

ANNUAL REPORT ON SOLID WASTE MANAGEMENT FOR THE YEAR 2017-2018

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 Environment and Wildlife Management, Deorali - 737102, Gangtok, East Sikkim
3.	Number of Local Bodies responsible for management of Solid Waste in the State/UT under these rules:	07
4.	No. of authorisation application received:	Nil
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
Date: Place: Gangtok		Member Secretary State Pollution Control Board

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: Nil
- ii. Number of Authorizations granted: Nil
- iii. Authorizations under scrutiny: Nil

3. SOLID WASTE GENERATION status

- i. Solid waste generation in the State (TPD): 73.34
- ii. Collected (TPD): 63.00
- iii. Treated (TPD): 7.50

iv. Landfilled (TPD): Nil (51.00 TPD of waste generated is disposed at the dumping site)

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

- i. Good practices in cities/ towns:
- ii. House-to-house collection: Yes
- iii. Segregation: Arithang Ward under GMC practices complete segregation at source
- iv. Storage:
- 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

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

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	01/ Martam, East Sikkim	Nil	01/ Mangan, North Sikkim	Nil	Nil	Nil	Nil
2.	Landfill constructed	01/ Martam, East Sikkim	Nil	Nil	Nil	Nil	Nil	Nil
3.	Landfill under construction	Nil	Nil	Nil	Nil	Nil	Nil	Nil
4.	Landfill in operation	Nil	Nil	Nil	Nil	Nil	Nil	Nil
5.	Landfill exhausted	Nil	Nil	Nil	Nil	Nil	Nil	Nil
6.	Landfill capped	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Note: GMC, RNP and SNP are availing the same facility located at Martam, East Sikkim. Similarly, GyMC, NMC and JMC are using the facility located at Sipsu, West Sikkim.

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

- i. Total number of existing dumpsites: 02, MARTAM (EAST SIKKIM) & SIPSU (WEST SIKKIM)
- ii. Dumpsites reclaimed/capped: Nil
- iii. Dumpsites converted to sanitary landfill: (01 sanitary landfill is being converted near dumping site at Martam (East Sikkim))

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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	Proposal with Nodal Department (UD&HD)
2.	Rangpo Nagar Panchayat	Not available
3.	Singtam Nagar Panchayat	Not available
4.	Gyalshing Municipal Council	Yes, DPR prepared and submitted to ministry under SBM
5.	Namchi Municipal Council	Proposal with Nodal Department (UD&HD)
6.	Jorethang Municipal Council	Not available
7.	Gangtok Municipal Corporation	DPR prepared under ADB funded SIPMUI Project

Note: SPCB-Sikkim has not received any information on the status of the above mentioned Action Plan/DPR.

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 provided in all the ULBs of Sikkim through garbage collection vehicle.
2. One ULB i.e., Gangtok Municipal Corporation (GMC) has placed bins for tourists in main market area.
3. Under Gangtok Municipal Corporation most of the Wards are covered with segregation bins for Wet & Dry waste.
4. 1 tonne composting unit has been installed at Khangchendzonga vegetable market 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

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 alongwith ringing of bell is being carried out in all the ULBs of Sikkim through garbage collection vehicle.
2. As reported by Gangtok Municipal Corporation (GMC), Arithang Ward under GMC practices complete segregation at source. Similar practices will also be initiated in other areas.
3. Transportation of collected waste is done by assigned covered garbage vehicles.
4. The waste is dumped in allocated dumpsites 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 Convertor Machine. The compost generated is sold in open market.
2. It is reported that a compost plant of capacity 50TPD is in operation at Martam landfill site.
3. The compost being generated is presently on pilot basis wherein they have tied up with Sajong Farmers Society and the compost is being used on trial basis. They would soon be sending samples to a registered lab for analysis. Once the compost is certified, GMC would be launching their product and selling it in the market.

**TALLY OF THE AMOUNT OF WASTE GENERATED BY 07 URBAN LOCAL BODIES OF SIKKIM
FOR THE YEAR 2017-2018 AS REPORTED IN THEIR ANNUAL REPORT SUBMITTED TO SPCB-
SIKKIM**

Sl. No	Name of ULB	Population	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)	100280	50.00	44.00	5.00	39.00
2.	Gyalshing Municipal Council (GyMC)	6185	7.00	4.50	1.50	3.00
3.	Mangan Nagar Panchayat (MNP)	7500	1.00	1.00	0.50	0.50
4.	Namchi Municipal Council (NMC)	13538	4.00	3.50	0.50	3.00
5.	Rangpo Nagar Panchayat (RNP)	16500	4.70	4.00	Not available	3.50
6.	Singtam Nagar Panchayat (SNP)	7579	2.64	2.00	Not available	2.00
7.	Jorethang Municipal Council (JMC)	16580	4.00	4.00	Not available	Not available
Total			73.34	63.00	7.50	51.00