

Roshni Sen, IAS  
Member Secretary



West Bengal Pollution Control Board  
(Department of Environment, Government  
of West Bengal)

Memo No. 36-IS-214/2012 (Part-II)

Date: 06.08.2021.

To  
The Member Secretary  
Central Pollution Control Board,  
Paribesh Bhawan  
East Arjun Nagar,  
Delhi – 110 032

**Subject:** Annual Report for the year 2020-2021 on Solid Waste Management Rules, 2016.

Sir,

Please find enclosed herewith the Annual Report on Solid Waste Management for the year 2020-2021 as per the prescribed format given in the Solid Waste Management Rules, 2016.

Yours faithfully

ROSHNI Digitally signed  
by ROSHNI SEN  
SEN Date: 2021.08.06  
11:55:45 +05'30'

Member Secretary

Enclosed: As stated.

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Paribesh Bhawan, Bldg. 10A, Block LA, Sector III, Salt Lake, Kolkata 700 106  
Tel: 2335-8213, Fax: 2335 2813/6730, Email: [ms.wbpcb-wb@bangla.gov.in](mailto:ms.wbpcb-wb@bangla.gov.in), Website: [www.wbpcb.gov.in](http://www.wbpcb.gov.in)

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**Form – V**

[see rule 24(3)]

**Format of annual report to be submitted by the state pollution control board or pollution control committee / committees to the central pollution control board****PART A**

To  
The Chairman  
Central Pollution Control Board  
ParibeshBhawan, East Arjun Nagar  
Delhi – 11 000 32

1.	Name of the State / Union territory	:	West Bengal
2.	Name & address of the State Pollution Control Board	:	WEST BENGAL POLLUTION CONTROL BOARD (Department of Environment, Govt. of West Bengal) ParibeshBhawan Bldg. No. 10 A, Block-LA, Sector-III, Bidhannagar Kolkata – 700 106
3.	Number of local bodies responsible for management of solid waste in the State / Union territory under these rules	:	125
4.	No. of authorization application received	:	0 (Between April,2020 and March, 2021)
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

**ROSHNI  
SEN**

Digitally signed by  
ROSHNI SEN  
Date: 2021.08.06  
11:56:42 +05'30'

Date..... Place Kolkata	Chairman or the Member Secretary State Pollution Control Board Pollution Control Committee
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## Annual Report on Municipal Solid Waste Management for the year 2020-2021 – West Bengal

### PART B

#### 1. Towns/Cities

- i) Total no. of towns/cities : 125\*
- ii) Total number of ULBs: 125
- iii) Number of class I & class II cities/towns: As per following table:-

a)	Nos. of <b>Class-I</b> Towns (more than 1,00,000 Population)	58 @
b)	Nos. of <b>Class-II</b> Towns (50,000–99,000 Population)	32
	TOTAL :	90

@ - including two Metro Cities, namely Kolkata & Howrah

#### 2. Authorization Status:

i)	Nos. of application received	Nil
ii)	Nos. of Authorization granted	Nil
iii)	Applications under scrutiny	Nil

#### 3. Solid Waste Generation status:

- (i) MSW generation in the state (TPD)=13709\*
- (ii) MSW collected (TPD)=13356 (97.42%)
- (iii) MSW treated (TPD)=667.6<sup>#</sup>
- (iv) MSW landfilled (TPD)=202.23<sup>##</sup>

\*Source: Annual Reports submitted by 125 Municipal Authorities.

<sup>#</sup>This is the total capacity of the compost plants that are in operation (list B).

<sup>##</sup> This is the total capacity of the Sanitary Landfills that are in operation (list-C).

#### 4. Compliance to schedule I of SW Rules (Number/names of towns/capacity)

- State Policy and Strategy for SWM been framed for the State.
- Solid Waste Management cell been created in the state.
- State Level Advisory Body (SLAB) (Rule 23) been constituted for the State.
- Implementation status of Action Plan been uploaded on State Govt.'s website
- Department of Urban Development & Municipal Affairs, GoWB has notified 3 model cities & Asansol Municipal Corporation, Durgapur Municipal Corporation & Bidhannagar Municipal Corporation & 5 towns Uttarpara Kotrung, Baidyabati, Rishra, Kalyani & Haldia municipality to develop as model city/town complying all criteria of Solid Waste Management Rules, 2016 as per direction of hon'ble NGT (O.A. No.606/2018 dated 02/04/2019)
- Action Plan (Management & Disposal of Waste, Selection and Establishment of Landfill site, Establishment and Operationalization of plants for plants) been framed.
- State Level Committee on solid waste management as per order of the hon'ble NGT dated 16/0/2019, O.A. No. 606/2018) has been constituted.
- Special Task Force ( Four members nominated by DM, SP, RO SPCB & District Legal Services Authority) for Awareness has been created in 100% districts.
- Compliance status in respect of waste collection, segregation, transportation and disposal is given in **Annexure-II**.

**Source:** Monitoring Compliance Report submitted by Department of Environment GoWB on July, 2021, w.r.t SWM Rules 2016 & Directions of Hon'ble NGT Dated 05-03-2019 (OA No.- 606/2018).



**5. Processing of SW(Number/names of towns/capacity)**

Solid waste processing facilities set up

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
<b>LIST A</b>				

**Processing facility operational:**

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
<b>LIST B</b>				

**Processing facility under installation/planned:**

Sl. No.	Composting	Vermi-composting	Biogas	RDF/Pelletization
<b>ANNEXURE II</b>				

**6. Waste to Energy Plants: (Number/names of towns/capacity)**

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

**7. Disposal of SW (number/names of towns/capacity):**

i)	Landfill sites identified	-
ii)	Landfill in operation	List-C
iii)	Landfill constructed	List-D
iv)	Landfill under construction	Annexure II
v)	Landfill exhausted	Nil
vi)	Landfill capped	Nil

**8. Solid waste dumpsites (number/names of towns/capacity):**

(i) Total no. of existing dumpsites: 107 ULBs' are disposing waste at dumpsites.

(ii) Dumpsites reclaimed/capped: 01

(iii) Dumpsites converted to sanitary landfill: Nil

**9. Monitoring at Waste processing/Landfill sites:**

Sl. No.	Name of facilities	Ambient air	Groundwater	Leachate quality	Compost quality	VOCs
1	Annexure-III					

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

(i) Total number of municipalities: 125

(ii) Details refer to Monitoring Compliance Report submitted &amp; uploaded in CPCB website by Department of Urban Development &amp; Municipal Affairs, GoWB w.r.t SWM Rules 2016 &amp; Directions of Hon'ble NGT Dated 05-03-2019 (OA No.- 606/2018).



**LIST-A****ULBs where Solid waste processing facilities set up**

Sl. No.	District	Name of the ULBs	Capacity TPD)	Composting/Biogas/RDF
1	Hooghly	Serampur Municipality	30 - 40	Composting
		Konnagar Municipality		
		Rishra		
		Uttarpara Municipality		
		Chandannagar Municipality		
		Baidyabati Municipality		
2	Nadia	Krishnanagar Municipality	130	Composting
3	Medinipore (E)	Haldia Municipality	70	Composting
4	Kolkata	Kolkata Municipal Corporation	500	Composting
5	Darjeeling	Mal Municipality	0.5	Composting
6	24 Parganas(S)	Rajpur –Sonarpur Municipality	1.0	Biogas
7	24 Parganas(S)	Jaynagar- Mazilpur Municipality	6.0	Waste to Energy
8	Howrah	Howrah Municipal Corporation in association with UNDP	70	Composting
9	Darjeeling	Darjeeling Municipality	60	Composting
10	Kalimpong	Kalimpong Municipality	3.0	Waste to Energy
11	Darjeeling	Siliguri Municipality	70	Composting

**List-B****ULBs where Solid waste processing (Composting) is in operation:**

Sl. No.	District	Name of the Municipality	Capacity (TPD)	Treated/Composting (MT/day)
1	Kolkata	Kolkata Municipal Corporation	500	500
2	Midnapore(West)	Haldia Municipality	150	3.1
3	Nadia	Krishnanagar	100	120
4	Hooghly	Bhadreswar Municipality	10	10
5	Hooghly	Uttarpara-KotrangMunicipality	28	2.5
6		KonnagarMunicipality	15	0
7		RishraMunicipality	25	2
8		SeramporeMunicipality	38	10
9		ChampdaniMunicipality	30	0
10		BaidyabatiMunicipality	20	20

**List-C****ULBs where Sanitary Landfill facility is in operation:**

Sl. No.	District	Name of the Municipality	Type	Capacity (TPD)	MSW Landfilled(TPD)
1	Midnapore(West)	Haldia Municipality	Stand alone	124	28.92
2	Hooghly	Uttarpara-KotrangMunicipality	Common regional landfill facilityhas been developed by the Kolkata Metropolitan Development Authorityunder JICA assistance at Mouza-Dirghangi, Dist.- Hooghly	210	22.81
3		KonnagarMunicipality			12.5
4		RishraMunicipality			45
5		SeramporeMunicipality			30
6		ChampdaniMunicipality			15
7	BaidyabatiMunicipality	48			

**List- D**

**ULBs where landfill constructed:**

Sl. No.	District	Name of the Municipality	Type	Capacity (TPD)	Remarks
1	Hooghly	Sreerampur Municipality	Common Regional Sanitary Landfill Facility	210	At present used by six ULBs
		Konnagar Municipality			
		Rishra			
		Uttarpara Municipality			
		Chandannagar Municipality			
		Baidyabati Municipality			
2	Medinipore( E )	Haldia Municipal Corporation in association M/s. Enviro Engineers Ltd.	Sanitary Land Fill	124	In operation



## ANNEXURE-I

### A Summary Statement on progress made by local body in respect of solid waste management

The municipalities in the state are striving continuously to improve solid waste management w.r.t. collection, segregation, safe transportation & scientific disposal. ULBs have started door-to-door collection of waste in 2878 wards out of 2938 wards. Waste segregation at source has been started in 913 wards (31%). KMC has installed 07 nos. Decentralized Organic Waste Converter (OWC). Bio-CNG Plant of capacity 5 TPD is going to be installed at Dhapa. 18 municipalities have installed compost plants – some of these are shared by neighboring municipalities. Out of these 09 compost plants are operational at present. Details are provided in Part B (List B). 13 sanitary landfills have been developed involving 25 ULBs' including a Regional landfill developed by the Kolkata Metropolitan Development Authority in Hooghly district for 6 municipalities namely, Uttarpara-Kotrung, Konnagar, Rishra, Serampore, Baidyabati and Chamdany Municipality. Out of these 02 landfills are operational at present including the aforesaid Regional landfill. Details are provided in Part B (List C).

Apart from these, Department of Urban Development & Municipal Affairs, GoWB has proposed to set up 4 cluster projects involving 18 municipalities. The cluster projects are as following:

Cluster No	ULBs covered under Proposed Cluster
I	Promodnagar Cluster comprising of 7 ULBs.
II	NKDA, NDITA, Bidhannagar MC have been integrated with the processing site of KMC at Dhapa after due diligence.
III	Ashoknagar-Kalyangarh and Habra
IV	Baidyabati, Uttarpara-Kotrung, Rishra, Serampore, Champdany, Konnagar, Dankuni and Bhadreswar
For 65 more ULBs standalone method has been adopted and tenders have already been floated.	

#### **Other significant headways:**

- ❖ State Policy and Strategy for SWM been framed for the State.
- ❖ Solid Waste Management cell been created in the state.
- ❖ State Level Advisory Body (SLAB) (Rule 23) been constituted for the State.
- ❖ Implementation status of Action Plan been uploaded on State Govt.'s website
- ❖ Department of Urban Development & Municipal Affairs, GoWB has notified 3 model cities & Asansol Municipal Corporation, Durgapur Municipal Corporation & Bidhannagar Municipal Corporation & 5 towns Uttarpara Kotrung, Baidyabati, Rishra, Kalyani & Haldia municipality to develop as model city/town complying all criteria of Solid Waste Management Rules, 2016 as per direction of hon'ble NGT (606/2018 dated 02/04/2019)
- ❖ Action Plan (Management & Disposal of Waste, Selection and Establishment of Landfill site, Establishment and Operationalization of plants for plants) been framed.
- ❖ State Level Advisory Body (SLAB) (Rule 23) been constituted for the State.
- ❖ The Centre for Environment and Education under MoEF, GOI has been engaged as State level IEC agency. Awareness has been created for 100% Districts in which Special Task Force (Four members nominated by DM, SP, RO SPCB & District Legal Services Authority).
- ❖ Capacity Building training of the stakeholders of the ULBs have been started.
- ❖ Self-Help-Group – based publicity campaign in ULBS are being organized.
- ❖ Compliance status in respect of waste collection, segregation, transportation and disposal is given in **Annexure-II**.

## ANNEXURE-II

A summary statement on progress made by local bodies in respect of waste collection, segregation, transportation and disposal.

Collection of Waste		
	Percentage of ULBs in which Sweeping is carried out twice or more in public areas	100
	Percentage of ULBs in which Sweeping is carried out once or more in residential areas	100
1.	Percentage of ULBs in which user fees has been incorporated in Byelaws	0
2.	Percentage of ULBs having Door to door collection system	97
3.	Percentage of ULBs transporting wastes in covered vehicles	100
4.	Percentage of ULBs having GPS installed on garbage collection vans (> 5 lakh population)	1
5.	Percentage of ULBs using Compartmentalized vehicles for collection of different fractions of waste	31.2
6.	Percentage of ULBs having Computerized weighing machine for weighing solid waste	18.4
7.	Percentage of ULBs having tipping fee based on quantum of waste generated/ processed	12 (monthly basis)
8.	Percentage of ULBs having twin-bin system installed at public places	39
9.	Percentage of ULBs having transfer stations instead of secondary storage bins	7.2
10.	Percentage of ULBs in which PPE has been provided to workers	21.6
Capacity Building		
1.	Percentage of ULBs in which Capacity building of local bodies has been taken up by State Deptt of UD	100
2.	Percentage of ULBs in which workers have been educated on Door to door collection of waste	97
3.	Percentage of ULBs in which Training has been imparted to waste pickers/waste collectors	17.6



Segregation of Waste		
1.	Percentage of ULBs having separate Street sweepings collection and disposal system	100
2.	Percentage of ULBs in which Segregation of waste at household level/source has been implemented	31.2
3.	Percentage of ULBs in which waste Segregation by street vendors has been implemented.	21.6
4.	Percentage of ULBs in which Segregation of waste by RWAs, market associations, gated communities, institutions (> 5000 sqm area), hotels, restaurants etc has been implemented	21.6
5.	Percentage of ULBs in which Segregation of Waste at source for inerts and C&D Waste has been implemented	18.4
6.	Percentage of ULBs in which informal sector of waste pickers, waste collectors and recycling industry in reducing waste in state policy has been engaged	18.4
7.	Percentage of ULBs in which Space for SW segregation, storage and processing of solid waste for 200 units / 5000 square has been allocated	78.40
8.	Percentage of ULBs in which Scheme for registration of waste pickers and dealers has been implemented	0
Waste Processing		
1.	Percentage of ULBs in which land has been identified for setting up waste processing facilities (22 (1))	78.40
2.	Percentage of ULBs in which non-biodegradable waste and inert waste are used for filling up of construction areas and construction of roads	80
3.	Percentage of ULBs in which Usage of RDF by Cement plants /Power plants/Industries located within 200 km of such facility has been implemented	0
4.	Have Initiatives been taken for Creation of market for RDF?	No
5.	Have Initiatives been taken for Usage of compost as manure?	Yes
6.	Have best waste management practices been compiled. If yes, please upload	No

7.	Percentage of ULBs in which home /decentralized and centralized composting has been initiated	7.2 (centralized)
8.	Percentage of ULBs in which Storage of Horticulture waste on generators own premises has been initiated	0
9.	Percentage ULBs in which setting up of solid waste and processing facilities has been incorporated in Master Plan of the city	100
10.	Percentage of ULBs in which 5% or 5 sheds in SEZ, IE, Industrial park have been allocated for recovery and recycling facility	0
11.	Percentage of ULBs in which material recovery facilities for sorting of recyclables by informal sector have been set up	5.6
12.	Percentage of ULBs in which Waste from vegetable, flower, fish, meat, poultry market is processed in biomethanation plant	0
13.	Percentage of ULBs in which use of Chemical fertilizers in parks has been phased out	6.4
14.	Percentage Number of Waste processing based on Waste to Energy/RDF	0.08
15.	Percentage of Waste processing units based on Composting/Biomethanation	18.4
16.	No. of Waste Processing facilities operational	10
17.	No. of Waste processing facilities under construction	2
18.	No.of Waste Processing facilities planned but construction is yet to start	27 projects of 34 ULBs
19.	Percentage of ULBs in which Biodegradable waste is sent to compost/biomethanation plant	18.4
20.	Percentage of ULBs in which non-biodegradable wastes is sent to to MRF/ Secondary storage facility	18.4
21.	Percentage of W to E plants having Facilities for segregation of waste prior to processing of waste in W to E Plants	0
22.	Percentage increase in number of Authorizations granted	0
23.	Percentage of ULBs displaying data related to functioning of plant and its adherence to prescribed parameters displayed on ULB's website	0
24.	Have technical specifications for local bodies been standardized by State UD	Yes



Waste Disposal		
1.	Percentage of ULBs in which land has been identified for landfill site ( 11 f)	78.4
2.	Percentage of ULBs in which land has been allocated for landfill site ( Rule 12a)	78.4
3.	Percentage of ULBs having own /regional operational Landfill sites	5.6
4.	Percentage of landfill sites in which Provision of Green Belt /Buffer Zone around landfill site has been made	5.6
5.	Percentage of Landfill sites for which Buffer zone has been notified	5.6
6.	Percentage of landfill sites in which efforts have been taken to prevent/manage generation of leachate	5.6
7.	Percentage of landfill sites in which efforts have been taken to prevent /manage generation of methane gas	6.4
8.	Percentage of landfill/dumpsites in which CCTV has been installed	1.6
9.	Percentage of ULBs having Decentralized waste disposal facilities	2.4
10.	Percentage of landfill sites in which landfilling or dumping of mixed waste is continued	60
11.	Percentage of landfill sites in which only non-usable, non-recyclable, non-biodegradable, non-combustible and non-reactive waste is disposed	1.6

Source: Monitoring Compliance Report submitted by Department of Urban Development & Municipal Affairs, GoWB w.r.t SWM Rules 2016 & Directions of Hon'ble NGT Dated 05-03-2019 (OA No.-606/2018).

### ANNEXURE-III

#### A summary statement on progress made by local bodies in respect of implementation of Schedule II

<b>A. Standard for composting</b>	<b>Compliance Status of 09 municipalities which are operating compost plant.</b>
(a) The incoming organic waste at site shall be stored properly prior to further processing. To the extent possible, the waste storage area should be covered. If, such storage is done in an open area, it shall be provided with impermeable base with facility for collection of leachate and surface water run-off into lined drains leading to a leachate treatment and disposal facility;	Complied except having leachate treatment facility.
(b) Necessary precaution shall be taken to minimize nuisance of odour, flies, rodents, bird menace and fire hazard;	Complied
(c) In case of breakdown or maintenance of plant, waste intake shall be stopped and arrangements be worked out for diversion of waste to the temporary processing site or temporary landfill sites which will be again reprocessed when plant is in order;	Complied
(d) Pre-process and post-process rejects shall be removed from the processing facility on regular basis and shall not be allowed to pile at the site. Recyclables shall be routed through appropriate vendors. The non-recyclable high calorific fractions to be segregated and sent to waste to energy or for RDF production, co-processing in cement plants or to thermal power plants. Only rejects from all processes shall be sent for sanitary landfill site(s).	Complied
(e) The windrow area shall be provided with impermeable base. Such a base shall be made of concrete or compacted clay of 50 cm thick having permeability coefficient less than 10 <sup>-7</sup> cm/sec. The base shall be provided with 1 to 2 per cent slope and circled by lined drains for collection of leachate or surface run-off;	Complied
(f) Ambient air quality monitoring shall be regularly carried out. Odour nuisance at down-wind direction on the boundary of processing plant shall also be checked regularly.	No ULB has submitted Ambient air quality monitoring test report
(g) Leachate shall be re-circulated in compost plant for moisture maintenance.	Haldia Municipality has submitted leachate analysis report (attached).
(h) The end product compost shall meet the standards prescribed under Fertilizer Control Order notified from time to time.	No ULB has submitted compost quality test report
<b>B. Standards for treated leachates.-The disposal of treated leachates shall meet standards</b>	Haldia Municipality has submitted leachate analysis report (attached).
<b>C. Standards for incinerations: The Emission from incinerators /thermal technologies in Solid Wastetreatment/disposal facility shall meet the prescribed standards:</b>	No ULB has incinerator.