

STATE POLLUTION CONTROL BOARD- SIKKIM
FOREST & ENVIRONMENT DEPARTMENT
GOVERNMENT OF SIKKIM
DEORALI, GANGTOK - 737102

F. No. 430/SPCB/664

Dated: 29/7/2024

To,

The Chairman
Central Pollution Control Board
Ministry of Environment Forest & Climate Change
Parivesh Bhawan, East Arjun Nagar
Delhi-110032

Sub: Submission of Annual Report on Solid Waste Management, Rules, 2016 for the financial Year 2023-24.

Sir,

Please find enclosed herewith the Annual Report on Solid Waste Management, Rules, 2016 for the financial Year 2023-24 in form IV for your kind information, please.

Thanking You

Yours Faithfully

(Dr. Gopal Pradhan)

Member Secretary
State Pollution Control Board-Sikkim



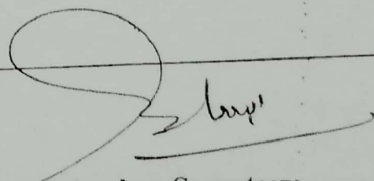
ANNUAL REPORT ON SOLID WASTE MANAGEMENT FOR THE YEAR 2022-23

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:	State Pollution Control Board- Sikkim, Forests and Environment Department, Deorali - 737102, Gangtok district 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
Date: 29/07/2024 Place: SPCB-Sikkim Deorali.		 Member Secretary State Pollution Control Board-Sikkim



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: (01) application for the renewal of authorization for the year 2024-25 is under scrutiny.

3. SOLID WASTE GENERATION STATUS

- i. Solid waste generation in the State (TPD): **69.68**
- ii. Collected (TPD): **69.68**
- iii. Treated (TPD): **36.57**
- iv. Landfilled/Dumped (TPD): **33.11**

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 of Sikkim, daily.**
- ii. House-to-house collection: **Yes**
- iii. Segregation: **Segregation of dry and wet waste at source is in practice.**
- iv. Storage: **Solid waste generated at the household/commercial/institution are stored at source and the segregated waste are handed over to the designated vehicles provided by local bodies.**
- 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, SIKKIM (0.2 TPD)	NIL	NIL	NIL
02	MARTAM, GANGTOK SIKKIM 50 TPD (composting plant earlier damaged by landslide has now been repaired however the said plant is currently running at the capacity of 7.52TPD)	NIL	NIL	49.15MT of RDF has been sent to cement industries for co-processing in the Financial Year 2023-24
03	At Lal Bazaar Gangtok Under Gangtok Municipal Corporation(GMC) (01 TPD)	NIL	NIL	NIL



ii. Processing facility operational:

Sl. No.	Composting	Vermi-Composting	Biogas/ Bio methanation	RDF/Palletisation
01	MANGAN, SIKKIM (0.2TPD)	NIL	NIL	NIL
02.	MARTAM, GANGTOK SIKKIM 50 TPD (composting plant earlier damaged by landslide has now been repaired however the said plant is currently running at the capacity of 7.52TPD)	NIL	NIL	NIL
03	At Lal Bazaar Gangtok Under Gangtok Municipal Corporation(GMC) (01 TPD)	NIL	NIL	NIL

iii. Processing facility under installation/planned:

Sl. No.	Composting	Vermi-Composting	Biogas/ Biomethanation	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

*NA: Not applicable



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

Sl. no		Gangtok Municipal Corporation (GMC)	Gyalshing Nagar Panchayat (GNP)	Mangan Nagar Panchayat (MNP)	Namchi Municipal Council (NMC)	Rangpo Nagar Panchayat (RNP)	Singtam Nagar Panchayat (SNP)	Jorethang Nagar Panchayat (JNP)
1.	Landfill site identified	Martam, Gangtok District	Nil	Nil	Nil	Martam, Gangtok District	Martam, Gangtok District	Nil
2.	Landfill constructed	01/ Martam, Gangtok district	Nil	Nil	Nil	Martam, Gangtok district	Martam, Gangtok district	Nil
3.	Landfill under construction	Nil	Nil	Nil.	Nil	Nil	Nil	Nil
4.	Landfill in operation	Martam, Gangtok District	Nil	Nil	Nil	Martam, Gangtok district	Martam, Gangtok district	Nil
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 Soreng District and other at Chandey Mangan District (However dumping site at Chandey, Mangan District has been stopped from April 2023 and Mangan Nagar Panchayat availing the landfill facility located at Martam.
- i. Dumpsites reclaimed/capped: 01 (Chandey, Mangan District)
- ii. Dumpsites converted to sanitary landfill: 1, Martam Landfill site.

Note:

(i) Gangtok Municipal Corporation, under Gangtok District, Rangpo Nagar Panchayat, Singtam Nagar Panchayat located under Pakyong District and Mangan Nagar Panchayat are availing the landfill facility located at Martam, Gangtok District Sikkim.

(ii) Similarly, Geyzing Nagar Panchayat, Namchi Municipal Council and Jorethang Nagar Panchayat located in Namchi and Geyzing Districts are using the dumping site located at Sipsu, Soreng District 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	ULBs reported in the form IV, that Action Plan (State Policy and Strategy and Plan) has been prepared vide gazette No. 184 dated 29.04.2019. for Solid Wastes Management.
2.	Rangpo Nagar Panchayat	
3.	Singtam Nagar Panchayat	
4.	Gyalshing Nagar Panchayat	
5.	Namchi Municipal Council	
6.	Jorethang Municipal Council	
7.	Gangtok Municipal Corporation	

ANNEXURE – I

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

- The total Solid Wastes generation for FY 2023-24 is 69.68 Tons per day, where total waste processed has increased from 34.47% to 52.48% in a day.
- Door to door collection of segregated waste is being currently practised in all of the ULBs of Sikkim through garbage collection vehicle.
- 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.
- Reduce-reuse-recycle centres have been established in all ULBs for collecting old/used clothes to avoid being dumped in all landfill.
- Five (05) Nos of PET bottle shredding machines are being installed at the following ULBs:
 - 2 Nos of PET bottle shredding machines are being installed at MG. Marg, the heart of the town with highest footfall.
 - 1 No of PET bottle shredding machines are being installed at Namchi Taxi Stand where the movement of tourist and locals are heavy.
 - 1 No of PET bottle shredding machines are being installed at main highway od Rongpo Bazar.
 - 1 No of PET bottle shredding machines are being installed at Jorethang near the Taxi Parking Plaza.



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 having separate chambers for wet and dry wastes.
2. Segregation and collection of waste into dry and wet waste being practised in all the ULBs. Focussed IEC activities on source segregation and positive behavioural change.
3. Transportation of collected waste is done by assigned covered garbage vehicles.

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

1. The town of Mangan currently is processes roughly about 0.2 TPD of total Solid waste generated (0.76 TPD) through Organic Waste Converter Machine. The compost generated being used by ULB itself.
2. Gangtok Municipal Corporation (GMC) at Lal market Gangtok have installed composed plant of capacity 01 TPD to convert organic waste into manure which is functional at present.
3. Commercial establishments like hotels sent their wet waste to farms for cattle feeds.



TALLY OF THE AMOUNT OF WASTE GENERATED BY 07 URBAN LOCAL BODIES OF SIKKIM FOR THE YEAR 2023-24 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 through composting and recycling (TPD)	Solid waste landfilled/Disposed at dumping site (TPD)
1.	Gangtok Municipal corporation (GMC)	1,00,286	49.12	49.12	24.08	25.04
2.	Gyalshing Nagar Panchayat (GNP)	4,013	2.2	2.2	1.2	1
3.	Mangan Nagar Panchayat (MNP)	4,644	0.76	0.76	0.49	0.27
4.	Namchi Municipal Council (NMC)	12,190	5	5	3.1	1.9
5.	Rangpo Nagar Panchayat (RNP)	10,450	4.1	4.1	2.7	1.4
6.	Singtam Nagar Panchayat (SNP)	5,868	3	3	1.5	1.5
7.	Nayabajar Jorethang Nagar Panchayat (NJNP)	10,244	5.5	5.5	3.5	2
Total		1,47,695	69.68	69.68	36.57	33.11

