jacket
24	Aikkaranad	850000	0.5 m3 FRP made portable Biogas Plant with out water jacket
25	Kunnathunad	2100000	0.75 m3 FRP made portable Biogas Plant with out water jacket
		540000	1 m3 FRP made portable Biogas Plant with water jacket
26	Varappatty	1066500	1 m3 FRP made portable Biogas Plant with water jacket
27	Pampakuda	338000	BIODIGSTER POT
28	Puthenvelikkara	765000	Pipe Compost
29	Parakkadavu	821700	
30	Manjalloor	900000	Pipe Compost
31	Alangad	3832500	0.75 m3 FRP made portable Biogas Plant with out water jacket
32	Koovappady	1080000	1 m3 FRP made portable Biogas Plant
33	Vazhakulam	1350000	1 m3 FRP made portable Biogas Plant with water jacket
34	Vadavukode-Puthenkurishu	2916000	1 m3 FRP made portable Biogas Plant with water jacket
35	Kalady	11,50,000	Construction of aerobic composting unit
		882700	Biodigster Pot
36	Karumalloor	1045500	0.5 m3 FRP Biogas plant

Thrissur

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Kadappuram	1665000	Ring compost
2	Thiruvilumala	52,50,000	1M3 Biogas Plant 0.5 M3 Biogas Plant Pipe Compost
3	Thanniyam	494000	Biogas Plant
		450000	Biogas Plant(1m3)
		125000	Ring compost
		89700	Biodigestor pot
4	Parappukkara	12,80,048	0.5 M3 Biogas Plant
		441000	Biogas plant (0.5m3)
5	Pariyaram	13,50,000	pipe compost
		865000	Bucket Compost
6	Punnayurkulam	1596000	Biogas Plant (0.5m3)
7	Choondal	2870000	Kitchen Bin
		648000	Biogas Plant (1m3)
		4,62,000	Construction of Aerobic Composting unit
8	Cherppu	3496000	Biogas plant (0.5m3)
9	Erumapetty	840000	Biogas plant (0.5m3)
		924000	Biogas plant (0.5m3)
		1680000	Biogas plant (0.5m3)
10	Mullurkara	1050000	Biogas plant (0.5m3)
11	Vallathol Nagar	997500	Biogas plant (0.5m3)
12	Kondazhy	604500	Biodigestor pot
13	Madakkathara	1850000	Ring compost
14	Nadathara	315000	Biogas plant (0.5m3)
15	Pananchery	1396500	Biogas plant (0.5m3)
16	Puthur	787500	Biogas plant (0.5m3)
		248400	Vermi Compost
17	Kolazhy	1207500	Biogas plant (0.5m3)
		1530000	Biocomposter Bin
18	Kaiparambu	976500	Biogas plant (0.5m3)
19	Mulamkunnathukavu	1480500	
20	Tholur	525000	Biogas plant (0.5m3)
		422500	Biodigestor pot

21	Pavaratty	1050000	Biogas plant (0.5m3)
		999000	Pipe Compost
22	Engandiyur	420000	Biogas plant (0.5m3)
23	Nattika	637500	Biogas plant (0.5m3) without water jacket
24	Valappad	1317500	Biogas plant (0.5m3) without water jacket
25	Chazhur	900000	Biogas Plant(1m3)
		1000000	Biogas Plant(1m3)(SC)
		585000	Bidigestor Pot
		91000	Bidigestor Pot(SC)
26	Manalur	1187500	Biogas Plant(1m3)
		132500	Ring Compost
27	Arimbur	1100000	Biogas Plant(1m3)
		300000	Ring Compost
28	Paralam	304500	Biogas plant (0.5m3)
29	Vallachira	483000	Biogas plant (0.5m3)
30	Alagappanagar	1827000	Biogas plant (0.5m3)
31	Mattathur	483000	Biogas plant (0.5m3)
32	Nenmanikkara	1312500	Biogas plant (0.5m3)
33	Puthukkad	556500	Biogas plant (0.5m3)
34	Kattur	1312500	Biogas plant (0.5m3)
35	Porkulam	3,84,000	Construction of Aerobic Composting unit
36	Padiyur	1050000	Ring compost
37	Poomangalam	105000	Biogas plant (0.5m3)
		6000	Pot Compost
		190000	Ring compost
38	Vellangallur	987000	Biogas plant (0.5m3)
		200000	Ring compost
39	Vellookkara	378000	Biogas plant (0.5m3)
		378000	Biogas plant (0.5m3)
		200000	Ring compost
40	Edathiruthy	675000	Ring compost
		243000	Bucket Compost
41	Perinjanam	155000	Biodigestor Pot(SC)
		465000	Biodigestor Pot

42	Eriyad	724500	Biogas plant (0.5m3)
43	Kuzhur	915000	Ring Compost
44	Poyya	450000	Bucket Compost
45	Kadavalloor	3349500	FRP made Biogas plant (0.5m3) with water jacket

Palakkad

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Chalissery	703500	0.5 M3 Biogas Plant
2	Pattithara	84000	0.5 M3 Biogas Plant (SC)
		1795500	0.5 M3 Biogas Plant (General)
3	Thirumittacode	525000	0.5 M3 Biogas Plant
		43200	Vermi compost (PVC Basin)
		180000	Pipe Compost
4	Ananganadi	1575000	0.5 M3 Biogas Plant
5	Chalavara	945000	0.5 M3 Biogas Plant
6	Kadampazhipuram	357000	0.5 M3 Biogas Plant
7	Pookkottukavu	1598000	0.5 M3 Biogas Plant
8	Karakurissi	504000	0.5 M3 Biogas Plant
		945000	0.5 M3 Biogas Plant
9	Vandazhi	525000	0.5 m3 Biogas Plant
10	Kizhakkencheri	525000	0.5 m3 Biogas Plant
		250000	Ring Compost
11	Tharur	1188000	FRP made 1 m3 BGP
12	Puthuppariyaram	565200	Pipe Compost
13	Lekkidi-Perur	399000	0.5 m3 Biogas Plant
14	Vallapuzha	1624500	Pipe Compost
15	Keralassery	216000	1 m3 Biogas Plant
16	Kollangodu	3430000	Construction of aerobic bin with shed

Malappuram

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Pandikkad	2,92,000	100 Kg Fixed dome type

2	Ponmala	540000	Biogas Plant (with Water jacket)
			Pipe compost
3	Morayur	1680000	Biogas Plant (with Water jacket)
4	Moonniyur - Crescent Boarding Madrasa	2,20,000	100 Kg Fixed dome type
5	Niramaruthur	53,40,000	Construction of Gas Crematorium
6	Moothedam	1556100	Pipe compost
7	Amarambalam	2002500	Pipe compost
8	Porur	2004000	vermi compost
9	Thrikkalangode	1999000	Biogas Plant (with Water jacket -0.5M3)
			ring compost
10	Urangattiri	2010000	Biogas Plant (with Water jacket -1M3)
			Pipe compost
			Biobin compost
11	Elamkulam	720000	pipe compost
12	Moorkkanad	1035000	Pipe compost
13	Koottilangadi	208800	Pipe compost
14	Puzhakkattiri	1117500	Biogas Plant (with Water jacket -0.5 m3)
			Biogas Plant (with Water jacket -1 m3)
		180000	Pipe compost
15	Athavanad	1980000	Biogas Plant (with Water jacket -0.75 m3)
16	Marakkara	1801000	Biogas Plant (FRP with Water jacket -0.5 m3)
			Pot compost
17	Urakam	2130000	Biogas Plant (without Water jacket)
			Pipe compost
18	Parappur	2010000	Biogas Plant (PVC with Water jacket -0.75 m3)
			Biogas Plant (PVC with Water jacket -1 m3)
			ring compost
			Mosepit compost

19	Moonniyur	2002500	Biogas Plant (with Water jacket)
			Pipe compost
20	Nannambra	1800000	
21	Peruvallur	274500	Pipe compost
22	Ozhur	835200	Pipe compost
23	Tanalur	2025000	Biogas Plant (with Water jacket)
			Pipe compost
24	Valavannur	682500	Biogas Plant (with Water jacket)
25	Ponmundam	180000	Pipe compost
26	Thriprangode	2005500	Biogas Plant (with Water jacket 0.5 m3)
27	Vattamkulam	1575000	Biogas Plant (with Water jacket)
28	Alamcode	1102500	Biogas Plant (with Water jacket -5 m3)
29	Marancheri	2000000	Biogas Plant (with Water jacket -5 m3)
			ring compost
30	Karuvarakundu	1470000	Biogas Plant (with Water jacket -5 m3)

Kozhikode

S.N.	Name	Sanctioned Project Amount	Name of work /Technology
1	Valayam	1,47,000	0.5 m3 BGP
2	Ulliyeri	26,65,000	Ring Compost
3	Chekkiad	2000000	Ring Compost
4	Kayakkodi	820000	Bucket Compost
5	Maruthonkara	525000	0.5m3 BGP
6	Keezhariyur	1810000	Ring Compost
7	Chakkittapara	750000	Ring Compost
		21,00,000	0.5 m3 FRP,WWJ BGP
8	Panangad	1050000	0.5m3 BGP
		450000	Ring Compost
9	Kakkur	1625000	Ring Compost
10	Kunnamangalam	8,27,500	Ring compost
		11,70,000	0.5 m3 , PVC,BGP, WWJ
		36,54,000	0.5 m3 , PVC,BGP, WWJ
		8,27,500	Ring Compost

11	Karassery	450000	Bucket Compost
		1980000	Bio bin compost
12	Thiruvambady	2500000	Ring compost
13	Atholi	2500000	Ring compost
14	Maniyoor	42,66,000	FRP,WWJ, 1 m3 BGP
15	Nadapuram	2500000	Ring compost
16	Moodadi	18,00,000	Ring compost
		5,67,000	0.5 m3 FRP,WWJ BGP
17	Eramala	28,41,760	Total Sanitation programme
18	Chemangery	54,000	FRP,WWJ, 1 m3 BGP
		21,500	FRP,WWJ, 2 m3 BGP

Wayanad

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Noolpuzha	714000	0.5 m3,FRP made BGP With WJ
2	Meenangadi	439400	Bio digester pot

Kannur

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Pariyaram	1350000	Pipe compost
2	Cheruthazham	270000	150kg/day fixed dome type
		25,00,000	Ring compost
3	Madayi	15,75,000	0.5 M3 BGP
4	Ulikkal	24,05,000	BARC model Biogas Plant 1000 kg/day
5	Dharmadom	1250000	Ring compost
6	Ramanthali	315000	0.5m3 Biogas Plant with WJ
7	Kankol - Alapadamba	1348500	Biodigestor Pot
		882000	0.5m3 Biogas Plant with WJ
8	Kadannappalli-Panapuzha	900000	Pipe compost
		472500	0.5m3 Biogas Plant with WJ
9	Kurumathur	525500	0.5m3 Biogas Plant with WJ
		1800000	Pipe compost
10	Mattool	2000000	Ring Compost

11	Cherukunnu	632500	Ring Compost
			0.5m3 Biogas Plant with WJ
12	Kannapuram	720000	Pipe compost
		630000	0.5m3 Biogas Plant with WJ
13	Payyavoor	1000000	Ring compost
		1382500	1 M3 FRP BGP with WJ
			Ring Compost
14	Padiyoor Kalliadu	2000000	Ring compost
15	Chirakkal	1900000	Ring compost
			0.5m3 Biogas Plant with WJ
		525000	0.5 M3 FRP BGP with WJ
		1725000	Ring compost
16	Valapattanam	1075000	Ring Compost
17	Azheekode	1125000	Ring Compost
18	Pappinisseri	480000	Vermi Compost
19	Kadambur	375000	Ring Compost
		1261500	Ring Compost
			0.5 M3 BGP
20	Munderi	780000	Pipe compost
			0.5m3 Biogas Plant with WJ
21	Peralasseri	900000	Pipe compost
23	New - Mahe	1305000	Ring Compost
24	Anjarakandy	650000	Ring Compost
			Pipe compost
25	Pinarayi	874000	0.5m3 Biogas Plant with WJ
			Ring compost
26	Vengad	1050000	Ring compost
		472500	Ring compost
27	Thrippangottur	1287500	0.5 M3 BGP
			Ring compost
28	Kottayam	840000	0.5m3 Biogas Plant with WJ
			Ring compost
29	Chittariparambu	750000	Ring compost
30	Pattiam	100000	Ring compost

31	Kathirur	580500	Pipe compost
		387500	Ring compost
32	Mokeri	45000	Pipe compost
		125000	Ring compost
33	Muzhakkunnu	1080000	Pipe compost
34	Malur	720000	Ring Compost
35	Ayyankunnu	1000000	Ring compost
36	Keezhallur	525000	0.5m ³ Biogas Plant with WJ
37	Koodali	14,04,000	Biogas Plant with WJ 1m ³
		262500	0.5m ³ Biogas Plant with WJ
38	Payam	19,95,000	0.5m ³ Biogas Plant with WJ
		857500	Ring Compost
		1429100	Biodigestor Pot
39	Eramkuttoor	200000	Construction of aerobic composting Unit
40	Kangol Alappadamba	1,87,000	Construction of aerobic composting Unit

Kasaragode

S.N.	Name	sanctioned Project Amount	Name of work /Technology
1	Uduma	493500	Biogasplant
2	Ajanoor	2142500	Bio waste management a) Biogas plant b) Pot Compost c) Pipe Compost
3	Pullur-Periya	493500	Biogasplant
4	Pallikkara	850000	Biogasplant
5	Padanna	382500	Pipe Compost
6	East Eleri	1955000	Biogasplant

Technical Sanctions: Block Panchayats

Thiruvananthapuram

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Kilimanoor Block Panchayath	312000	construction of deenabandhu model (fixed dome type) BGP 100kg/day
		128000	30 Kg Portable BGP
2	Nemom	5,52,091	Construction of fixed dome type 100 Kg/day BGP and Pitched roof building for MRF
		5,52,091	
		5,52,091	

Kollam

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Sasthamkotta	25,07,500	0.5 M3 FRP made BGP
			Bio Digester pot

Pathanamthitta

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Ranni	1156000	0.5 m3 Biogas Plant with WJ

Kottayam

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Thrikkodithanam	27,31,500	0.5 M3 BGP
2	Kaduthuruthi	1350000	Pipe Compost

Idukki

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Elamdesaom Block Panchayat,	1088000	Biogas Plant

Thrissur

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Mala	585000	Ring Compost
2	Kodakara	300000	Pot Compost
3	Chowwannur	610080	Kitchen Bin

Palakkad

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Sreekrishnapuram	1,65,000	Construction of aerobic bin with shed

Malappuram

S.N	Name	Sanctioned Project Amount	Name of work /Technology
1	Vandoor	1242000	Pipe compost
2	Areekode	1350000	Biogas Plant (with Water jacket)

S.N	Name	Sanctioned Project Amount	Name of work /Technology
1	Kozhikodu Block panchayath	22,00,000	Bio Bin Compost
		2,10,000	Construction of 75 Kg/day , Fixed dome BGP
2	Kunnummal	1050000	Ring Compost

Wayanad

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Sulthanbathery block panchayat	34500	2m3 Biogas plant

Kannur

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Kalliasseri	450000	Pipe compost
2	Irikkur	505500	Pipe compost
			0.5m3 Biogas Plant with WJ
3	Peravoor	525000	0.5m3 Biogas Plant with WJ
4	Payyanoor	9,27,500	Construction of aerobic composting Unit

Technical Sanctions: Corporations/Municipalities

Thiruvananthapuram

S.N	Name	Name of work /Technology	sanctioned Project Amount
1	Thiruvananthapuram corporation	AerobicComposting/ MRF at zonal office	975000
2		AerobicComposting/ MRF at zonal office	1500000
3		AerobicComposting/ MRF at zonal office	2625000
4		AerobicComposting/ MRF at zonal office	4000000
5		AerobicComposting/ MRF at zonal office	3000000
6		AerobicComposting/ MRF at zonal office	2500000
7		AerobicComposting/ MRF at zonal office	2500000
8		AerobicComposting/ MRF at zonal office	2980000
9		AerobicComposting/ MRF at zonal office	4400000
10		BGP of 600 kg/day Capacity	5810000
		BGP of 500 kg/day Capacity	
		BGP of 200 kg/day Capacity	
11		AerobicComposting/ MRF at various wards under Kudappanakunnu zonal office	26,50,000
12		AerobicComposting/ MRF at various wards underKazhakuttam zonal office	25,35,000
13		AerobicComposting/ MRF at kannammoolla, medical college wards under TVM corporation	16,50,000
14		AerobicComposting/ MRF at various wards under Main office in TVM Corporation	30,00,000
15		AerobicComposting/ MRF at various wards in wards in fort Zonal Office, TVM district.	45,00,000
16	AerobicComposting/ MRF at Attipra zonal office	19,50,000	
17	Construction of 100 Kg/Day Bio bin plant (fixed dome) at thycadu LP School in thycadu ward in TVM Corpn.	5,00,000	
18	Neyyattinkara	MRF	1450000
19		Aerobic	1850000
20	Nedumangadu	Bgpt (1m3)	3240000
21		Gas crematorium	5000000
22		Construction of slaughter house	4930000

Kollam

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Kottarakkara Municipality	1250000	Ring Compost
		799000	0.5 M3 FRP made BGP W/o WJ
		1440000	Ring Compost
		260000	Bio Digester Pot
		2,29,000	Construction of 50 Kg/day BGP
2	Punalur	93,40,000	Construction of Gas crematorium

Pathanamthitta

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Pandalam Municipality	2540000	0.5 m3 Biogas Plant without WJ
2	Adoor	500000	Aerobic Composting Unit (Revised)

Alappuzha

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Kayamkulam	3900000	Material Recovery Facility
			Aerobic

Kottayam

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Changanassery	3500000	Gas Crematorium
2	Erattupetta	7000000	Aerobic
			Plastic Shredding Unit, Bailing press
			Waste bin etc.

Ernakulam

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Koothattukulam	1300000	BIODIGSTER POT
		830000	MRF
		160000	Aerobic
2	Eloor	2723000	MRF /Aerobic

3	Perumbavur	1440000	MRF
		1175000	Aerobic
4	Muvattupuzha	154000	Aerobic composting Unit
5	Aluva	13800000	Slaughter House (Revised)
6	Angamaly	4050000	Bgpt - (0.5m3)
			Pipe Compost
7	Thrikkakkara	6970000	Gas Crematorium

Thrissur

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Trissur	10,00,000	KAU Smart Bio Bin
2	Kunnamkulam	5328000	Biocomposter Bin

Palakkad

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Shornnoor	14,85,000	FRP made 1 M3 Biogas Plant WWJ
		6,25,000	Ring Compost (SC)
		4,17,500	Ring Compost (GL)
2	Chittur Thathamangalam	1245000	MRF

Malappuram

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Ponnani	5,33,000	1 M3 Biogas Plant (FRP with Water jacket)
		2000000	Biogas Plant (with Water jacket 0.5 m3)
			Pipe compost
			KITCHEN BIN
2	Malappuram	117550000	SWM plant

Kozhikode

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Kozhikode Corporation	13500000	Bgpt - (1m3)
2	Koilandy	4125000	SWM Plant (Revised)
		5000000	Ring

Kannur

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Kannur	1642000	Pipe Compost
			Biobin compost
			Pot Compost
2	Koothuprambu	1107500	Ring Compost unit
3	Anthoor	5000000	Ring Compost unit
		6340000	Gas Crematorium
4	Thaliparamba	50,00,000	Ring Compost unit

Kasaragode

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Neeleswaram	14,00,000	0.5 m ³ , FRP,WWJ BGP
		10,00,000	Pot composting unit

Technical Sanctions: Institutions

Thiruvananthapuram

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Thiruvananthapuram Peroorkada Hospital	500000	100kg Biogas plant & M.R.F
2	Thiruvananthapuram Medical College	58,10,000	Fixed dome BGP 600 Kg
			Fixed dome BGP 500 Kg
			Fixed dome BGP 200 Kg

Alappuzha

S.N	Name	sanctioned Project Amount	Name of work /Technology
1	Chengannur District Hospital	3,60,000	Construction of Aerobic Composting Unit with shed
2	Mannangery	5521500	1 m ³ BGP,FRP, With WJ

Annexure 2: Audited statement of accounts 2016-17

SUCHITWA MISSION

SWARAJ BHAVAN, BASEMENT FLOOR (-1), NANTHENCODE P.O., THIRUVANANTHAPURAM - 695033

BALANCE SHEET AS ON 31.03.2017

LIABILITIES	Amount (Rs.)		ASSETS	Amount (Rs.)	
Capital Fund			Fixed Assets		
As on 01.04.2016	25,90,850		- Schedule B		23,13,669
Addition/(deduction) during the Year	(2,77,181)				
		23,13,669	Current Assets		
Unutilised Fund			Security Deposit	30,000	
- Schedule A(i)			Cash at Treasury & Bank	76,80,64,412	76,80,94,412
		75,09,58,565			
Excess of Income over Expenditure					
As on 01.04.2016	97,71,792				
Add : Surplus for the year	28,84,146				
		1,26,55,938			
Current Liabilities					
EMD Received	28,35,000				
Expenses Payable	15,02,237				
Provident Fund & TDS Payable	1,42,672				
		44,79,909			
Total		77,04,08,081	Total		77,04,08,081

As per our report of even date attached

Thiruvananthapuram
05.06.2017

Schedule B**Fixed Assets**

Amount in Rs.

Description of Asset	WDV as on 01.04.2016	Addition during the year	Total	Depreciation Rate	Depreciation	WDV as on 31.03.2016
Motor Car	2,54,213	-	2,54,213	15%	38,132	2,16,081
Mobile Incinerator	18,31,386	-	18,31,386	15%	2,74,708	15,56,678
<u>Office Equipments</u>						
Fax Machine	2,866	-	2,866	15%	430	2,436
EPABX	19,241	-	19,241	15%	2,886	16,355
Printer, Scanner & Photo Copier	73,077	-	73,077	15%	10,962	62,115
Air Conditioner	25,946	-	25,946	15%	3,892	22,054
<u>Computer & Accessories</u>						
Computer	7,580	2,40,080	2,47,660	60%	1,48,596	99,064
<u>Furniture & Fittings</u>						
Electrical Fittings	3,525	-	3,525	10%	353	3,172
Furniture & Fittings	3,73,016	-	3,73,016	10%	37,302	3,35,714
Total	25,90,850	2,40,080	28,30,930		5,17,261	23,13,669

Schedule A**Fund from Government & Others****(i) Unutilised Fund**

<u>Plan Fund</u>	
Grant Received from Government	20,80,00,000
Refunds	3,27,25,692
Unutilised Fund as on 01.04.2016	26,83,43,975
Total - (Ai)	50,90,69,667
<u>Fund Utilised</u>	
- Utilised for Programmes	11,92,41,413
- Utilised for Administration Expenses	1,96,83,586
- Utilised for Purchase of Fixed Assets	2,40,080
- Utilised for Consultancy & Mobile Incinerator Expenses	72,44,328
Total - (Bi)	14,64,09,407
Unutilised Fund as on 31.03.2017 - Ci=(Ai-Bi)	36,26,60,260
<u>Communication & Capacity Development Unit</u>	
Grant Received from KWA	50,00,000
Unutilised Fund as on 01.04.2016	47,41,585
Total - (Aii)	97,41,585

Fund Utilised		
- Utilised for Programmes	24,25,411	
- Utilised for Establishment & HRD Expenses	44,83,331	
Total - (Bii)	69,08,742	28,32,843
Unutilised Fund as on 31.03.2017 - Cii=(Aii-Bii)		
<u>Swachh Bharat Mission (Gramin)</u>		
Grant Received from Govern- ment	1,63,75,59,666	
Other Funds	22,98,702	
Unutilised Fund as on 01.04.2016	2,32,46,898	
Total - (Aiii)	1,66,31,05,266	
Fund Utilised		
- Utilised for Programmes	1,64,42,13,143	
- Utilised for Establishment Expenses	94,93,339	
Total - (Biii)	1,65,37,06,482	93,98,784
Unutilised Fund as on 31.03.2017 - Ciii=(Aiii-Biii)		
<u>Swachh Bharat Mission (Urban)</u>		
Grant Received from Government & Others	37,58,00,000	
Other Funds	9,72,962	
Unutilised Fund as on 01.04.2016	6,35,61,776	

Total - (Aiv)	44,03,34,738
Fund Utilised	
- Utilised for Programmes	10,16,19,438
Total - (Biv)	10,16,19,438
Unutilised Fund as on 31.03.2017 - Civ=(Aiv-Biv)	33,87,15,300
<u>Sachar Project</u>	
Grant Received from Government	-
Unutilised Fund as on 01.04.2016	1,97,725
Total - (Av)	1,97,725
Fund Utilised	
- Utilised for Programmes	-
Total - (Bv)	-
Unutilised Fund as on 31.03.2017 - Cv=(Av-Bv)	1,97,725
<u>Eco Restoration Project</u>	
Grant Received from Government	-
Unutilised Fund as on 01.04.2016	29,73,678
Total - (Avi)	29,73,678
Fund Utilised	
- Utilised for Programmes	-
Total - (Bvi)	-
Unutilised Fund as on 31.03.2017 - Cvi=(Avi-Bvi)	29,73,678

<u>Integrated Low Cost Sanitation</u>		
Grant Received from Government & Others	67,35,000	
Unutilised Fund as on 01.04.2016	1,84,81,500	
Total - (Avii)	2,52,16,500	
Fund Utilised		
- Utilised for Programmes	-	
Total - (Bvii)	-	2,52,16,500
Unutilised Fund as on 31.03.2017 - Cvii=(Avii-Bvii)		
<u>City Sanitation Plan</u>		
Grant Received from Government	-	
Unutilised Fund as on 01.04.2016	8,00,000	
Total - (Aviii)	8,00,000	
Fund Utilised		
- Utilised for Programmes	-	
Total - (Bviii)	-	8,00,000
Unutilised Fund as on 31.03.2017 - Cviii=(Aviii-Bviii)		
<u>Kuttanadu Package</u>		
Grant Received from Government	-	
Unutilised Fund as on 01.04.2016	41,401	
Total - (Aix)	41,401	

Fund Utilised		
- Utilised for Programmes		
Total - (Bix)	-	
Unutilised Fund as on 31.03.2017 - Cix=(Aix-Bix)		41,401
<u>CSR Fund</u>		
Grant Received from Government & Others	5,00,00,000	
Other Funds	2,67,709	
Unutilised Fund as on 01.04.2016	-	
Total - (Ax)	5,02,67,709	
Fund Utilised		
- Utilised for Programmes	4,50,00,000	
Total - (Bx)	4,50,00,000	52,67,709
Unutilised Fund as on 31.03.2017 - Cx=(Ax-Bx)		
<u>UNICEF Childrens' Fund</u>		
Grant Received from Government & Others	8,42,550	
Unutilised Fund as on 01.04.2016	-	
Total - (Axi)	8,42,550	
Fund Utilised		
- Utilised for Programmes	5,00,000	
Total - (Bxi)	5,00,000	
Unutilised Fund as on 31.03.2017 - Cxi=(Axi-Bxi)		3,42,550
<u>Other Fund</u>		

Grant Received from Government	-	
Other Funds	5,53,882	
Unutilised Fund as on 01.04.2016	19,57,933	
Total - (Axii)	25,11,815	
Fund Utilised		
- Utilised for Programmes	-	
- Utilised for Other Expenses	-	
Total - (Bxii)	-	
Unutilised Fund as on 31.03.2017 - Cxii=(Axii-Bxii)		25,11,815
Unutilised Fund transferred to Balance Sheet - Ci+Cii+Ciii+Civ+Cv+Cvi+Cvii+Cviii+Cix+Cx+Cxi+Cxii		75,09,58,565
(ii) Fund Recognised as Income for the Year		
Plan Fund		
Total Fund - (Ai)	50,90,69,667	
Fund transferred to Capital Fund		
- Purchase of Fixed Assets	2,40,080	
- Less : Treated as Income to the extent of depreciation	5,17,261	
- Transfer to Capital Fund - (Di)	(2,77,181)	
Unutilised Fund - (Ci)	36,26,60,260	
Fund recognised as income for the year - Ei=(Ai-Di-Ci)		14,66,86,588
Communication & Capacity Development Unit		

Total Fund - (Aii)	97,41,585	
Unutilised Fund - (Cii)	28,32,843	
Fund recognised as income for the year - Eii=(Aii-Cii)		69,08,742
<u>Swachh Bharat Mission (Gramin)</u>		
Total Fund - (Aiii)	1,66,31,05,266	
Unutilised Fund - (Ciii)	93,98,784	
Fund recognised as income for the year - Eiii=(Aiii-Ciii)		1,65,37,06,482
<u>Swachh Bharat Mission (Urban)</u>		
Total Fund - (Aiv)	44,03,34,738	
Unutilised Fund - (Civ)	33,87,15,300	
Fund recognised as income for the year - Eiv=(Aiv-Civ)		10,16,19,438
<u>Sachar Project</u>		
Total Fund - (Av)	1,97,725	
Unutilised Fund - (Cv)	1,97,725	
Fund recognised as income for the year - Ev=(Av-Cv)		-
<u>Eco Restoration Project</u>		
Total Fund - (Avi)	29,73,678	
Unutilised Fund - (Cvi)	29,73,678	
Fund recognised as income for the year - Evi=(Avi-Cvi)		-
<u>Integrated Low Cost Sanitation</u>		
Total Fund - (Avii)	2,52,16,500	
Unutilised Fund - (Cvii)	2,52,16,500	
Fund recognised as income for the year - Evii=(Avii-Cvii)		-

<u>City Sanitation Plan</u>	
Total Fund - (Aviii)	8,00,000
Unutilised Fund - (Cviii)	8,00,000
Fund recognised as income for the year - Eviii=(Aviii-Cviii)	-
<u>Kuttanadu Package</u>	
Total Fund - (Aix)	41,401
Unutilised Fund - (Cix)	41,401
Fund recognised as income for the year - Eix=(Aix-Cix)	-
<u>CSR Fund</u>	
Total Fund - (Ax)	5,02,67,709
Unutilised Fund - (Cx)	52,67,709
Fund recognised as income for the year - Ex=(Ax-Cx)	4,50,00,000
<u>UNICEF Childrens' Fund</u>	
Total Fund - (Axi)	8,42,550
Unutilised Fund - (Cxi)	3,42,550
Fund recognised as income for the year - Exi=(Axi-Cxi)	5,00,000
<u>Other Fund</u>	
Total Fund - (Ax)	25,11,815
Unutilised Fund - (Cx)	25,11,815
Fund recognised as income for the year - Ex=(Ax-Cx)	-

BANK BALANCES

Fund	Bank/Treasury	A/c.No.	As on 31.03.2017	As on 31.03.2016
Plan Fund	Treasury	TSB 15715		16,59,37,789
Plan Fund	Treasury	SPTSB 2		13,62,20,127
Plan Fund	SBI, Althara Br.			7,622
Sachar Project	Syndicate Bank, Palayam	40132010005155		
Sachar Project	Canara Bank, Pattom	2791101007477		
Swachh Bharat Mission (Urban)	ICICI Bank, Kowdiar	38901001226		6,52,72,368
Swachh Bharat Mission (Gramin)	SBI, NANTHENCODE	10347397076		2,45,10,791
CCDU	SBI, NANTHENCODE	30520816966		49,17,211
Interest	SBT, VAZHUTHACADU	67081418969		9,96,904

Total - 39,78,62,812

As per Cash Book - 39,78,62,811

Difference - 1

31.03.2017 31.03.2016

<u>Expenses Payable</u>		
Salary	13,07,158	6,37,159
Wages	88,101	55,485
LIC & Challan	8,448	6,534
NPS (National Pension Scheme)	14,218	11,874
EPF Excess Remittance by Bank	14,162	14,162
Audit Fee	70,150	62,100
	15,02,237	7,87,314
		9150
		70150
<u>Provident Fund Payable</u>		
PF Employee Contribution March	46,639	35,000
PF Employer Contribution March	50,533	35,734
	97,172	70,734
		97172
<u>TDS Payable</u>		
TDS on Salary March	45,500	41,500
	45,500	41,500
		7,14,923

Salary & Allowances

Administrative Expenses Paid	1,89,68,663.00	1,53,03,666.00
Less : Payable as on 31.03.2015	8,99,548.00	7,07,308.00
Add : Payable as on 31.03.2016	16,44,909.00	8,99,548.00
	1,97,14,024.00	1,54,95,906.00

SUCHITWA MISSION

SWARAJ BHAVAN, BASEMENT FLOOR (-1), NANTHENCODE P.O., THIRUVANANTHAPURAM - 695033

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2017

RECEIPTS	Amount (Rs.)	PAYMENTS	Amount (Rs.)
Opening Balance			
<u>Plan Fund</u>		<u>Plan Fund</u>	
Grant - Government of Kerala	20,80,00,000	Solid Waste Management in Urban Areas	96,54,370
SWM - Refund - Urban Area	1,79,12,135	Solid Waste Management in Rural Areas	3,75,02,608
SWM - Refund - Rural Area	1,48,13,557	Pre Monsoon Cleaning Activity in Urban Areas	16,03,931
Other Receipts	94,216	Pre Monsoon Cleaning Activity in Rural Areas	4,43,84,998
<u>Communication & Capacity Development Unit</u>		IEC, Public Relation, Media Campaign	1,99,64,875
Interest	1,93,605	Haritha Kerala Mission	23,28,631
Fund from KWA	50,00,000	Waste Summit Inauguration of 13th Five Year Plan	13,00,000
		Capacity Development (Urban) Consultancy Charges to KITCO & PR Consultancies	25,00,000
		Administrative Expenses	2,000
			72,44,328
			1,89,68,663

Haritha Kerala Mission	23,28,631		Fund from Government		
Waste Summit	13,00,000		- recognised as income for the year	69,08,742	
Inauguration of 13th Five Year Plan	25,00,000		- Schedule A(ii)	1,93,605	71,02,347
Capacity Development (Urban)	2,000		Interest		
Consultancy Charges to KITCO & PR	72,44,328				
Consultancies	1,96,43,874				
Administrative Expenses	70,150				
Audit Fee	5,17,261	14,67,17,026			
Depreciation					
<u>Communication & Capacity Development</u>					
<u>Unit</u>					
Nirmithi Kendra - Training	3,49,141				
IEC	20,76,270				
HRD Expenses	34,15,044				
Salary	10,49,548				
Miscellaneous Expenses	18,739	69,08,742			
<u>Swachh Bharat Mission (Gramin)</u>			<u>Swachh Bharat Mission (Gramin)</u>		
Advances to Dist. Suchitwa Missions	1,23,12,000		Fund from Government		
Release of 1st Instt. CS:SS	1,62,60,95,424		- recognised as income for the year	1,65,37,06,482	
Workshop	4,98,557		- Schedule A(ii)	8,06,394	1,65,45,12,876
SEUF	11,96,961		Interest		
ODF Ceremony	25,41,777		<u>Swachh Bharat Mission (Urban)</u>		
Refund to Karakulam GP	15,42,584		Fund from Government		
Advertisement Charges	25,840		- recognised as income for the year		
Professional Fee to CMD	1,77,840		- Schedule A(ii)	10,16,19,438	
Salary to CMD Recruited Staff & TA	88,45,223		Interest	18,20,369	10,34,39,807
Audit Fee	81,591		<u>Sachar Project</u>		
Travelling Expenses	3,69,910		<u>Eco Restoration Project</u>		
Miscellaneous Expenses	18,775	1,65,37,06,482	<u>Integrated Low Cost Sanitation</u>		

<u>Swachh Bharat Mission (Urban)</u>						
IEC-ULBs	2,51,59,125					-
IHL-ULBs	6,67,92,488					-
IEC-DSM	25,00,000					
IEC-State Mission	15,57,900					
Capacity Building	56,09,925	10,16,19,438				4,50,00,000
<u>Sachar Project</u>		-				
<u>Eco Restoration Project</u>		-				
<u>Integrated Low Cost Sanitation</u>		-				
<u>City Sanitation Plan</u>		-				
<u>Kuttanadu Package</u>		-				
<u>CSR Fund</u>		-				
Advances to Dist. Suchitwa Missions	4,50,00,000	4,50,00,000				
<u>UNICEF Childrens' Fund</u>						
Documentary for ODF	5,00,000	5,00,000				
<u>Other Fund</u>		-				
Excess of Income over Expenditure		28,84,146				
Total		1,95,73,35,834				1,95,73,35,834

As per our report of even date attached
Thiruvananthapuram 05.06.2017



Suchitwa Mission

Local Self Government of Kerala

Swaraj Bhavan, Base Floor (-1), Nanthancode, Kowdiar PO
Thiruvananthapuram - 695003

BOOK DESIGN GODFREY'S GRAPHICS