


## ANNUAL REPORT ON SOLID WASTE MANAGEMENT FOR THE YEAR 2019-20

## FORM - V

## PART A

To,

The Chairman  
Central Pollution Control Board  
Parivesh Bhawan, East Arjun Nagar  
Delhi- 1100032

1.	Name of the State/ Union Territory:	Sikkim
2.	Name & address of the State Pollution Control Board:	Sikkim Pollution Control Board, Department of Forests and Environment, Deorali - 737102, Gangtok, East Sikkim
3.	Number of Local Bodies responsible for management of Solid Waste in the State/UT under these rules:	07 (includes only Urban Local Bodies)
4.	No. of authorisation application received:	01
5.	A summary statement on progress made by local body in respect of solid waste management:	Annexure-I
6.	A summary statement on progress made by local bodies in respect of waste collection, segregation, transportation and disposal:	Annexure-II
7.	A summary statement on progress made by local bodies in respect of implementation of Schedule II:	Annexure-III
<p>Date: 06.08.2020. Place: Gangtok</p>		 <p>Member Secretary State Pollution Control Board</p>

## PART B

**1. Towns/cities**

- i. Total number of towns/cities: **07**
- ii. Total number of ULBs: **07**
- iii. Number of Class I and Class II cities/towns: **Not Available**

**2. Authorization status (names/number)**

- i. Number of applications received: **01**
- ii. Number of Authorizations granted: **01**
- iii. Authorizations under scrutiny: **Nil**

**3. SOLID WASTE GENERATION STATUS**

- i. Solid waste generation in the State (TPD): **74.7**
- ii. Collected (TPD): **74.6**.
- iii. Treated (TPD): **12.56**
- iv. Landfilled/Dumped (TPD): **62.032**

**4. Compliance to Schedule I of SW Rules (No. /names of towns/capacity)**

- i. Good practices in cities/ towns: **Collection of waste by ringing of bell in all the towns.**
- ii. House-to-house collection: **Yes**
- iii. Segregation: **Segregation of dry and wet waste is in practice. Separate bins are being provided to residents for source segregation by ULBs.**
- iv. Storage: **Most of the houses practice storage of waste at source.**
- v. Covered transportation: **Yes**

**5. Processing of SW (No. /names of towns/ capacity)**

- i. Solid Waste processing facilities set up.

Sl. No.	Composting	Vermi-Composting	Biogas	RDF/Pelletization
01	MANGAN, NORTH SIKKIM (80kg/day)	NIL	NIL	NIL
02	MARTAM, EAST SIKKIM (50TPD)	NIL	NIL	NIL
03	VEGETABLE MARKET UNDER GANGTOK MUNICIPAL CORPORATION (1 TPD)	NIL	NIL	NIL



## ii. Processing facility operational:

Sl. No.	Composting	Vermi-Composting	Biogas	RDF/Pelletization
01	MANGAN, NORTH SIKKIM (80kg/day)	NIL	NIL	NIL
02	MARTAM, EAST SIKKIM (50TPD)	NIL	NIL	NIL
03	VEGETABLE MAKET UNDER GANGTOK MUNICIPAL CORPORATION (1 TPD)	NIL	NIL	NIL

## ii. Processing facility under installation/planned:

Sl. No.	Composting	Vermi-Composting	Biogas	RDF/Pelletization
	NIL	NIL	NIL	NIL

## 6. Waste-to-Energy Plants (No./names of towns/ capacity)

Sl. No.	Plant Location	Status of operation	Power generation (MW)	Remarks
	NIL	*NA	*NA	*NA

\*Not applicable





**7. Disposal of solid waste (No. /names of towns /capacity):**

Sl. no		Gangtok Municipal Corporation (GMC)	Gyalshing Municipal Council (GyMC)	Mangan Nagar Panchayat (MNP)	Namchi Municipal Council (NMC)	Rangpo Nagar Panchayat (RNP)	Singtam Nagar Panchayat (SNP)	Jorethang Municipal Council (JMC)
1.	Landfill site identified	Martam, East Sikkim	Sipsu, West Sikkim	Ringdang in Dzongu North Sikkim.	Sipsu, West Sikkim	Martam, East Sikkim	Martam, East Sikkim	Sipsu, West Sikkim
2.	Landfill constructed	Martam, East Sikkim	Sipsu, West Sikkim	Chandey at Mangan.	Sipsu, West Sikkim	Martam, East Sikkim	Martam, East Sikkim	Sipsu, West Sikkim
3.	Landfill under construction	Nil	Nil	Ringdang in Dzongu North Sikkim.	Nil	Nil	Nil	Nil
4.	Landfill in operation	Martam, East Sikkim	Sipsu, West Sikkim	Chandey at Mangan.	Sipsu, West Sikkim	Martam, East Sikkim	Martam, East Sikkim	Sipsu, West Sikkim
5.	Landfill exhausted	Nil	Nil	Nil	Nil	Nil	Nil	Nil
6.	Landfill capped	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**8. Solid Waste Dumpsites (No. /names of towns/ capacity):**

i. Total number of existing dumpsites: **02 no's, one at SIPSU (WEST SIKKIM) and other at Chandey (North Sikkim)**

ii. Dumpsites reclaimed/capped: **Nil**

iii. Dumpsites converted to sanitary landfill: **1, Martam Landfill site.**

**Note:** Gangtok Municipal Corporation, Rangpo Nagar Panchayat and Singtam Nagar Panchayat located in East District are availing the landfill facility located at Martam, East Sikkim. Similarly, Geyzing Municipal Council, Namchi Municipal Council and Jorethang Municipal Council located in South and West Districts are using the facility located at Sipsu, West Sikkim.

**9. Monitoring at Waste Processing/landfill sites:**

Sl. No.	Name of facilities	Ambient Air	Ground water	Leachate quality	Compost quality	VOCs
-	-	Not available	Not available	Not available	Not available	Not available

**10. Status of Action Plan prepared by Municipalities**

- i. Total number of municipalities: **07**  
 ii. Number of Action Plan submitted:

Sl. No.	Name of Municipality	Status of Action Plan (As per the information received from ULBs in their annual report)
1.	Mangan Nagar Panchayat	Prepared
2.	Rangpo Nagar Panchayat	Prepared
3.	Singtam Nagar Panchayat	Prepared
4.	Gyalshing Municipal Council	Prepared
5.	Namchi Municipal Council	Prepared
6.	Jorethang Municipal Council	Prepared
7.	Gangtok Municipal Corporation	Prepared



## ANNEXURE – I

**A SUMMARY STATEMENT ON PROGRESS MADE BY LOCAL BODY IN RESPECT OF SOLID WASTE MANAGEMENT:**

1. Door to door collection of segregated waste is being currently practised in most of the ULBs of Sikkim through garbage collection vehicle.
2. Practice of Community bins/secondary waste storage facility has been stopped but GMC has placed bins for tourist and local public in main market area.
3. All the Wards coming under Urban Local Body are covered with segregation bins for Wet & Dry waste.
4. One tonne composting unit has been installed at Khangchendzonga vegetable market at Gangtok to convert vegetable waste to compost by Gangtok Municipal Corporation (GMC).
5. Waste cloth from furnishing shops have been converted into different item for sale e.g. handbags, pillow cover, etc. by GMC.
6. State Level Committee with Justice A.P. Subba, former Judge, and High Court of Sikkim as its Chairperson has been formed, to monitor and oversee the implementation of Waste Management Rules as per the direction/order passed by the Hon'ble NGT



## ANNEXURE – II

**A SUMMARY STATEMENT ON PROGRESS MADE BY LOCAL BODIES IN RESPECT OF WASTE COLLECTION, SEGREGATION, TRANSPORTATION AND DISPOSAL:**

1. Door to door collection of waste along with ringing of bell is being carried out in the ULBs of Sikkim through garbage collection vehicle.
2. As reported by Urban Local Body (ULBs) segregation of dry and wet waste has been started in various wards.
3. Transportation of collected waste is done by assigned covered garbage vehicles with GPS facility.
4. The waste is processed and landfilled in designated sites at different locations across the State.



## ANNEXURE – III

**A SUMMARY STATEMENT ON PROGRESS MADE BY LOCAL BODIES IN RESPECT OF IMPLEMENTATION OF SCHEDULE-II:**

1. The town of Mangan in North Sikkim processes roughly about 80kg/day of total Solid waste generated through Organic Waste Converter Machine. The compost generated is sold in open market.
2. A compost plant is in operation at Martam landfill site. It is reported that the compost generated is being sold by the GMC.





**TALLY OF THE AMOUNT OF WASTE GENERATED BY 07 URBAN LOCAL BODIES OF SIKKIM  
FOR THE YEAR 2019-20 AS REPORTED IN THEIR ANNUAL REPORT SUBMITTED TO SPCB-  
SIKKIM**

Sl. No	Name of ULB	Population (2011 census)	Solid waste generated (TPD)	Solid waste collected (TPD)	Solid waste treated (TPD)	Solid waste landfilled/Disposed at dumping site (TPD)
1.	Gangtok Municipal corporation (GMC)	1,00,286	50.00	50.00	11.00	39.00
2.	Gyalshing Municipal Council (GyMC)	6,185	3.5	3.5	NIL	3.5
3.	Mangan Nagar Panchayat (MNP)	4,644	0.60	0.60	0.06	0.532
4.	Namchi Municipal Council (NMC)	15,953	4.60	4.50	NIL	4.5
5.	Rangpo Nagar Panchayat (RNP)	10,540	10.00	10.00	NIL	10.00
6.	Singtam Nagar Panchayat (SNP)	5,868	2.50	2.50	Nil	2.50
7.	Jorethang Municipal Council (JMC)	11,286	3.50	3.50	1.5	2
<b>Total</b>		<b>1,54,762</b>	<b>74.7</b>	<b>74.6</b>	<b>12.56</b>	<b>62.032</b>