SUCHITWA MISSION

Annual Report 2020-21

Suchitwa Mission

Local Self Government Department

Government of Kerala

Annual Report 2020-21

Message

The year 2020-21 will be a landmark in the sanitation history of the state as we could orient our focus by various branches of waste management. To strengthen the institutional actors and delivery systems for solid waste management in Kerala, the state has launched Kerala Solid Waste Management Project with the financial support, technical assistance and capacity building support of world bank to state and Local Self Governments aimed to establishing new solid waste infrastructure. It is expected to launch the project in 2021 and to finish the interventions within a three years. Another major achievement happened during the period was expanding the scope of Haritakarma projects as the number of High Tech Villages were increased to 200 now.

The Local Self Governments are becoming more and more sensitive towards maintaining Waste Management protocols as many of them have adopted Revolution Bilaya projects by getting government 1% Special Planning grants. Suchitwa Mission has started Suchitwa Pledge during the year based on the assessment done by it been required by the government for the success. Suchitwa Mission has played a chief role of leading the through coordination and monitoring.

The implementation of Kerala Waste Mission programme has resulted in ensuring sound and management of biodegradable waste to mix of home composting and bio-methanation process in almost all the households in Kerala. There are facilities established in community level and institutional levels for managing biodegradable waste. Hand-holding Mission interventions have helped the state in maintaining a clear cut strategy for dry waste management. There are more than 400 Material Collection Facilities and 100 Resource Recovery Facilities made available for ensuring resource recovery and recycling. The momentum of Haritakarmasena in all LSGs in the year has resulted in employment generation for Women of Kudumbashree units.

The green protocol certification has now become an and-to-compliance system that has been adopted in transforming 1000 government offices as green offices.

Mr. Mohammed Ali I.A.S
Mission Director

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Status Regarding Waste Generation and Processing

Organic Waste Generation

7930

tonne/day

Non-organic Waste Generation

2560

tonne/day

Total SWM Waste Generation in Kerala 10490 tonne/day

Quantity of Waste Processing per day

Organic Waste

5447

tonne/day

Non-organic Waste

1657

tonne/day

Progress Highlights

Haritha Karma Sena Functioning at MCF Units

Green Ambassadors

657

Numbers

117

Corporations

5

Total no. of Haritha Karma Sena Members 6600

Material Collection Facilities

934

Resource Recovery Facilities

160

Total No. of Waste removed by Haritha Karma Sena through door to door collection of recyclables

Total Weight

Waste Percentage

Recyclables

Corporations

Glimpses of Sanitation & Waste management facilities in the state

- 10 Community biogas plants completed and 40 are coming up under Gobardhan scheme of SBM (G)
- 3812 Community compost facilities including 1400 Thumbcomposts in Kala Aanchal Bhai
- 16400 Household level compost pits through MGNREGS
- Cluster remodeling plants in 11 districts (PPP model)
- Hill waste processing plants in Kasargod, Wayanad and Idukkiyil districts
- Remediating of 10 dump sites
- "Sthalam" (Urban Washroom Facility) integrated with CSC, SBM and State Plan Fund: 150 completed, 547 in progress, 1215 are tendered

SUCHITWA MISSION

Annual Report 2020-2021

Suchitwa Mission is the Technical Support Group (TSG) in Waste Management sector under the Local Self Government Department, Government of Kerala which is responsible for providing technical and managerial support to the Local Self Governments of the state. The Mission is also the Nodal agency for implementing Swachh Bharat Mission (Urban), Swachh Bharat Mission (Rural) and Communication and capacity development components of the state-wide application for conceptualizing, action planning, conducting media workshops, organising training programme, initiating sector related studies, preparing list of consultant papers, initiating action research, conducting monitoring and such other activities of waste management sector.

During the year 2020-21, Suchitwa Mission undertook implementation of various schemes namely Suchitwa Keralam (Rural), Suchitwa Keralam (Urban), Swachh Bharat Mission (Rural) and Swachh Bharat Mission (Urban). In addition, it has functioned as the implementing agency for Haritha Keralam Mission.

VISION

[illegible] with [illegible] involvement, [illegible] and [illegible] with [illegible] quality of life leading to improved health and general well-being, economic gains, better [illegible] accountability and overall environmental [illegible]

[illegible]

MISSION OBJECTIVES

- Scientific management of municipal solid waste through ensuring the people in impedance of waste reduction, resource recovery, reuse & recycling and maintaining system which [illegible] for resource recovery, composting system & source mix.
- Assessing Open Defecation Free case status through ensuring access to [illegible] to 100% of the people in the slum and achieving [illegible] status to [illegible] slums.
- Assessing system to scientifically managing road waste generated in the city.
- Ensure that the waste generated in the city are scientifically managed to [illegible] [illegible] and other stakeholders in the [illegible] for [illegible] [illegible].

Mandate of Suchitwa Mission

- Assist Cities, Municipalities and Grama Panchayats of Kerala [illegible] to solid waste [illegible] for the preparation of Detailed Project Reports (DPRs) and programmes for solid and liquid waste management in the State.
- Facilitate the preparation of DPRs by providing technical training to [illegible] and by consultation in formulation [illegible].
- Assist Cities, Municipalities and Panchayats by providing technical inputs and for their projects and plans for solid and liquid waste management and providing grants which are allocated to [illegible] from time to time.
- Co-ordinate various activities under Swachh Bharat Mission (Gramin) and Swachh Bharat Mission (Urban) sponsored by the Government of India (Ministry of Drinking Water and Sanitation) in the State Government.
- Organise appropriate Information, Education and Communication (IEC) and Capacity Development activities in the attitudinal and behavioural change of people at large and capacity development of the concerned stakeholders (Elected Members, Nodal Officers in the State Director of Communication and Capacity Development Unit) funded by the Government of India.

Status regarding waste collection and its management

[illegible]

[illegible]

[illegible]		[illegible]		[illegible]			
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]

Currently, nearly 75% of Kerala's waste ends up in landfills in residential, institutional and commercial areas. Solution providers are frequently approached for installation of bioreactors and composting units, but composting is performed only in the place, [illegible] increase to 50 - 60%. The community waste waste is collected from the municipal temporary stores in Material Collection Facility (MCF). There are a total of 304 operational MCFs and 146 MRF facilities across the state and 340,000 are having biodegradable waste collection [illegible]

The community waste waste is collected by [illegible] from the door steps of all dry waste 22.7 Lakh in Kerala and 10.3 Lakh in Kerala by 146 [illegible] PCSs and 291 in ULBs in the Pathe Nagar Sanitation Solutions Pvt Ltd. [illegible] and other partner collection agencies. These waste sorter are collected through door-to-door collection and other [illegible] [illegible] biodegradable waste are temporarily stored in the Material Collection Facilities (MCF) and MCFs operated across the state.

The Plastic Waste stored in the MCF and their subsequently sorted and sold to partner companies for recycling or processed [illegible] and sorted in the Resource Recovery Facilities (RRF) and [illegible] units in the state are then sold to Clean Kerala Company to be sorted particularly for recycling. The government has also issued some for innovation usage of innovation [illegible] for recycling.

[illegible] 2011 is [illegible] by Clean Kerala Company in 2015-2017 and 17 [illegible] collected during the 2020-21 financial year. The waste collected is subsequently transported to recycling units of other states since the state does not have its own waste recycling facilities. An 8 tonnes processing plant of PET capacity is under construction in Kottayam, Ernakulam.

Bio-Medical Waste generation has spiked up in the context of Covid 19 pandemic. And the state capital has partnered with the KINFRA to handle these waste. Kerala already has a common Bio-medical Waste Treatment Plant of 20 TPD in Palakkad and another two are under completion in Thiruvananthapuram and Ernakulam in Ernakulam.

Hospital Pharmaceutical waste found to contain medicinal traces and thus presents risk from entering the ecosystem. A Common Hazardous Waste Disposal facility of 10 TPD capacity is functioning at Ambalamugal, Ernakulam which is managed by Kerala Bio Medical Limited.

The cooking oil [illegible] are mandated to manage the waste generated within their premises as per the prevailing rules under Environmental Protection Act, 1986, Water Pollution Act, 1974 and Water Pollution Act, 1981. As mandated in the Solid Waste Management Rules 2016, Govt. of Kerala constituted a State Level Advisory Board vide G.O. (Rt) No. 14/2019/LSGD dated 15.01.2019. Kerala has also notified a State Policy on Solid Waste Management in terms of Rule 11 and 12 of Solid Waste Management Rules, 2016. As noted in the policy, the State is adopting the following strategies for achieving sustainable waste management systems.

- Introduce segregation of waste at source (wet as a primary [illegible])
- Mandate [illegible] of non-biodegradable waste from all sources for soil filling and ensure that material recycling is the maximum extent
- Promote [illegible] composting of biodegradable waste at source (household, institutional, as the [illegible])
- Ensure decentralized community facilities for biodegradable waste that [illegible] from the source
- Promote modern sanitation waste processing facilities in major cities using state of the art technologies
- Develop a protocol for handling biomedical, hazardous waste and promote its implementation
- Promote provision of storage bins for dumping wet and dry waste to all members and institutions including slums, [illegible], commercials, hotels, hospitals, schools and bus stations to the [illegible]
- Enforce active waste management systems for the bulk waste generators
- Make use of the existing environment control under the Kerala Panchayat to integrate the use of newer waste products, enhance organic agriculture and adoption of bagasse manufacture
- Develop region-specific modifications in [illegible] of domestic [illegible] medicines
- Prevent or discourage single use and throw away medicines
- Regulate and enforce [illegible] to ensure proper [illegible], cleaning and sterilization
- Ensure the [illegible] and [illegible] of construction and demolition waste
- Rationalize and strengthen the enforcement of noise and [illegible] pollution
- Promote [illegible] and incentive system for citizen
- Undertake [illegible] information, education and communication campaign
- Formulate appropriate capacity building programmes for stakeholders
- Develop [illegible] community monitoring system to ensure continuous improvement in waste management
- Ensure [illegible] and research & development measures to upgrade of technologies and application methods
- Enlarge the service position [illegible] through encouraging partnership among [illegible] and other [illegible]
- Start the pilot [illegible] for waste [illegible] management

Fund Provision for LSSK: for sanitation and waste management facilities

- Grants sanctioned in the state annual residently summer 10% (three) per total (we in case of cases for sanitation and waste management activities.
- Besides the settlement under per key LSGs are entitled to fund provisions under state schemes and state project.
- LSGs can also formulate sanitation and waste management projects under Suchitwa Keralam Rural & Urban Schemes of Suchitwa Mission and attract source fund from state plan.
- 15% Financial Commission Grant.

Programmes implemented by Suchitwa Mission under different schemes

Suchitwa Mission undertook implementation of various schemes namely Suchitwa Keralam (Rural), Suchitwa Keralam (Urban), SHAUCH (Rural), SHAUCH (Urban), and SHAUCH (Rural Urban) (Urban). In addition, it was also functioning as the implementing agency for the Nirmal Keralam Mission.

Suchitwa Keralam Rural & Urban]

The state government is giving utmost priority to source waste treatment in the solid waste treatment arena. Unit cost has been reduced by deploying suitable technologies to decentralised treatment. The Government provides partial funding for products installation as Grama Panchayats and other councils of their needs for waste. Pre-monsoon activities are being accelerated to the local bodies to control the spread of dengue and other infectious diseases in the state during the months of June-July. Awareness campaigns are being conducted through audio-visual and print media to create mass surface for scientific waste management among the people.

About 70%– 80% of the total waste generated in our state are bio-degradable. To achieve 3 R's slogan "no waste is city responsibility" was introduced and transformative have made in field of waste sociology. Moreover a marked in direction of households using waste treatment systems. In addition, waste management at the institutional and community levels are done at source. Considering the scientific and ease of operation and maintenance, co-operation technologies such as composting and bio-methanation using different mode of technologies are used to handle bio-waste at the source itself. There are only medium and micro bio-waste treatment systems at the household, institutional and community level. The community systems consisting of mostly vermicompost or aerobic composting are used at the institutions such as hospitals, institutions and public places, city level composting (pit and aerobic) installation systems. Hence, projects for setting up source level composting facilities are formulated and the solid waste management needs of 'waste households' and institutions in the state.

In order to facilitate the implementation of source level waste management process, Suchitwa Mission has implemented bio-composters and these agencies are providing support to the LSGIs in establishing source level treatment facilities, through the schools or villages in them.

The major activities undertaken under Suchitwa Mission scheme are enhancing the infrastructure capability for source level treatment of biodegradable waste along with source reduction activities of non biodegradable and food recycling. For the purpose, it is proposed to form Performance cum Conduct MCF & RRF, material based management in LSGI level.

1. Sudhiwa Keralam (Rural)

The Scheme has the following components

- Pre-monsoon cleaning campaign in focus districts
- Rural Water Procurement Plan and its modification
- Source level treatment in wells
- Local water management including storage treatment plant
- Intensive IEC activities including community IEC and capacity building
- Solid waste collection, transportation facilities and equipment for waste handling
- Initial handholding support for setting small scale infrastructure models in waste management including services
- Study, Research on hygiene habits and habits, Policy, Standards and guidelines for local and local water management & other innovations in sanitation
- Innovation in sewage management
- Good security safeguards for sanitation workers
- Administrative cost

The Pre-monsoon cleaning campaign has been implemented in consultation with Directorate of Health Services, National Health Mission and Kerala Suchitwa Mission. Detailed action plan has been drafted and circulated with the collaborating agencies and brought out as an operational government circular. The fund earmarked for the purpose has been utilized and disbursed through direct transfer to the Grama Panchayats based on the guidelines that are in action and monitored through District Offices. The positive outcome of the campaign was realizing higher needs owing to pre-campaign planning, integration of activities of different departments and effective conceptual efforts at the local government level.

To fulfill commitments made in the Suchitwa Keralam Urban Scheme is a total outlay of Rs. [illegible] and 20 % under Suchitwa Keralam Rural Scheme is an outlay of Rs. [illegible]. Details regarding expenditure status are as given under:

1.1 Details of SVM projects taken-up by Districts under Sunidhan Kendra Scheme

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1.2 Details of SVM projects taken up by Districts under Sunidhan Kendra Scheme

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Mosquito Cleaning Campaign

[illegible]

[illegible]

2. Harithakeralam Mission

Hygienic waste management for effective waste disposal, soil and water conservation, agroforestry, agriculture, ecosystem and a lifestyle focusing on organic farming are the three focal points of Haritham Keralam Mission.

The Mission centre stands adopted to be implemented under the sensitivity of the local self-governing bodies encompassing community organisations, NGOs, social activists, environmentalists, students, youth and other concerning individuals and groups. The Mission intends to achieve a total model in the realm of permanent hygienic waste management in an economically viable manner in a people-friendly mode so as to make Zero Waste State.

- The mission intends a clean and green state through scientific waste management, organic farming and conservation of public resources.
- To encourage people participatory initiatives in sustainable development by combating land, air and water pollution.
- To check and remove pollution in water bodies and revitalise drying rivers, lakes and streams.

2.1 Significance

In order to institute door to door collection of non-biodegradable waste, the authorities gave leading waste pickers some work orders. Thus, they formed a union at Lucknow in the state through the Karnataka Mission and they are helped through Kerala Institute of Local Administration (KILA) and Kudumbashree. Some waste pickers were started to functioning as SLF (Waste Pickers) in 37 Municipalities, 3 Corporations. Thereby Cost Plus is being provided for supporting the work as a sustainable group. Around 2000 members of Lucknow working livelihood through collection in door to door collection of waste, extending support for source composting, recycling activities as green technologies and through other micro enterprises. During the Covid period, the activities of the Waste Pickers Union had to be limited but were resumed in the post period as per the protocol examinations.

Waste pickers organizing in their own group sustainable and self-reliant. Many of these groups are now being capable of managing their operations without taking any external financial support. The resource recovery and waste management is taken over by MCD by way of segregated collection of biodegradable waste from households and other waste items are further segregated at Material Collection Facilities into various waste which are to be used as raw materials in recycling industry. As per the data available from the Union, 37 municipalities are being collected by waste pickers and converted into resources.

2.1 Hand-holding programme

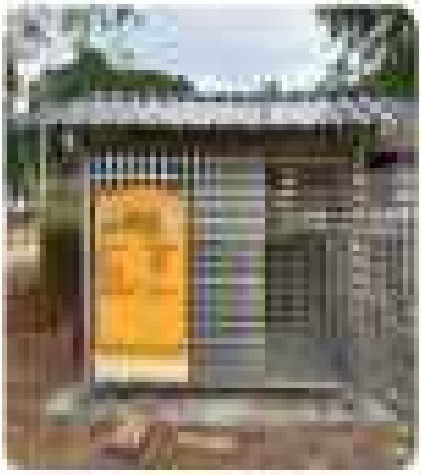
Since the LIVUS project has a dedicated staff to hand-offer for water management initiatives, it is essential to provide them with professional support to carry out their activities and to deal the transitions of hand-holding programme. This was implemented by engaging professional support agencies which are responsible in water management, disaster risk reduction and climate change adaptation. HBS has been rendering technical support and guidance to staff and members of CBO, SHG, VH, municipalities and 2 Municipal corporations. After conducting an assessment of the performance of these agencies the number of agencies is now reduced. Only 32 creative agencies who are found successful in delivering their duties are chosen now. These HBS are identified and selected through sub process (HTC) by HATHIBANAT Vikas & Business Master. Capacity building of HBS methods are institutionalizing the system and the principles of mainstreaming and systems.

They are responsible for developing appropriate business models in each LIDS and SHG based on which is cut the system as per the need, customer model. They can also become the social identity subsidiary employees that can be run by well people in order to make their businesses. The services of HBS are very crucial in making Tool Kits Project for more than 100 LIDs.

2.2 Resource Recovery and Recycling

2.2.1 Material Collection Facilities

[illegible] facility for collecting and storing recyclable waste collected by [illegible] waste pickers in Jaipur. For facilitating secondary segregation of dry waste collected by [illegible] through door-to-door collection, dry material collection facilities are established under various ULBs in the state. This result in enough to cater the need of increasing [illegible] percentage of the dry waste collected by [illegible] waste pickers in the state.



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3.2.2 Resource Recovery Facilities

The segregated waste from a household is transported to Resource Recovery Facilities where the materials are sorted and baled. The biodegradable waste are used for vermicomposting and the hard plastics are used for recycling and making new products, as "RC" tax collected are remitting at Local Level in the form. Apart from the public investments, private sector has also been doing job for RRF there are 17 private sector public partnership units in various cities.

The services of Clean Kirtipur Company and other service providers are being used for collecting Plastic Shredding Units. The Clean Kirtipur Company is being provided with a vehicle for collecting the waste being recovered.

As envisaged in the Bylaw the KCP-DMCC plans of a Local Self Government (Municipal LSG), 12, 16 are constructed in municipalities and about one RRF in each Rural Municipality.

Details of RRP started functioning at Gram Panchayats, Block Panchayats, Municipalities and Corporations in each District

Resource Recovery Facility as on 31/08/2017

Sl. No.	District	Total GP	GP with functional RRP	Total Panchayats	Panchayats with functional RRP	Panchayats with functional RRP	% Coverage	Total Municipalities	Municipalities with functional RRP	Municipalities with functional RRP	% Coverage	Total Corporations	Corporations with functional RRP	Corporations with functional RRP	% Coverage
1	Thiruvananthapuram	73	1	11	0	0	0.00	1	1	1	75	1	1	1	33
2	Kollam	68	0	11	0	0	0.00	1	1	1	100	1	1	1	33
3	Pathanamthitta	53	0	9	0	0	0	1	1	1	100	0	0	0	0
4	Alappuzha	73	1	12	12	0	0	1	1	0	0.00	0	0	0	0
5	Kottayam	71	0	11	0	7	14.29	1	1	1	100	0	0	0	0
6	Idukki	52	0	8	0	0	0	1	1	1	100	0	0	0	0
7	Ernakulam	82	1	11	1	0	7.14	1	1	0	0.00	0	0	0	0
8	Thrissur	80	0	15	0	0	0	7	7	7	100	1	1	0	0
9	Palakkad	91	0	13	1	0	0.77	7	7	1	0.77	0	0	0	0
10	Malappuram	94	0	15	0	0	0.00	0	0	0	0.00	0	0	0	0
11	Kozhikode	70	0	13	0	0	0.00	7	7	1	11.00	0	0	0	0
12	Wayanad	23	0	4	0	0	0	2	2	0	0	0	0	0	0
13	Kannur	71	0	11	0	0	0.00	6	6	1	17.00	0	0	0	0
14	Kasaragod	38	0	8	0	0	0	0	0	0	100	0	0	0	0
Total		941	3	152	13	0	0.21	37	37	8	22.0	1	1	1	33

[illegible]

[illegible] Department [illegible] and [illegible] in [illegible] and [illegible] responsible for evaluating the progress achieved against the pertinent [illegible] [illegible] [illegible]

On October 02, Hon'ble Chief Minister Shri Prakash Mishra announced the historic status of ODF Local Governments in the state, 342 Gram Panchayats and 42 Municipal Corporations, including Tirupati Municipal Corporation, eligible for the sanitation status as part of the state Government's 100 days program. It was announced that 200 gram panchayats and 40 municipalities could be given sanitation status. Now in this iteration has been carried out 142 Gram Panchayats and 2 Municipal Corporations. In the week of October 1-8, the total social media and team based drive conducted in a span of 1 week the results.

As a result of the coordinated efforts of the Local Self Government Institutions in collaboration with Medical Health Officer, Sanitation Officer, Employment Guarantee Mission, Industrial Employment Guarantee Scheme, Kaushalya Mission and Clean Kosha Domain, solid waste management systems have been set up in 200 Gram Panchayats and 30 Urban Panchayats for sanitation status. Sanitation status has been to the Gram Panchayats and Municipal Councils which have fully completed the infrastructure for the complete waste treatment, and in the process of door-to-door collection and treatment activities, and effectively carrying out the activities on the ground. Kaushalya Bhavan and have installed public toilets and services in all households.

Awarding Succhha Pataki to 100 LSGIs among the remarkable progress of ODFs since 2014, where proper waste management system was in place only in a few panchayats regarding the contribution.

Mention of Hon'ble Minister Shri Prakash Mishra in Parliamentary debate and some municipalities like Hanoga, Gram Panchayat, Sanitation Management etc. Now, we have achieved the operation of 247 Gram Panchayats and 32 municipalities including 2 municipal corporations in the state.

The last step is covering the waste treatment facilities in 100 Gram Panchayat to provide complete sanitation facilities by making other waste such as food waste, solid waste, building waste, metal, tar, plastic and sanitary waste. Local Governments have taken step to strengthen waste and bio waste collection, enhance recyclability and proper land filling. Local governments have also work to implement the Green Protocol, control the consumption of hygienic products and raise public awareness.

In addition, about have been taken to treat domestic sewage, 12,000 units of hygienic menstrual products are made to the local bodies. Anganwadi, Kasturba Gandhi Balika Vidyalaya, Ashramshala, Sanskrit Dayal, Rajasthan Sanskrit Dayal, Hostels, Hospitals, Anganwadi, Gram Panchayat, Business, Anganwadi, Complex, etc. Street connection have produced by LSGIs. Thus, efforts are being made to bring in the corporate in the state by the level of hygiene and in the level of complete hygiene.

Sl. No.	Name of the State (UT)	No. of industries under polluting (including SPU) inspected or inspected					No. of industries (including SPU) whose pollution control measures have been approved					No. of industries (including SPU) whose pollution control measures are found to be inadequate					No. of industries (including SPU) which have been fined				
		(1)	Municipal	Corporate	(4)	Total	(1)	Municipal	Corporate	(4)	Total	(1)	Municipal	Corporate	(4)	Total	(1)	Municipal	Corporate	(4)	Total
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

2.1 Green Office campaign

As part of compliance with the Green Protocol, the State aspired to set apart 1,000 Government Offices in the State as Green Offices. The campaign began the second month as part of the Green Office campaign. Officials in teams conducted inspections and solicited the green offices in the state offices. From January 31, 2021, the Kaduna Draft Manual for Project Uligh announced the Green Office. 115 offices across the state became green offices.

Green Office Declaration

S/No	Name of Office	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Total	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

വഴിയിടം

2.2 Take a Break

Kerala Government is on the verge to revolutionize the road sanitation sector by setting new standards in hygiene and safety standards for passengers. Take a Break refreshment facilities and toilet complexes are being developed on the national and state highways. Transport terminals, shopping complexes etc. to address the issue of shortage of quality public toilets in the state. Take a Break is initially undertaken as part of Clean Kerala Project (Kerala Suchitwa Mission) and the present 100 TABs comes part of the Clean Kerala's 100 days program.

Dearth of high quality public toilet has been causing difficulties to people, especially females and commuters, women and children and elderly suffering during the situation while traveling by road. Take a Break refreshment facilities and toilet complexes are envisaged by the state government to create a sustainable high quality refreshment facilities to these vulnerable section. Safety and cleanliness and maintaining cleanliness standards would be of high priority in TABs. Sufficient drinking water and also pay charges other than, baby food, cooking-microwave, medicine-drugs, sanitary-napkins, diaper-pads, clothing apparel and jewelry should be provided at TABs.

It is planned to have 100 TABs across Kerala in a phased manner by way of constructing minimum 2 high quality toilets in Grama Panchayats, Municipality and 3 in Municipal Corporations. A total of 100 TABs have inaugurated in the last year and another 100 are now being inaugurated. So far 100 toilets in the state have been built. Some new projects are delivering professional results and constructed. Construction of 104 TABs have already initiated. Out of this, two TABs are high quality modern toilets which comes under premium category.

There are 3 categories (basic, standard and Premium) of toilets including those which are of renovated from the old clean stops. Premium level TAB would be having a refreshment facilities, also provides like snacks and coffee shops. The upkeep and maintenance of the TABs are the responsibility of Local bodies and for this services may be engaged in the form of Kudumbashree Units, etc. as utilized.

Through this project the state is also intending to save the long pending demand for public sanitation facilities by tourists and commuters. This would be an added advantage to the tourism industry in the state also. It would be a friendly measure which is the economic sector of the state is striving a long-pending issue of inadequacy in public sanitation facilities. The role of Judge, the officials and people representatives is commendable in achieving this feat.

4. Swachh Bharat Mission (Gramin)

SBM (G) has been uniquely designed to leverage the capacity of individuals and communities in rural India to create a people's movement to ensure that the ODF status of rural India is sustained, people continue to practice safe hygienic behaviour and that all villages have access to and use liquid waste management arrangements.

Since its inception in October 2014, SBM (G) has been implemented in mission mode with a well-defined activity chart. Since 2015-16, the state of Kerala, unlike previous years, the second phase of SBM (G) has been implemented in convergence between different verticals of financing and various schemes of central and state governments, apart from support assistance from donors and the corresponding state share. Remaining funds will be mobilized from 15th Finance Commission grants to GPs, households and revenue generation models.

Having achieved ODF Rural India, focus is now towards ODF Sustainability and ODF+ activities. The state is targeting to have 100% of villages attained ODF+ status by March 2022. An ODF+ village is defined as a village which sustains its Open Defecation Free status, ensures safe and hygienic waste management and is visually clean.

During the year a total sum of Rs 0.[illegible]Crore has been sanctioned on Solid Waste and Liquid Waste Management projects across the State which includes 35 Gaithan Complexes / Public Toilets and various IEC / Capacity Buildings activities for ODF Sustainability with Rs [illegible] Crore has been carried out under various heads like IEC/Capacity activities.

So far, a total sum of Rs [illegible] Crore has been sanctioned on Solid Waste and Liquid Waste Management projects across the State. 48 Gaithan Complexes / Public Toilets have been completed for which Rs [illegible] has been expended till date as part of Community Gaithan Complexes / Public Toilets components, various IEC / Capacity Buildings activities for ODF Sustainability have been undertaken during the year. Rs [illegible] crore has been expended under SBM (G) towards IEC/Capacity activities.

SBM (U) Expenditure during the Reform Period

SBM (U) Audited Revenue & Expenditure

Year	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Total	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

4.1. Solid and Liquid Waste Management under SBM (U)

[illegible] (SWM) Phase 2 is currently being implemented. Solid and liquid waste management is one of the major initiatives of Kabale Municipal Council. The implement is the [illegible] of the plans for scientific disposal of waste in such a way that has a longer impact to the population. The Community Participation key to stakeholders to come forward, demand such a system, and subsequently operate and maintain. Surveys are to locate the technologies suitable to their areas. Technologies identified by the Committee of technocrats may also be considered for implementation. Collection, segregation and safe disposal of household garbage, recommended systems are household composting and biogas plants and is promoted. Activities related to maximum level of organic food waste as manure should be encouraged.

In the first phase of SBM (U), the total sanitation upgrading slums projects was carried out in the least affected number of households in each SP, subject to a maximum of Ug.Sh 1M for serving more than 100 households. Funding for further sanitation improvements is provided to the Centre and State Government in the form of PPA-AF. The first phase of SBM (U) came to an end during the last year and the project is seen to be the first phase and having completed. Now SPA has a major focus under the second phase.

Details of FMM projects from usage in "Dictionary to Lexicon" EDM (%)

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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[illegible]

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

4.3 Status of Community Sanitary Complexes (CSCs) projects taken up by CLICSA in each District under SSM (2)

CSCs were necessary to address these issues (a) that GPs in villages with more than 150 households must have a minimum one CSC and (b) may cater to the sanitation needs of floating migrant population. While identifying the locations, priority should be given to the habitations with predominance of SC households located in the vicinity of slums and in areas inhabited by migrant labourers, floating population etc.

Community Sanitary Complexes comprising of an appropriate number of toilet seats, bathing cubicles, washing platforms, wash basins, etc. can be set up in the vicinity of the location accessible and acceptable to all. Such complexes can be constructed in public places, markets, bus stands, etc., where large scale congregation of people take place.

The maximum support per unit prescribed for a Community Sanitary Complex is Rs.3 lakh. Sharing pattern amongst Central Government, State Government and the Community could be in the ratio of 60:30:10. The Community contribution, however, can be made by the Panchayat out of its own resources. The Funds for previous phase has been still utilised by the SPs for the implementation of projects of Community Sanitary Complexes.

Details of CSC projects taken up by Districts under SSM (2)

Districts	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

4.4 ODF Plus

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

5. Performance Based Incentive Grant

[illegible] Crore towards performance based incentive grant, being 10% Central grant. Rs.[illegible] Crore has been distributed among 11 districts based on the number of households each GP for achieving various SLWM activities of GPs as per the guidelines. It is utilized to meet shortfalling expenses of toilets up to Rs.2,000 per toilet for HHs constructed after [illegible] or the date of the issuance certificate of Convergence Scheme Financial Statement, including for the state damages during flood. The progress of implementation has been monitored and [illegible] has been concluded. Incentives to about [illegible] Crore. Apart from the 100% [illegible] of shortfalling [illegible] HHs, [illegible] HHs of [illegible] are under various stages of construction. The details are as given under:

The Expenditure Details of PBIG is Given Under

S. No.	District	No. of GPs	Total Fund Received (Rs. in Lakhs)	Expenditure	Balance (Rs. in Lakhs)
	Sub Contractor		Rs.	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Total	[illegible]	[illegible]	[illegible]	[illegible]

5.1 Details of BHL projects/services by Districts under [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

4. GOBAR-DHAN

Galvanizing Organic and Agro Resources Dhan (GARD) Scheme

Presently, it is an integral component of SBM (G) which is intended to manage cow-dung including animal waste, kitchen waste, crop residue and market waste into biogas. Until last year 21 projects of Gobar-Dhan biogas plants were installed in the state out of which 12 are completed. In addition to this, another 10 projects are in stages during 20-21 and project formulation for these projects are initiated. The estimated cost of these 40 projects under the scheme is Rs.14.15 Cr. It is the good beginning in the processing of bovine 10 tonnes of biodegradable waste into the biogas and compost.

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

7. Swachh Bharat Mission (Urban)

[illegible] of manual scavenging, scientific solid waste management, and largest behavioural change towards healthy sanitation practices.

[illegible] Public Toilets, Solid Waste Management, Office Expenses and Capacity Building, Information, Education and Communication activities. The progress of each component is given below.

Mission Allocation and expenditure

SBM (U) Funds Received & Expenditure (Lakh)

Year	Total Opening Balance	Total Fund Released (Lakh)	Total Expenditure (Lakh)	% of Expenditure
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]		[illegible]	
[illegible]	[illegible]		[illegible]	
Total	[illegible]	[illegible]	[illegible]	

SBM (U) Funds Received & (Lakh) Component wise Expenditure

	[illegible]			[illegible]			[illegible]		
Year	Total Opening Balance	Fund	% of Exp	Total Opening Balance	Fund	% of Exp	Total Opening Balance	Fund	% of Exp
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	
Total	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	

[illegible] Central Sector [illegible] Lakh per beneficiary. Central government contribution for this component of Rs. [illegible] per beneficiary [illegible] Rs. [illegible] per beneficiary [illegible] Central Share of Rs. [illegible] per [illegible].

The MHA continued to facilitate the DAY connected tasks against the target of [illegible] [illegible] Council of India. [illegible] for FY [illegible] [illegible] Rs. [illegible] [illegible] [illegible]

7.2 Public Toilet

Central government assistance for the construction of public toilets and urinals will be in the form of 50% Grant-VGF, for each toilet block constructed. The base unit cost of 10% will be calculated at Rs 35000 per seat, wherein the VGF Grant will be Rs 35,000 per seat. For urinals, base unit cost of urinals will be calculated at Rs 20000 per seat, wherein the VGF Grant will be Rs 10,000 per seat. States will contribute a minimum of Rs 25,124 per seat towards public toilet projects to match Central Share of Rs 35,000 per seat.

The revised target set under the scheme (Step (c) for the construction of Public Toilet were in the state in 1335. Construction of 500 toilet-seats are completed and the remaining are proposing.

Details of Public Toilet projects taken up by Districts under SBM (G)

District	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1.1 Sustainable Development Goal 16M (A)

Financial Stress Index increases 1.0% in January 2018 from the long-term average. Consumer price inflation rate increases marginally to 3.4% in January 2018 from 3.3% in December 2017. Inflation is in line with the Central Bank's target of 5% ± 2%. Identified bank branches. Dotted colonnade indicates the data is in the form of a maximum of 22 figures.

Trading of MM products (sales up to the bank, as per CBM policy) MM (A)

Group	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	%	[illegible]	[illegible]	[illegible]	%
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Total	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

7.1 Details regarding Solid Waste Management Services Supplied by LA/Zs through PSM U Initiative

Provision for the supply of more than 4 MW source level waste management services and formulated by the LA/Zs in the state as per approved DPRs under Swachh Bharat Mission-Urban. Out of the 13262 units are supposed installed which is 72% of the envisaged target and the rest is targeted to achieve by March 2022. When the envisaged target is achieved, more than 13% of urban households will have solid waste management services through SBM under PSM U initiative.

Sl. No.	Name of District	No. of Units as per DPR	No. of Units as per PSM U Initiative (Approved DPRs)	No. of Units installed (Actuals)	% of Achievement
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

6. Technical Sanctions from Suchitwa Mission

[illegible] Rs. [illegible] previous LSGIs have been [illegible] in 14 Districts. Through the implementation of these projects [illegible] solid waste management models, good work as well as [illegible] Suchitwa Mission [illegible] technical sanctions for the implementation of these projects.

Details of TS issued by District Suchitwa Mission for establishing material recovery and waste management facilities

Sl. No.	District	No. of Projects in which TS issued (Grama Panchayat)	Total cost of project under MRF (Lakhs)	Total Sanction (Lakhs)
1	Thiruvananthapuram	[illegible]	[illegible]	[illegible]
2	Pathanamthitta	[illegible]	[illegible]	[illegible]
3	Alappuzha	[illegible]	[illegible]	[illegible]
4	Kottayam	[illegible]	[illegible]	[illegible]
5	Idukki	[illegible]	[illegible]	[illegible]
6	Ernakulam	[illegible]	[illegible]	[illegible]
7	Thrissur	[illegible]	[illegible]	[illegible]
8	Palakkad	[illegible]	[illegible]	[illegible]
9	Malappuram	[illegible]	[illegible]	[illegible]
10	Kozhikode	[illegible]	[illegible]	[illegible]
11	Wayanad	[illegible]	[illegible]	[illegible]
12	Kannur	[illegible]	[illegible]	[illegible]
13	Kasargod	[illegible]	[illegible]	[illegible]
	Total	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]	[illegible]	[illegible]														
		[illegible]														
		[illegible]														
		[illegible]				[illegible]				[illegible]				[illegible]		
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]

Details regarding it is issued for the supply of Household Level Composting Devices 2020-21

Sl. No.	Name of the Municipality	Year	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]												

Details regarding [illegible] for the supply of [illegible] & Community Level Composting Devices [illegible]

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9. Guideline issued for Licensing

Poultry Waste Disposal and Poultry Waste Rendering Plants

[illegible] poultry waste disposal facilities in the State and it is estimated that around 100,000 MT of Poultry waste produced in the state. It is seen that some slaughtered poultry [illegible] waste including in the sale and risk of performing it, non-hygienic methods for the disposal of that waste. Several Indonesian have come to notice of illegal dumping of chicken waste in vacant and open localities. In these circumstances it has been felt that a detailed policy framework is best with the issue arising out of inappropriate management of chicken waste is required. Hence Kolkata Urban Services for Poor guidelines for licensing poultry waste disposal and poultry waste rendering plants. The guidelines under the project and activity of Government and is intended to supplement the guidelines by the Government, Ministry of Environment and Forest.

10. Various IEC Activities

Initiated by Swachhata Mission During 2020-21

10.1 Mass media activities

- Messages regarding solid waste management practices is given in the leading women magazines in Kerala in Malayalam & Tamil to sensitize the upper community in their to handle different types of waste and how to compost, so consumers apply to household level. The aim behind the messages is sensitize people in source level segregation of waste which helps in better resources from waste. It is expected that the messages are reached to around 30 lakh people in the state for a consecutive 4 months time.
- Campaign was through a Pre-launch and community radio for a period of 1 month. 2. To therefore pay by to Prevention use of SUPs among public and school outlet campaigns in connection with Gandhi Mission celebration, 1000 Home office inspection. The mission campaign 2020 are held at Pilot with LSGIs and community radios across the state.

10.2 Audio messages to 10 lakh people by way of Call-back Ringing service of BSNL

- Public aware by way of audio messages is disseminated to 10 lakh mobile numbers in the state by utilizing the call back ringing service of BSNL. People are advised to practice source level segregation and handover waste by segregated buckets to workers at home through the campaign.
- Reaching regular contact with teachers, interviews and quiz competitions with respect to motivation practices, children sensitization on SWM etc. Managing a coordinated & Video Diplomat. Continuity creation for solid waste source level waste.

10.3 Campaign against the use of "Single Use Plastics"

Video Drama campaign was organized through multiple media for conducting the ban impact on SUPs by the state government. Print media advertisements. FM & community radio campaigns. TV programmes. Pre-production through cinema theatre advertisements. The campaign could achieve substantial awareness among the people in the state towards the ban.

[illegible]

- To promote society [illegible] and consumption of tobacco, well-[illegible] are taken [illegible] with other LICs in the [illegible] which is planned to reach 100% during the current year.
- Compliance test conducted among public to identify the best creative design for calculating [illegible] and the actions taken are used in the calculations.
- Adopts this practice through conducting a survey and methods and team [illegible] are prepared and made available [illegible] and [illegible] to get the best [illegible] of [illegible].
- [illegible] in [illegible] conducting on [illegible] items in each chapter in [illegible] in [illegible] – [illegible], which [illegible] has produced [illegible] design of round [illegible] computing, [illegible] management.

To a [illegible] diary with program description of [illegible] made available to all newly developed tax representatives

[illegible] LICTAs in Cotonou (LIC) [illegible] fundamental [illegible] made available to [illegible] and activities. This [illegible] by way of [illegible] annual diary (ADD) to all LICTA [illegible] with [illegible] description of [illegible] programs and activities. [illegible] to [illegible] from [illegible] concept [illegible] LICTA [illegible] and distributed among staffs.

To a Online Portal created and incorporated into the top online – news portal in Malaysia (Malaysia Mainstream & Multimedia)

A [illegible] portal [illegible] articles, [illegible] PR, [illegible] with regard to [illegible] and [illegible] created and incorporated into [illegible] news portals of Malaysia Mainstream & Multimedia to ensure [illegible] to the [illegible]. This [illegible] made available to public [illegible] the final approval [illegible] is achieved. It is measured by each [illegible] of [illegible] people.

WTE/EC Tool Development

- A matrix to assess which WTE is prepared and most suitable to LGUs which could be tested against conducting their case than 3 pilot cases be carried out WTE to distribute all solutions other public other related. Workshops in implementing such facilities.
- Leaflets on the composting and commercial methods are popular to distribute among Public.
- Awareness on waste management targeting appropriate division of waste between to prepared and is ready for sorting.
- Comments relating to joint waste disposal facilities and such a matrix tool development to assist LGUs.
- Video Production to promote pilot projects in the area.
- Video and Note are Information to case manufacturers and officials as a reference guide to implement waste management projects. Liquid waste management are not a priority matter for people and users in the area until recent time when WTE started to promote such projects in the area. In order to make the as public concern and case for LGUs to understand the need of LWM projects, video documentations are more and disseminated among LGUs.
- Video Production to promote HCF & RDF projects in pilot level.
- In order to raise the grass root level awareness among as HHDF and RRF. Video of short duration monitoring the response of simple medical care to such facilities are produced and disseminated.

10.8 Social media information

- As of out Nepal network with more than 100 videos are available in the public domain which carry videos on awareness on waste management, case studies, Videos on sustainable waste management are key for composting & recycle, reduce, reuse & recycle.
- Regular updates are been happening in FB page of WTE.

Expenditure of IEC and CD Activities in Districts

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11. Development of E-Monitoring Platform

Waste Storage Management

[illegible] waste management monitoring system [illegible] of origin of waste generation and provide solution to reduce the waste and [illegible] for proper monitoring. [illegible] solution can be [illegible] to digitize [illegible] Solid Waste Management, Area Mapping and Local Bio-Medical Department. It would reduce the [illegible] online platform for citizens of Kolkata to participate and contribute [illegible] of the data. The [illegible] Centralized Data aggregation platform [illegible] to the data and [illegible] data, [illegible].

Highlights of the App

- Employees can avail [illegible] and comprehensive monitoring facility of logistics
- Decentralized [illegible] of organic waste composting can be achieved
- Ensuring the citizen participation in solid waste management
- Citizen will get an idea of nearest waste management facilities
- Can [illegible] and sharing [illegible] in public places
- Geotagged [illegible] and images can be uploaded through the system
- [illegible] waste management [illegible] will be achieved
- Facilitate [illegible] coverage through local self-governing bodies
- Facilitate the coordination among various departments

12. Collection @ School Programme

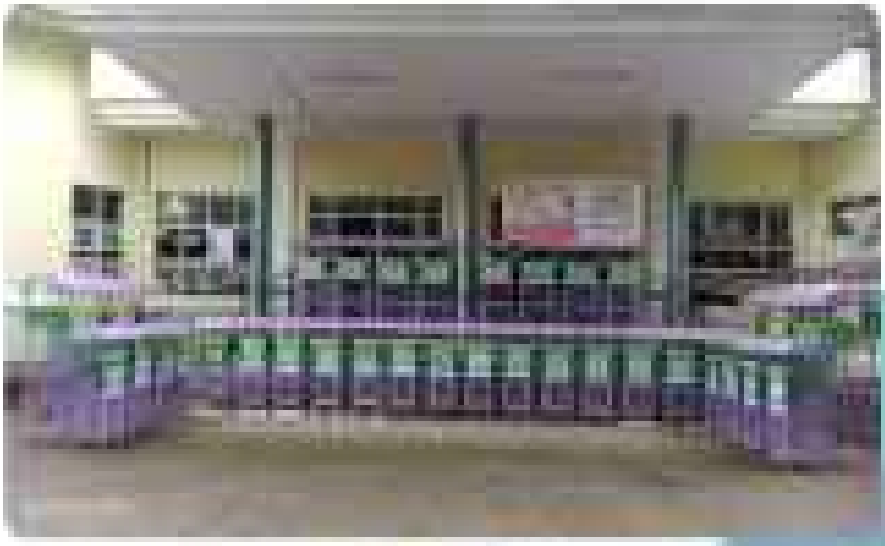
[illegible] is a pilot awareness programme targeting school students to create their awareness on the need for scientific waste management and recycling practices. The project initiated by Municipal Corporation is currently being implemented as a pilot project in [illegible] schools in the area of association with Local Self Government Institutions. A minimum of three schools from each district have been selected by Municipal Authorities/Corporations for implementing the programme in the pilot phase.

Aim

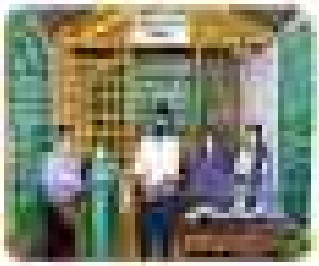
- To develop the habit of segregation of waste in students promoting waste management and hygiene.
- To develop an understanding of Reduce, Reuse, Recycle (3 R's) concept.

Activities

- Awareness programmes for students to understand the need of segregation in waste management.
- Distribution of awareness video to the whole collectorate.
- Installing Mini Material Collection Facility (MCF) in schools to segregate waste into 4 main bins: 1) Wet Bin, 2) Dry Bin, 3) Mix Bin, 4) Paper.
- Students are required to segregate the four wholesale waste which follows as stipulated in the MCF in schools.
- Jubilee Hall Merchants Association is also asked to take the segregated waste from the MCF.



Green Market Campaign



The programme is now being successfully implemented [illegible] schools across the state as pilot projects and is now in the [illegible] of expanding to [illegible] schools. The Ministry intends to scale up this project to other schools in the state.
The details of MDG approved [illegible] in the [illegible] (project is [illegible]):

[illegible]	[illegible]					[illegible]	[illegible]		[illegible]	
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Annexure 2

Details of TS issued from Districts for setting up waste management devices/Facilities

S.No	Name of the City	[illegible]	No. of units	Estimated Amount
		[illegible]		
1	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]
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		Total	[illegible]	[illegible]
		[illegible]		
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		Total	[illegible]	[illegible]
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Liquid Waste Management

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Functioning STPs / ETPs

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Details of MOU under Contribution STPI in this state

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Best Practices

1. Thaiur Solid Waste Management

Thaiur will find a way – Waste Management is accordingly for employment generation for local residents in Thaiur

Story as staff by Thaiur Municipality staff

Thaiur, a town village in Nagapattinam district in Tamilnadu became a conflict zone for solid waste management should state by strictly following and implementing the state's waste management policy of source segregation, recycle and composting and handling over biodegradable wastes under Green Task Force executed model in Thaiur as the Municipality, Health Source Bank (HSB) is the institutional mechanism in place to assist the households, institutions and community for managing the domestic waste and move the recyclable waste to Material Collection Facility (MCF) as a social enterprise and locally formed and managed through the State Poverty Eradication Mission (Thaiur) as a sustainable and sustain on user fees collected for the services they provide.

Thaiur is Kaliyaru Block of Nagapattinam district consists of 11 wards and 9000 population. There are around 2000 households and 100 institutions which some under the auspices of the Thaiur Jurisdiction. Agriculture is the main source of income for the majority of people here. Almost 12 % of the population here belongs to Scheduled Caste and Tribe.

There was no proper system of handling plastic waste which causes trouble to farmers and agricultural activities. We know the presence of domestic plastics can take more time to decay in the the agriculture and affected the quality of the produce by pests etc. This creates concerns among the farmers and LSG representatives. The meeting at commissioner's cabinet for need of innovative intervention and spotted problems for solutions. They started consultation with Tamilnadu Mission the nodal agency of the State for sanitation and waste management, and decided to launch Thaiur to drive collection of dry waste from each household and institution. Though the quantity of plastic and other dry waste by weight is only less than 20% of the total waste generation, it creates environmental challenges by very slow getting degraded. People discussed everything together in their localities and there are some people creative ideas spotted across and become a champion.

In this context, 15 members [illegible] group started collecting [illegible] dry waste. The group of people [illegible] and trained to the [illegible] with the support of auxiliary nurses and [illegible]. A temporary shed [illegible] to the [illegible] which is located in [illegible] the [illegible] office is located in [illegible] and [illegible] recruited for [illegible] and [illegible]

[illegible] Facilities (MCF) are the [illegible] for non-biodegradable [illegible] from households and [illegible] where it is transported for [illegible] recycling. The capacity and [illegible] conducted under the temporary MCF [illegible] the most than 40 tonnes in the HUL. The [illegible] charge of any [illegible] is included in [illegible] with the [illegible]. The Particular Fodder is about to capacity the material in MCF on regular basis and the total survey cleaner for the [illegible] and [illegible] agreement with the Municipal.

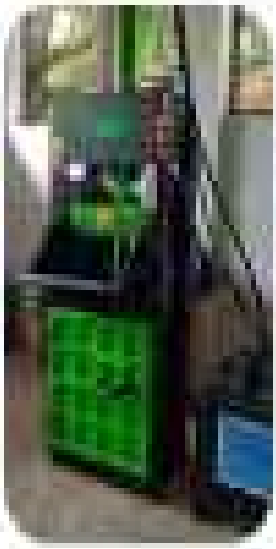
The [illegible] collection regularly collects a year from households and every month from [illegible]. [illegible] collects 1 times a year at the rate of Rs.[illegible] per household. But other [illegible] households, it has are paying [illegible] each time they [illegible] collection drive. The [illegible] collected from [illegible] comes [illegible] per month at the rate of Rs.70 per month from 100 [illegible]. The charge is [illegible] for a 3 month period comes around 1,[illegible]. The [illegible] [illegible] working day with an average of [illegible] working days per month.

It is estimated that more than [illegible] per year of [illegible] [illegible] 1 tonnes of [illegible] plastic bottles and broken glasses are sold from [illegible] and generated an [illegible] of 1.2 [illegible] so far from the [illegible] of more than [illegible] [illegible] by the [illegible] which [illegible] can be [illegible] as raw material or recycled for recycling.

There is the first [illegible] in the state and [illegible] an agreement with a [illegible] NGO to take out the [illegible] accumulated in the MCF for utilizing them by [illegible] processes in cement factory. The task of making the [illegible] suitable for [illegible] is not an easy one. It must be free from dirt, moisture and metal particles. The [illegible] material should be [illegible]. They need over to NGO cement factory needs the accurate [illegible]. So far the Municipal council [illegible] of space which includes [illegible] and tool sheds etc to [illegible] of handing over the [illegible] to [illegible].

There are [illegible] challenges in [illegible] resource crunch like land, money, building etc to [illegible] from any [illegible] solid waste management services. Considering the [illegible] on the need and importance of proper waste management system and the benefits of having such system is important. The waste handlers can play a crucial role here in sensitizing the public. Also the [illegible] [illegible] of the waste should be monitored by the [illegible]. They must [illegible] the support to the [illegible] in [illegible] collection and to ensure that the waste which is causing [illegible] the households is given the [illegible] suggested by MCF.

2. Nagapattinam's Kadambadi village is a model ODF Plus village



Outlining various ODF Plus interventions, Kadambadi village in Nagapattinam District of Tamil Nadu is today a model ODF Plus village. Although the sanitation coverage increased to the levels of ancient Mycenae, the village which was declared as ODF in 2015 has shown sustained performance in sanitation and waste management, compared to other Gram Panchayats (GPs) in the Panchanadhi block.

Kadambadi village has a population of 10,000 and has a total collection of dry waste and 100 percent management of non-waste at source. The village has been successful in initiating practices for collection of segregated waste from all households and 70 percent of households.

A Material Collection Facility (MCF) has been established in GP to aid the functioning of village level collection through Tamil Nadu Waste Management (TNWM) at the block level.

Further, all [illegible] the environment of the village is monitored.

[illegible] effective implementation of the Open Defecation Free (ODF) Protocol, [illegible] are [illegible] under the auspices of the ODF.

Open defecation is essentially a set of measures which could results in significant reduction of public generation with a primary focus on eradication of use of decomposition and other sustainable alternatives such as pit latrines, septic tanks and aerobic digesters and toilets.

Open defecation can [illegible] culture, tradition, religion, practice is rooted in Africa. When Open Protocol is implemented in any public, non-sewerage waste generation becomes most to zero. Therefore, the question of waste management after the ODF becomes critically important. It was [illegible] during the National Open Fest in Kindu and now it has become a people's movement with many functions including [illegible] implementing the Open Protocol.

Another strong strategy was the engagement of an external agency to [illegible] support for solid waste management (SWM) initiatives. The agency facilitated regular monitoring of SWM initiatives under the guidance of the ODF administration.

Notably, in Kindu, Nigeriwan Oil Co. and joint efforts to a total facilities. More than 20 per cent of households and institutions have their own waste [illegible] waste management facilities, while in schools and religious centres there are [illegible] systems for managing solid waste and [illegible] for managing faecal waste.

To know people aware of the importance of public sanitation, ODF and managing solid waste, messages are exhibited in prominent locations.

State government initiatives to achieve ODF Plus Usage and Service

The State Government in August 2017 has issued an order regarding ODF Plus requiring [illegible] and open defecation. It has also organised an information program in cities and townships to sensitise and conducted a first level survey for identifying [illegible] and open defecation in the capital.

During the survey, [illegible] were identified and some traders were given instructions to begin [illegible] using the [illegible] in Kindu. Ten Kindu Commission Board and chairman of the Local State Technical support is being considered considering the [illegible] in non-fulfilling.

Focus is being given to [illegible] activities that promote [illegible] management of [illegible] waste generation. [illegible] for the [illegible] collection and [illegible] of waste. Kindu has become an innovative model for sanitation and waste management in Independent States. Citizens people are now noting the [illegible] and [illegible] the activities been carried in sanitation sector. This would further help other LGAs to actively get involved in sanitation and waste management [illegible] activities.

A model SWM initiative in Balussery GP, Kerala

The solid waste management initiative in Balussery Grama Panchayat (GP) of Kozhikode District in Kerala has all the required infrastructure and efficient systems in place for collection and management of 5,000 of solid waste, making it a model SWM initiative in the State.

The GP has a population of 27,000 individuals from 5,624 households, 25 institutions, a minority [illegible] Community facilities (CCF), 111 kitchens, one resource recovery facility (RRF) and one common composting facility (CCF) that caters to all 27 wards. A 10-member Green Task Force oversees all waste management activities.

Segregation at the source. The consumers of solid waste that is deposited consists of [illegible] kg/day. As many as 5,624 households covered through door-to-door collection of waste. While the 2,100 households pay a fee of Rs. 30 per month for waste collection, as per MC 10 a month as collection charges.

Two workers from the Haritha Karma Sena (HKS) or Green Technology collect the household and institutional waste in each zone of the commercial zone [illegible] in addition, there are 25 people from [illegible] 3 waste pickers, 31 HKS NGOs, 20 Green Arts, etc., which are placed in various [illegible] the Panchayat to collect, to stop in front the [illegible].

Waste collected by HKS are transported [illegible] at convenient intervals. It takes place [illegible] from the three vehicles are transported to the UGC at GP. Most of the [illegible] in terms of plastics, and different [illegible] papers.

Plastics are sent [illegible] and other recyclables are sent to [illegible] Kerala, and [illegible] are sent to some other [illegible].

As for [illegible] are paid to [illegible] employees, they are [illegible] are more supervised by GP [illegible].

Municipal Partnership: Having commenced work in [illegible] in February 2016, the quantity of waste collected and for varying sums is 1,[illegible] tons, and the quantity of plastics generated and sent for reuse is 1,[illegible] tons and the quantity of waste disposed through Green Waste Company 1,000 to 1,[illegible] tons.

Deposition strategies adopted: In pursuance of the Green Protocol, Sri Pachiyappa has bought 1,000 Green dustbins and numbers and has been providing them to the public for parking, events, or functions, thus moving them away from the use of disposable crockery and cutlery.

Revenue generation: The SP earns considerable revenue from the user fee collection charges from households and institutions, and from the production and marketing of alternative products made and also charges relating of waste crockery dinnerware, furniture, organic farming, usage of the MCF, RRF services, use of composting facilities, and sale of durable waste from MCF and RRF.

The average monthly remuneration earned by each Haritha Karma Sena is Rs. 3,[illegible] per month.

As far as expenditure are concerned, the SP incurred nearly Rs. 2,[illegible] for maintaining DCF, Rs. 2[illegible],000 in RRF, Rs. 1[illegible],000 to Green Pachiyappa and Rs. 1[illegible],000 to Green Pachiyappa, Rs. 3,[illegible],240 for setting and maintaining facilities, and Rs. [illegible] for IEC activities, consultancy, administrative, and Drive costs.

Support from Suchitwa Mission: Suchitwa Mission which is the technical support unit of SWM in the state has given technical support to Local Government Department, Government of Kerala in relationship to solid waste management and Managerial support to the Local Self Governments of the State. In the case of Kanjikuzhi GP, Suchitwa Mission has provided timely assistance and technical guidance to take up concentrated solid waste management and solved their issues.

Continuous project cycle is solid chain for planning and formulation of projects. All GPs under the block provided assistance such projects/schemes.

Projects are implementing through government scientific agencies which Suchitwa Mission has approved as service providers, should an agencies are interested to enter into a technical consultancy to assist/guide in implementing course of action with waste management systems.

The providing support to GPs for establishment of SWM waste management processes, agencies are empanelled as Haritha Karma Bhavanam. They support the GPs in arranging logistics for SWM collection, management of Haritha Karma Sena, and establishing Revolt Delegate, etc.

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SUCHITWA MISSION

[illegible]