

**Annual Report 2021-2022
on Implementation of
Solid Waste Management Rules, 2016**



**CENTRAL POLLUTION CONTROL BOARD
DELHI**

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1.0 BACKGROUND

The Solid Waste Management Rules were notified in the year 2016 for practicing safe and scientific management/ handling of municipal solid waste. The Solid Waste Management (SWM) Rules, 2016 were notified in supersession of the Municipal Solid Waste (Management and Handling) Rules, 2000. The SWM Rules, 2016 lay down various provisions and standards for the overall management of the solid wastes and also stipulate the duties, roles, and responsibility of all relevant agencies for ensuring compliance with these provisions. One of the provisions of the Solid Waste Management Rules, 2016 is the submission of the Annual Report by State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) to the Central Pollution Control Board. The responsibility of the Central Pollution Control Board is to compile the information submitted by SPCBs/ PCCs and submit the same along with suggestion and recommendation to the Central Government (Ministry of Environment, Forests and Climate Change). This report is the compilation of the Annual Reports from SPCBs/ PCCs for the financial year 2021-2022.

For the Financial Year 2021-2022, reports have been received from all 36 SPCBs/ PCCs in compliance of Solid Waste Management Rules, 2016. Compilation of the received reports are discussed in the subsequent sections.

2.0 STATUS OF SOLID WASTE MANAGEMENT

2.1 Overall Solid Waste Management Status

As per Rule 15 (b) of the Solid Waste Management Rules, 2016 the responsibilities of collection of segregated solid waste lies with the local authorities. As per the reports submitted by SPCBs/ PCCs the total quantity of solid waste generated in the country is 1,70,339 TPD and the total waste collected is 1,56,449 TPD. This translates to overall efficiency 92% with regards to waste collection in the country.

The Solid Waste Management Rules, 2016 defines waste **processing** as any scientific process by which segregated solid waste is handled for the purpose of reuse, recycling or transformation into new products. These include activities such as segregation, sorting, washing, baling, compaction, etc. Further, the term **treatment** is defined as the method, technique or process designed to modify physical, chemical or biological characteristics or composition of any waste so as to reduce its volume and potential to cause harm. These include activities such as incineration, composting, vermicomposting, biogas plant, anaerobic digestion etc. The treatment and processing techniques adopted for the management of solid waste by the states and the union

territories have been compiled in this report. These include systems such as windrow composting, vermicomposting, pit composting, biomethanation, organic waste convertors, RDF/ pelletization plants, material recovery facilities (MRFs), waste to energy (WtE) plants, incinerators, etc. As per the data received from SPCBs/ PCCs a total of 91,511 TPD of waste is processed or treated, which equates to 54% of the total waste generation.

As per the Solid Waste Management Rules, 2016 **sanitary landfilling** means the final and safe disposal of residual solid waste and inert wastes on land in a facility designed with protective measures against pollution of ground water, surface water and fugitive air dust, wind-blown litter, bad odour, fire hazard, animal menace, bird menace, pests or rodents, greenhouse gas emissions, persistent organic pollutants slope instability and erosion. As per the data received from SPCBs/ PCCs a total of 41,455 TPD of waste disposed through sanitary landfill, which equates to 24% of the total waste generation.

The disposal of waste through open dumpsite, is not a recognised system for disposal of waste as per the Solid Waste Management Rules, 2016. Therefore, such disposal is not reflected either under processed/ treated, or under disposal through sanitary landfill.

Based on the information on treatment/ processing and disposal of wastes, the gap in solid waste management is found to be 37,373 TPD, which is 22% of the total waste generated. State wise status of solid waste management is given in **Table 1**.

Table 1: Overall Solid Waste Management Status

Sl. No.	State	Waste generated (TPD)	Waste Collected (TPD)	Waste Processed/ Treated (TPD)*	Waste Landfilled (TPD)**	Gap (TPD)
1	Andhra Pradesh	6,890	6,890	1,558	Not provided	5332
2	Andaman and Nicobar	79	78	74	2	3
3	Arunachal Pradesh	228	199	9	Not provided	219
4	Assam	1,589	1,333	575	744	270
5	Bihar	4,975	Not provided	Not provided	Not provided	4975
6	Chandigarh	540	540	83	486	-29***
7	Chhattisgarh	1,820	1,820	1,790	30	0
8	DNH&DD	267	267	246	21	0
9	Delhi	11,108	11,108	5,280	5,828	0

Sl. No.	State	Waste generated (TPD)	Waste Collected (TPD)	Waste Processed/ Treated (TPD)*	Waste Landfilled (TPD)**	Gap (TPD)
10	Goa	211	207	197	10	4
11	Gujarat	10,095	10,095	8,682	1,003	410
12	Haryana	8,766	6,691	4,297	2,218	2251
13	Himachal Pradesh	383	349	269	80	34
14	Jammu & Kashmir	1,550	1,540	606	390	554
15	Jharkhand	2,404	1,969	843	930	631
16	Karnataka	13,034	11,655	5,440	4,198	3396
17	Kerala	3,472	1,283 and 1,048 decentralized processing	2,691	-	781
18	Ladakh	52	42	20	15	17
19	Lakshadweep	18	18	18	0	0
20	Madhya Pradesh	7,115	6,132	6,059	76	980
21	Maharashtra	23,531	23,044	19,980	2,067	1484
22	Manipur	282	199	133	66	83
23	Meghalaya	165	137	27	119	19
24	Mizoram	374	313	234	8	132
25	Nagaland	664	306	116	299	249
26	Odisha	2,103	2,020	1,356	738	9
27	Puducherry	383	383	58	325	0
28	Punjab	4,222	4,207	1,471	2,736	15
29	Rajasthan	7,973	7,859	1,926	5,525	522
30	Sikkim	66	66	18	48	0
31	Tamil Nadu	14,586	14,471	7,206	6,776	604
32	Telangana	11,057	11,057	8,611	1,011	1435
33	Tripura	333	322	220	15	98
34	Uttar Pradesh	14,710	14,710	7,321	4,389	3000
35	Uttarakhand	1,585	1,452	1,050	115	420
36	West Bengal	13,709	13,687	3,047	1,187	9475
TOTAL		1,70,339	1,56,449	91,511	41,455	37,373

* Includes information only on processing and treatment of waste. Disposal through sanitary landfill is not included in the column

**Includes information on disposal of waste through sanitary landfill only; does not include disposal of waste in dumpsites.

***The preceding year unprocessed waste (+29 TPD) is being included in the present year treatment and landfilling of waste.

A graphical representation of the solid waste generation in the states and UTs is given in **Figure 1** below:

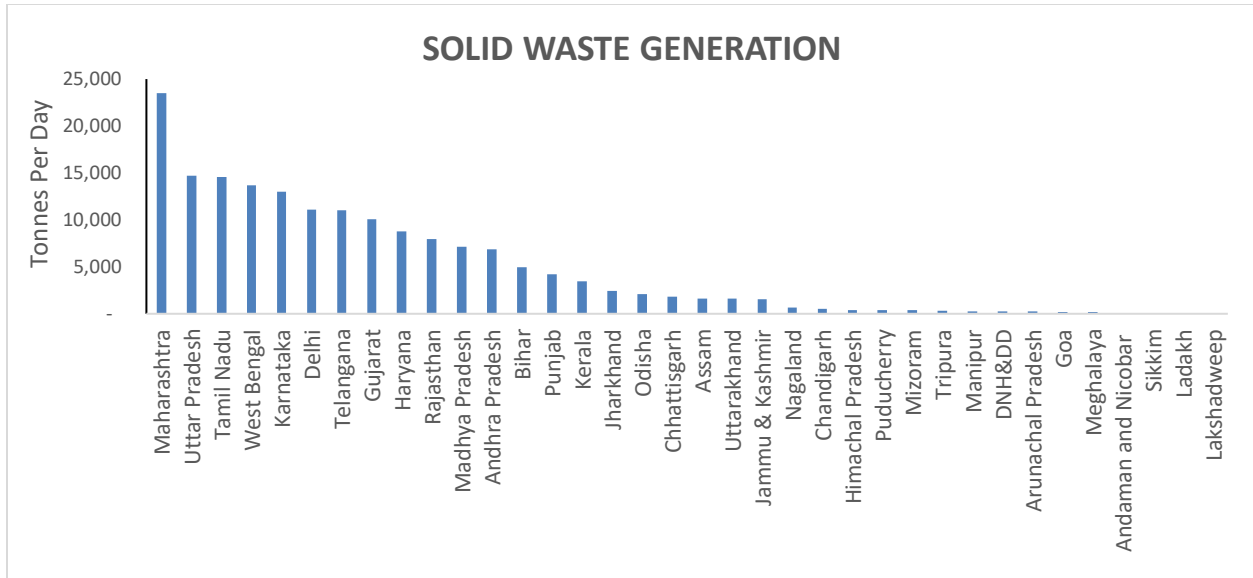


Figure 1: Solid Waste Generation in India

2.2 Per Capita Generation of Solid Waste

Per capita waste generation is the average waste generated by a person in one day. As per the data submitted by the SPCBs/ PCCs the average per capita waste generation in the country is 123.45 gms/ day. The per capita solid waste generation in the country is represented graphically in **Figure 2** below.

Based on the data submitted by the SPCBs/ PCCs the highest per capita waste generators are Delhi (526.5 gms/capita/day), Chandigarh (441.5 gms/capita/day), Mizoram (304.3 gms/capita/day) and Nagaland (299.1 gms/capita/day). Lowest per capita waste generation is recorded in the states of Meghalaya (21.0 gms/capita/day) Bihar (39.6 gms/capita/day), Assam (44.8 gms/capita/day) and Odisha (45.6 gms/capita/day).

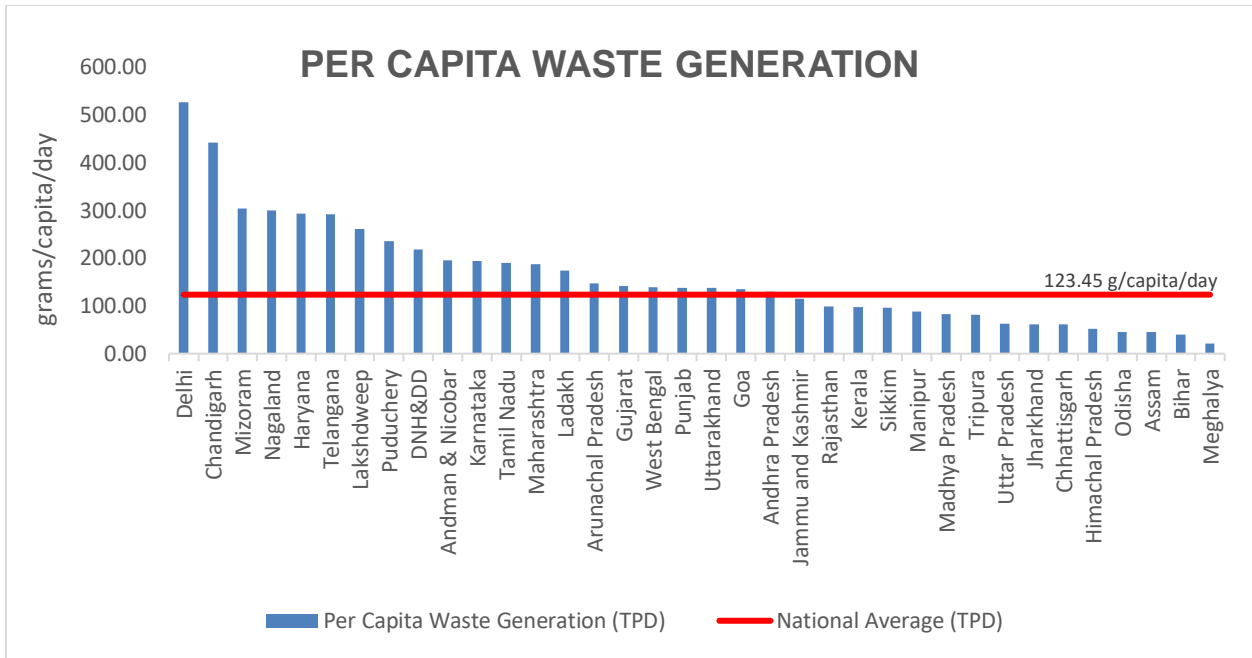


Figure 2: Per Capita Waste Generation Across States/ Union Territories

The trend in per capita waste generation over the last five years is illustrated in **Figure 3**. Analysis of the information on per capita waste generation shows an increasing trend with an increment from 98.79 grams/capita/day to 123.45 grams/capita/day in the last five years.

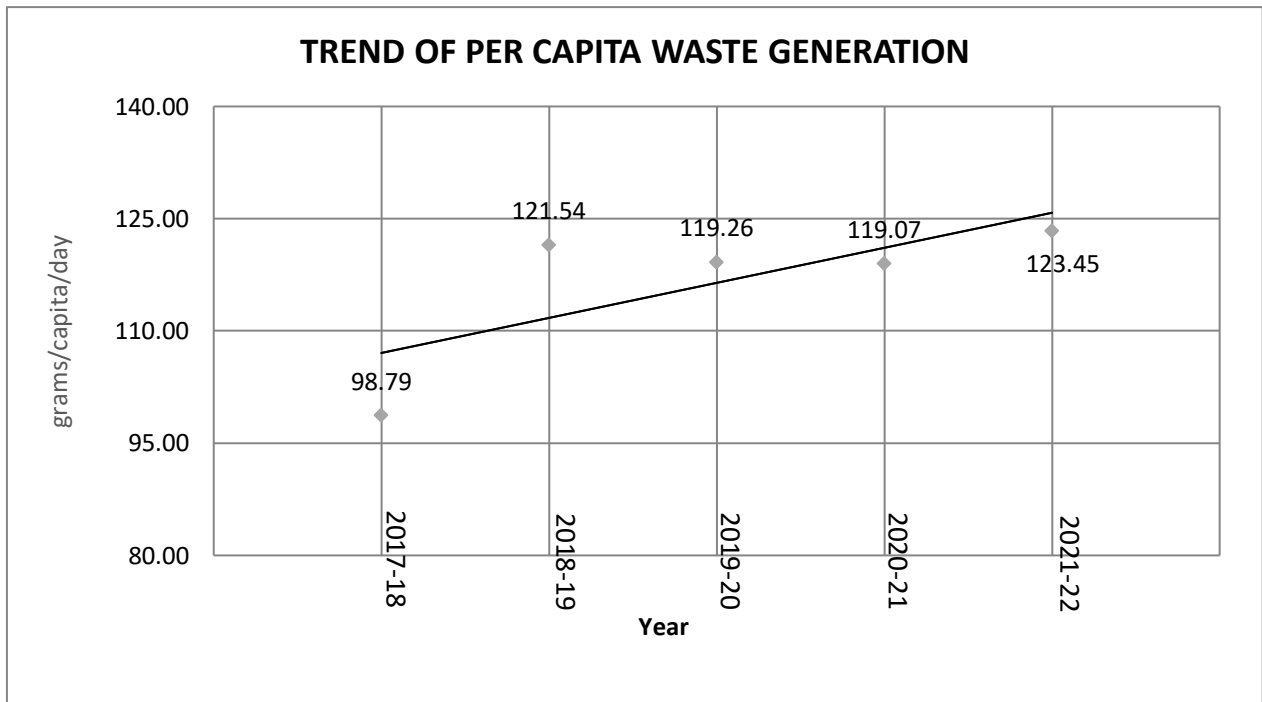


Figure 3: Trend of Per Capita Solid Waste Generation

2.3 Processing/ Treatment of Solid Waste

The total waste processed/ treated across the country is 91,511 TPD. When compared to the total waste generated, which is 1,70,339 TPD, it is found that an average of 54 % of the waste is treated/ processed across the country. Data on treatment or processing of waste submitted by the states and union territories is provided in Table 1 above.

A graphical representation of the processing/ treatment of wastes across the states/ union territories is given in **Figure 4** below. From the figure it is seen the 16 states/ UTs have treatment/ processing above the national average of 54%. Highest processing/ treatment of solid wastes is done by Lakshadweep (100%), Chhattisgarh (98%) and Andaman and Nicobar Islands (94%). The states/ UTs with very limited processing include Arunachal Pradesh (4%), Puducherry (15%) and Chandigarh (15%).

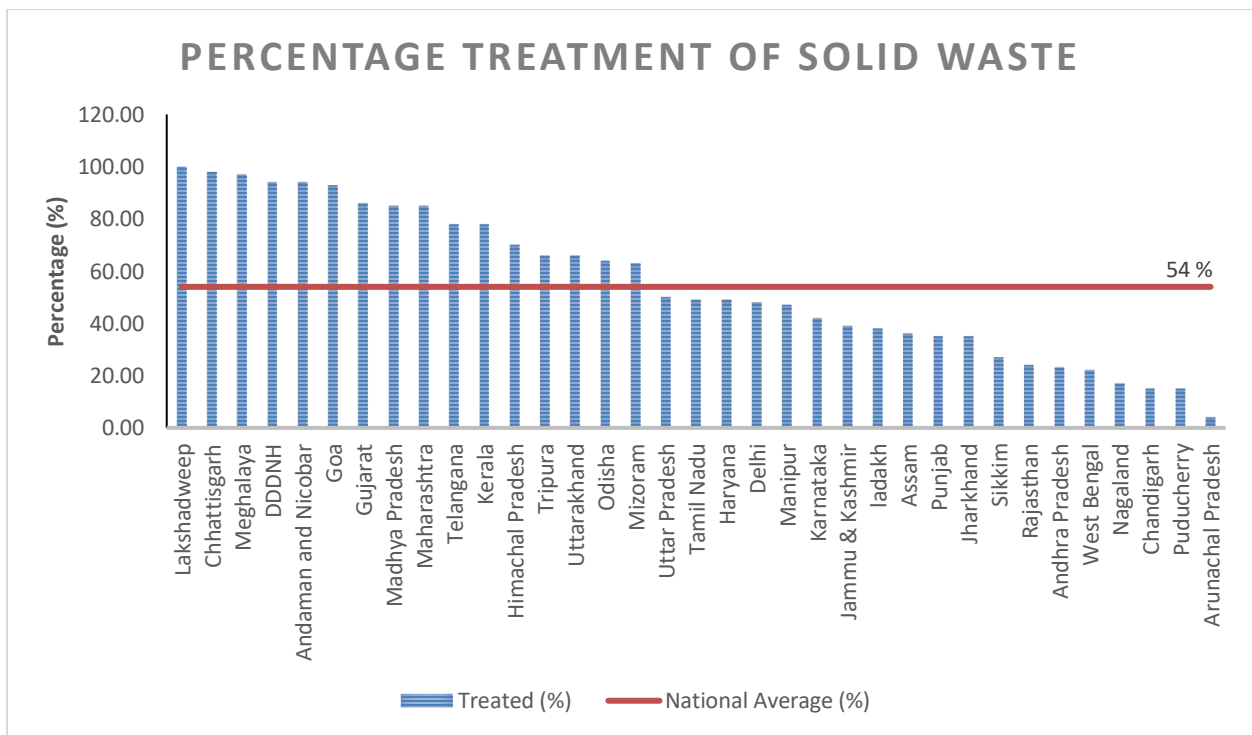


Figure 4: Treatment of Solid Waste across states and union territories

*Note: Bihar is not included due to non-submission of data

The trend of the processing/ treatment of solid waste during last five years i.e., 2017-2018 to 2021-2022 is illustrated in **Figure 5** below. From the figure it can be seen that there has been a steady increase in percentage of waste being processed or treated over time; the percentage of waste being treated/ processed has increased from 36.46% in 2017-2018 to 54% in 2021-2022.

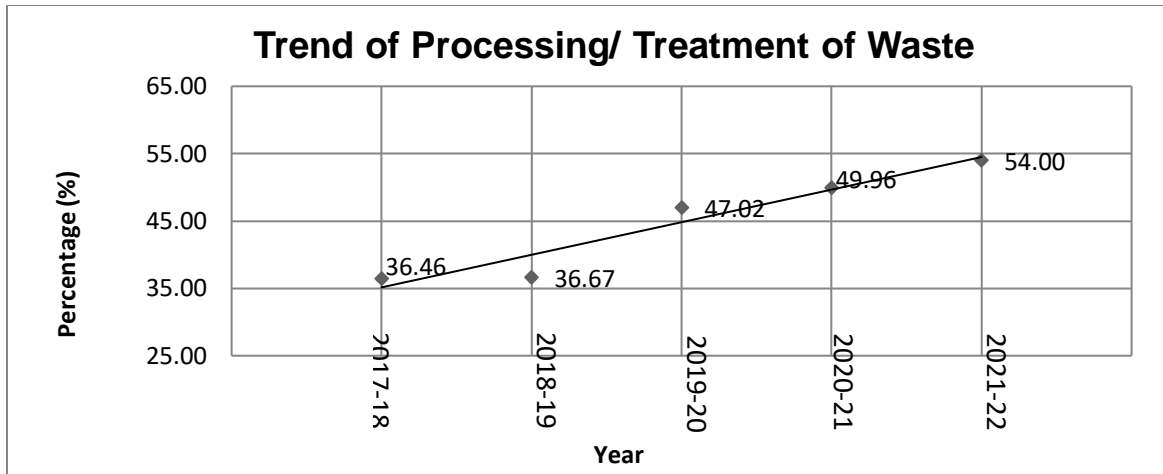


Figure 5: Trend of Solid Waste Treatment over time

2.4 Landfilling of Solid Waste

Landfilling of waste refers to the final and safe disposal of residual solid waste and inert wastes on land in a secured landfill, which is an engineered facility aimed for safe and final disposal of waste rejects and inerts. The total waste landfilled in the country is 41,455 TPD. This equates to 24% of the total waste generated. Data of disposal by sanitary landfill by the states and union territories is provided in Table 1 above. A graphical representation of landfilling of waste across the states/ union territories is given in **Figure 6** below. From the data submitted by SPCBs/ PCCs, it is seen that Chandigarh (90%), Puducherry (85%) and Sikkim (73%) have the highest percentage of waste being landfilled; Lakshadweep (Nil), Delhi (Nil), Madhya Pradesh (1%) and Chhattisgarh (1.6%) have the lowest percentage of waste being landfilled.

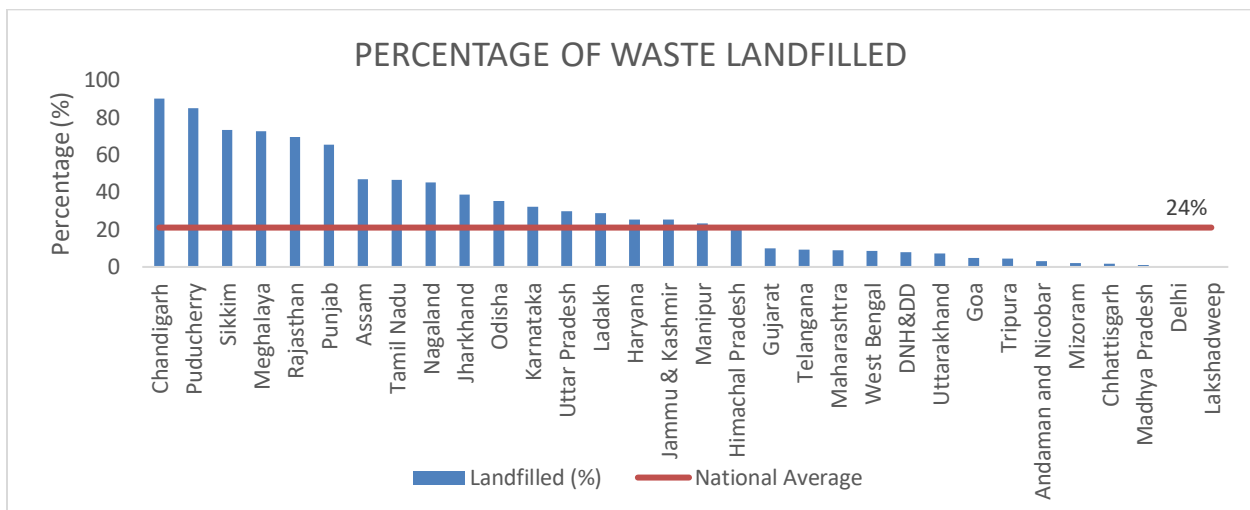


Figure 6: Landfilling of wastes across the states and union territories

*Note: Andhra Pradesh, Arunachal Pradesh, Bihar and Kerala are not included due to non-submission of data

The graphical representation of the trend in the percentage solid waste landfilled for the last five years is illustrated in **Figure 7**. Decreasing trend in solid waste landfilled has been observed during the financial year of 2017-2018 to 2020-2021 with the respective percentages being 54.16% and 21%.

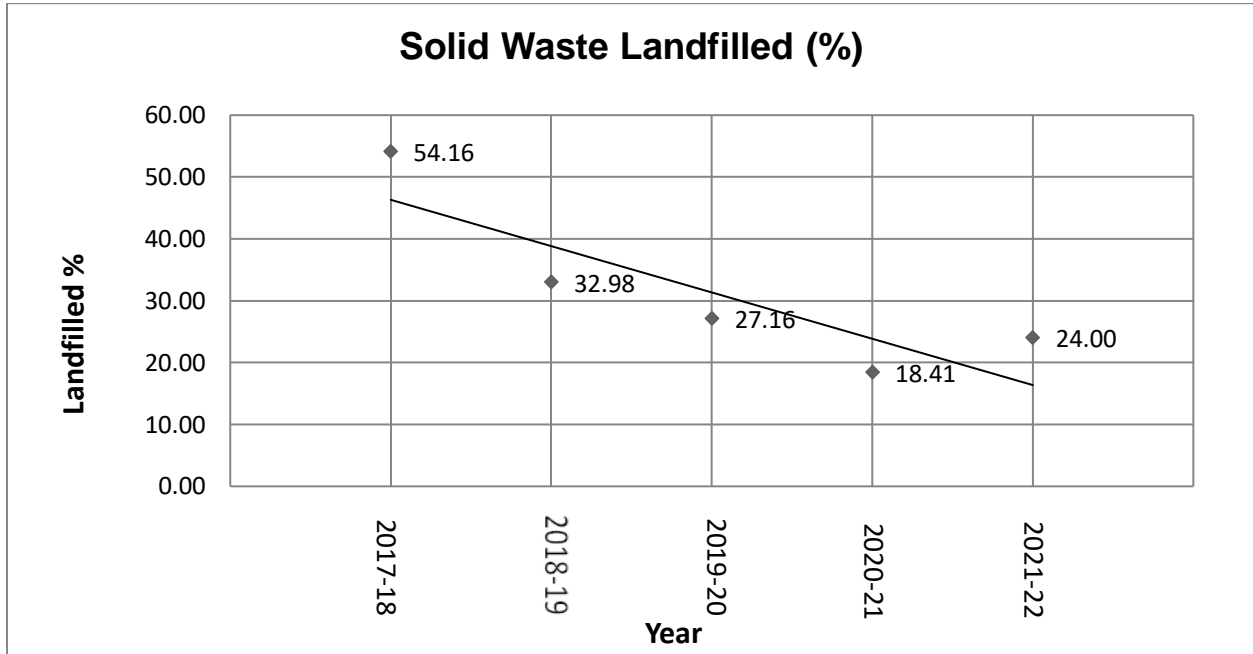


Figure 7: Trend of Landfilling of Solid Waste

2.5 Gaps in Solid Waste Management

From the total waste generation of 1, 70,339 TPD, a quantity of 91,511 TPD is processed/ treated and 41,455 TPD is disposed through sanitary landfill. As such, the treatment/ processing or disposal of 37,373 TPD of waste remain unaccounted. This unaccounted portion of the waste is the gap in the management of solid waste in the country which equates to 22% of the total generated waste.

The gaps in solid waste management in the states and union territories are given in Table 1 above. A graphical representation of this is provided in **Figure 8** below. It can be seen that the gap in waste management is highest in Arunachal Pradesh (96%), Andhra Pradesh (77%) and in West Bengal (69%). It has also been reported that no gaps exist in the seven states/ union territories viz. Chandigarh, Chhattisgarh, DNH&DD, Lakshadweep, Puducherry, Punjab and Sikkim.

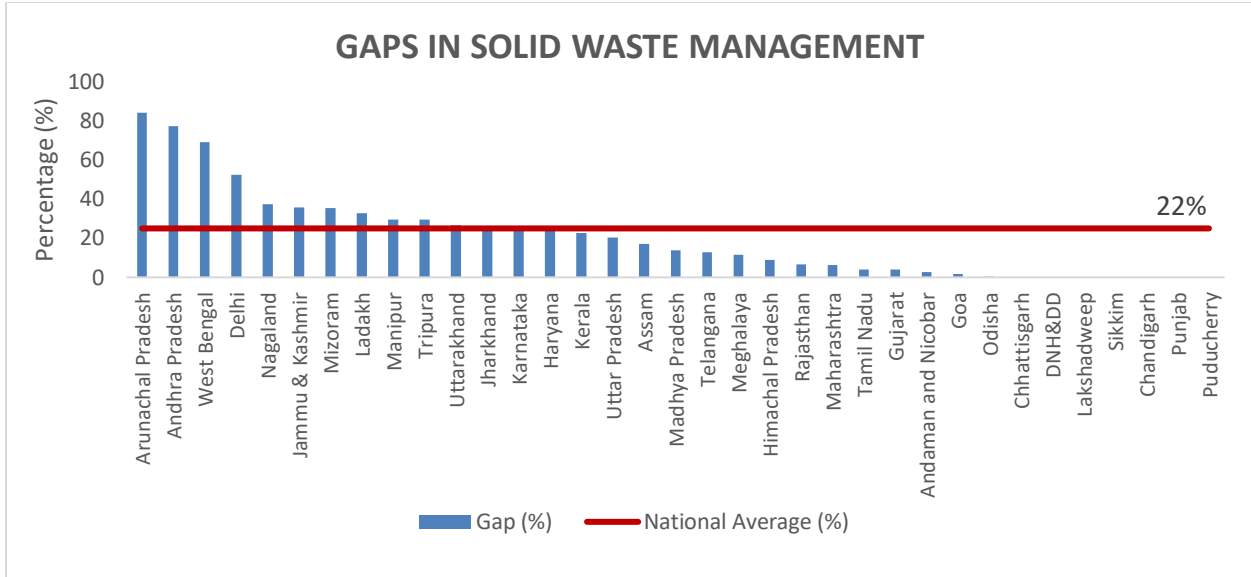


Figure 8: Gaps in Solid Waste Management across the states and union territories

*Note: Bihar is not included due to non-submission of data

The trend in the gap over the last five years is illustrated in **Figure 9**. It is being observed that percentage gap in Solid Waste Management has decreased from 30% in 2018-2019 to 22% in 2021-22.

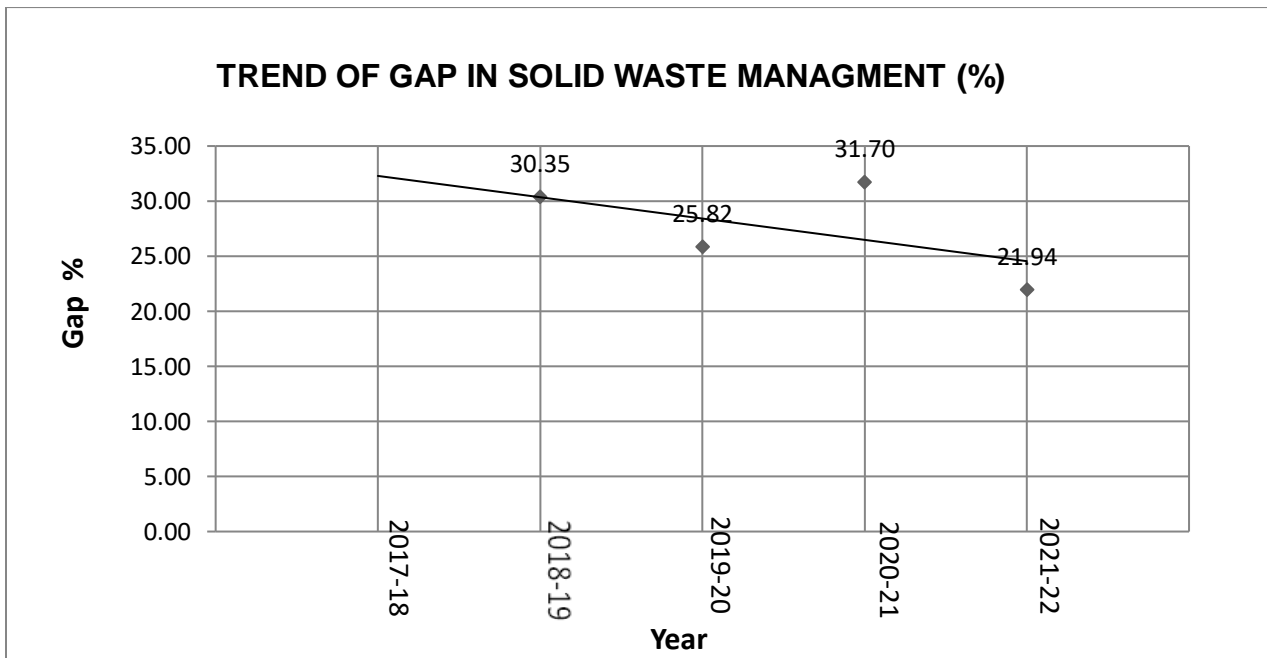


Figure 9: Trend of Gaps in Solid Waste Management

2.6 Towns/Cities & Urban Local Bodies in States / UT

The details of Towns/ Cities & Urban Local Bodies in States / UTs are given in **Table 2**. As per the information provided by SPCBs/PCCs, there are 4590 ULBs, 3659 Towns & cities and 879 Class I & II Towns & Cities in the country. Some of the states/UTs, as indicated in Table 2, have not provided complete information on the matter.

Table 2: Details of Towns/ Cities and urban Local Bodies

Sl. No.	State	No. of Towns/Cities	No. of ULBs	No. of Class I & II Towns/Cities
1	Andhra Pradesh	70	123	45
2	Andaman and Nicobar Islands	1	1	1
3	Arunachal Pradesh	33	33	0
4	Assam	101	96	14
5	Bihar	Not provided	141	1
6	Chandigarh	1	1	1
7	Chhattisgarh	169	169	Not provided
8	Dadra Nagar Haveli and Daman Diu	3	3	0
9	Delhi	1	5	1
10	Goa	14	14	1
11	Gujarat	164	164	6
12	Haryana	89	89	29
13	Himachal Pradesh	61	68	1
14	Jammu & Kashmir	241	80	5
15	Jharkhand	228	42	23
16	Karnataka	Not provided	315	66
17	Kerala	93	93	39
18	Ladakh	2	2	2
19	Lakshadweep	10	0	0
20	Madhya Pradesh	411	411	63
21	Maharashtra	403	403	88
22	Manipur	27	27	1
23	Meghalaya	22	7	3
24	Mizoram	28	1	2
25	Nagaland	39	39	2
26	Odisha	114	114	24
27	Puducherry	2	5	4
28	Punjab	163	163	71
29	Rajasthan	207	207	70
30	Sikkim	7	7	0
31	Tamil Nadu	490	649	Not provided

32	Telangana	142	142	97
33	Tripura	20	14	1
34	Uttar Pradesh	75	734	121
35	Uttarakhand	100	100	8
36	West Bengal	128	128	89
	Total	3,659	4590	879

2.7 Authorization Granted to Waste Processing /Disposal Facilities

As per Rule 15(y) of SWM Rules, local bodies are required to obtain authorization from the concerned SPCB/ PCC for setting up waste processing, treatment or disposal facility, if the volume of waste is exceeding five metric tons per day. A total number of 489 such applications have been received and 357 authorizations granted in the financial year 2021-2022 as per the information provided by the SPCBs/PCCs. The details of the same are given in **Table 3**.

Table 3: Details of Authorizations Granted

Sl. No.	State	No. of applications received	No. of authorization granted
1	Andhra Pradesh	1	1
2	Andaman and Nicobar	0	0
3	Arunachal Pradesh	0	0
4	Assam	1	0
5	Bihar	0	0
6	Chandigarh	1	1
7	Chhattisgarh	2	2
8	Dadra Nagar Haveli and Daman Diu	0	0
9	Delhi	1	1
10	Goa	0	0
11	Gujarat	18	6
12	Haryana	0	0
13	Himachal Pradesh	0	0
14	Jammu & Kashmir	1	0
15	Jharkhand	0	0
16	Karnataka	10	1
17	Kerala	59	51
18	Ladakh	0	0
19	Lakshadweep	0	0
20	Madhya Pradesh	1	0
21	Maharashtra	109	32
22	Manipur	0	0
23	Meghalaya	6	6

Sl. No.	State	No. of applications received	No. of authorization granted
24	Mizoram	0	0
25	Nagaland	1	1
26	Odisha	0	0
27	Puducherry	18	18
28	Punjab	0	0
29	Rajasthan	1	0
30	Sikkim	1	0
31	Tamil Nadu	219	219
32	Telangana	0	0
33	Tripura	1	1
34	Uttar Pradesh	18	17
35	Uttarakhand	20	0
36	West Bengal	0	0
	Total	489	357

2.8 Collection, Segregation & Transportation of Solid Waste

Details of Collection, Segregation & Transportation of Solid Waste are given in **Table 4**. Four states - Arunachal Pradesh, Himachal Pradesh, Nagaland and Odisha have provided ULB wise information. Remaining States/UTs have provided consolidated information. As per the information provided 14 States /UTs (Andaman and Nicobar Islands, Andhra Pradesh, Chandigarh, Chhattisgarh, Goa, Delhi, Jammu and Kashmir, Jharkhand, Karnataka, Maharashtra, Sikkim, Telangana, Uttar Pradesh, Uttarakhand) practice 100% collection of Solid Waste. However, only Five States/UTs (Andaman and Nicobar Island, Chhattisgarh, Lakshadweep, Odisha and Tripura) practice 100% segregation of waste at source.

2.9 Solid Waste Processing Facilities

State wise details of solid waste processing facilities are given in **Table 5**. As per the information provided windrow composting is the most preferred system for treatment of organic waste. Although smaller in capacity, vermicomposting has also been utilized as a system for treatment of organic wastes. In the case of Goa, treatment of all organic wastes is done through biogas plants. Pit composting and Organic Waste Converter (OWC) have been used by a number of local bodies in Himachal Pradesh. RDF/ pelletization is the most commonly reported system for the management of inorganic wastes across the country.

2.10 Waste to Energy Plants

Details of waste to energy plants is given in **Table 6**. As per the details provided by SPCBs/PCCs, currently there are thirteen waste-to-energy plants operational in India (Andhra Pradesh – 2, Delhi-2, Goa-1, Haryana-1, Madhya Pradesh-1, Maharashtra -1, Telangana – 1, Uttar Pradesh-3, West Bengal-1). The total power generation of these units, excluding the unit in Uttar Pradesh is 127.072 MW.

2.11 Landfill for Waste Disposal

State-wise details of sanitary landfill are given in **Table 7**. As per the details provided a total of 1,244 sites have been identified for utilization as sanitary landfills. Further, 669 sanitary landfills have been constructed and 135 sanitary landfills are under construction. There are 645 sanitary landfills in operation and 10 sanitary landfills have been exhausted. The maximum numbers of sanitary landfill sites have been identified in Maharashtra (382), Karnataka (221) and Telangana (141). Maximum numbers of sanitary landfill sites in operation are in Maharashtra (352), Karnataka (165) and Uttar Pradesh (57). City wise details have not been provided by 12 States/UTs – Bihar, Chandigarh, Chhattisgarh, Gujarat, Haryana, Karnataka, Maharashtra, Odisha, Punjab, Tamil Nadu, Uttar Pradesh, and West Bengal.

2.12 Waste Disposal in dumpsites

In absence of adequate scientifically designed sanitary landfills for waste disposal, waste is disposed in dumpsites. As per information provided by SPCBs/ PCCs, there are 2,452 dumpsites in the country, of which 366 have been reclaimed and 27 sites have been converted to sanitary landfill. Details of same are given in **Table 8**. Maximum number of dumpsites are in Maharashtra (240) followed by Tamil Nadu (210) and Rajasthan (208). Maximum numbers of dumpsites have been reclaimed in Maharashtra (134), Madhya Pradesh (114) followed by Tamil Nadu (69) and Uttar Pradesh (27). Maximum number of dumpsites that have been converted to sanitary landfill are in Punjab (18), Andhra Pradesh (03) and one each in Chandigarh, Rajasthan, Puducherry, Sikkim, Telangana and Meghalaya.

2.13 Monitoring at Waste Processing & Disposal Sites

15 States & UTs (Andhra Pradesh, Assam, Chandigarh, Goa, Jammu & Kashmir, Karnataka, Kerala, Madhya Pradesh, Manipur, Meghalaya, Puducherry, Tamil Nadu, Telangana, Tripura and Uttarakhand) have carried out monitoring at Waste Processing & Disposal Sites in their jurisdiction. Details are given in **Table 9**.

Table 4: State wise details of Collection, Segregation and Transportation of Solid Waste

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
1	Andhra Pradesh	123	100	98.17	Yes
2	Andaman and Nicobar Islands	1 (70 Gram Panchayats)	100% in Urban Areas 80% in Rural Areas	100% in Urban Areas 90% in Rural Areas	Yes
3	Arunachal Pradesh	Aalo	33 nos. of wards, 1243 nos. of households and 65 nos. of non-residential premises are covered under Door to Door (D2D) collection of waste. 100% D2D collection is done through motorized vehicle.	Segregation of solid waste is practiced in the Town.	Secondary waste storage facilities installed in the Town as below: 37 nos. of 1.1 bins. 50 nos. of 2 to 5 cubic meter bins.
		Anini	D2D collection of waste not practiced in the Town.	Segregation of solid waste is not practiced in the Town.	There are no Secondary waste storage facilities in the Town.
		Basar	11 nos. of wards, 1064 nos. of households and 80 nos. of non-residential premises are covered under D2D collection of waste. 100% D2D collection is done through motorized vehicle.	80% of premises segregated the waste at source.	There are no Secondary waste storage facilities in the Town.
		Bomdila	5 nos. of wards, 2560 nos. of households and 75 nos. of non-residential premises covered under D2D collection of waste. 100% D2D collection is	30% premises	Secondary waste storage facilities installed in the Town as below: 4 nos. of open waste storage sites of 1.60 cubic meter capacity. 24 nos. of covered metal/plastic

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
			done through motorized vehicle.		containers of 2.16 cubic meter capacity.
		Boleng	D2D collection of waste not practised in the Town.	Segregation of solid waste is done in the Town.	There are no Secondary waste storage facilities in the Town.
		Changlang	13 nos. of wards and 1498 nos. of households are covered D2D collection of waste. D2D collection done as: 80% through motorized vehicle. 20% through other device.	Segregation of waste at source not practiced in Town.	Secondary waste storage facilities installed in the Town as below: 12 nos. of masonry bins. 4 nos. of covered metal/plastic containers upto 2 to 5 cubic meter bins.
		Deomali	15 nos. of wards, 1700 nos. of households and 100 nos. of non-residentials premises are covered under D2D collection of waste. 100% D2D collection is done through motorized vehicle.	Premises practise segregation of waste at source.	Secondary waste storage facilities installed in the Town as below: 4 nos. of cement concrete cylinder bins of cumulative capacity of 13.50 cubic meter 10 nos. of covered plastic containers of cumulative capacity of 0.80 cubic meter.
		Dirang	5 nos. of wards, 984 nos. of households and 274 nos. of non-residential premises covered under D2D collection of waste. 70% D2D collection done through motorized vehicle.	Segregation of solid waste is not practiced in the Town.	Secondary waste storage facilities like 15 nos. (covered metal/plastic containers) upto 1.1 cubic meter bins of cumulative capacity of 16.50 cubic meter installed in the Town.
		Daporijo	D2D collection of waste not practised in the Town.	Segregation of solid waste is not practiced in the Town.	Secondary waste storage facilities installed in the Town as below: 4 nos. of open waste storage sites. 1 no. of masonry bin.

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Dumporijo	D2D collection of waste not practiced in The Town.	Solid waste is not stored at source in a segregated form.	There are no Secondary waste storage facilities in the Town.
		Doimukh	13 nos. of wards, 780 nos. of households and 220 nos. of non-residentials premises covered under D2D collection of waste. 80% D2D collection done through motorized vehicle.	Solid waste is not stored at source in a segregated form.	There are no Secondary waste storage facilities in the Town. It is a bin-less city.
		Hawai	9 nos. of wards, 550 nos. of households and 60 nos. of non-residentials premises covered under D2D collection. 100% D2D collection through motorized vehicle.	Segregation of the waste at source is not practiced in the Town.	Secondary waste storage
		Itanagar Municipal Corporation	20 nos. of wards and 30646 nos. of households are covered under D2D collection of waste. 100% D2D collection through motorized vehicle.	Solid waste is not stored at source in a segregated form.	There are no secondary waste storage facilities in the Town.
		Jairampur	13 nos. of wards, 2866 nos. of households and 100 nos. of non-residentials premises are covered under D2D collection of waste. 100% D2D collection done through motorized vehicle.	Segregation of the waste at source is not practised in the Town.	There are no secondary waste storage facilities in the Town.
		Khonsa	15 nos. of wards, 1700 nos. of households and 90 nos. of non-residential premises are covered under D2D	Premises segregated the waste at source.	Secondary waste storage facilities installed in the Town as below: 10 nos. of cement concrete

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
			collection of waste. 50% D2D collection is done through motorized vehicle. 50% D2D collection through containerized tricycle/handcart.		cylinder bins of cumulative capacity of 33.75 cubic meter. 20 nos. of covered plastic containers of cumulative capacity of 3 cubic meter.
		Kimin	7 nos. of wards, 1200 nos. of households and 256 nos. of non-residential premises covered under D2D. 100% D2D collection through motorized vehicle.	Solid waste is not stored at source in a segregated form.	There are no secondary waste storage facilities in the Town.
		Koloriang	D2D collection of waste not practised in the Town.	Solid waste is not stored at source in a segregated form.	There are no secondary waste storage facilities in the Town.
		Longding	D2D collection of waste is not practised in the Town.	Solid waste is not stored at source in a segregated form.	Secondary waste storage facilities installed in the Town as below: 20 nos. of upto 1.1 cubic meter bins of cumulative capacity of 0.45 cubic meter.
		Mariyang	9 nos. of wards, 399 nos. of households and 85 nos. of non-residential premises are covered under D2D collection of waste. 100% D2D collection through motorized vehicle.	100% of premises store solid waste at source in a segregated form.	There are no secondary waste storage facilities in the Town. It's a bin-less city.
		Miao	10 nos. of wards, 1473 nos. of households and 40 nos. of non-residential premises are covered under D2D collection of waste. 100% D2D waste collection through motorized vehicle.	Solid waste is not stored at source in a segregated form.	Secondary waste storage facilities installed in the Town as below: 55 nos. of covered metal/plastic containers of 5.5 cubic meter capacity.

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Namsai	30 nos. of wards, 3899 nos. of households and 639 nos. of non-residential premises are covered under D2D collection of waste. 100% D2D collection of waste through motorized vehicle.	90% of premises segregate the waste at source.	There are no secondary waste storage facilities in the Town.
		Palin	8 nos. of wards are covered under D2D collection of waste. D2D collection done through motorized vehicle.	Solid waste is not stored at source in a segregated form.	There are no secondary waste storage facilities in the Town. It is a bin-less city.
		Pangin	D2D collection of waste not practised in the Town.	Solid waste is not stored at source in a segregated form.	There are no secondary waste storage facilities in the Town.
		Pasighat Municipal Council	D2D collection of waste is not practised in the Town.	Segregation of the waste at source is not practised in the Town.	There are no secondary waste storage facilities in the Town.
		Raga	7 nos. of wards, 362 nos. of households and 85 nos. of non-residential premises are covered under D2D collection of waste. 90% D2D collection done through motorized vehicle.	Solid waste is not stored at source in a segregated form.	There are no secondary waste storage facilities in the Town.
		Roing	D2D collection of waste is not practised in the Town.	Solid waste is not stored at source in a segregated form.	There are no secondary waste storage facilities in the Town. It is a bin-less Town.
		Sagalee	12 nos. of wards and 700 nos. of households covered under D2D collection of waste.	Solid waste is not stored at source in a segregated form.	Secondary waste storage facilities installed in the Town as below: 20 nos. of open waste storage

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
			D2D collection done as: 40% through motorized vehicle. 50% through containerized tricycle/handcart. 10% through other devices.		sites of cumulative capacity of 1.5 cubic meter. 20 nos. of up to 1.1 cubic meter bins of cumulative capacity of 1.10 cubic meter. 15 nos. of upto 2 to 5 cubic meter bins of cumulative capacity of 2.50 cubic meter. 10 nos. of above 5 cubic meter containers of cumulative capacity of 5.50 cubic meter. 45 nos. of covered metal/plastic containers of cumulative capacity of 1.10 cubic meter.
		Seppa	42 nos. of wards and 1885 nos. of households covered under D2D collection. D2D collection is done 100% through motorized vehicle.	Segregation of the waste at source is not practised in the Town.	Secondary waste storage facilities installed in the Town as below: 4 nos. of open waste storage sites of capacity 1 cubic meter. 50 nos. of covered metal/plastic containers upto 1 cubic meter capacity.
		Tawang	28 wards, 2000 nos. of households and 931 nos. of non-residential premises covered under D2D collection. 100% D2D collection through motorized vehicle.	100% premises segregate the waste at source.	There are no secondary waste storage facilities in the Town. It is a bin-less town.
		Tezu	D2D collection of waste not practiced in the Town.	Segregation of the waste at source is not done.	There are no secondary waste storage facilities in the Town.
		Yupia	D2D collection of waste not practiced in the Town.	Segregation of the waste at source is not done.	There are no secondary waste storage facilities in the Town.

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Yingkiong	16 nos. of wards, 1595 nos. of households and 450 non-residential premises covered under D2D collection of waste. 100% D2D collection is done through motorized vehicle.	60% solid waste is stored at source in a segregated form.	Secondary waste storage facilities installed in the town as below: 2 nos. of masonry bins of cumulative capacity of 5 cubic meter. 200 nos. of covered metal/plastic containers of cumulative capacity of 0.5 cubic meter.
		Ziro	20 wards and 3004 nos. Of households covered under D2D collection. 80% D2D waste collection is through motorized vehicle.	Solid waste is not stored at source in a segregated form.	There are no secondary waste storage facilities in the Town. It is a bin-less town.
4	Assam	96	3,03,435 nos. of households	Not practiced	587.96 cubic meter
5	Bihar	141	Door to door collection in all the wards	Segregation being practiced in all the wards	Partial compliance
6	Chandigarh	1	100%	100%	Yes
7	Chhattisgarh	169	All Municipal Authorities have door to door collection facilities	All Municipal Authorities have segregation facilities	Transportation is done mainly by Tricycle, Mini tipper in 167 ULBs and by Dumpers in Raipur, Bilaspur.
8	Dadra Nagar Haveli and Daman Diu	Not Provided	100 %	100 %	Dadra Nagar Haveli: 14 tractor, 6 dumpers, 1 compactor lifter, 3 hydraulic lifts, 6 pick up tempos, 20 compactor bins, 45 hydraulic bins SMC: 18 tipping trucks, 2 JCBs, 1 loader

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
					<p>Daman Municipal Council: 7 Tractors, 4 tipping trucks, 3 compactors</p> <p>Daman District Panchayat: 27 tractor, 15 tipping trucks, 3 compactors</p> <p>Diu Municipal Council: 7 Cart tractors, 8 non-tipping trucks</p> <p>Diu District Panchayat: 3 tractors, 4 non-tipping trucks</p>
9	Delhi	5	<p>Local Bodies are implementing waste segregation at source, door to door collection, intermediate storage and transport facility with GPS for the transportation of the collected solid waste to the operational Solid Waste Processing/Treatment facilities or at the 3 existing Landfill/Dumpsites at Bhalaswa, Ghazipur & Okhla in Delhi.</p> <p>New Delhi Municipal Council (NDMC) & Delhi Cantonment Board (DCB) are implementing the provisions of the SWM Rules, 2016 in their area in a better way. However,</p>	<p>NDMC has reported that 100% premises in the area are segregating the waste at source.</p> <p>Delhi Cantonment Board (DCB) has reported that 90% Premises in Civil Area & 60% premises in Army Area are segregating the waste at source.</p> <p>SDMC has reported that 50% premises in their area are segregating waste at source</p> <p>EDMC has reported that 30% premises in their area are</p>	

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
			<p>other Local Bodies (North DMC, SDMC, EDMC) are also making efforts and taking measures to implement the provisions of the SWM Rules, 2016 in their area.</p> <p>About 100% collection of Solid Waste including Door to Door Collection and Transportation of Solid Waste in covered vehicles have been reported by the Local Bodies in their Annual Report.</p>	<p>segregating the waste at source.</p> <p>North DMC has reported that 80% premises in their 3 selected model wards are segregating the waste at source and also started in 32 Model wards, however, information not provided for other wards in the area.</p>	
10	Goa	14	<p>14 ULBs (Panaji, Pernem, Ponda, Bicholim, Sankhali, Quepem, Canacona, Cuncolim, Curchorim-Cacora, Sanguem, Mapusa, Magao, Mormugao & Valpoi)</p>	<p>13 ULBs (Panaji, Pernem, Ponda, Bicholim, Sankhali, Quepem, Canacona, Cuncolim, Curchorim-Cacora, Sanguem, Mapusa, Mormugao & Valpoi)</p>	<p>14 ULBs (Panaji, Pernem, Ponda, Bicholim, Sankhali, Quepem, Canacona, Cuncolim, Curchorim-Cacora, Sanguem, Mapusa, Magao, Mormugao & Valpoi)</p>
11	Gujarat	164	100%	85%	Not Provided
12	Haryana		97.62	70	84
13	Himachal Pradesh	MC Shimla	<p>Door-to-Door collection occurs in all 34 wards and No. of household covered 50,000 nos.</p>	<ul style="list-style-type: none"> •100% storage of waste at source in dustbins in households and commercial establishments. • Solid waste is stored in a segregated form. • 80 % of premises 	<p>Mechanical lifting of solid waste is 95%.</p> <p>Transportation through tipping truck, dumper placer, refuse compactors etc.</p>

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
				segregating the waste at source.	
		MC Rohroo	100 % house to house collection Segregation of waste at source	<ul style="list-style-type: none"> • Solid waste is stored at source in segregated form. 	Transportations of waste through tractor, tipping truck/pick up. Daily transport of waste
		MC Rampur Bushahr	9 Nos of wards are covered in D2D. 2560 household covered and 1320 non-residential premises quantity of solid waste generated 3.75 tones. D2D collection of solid waste is being done in the city.	<ul style="list-style-type: none"> • Percentage of households practice storage of waste at source in domestic bins is 100. • 90 of non-residential premises practice storage of waste at source in commercial/ institutional bins. • 10 % of households dispose or throw solid waste on the streets and 10 % dispose or throw solid waste on the streets and 10 % of non-residential premises dispose or throw solid waste on the streets. 	Waste transported through tippers
		MC Theog	Door to door collection of solid waste in 7 wards. No. of households covered: 2484	100% of households practice storage of waste at source in domestic bins	Waste transported through tippers
		NP Narkhanda	100 % Door to Door collection of waste in 7 wards (0.0282 TPD)		Waste (0.0282 TPD) transported through hydraulic pickup

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		NP Nirmand	100 % Door to Door collection of waste in 7 wards (0.022 TPD)	100% manual lifting of solid waste	Nil
		NP Sunni	100 % Door to Door collection of waste in 7 wards (0.9 TPD)	100% of premises segregating waste at source	Waste transported through tippers. Daily transport of waste
		NP Chopal	100 % Door to Door collection of waste in 7 wards (0.65 TPD)	50% of premises segregating waste at source	Waste transported through tippers. Daily transport of waste
		NP Anni	90% residential and Non-residential premises covered in door-to-door collection	90% of households practice storage of waste at source in domestic bins	Pickup truck are used for transportation
		NP Kotkhai	100 % Door to Door collection of waste in 7 wards (0.3 TPD)	100% of households practice storage of waste at source in domestic bins	Pickup truck are used for transportation
		NP Jubbal	Door to door collection of solid waste in 7 wards 100% households covered 262 No. of non-residential premises including hotels, restaurants educational institutions etc.	<ul style="list-style-type: none"> • 100% of non-residential premises practice storage of waste at source commercial/ institutional bins • 60 % of premises segregating the waste at source 	Waste Transportation through hand cart
		MC Solan	100 % Door to Door collection of waste in 7 wards (16 TPD). No, of household in city - 11322	60% of households practice storage of waste at source in domestic bins. 40% of non-residential premises practice storage of waste at source	Waste Transportation through tipping truck and pickup trucks

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
				60% of premises segregating waste at source	
		MC Nalagarh	Door to door collection of solid waste in 9 wards. No. of households covered 2535. Waste generated - 7.5 TPD and Waste Collected - 6 TPD	35% of households practice storage of waste at source in domestic bins. 20% of non-residential premises practice storage of waste at source	Waste Transportation through tractor, Jeeto type vehicles
		MC Parwanoo	Door to Door collection of solid waste in 9 wards. No. of households covered: 3500 Waste generated: 6 TPD Waste collected: 6 TPD	30% of premises segregating the waste at source. 0-5% of household dispose or throw solid waste on the streets.	Waste transported through tractors, dumper placer and 4 pickers.
		MC Baddi	100% Door to door collection in 9 wards. No. of households covered: 8352 Waste generated: 25-30 TPD Waste collected: 25-28 TPD	30% households practice storage of waste at source in domestic bins. 15% of non-residential premise practice storage of waste at source in commercial/institutional bin. 5% of households dispose or throw solid waste on streets. 5% of non-residential premises dispose of throw solid waste on the streets. 30% of premises	Waste transported through Tractors, Samll jeep type vehicles, dumper placers etc.

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
				segregating the waste at source.	
		NP Arki	Door to door collection of solid waste in 7 wards. No. of households covered: 909 Waste generated: 1 TPD Waste collected: 1 TPD`	Bin-less city. 12 waste storage depots in the city. Collation of waste from the depots is on daily basis.	Waste transported through tipping truck, one trip per day.
		MC Nahan	Door to door collection of solid waste in 13 wards. No. of households covered: 4000 approx Waste generated: 7.5 to 8.5 TPD Waste collected: 8.5 TPD	100% of households practice storage of waste source in domestic bins. 0.2% households dispose of or throw solid waste on the streets. 100% of waste segregation at source.	Waste transported through tractors, e-rath, Mahindra Pickup, temp etc.
		MC Paonta	Door to door collection is being done in city and 13 wards. Waste generated& collected: 8.65 TPD	80% of premises segregating the waste at source.	Waste transported through tempo, tractor, dumper placer, etc.
		NP Rajgarh	Door to Door collection in 7 wards.	95% premises segregating the waste at source.	Waste transported through tipping truck.
		MC Bilaspur	Door to door collection of solid waste in 11 wards.	90% of households practice storage of waste in domestic bins. Solid waste lifted from door-to-door collection is not transported to treatment plant in segregated form.	Waste transported through tipping truck.

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Shri Naina Devi Ji	Door to door collection in 7 wards.	100% premises segregate the waste at source.	Waste transported through tipping truck.
		Ghumarwain	Door to door collection in 7 wards.	Frequency of street sweeping and % of population covered daily: 70%	Waste transported through tractor, tipper and wheelers.
		NP Talai	Door to Door collection in 7 wards.	Segregation of waste in 7 wards. 100% premises segregating the waste at source.	Waste transported through private tractor and tipping trucks
		MC Mandi	Waste generated: 24 TPD Waste collected: 24 TPD	60% Segregation of solid waste at source	Waste transported through tipper, tractor, JCB/Loader etc.
		MC Sunder Nagar	Waste generated: 12 TPD Waste collected: 9 TPD	Segregation at source is not done.	Waste transported through tractor, four-wheeler, jeep etc.
		MC Nerchowk	Door to door collection of solid waste in 9 wards. No. of households covered: 2300	65% of premises segregating waste at source.	Waste transported through tractors.
		NP Sarkhagat	Door to door collection of solid waste in 7 wards.	85% of premises segregation waste at source.	Waste transported through 1 tipper.
		MC Jogindernagar	45% Door to door collection	85% premises segregating waste at source	Waste transported through tipper and Refused collector
		NP Rewalsar	Door to door collection in 7 wards, 500 households and 436 non-residential premises covered.	Segregation of waste at source has been started in all wards and awareness is being conducted.	Waste transported through tractors.
		NP Karsog	Door to door collection of solid waste is not being done in the city/town.	bin-less city.	Wet waste transported through ULB and dry waste through ACC Barmana.

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		MC Kullu	Estimated quantity of solid waste generated in the local body area per day: 7-8 TPD Door to door collection of solid waste in 11 wards.	Waste collected in segregated form at source. 100% of premise segregating waste at source.	Waste transported 2-3 trip/day through non-tipping and 8 small tempo. Frequency of transportation of waste daily.
		MC Manali	Door to door collection in 2 wards. Estimated quantity of solid waste generated in local body: 35 tons	Total waste stored at waste storage depots and treatment plant directly in segregated form. MC Manali is divided into 7 wards. Dry and wet waste is sent to WTE plant, Rangri at Manali for disposal. Wet was is treated through composting pits and dry waste is converted into RDF and sent to cement plants for final disposal.	Waste transported through Vehicles Quantity of waste transported: 35 MT in tourist season and 12 MT during off Tourist season.
		NP Bhunter	Door to door collection in all 7 wards.	Waste is collected from households in segregated form.	Waste is transported to Energy Project Rangri, Manali through tractor, tipper truck and auto.
		NP Banjar	D2D collection in all 7 wards.	80% premises segregating waste at source. Waste collected from door to door and transported to treatment plant directly in a segregated form.	Waste is transported through tipping truck.

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		MC Una	D2D collection in all wards.	90% premises segregating waste at source.	Municipal Corporation vehicles attached with contractor sanitation work. Frequency of transportation of waste is about 80% on daily basis.
14	Jammu & Kashmir	80	<p>Jammu Division</p> <ul style="list-style-type: none"> • 100% House-to-house collection is being done by 38 local bodies. Partial House-to-house collection is being done in remaining local bodies. 100% D2D collection is done by Jammu Municipal Corporation. • 24 nos. of Solid Waste Dumping sites. <p>Kashmir Division</p> <ul style="list-style-type: none"> • 80% house to house collection is being done by SMC in Srinagar city. 	<p>Jammu Division</p> <p>Segregation has been implemented 265 wards out of 528 wards.</p> <p>Kashmir Division</p> <p>Segregation and storage of waste at source has been initiated by Srinagar Municipal Corporation. However, no point source segregation of waste is being carried out by Municipal Council/committees.</p>	90% covered transportation in all local bodies.
15	Jharkhand	42	Practiced in 42 ULBs	Practiced in 38 ULBs	Practiced in 42 ULBs
16	Karnataka		<p>All ULBs are providing Door to Door collection</p> <p>2% gap exists in ULBs other than BBMP, information submitted by DMA.</p> <p>10.6% gap exists in BBMP, communication from BBMP</p>	<p>37% gap exists in ULBs other than BBMP, information submitted by DMA.</p> <p>52% gap exists in BBMP, communication from BBMP</p>	8.7% gap exists in BBMP, communication from BBMP
17	Kerala	Not Provided	Not Provided	Not Provided	Not Provided

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
18	Ladakh	2	Leh District 100% door to door collection of segregated waste. At present 13 wards, 2600 households and 600 non-residential premises including commercial establishments, hotels, restaurants, education institutions/offices have been covered so far. Kargil District 80% door to door collection of segregated waste. At present, 13 wards, 1551 households and 900 non-residential premises are covered.	Leh: 100% source segregation Kargil: 60% source segregation	15% covered transportation as per information of Municipal Corporations, Leh and Kargil.
19	Lakshadweep		The kitchen wastes are processing in their own localities. The sweeping waste is collecting and transporting to Central Garbage Depository for preparation of window compost		E-Cart closed vehicle for waste transportation - 12 numbers TATA closed vehicle -5 numbers
20	Madhya Pradesh	406 ULBs and 5 Cantonment Boards.	406 cities/towns	406 cities/towns	406 cities/towns
21	Maharashtra	396 ULBs and 7 Cantonment Boards	403 ULBs	391 ULBs	396 ULBs

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
22	Manipur		Door-to-Door collection is practiced by all ULBs covering 302 wards out of 306 wards in the state (99 percent). The ULBs reported 41 to 100 percent coverage of households for door-to-door collection. In 22 ULBs, the coverage of motorised vehicles for collection of waste is 100 percent.	All ULBs reported storage of waste at source prior to disposal. 22 ULBs reported source segregation. 100 percent source segregation at households are reported by 5 ULBs	The wastes are transported in open motorised vehicles. The transporters take care to cover the wastes with plastic sheets during transportation to avoid scattering.
23	Meghalaya		<ul style="list-style-type: none"> • Municipal Solid Waste at an average daily quantity of 67.5 MT is collected. • Collection of garbage is being done on daily basis from different localities/wards. • House to house collection is being practiced in 27 (Twenty) wards. 	<ul style="list-style-type: none"> • Segregation and storage of waste at source is being carried out in domestic waste whereby 87.5 % of the household has practice segregation of waste at Sources in domestic bins, and 80 % of the Non residential premises has practice the same. 	<ul style="list-style-type: none"> • 3(Three) Non Tipping Truck, 32(thirty two) Tipping Truck, 1 (One) Dumper-placer, 1 (One) Refuse Collector, 2 (Two) JCB loader are used for transportation of the collected Municipal Solid Waste to the disposal site. • The vehicles USED for transportation of waste are covered. • Manual handling of wastes is adopted for loading and unloading and JCB Robot is used to load garbage on exceptionally high garbage accumulation days.
24	Mizoram	Aizawl	ULB - 100% Urban Towns - 79.9 %	ULB - 100% Urban Towns - 80 %	ULB - 100% Urban Towns - 79.9 %
25	Nagaland	Kohima	70%	Yes	Yes

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Dimapur	80%	No	NA
		Mokokchung	Yes	No	NA
		Phek	Yes	Nil	NA
		Wokha	Yes	No	NA
		Mon	Yes	Yes	NA
		Zunheboto	Yes	No	NA
		Tuensang	Yes	No	NA
		Kiphire	Yes	No	NA
		Peren	Yes	Yes	NA
		Longleng	Yes	20%	NA
		Noklak	No	No	NA
		Medziphema	No however point to point collection is done in all 9 wards	0%	NA
		Chumukedima	Yes	70%	NA
		East Dimapur	NA	NA	NA
		Tuli	Yes	No	NA
		Changtongya	Yes	No	NA
		longkhim	No	Yes	NA

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Mangkolemba	Yes	Nil	NA
		Bhandari	No	No	NA
		Tening	No	No	NA
		Jalukie	Yes	No	NA
		Pfutsero	Yes	Yes	NA
		Tseminyu	Yes	No	NA
		Naginimora	No	No	NA
		Tizit	Not implemented	Nil	NA
		Shamator	No	No	NA
		Pungro	No	Nil	NA
		Tobu	No	No	NA
		Aboi	Yes only in Commercial area	No	NA
		Meluri	Yes	No	NA
		Chozuba	Yes	NA	NA

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Chiephobozou	Yes	No	NA
		Niuland	No	No	NA
		Tamlu	Yes	No	NA
		Seyochung	No	No	NA
		Atoizu	No	No	NA
		Satakha	No	No	NA
		Aghunato	No	Yes	NA
26	Odisha	Bhubaneshwar Municipal Corporation	Yes	Yes	Transportation through Animal cart, tractor, tipping truck, dumper, compactor, BOV etc.
		Cuttack Municipal Corporation	Yes	Yes	Transportation through Animal cart, tractor, tipping truck, dumper, compactor, BOV, mountain excavator etc.
		Berhampur Municipal Corporation	Yes	Yes	Transportation through tractor, tipping truck, dumper, mini JCB, Loader etc.
		Rourkela Municipal Corporation	Yes	Yes	Transportation through tractor, tipping truck, compactor, LCV, BOV, JCB etc.
		Puri Municipality	Yes	Yes	Transportation through tractor, compactor etc.

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Sambalpur Municipal Corporation	Yes	Yes	Transportation through Animal Cart, tractor, non-tipping truck, tipping truck, dumper, compactors, TATA AEC, JCB etc.
		Balasore Municipality	Yes	Yes	Transportation through tractor, BOV, wheel barrow etc.
		Baripada Municipality	Yes	Yes	Transportation through tractor, dumper, JCB, LCV, BOV etc.
		Bhadrak Municipality	Yes	Yes	Transportation through tractor, tipping truck, auto tippers, BOV, Tata ACE, Mini JCB etc.
		Balangir Municipality	Yes	Yes	Transportation through tractor, JCB etc.
		Brajraj Nagar Municipality	Yes	Yes	Transportation through tractor, BOV, JCB etc.
		Jeypore Municipality	Yes	Yes	Transportation through tractor, tipper, dumper, JCB etc.
		Jharsuguda Municipality	Yes	Yes	Transportation through tractor, JCB, tipping truck, dumper etc.
		Paradeep Municipality	Yes	Yes	NA
		Bargarh Municipality	Yes	Yes	Transportation through tractor, tipping truck, dumper, compactor, BOV, JCB etc.
		Dhenkanal Municipality	Yes	Yes	Transportation through tractor, JCB etc.
		Bhawani Patna Municipality	Yes	Yes	Transpiration through tractor, tippers and JCB.
		Sunabeda Municipality	Yes	Yes	NA

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Rayagoda Municipality	Yes	Yes	Transportation through tractor, dumper, refuse collectors, JCB
		Jatani Municipality	Yes	No	Transportation through tractor, LCV, BOV, JCB
		Barbil Municipality, Dist. Keonjhar	Yes	Yes	Transportation through tractor, JCB, LCV, BOV etc.
		Keonjhargarh Municipality, Dist: Keonjhar	Yes	Yes	Transportation through tractor.
		Rajgangpur Municipality, Dist. Sundargarh	Yes	Yes	Transportation through Tractor, BOV, LCV, JCB with loader.
		Anandapur Municipality, Dist. Keonjhar	Yes	No	Transportation through tractors, BOVs, LeVs, Others
		Parlakhe mundi Municipality Dist, Gjapati	Yes	Yes	Transportation through tractor, LCV, Bov etc.
		Choudwar Municipality, Dist Cuttack	Yes	Yes	Transportation through tricycle, BOV, LCV etc.
		Angul Municipality, Dist Angul	Yes	Yes	Transportation through TATA ACE, BOV etc.
		Koraput Municipality, Dist. Koraput	Yes	Yes	Tractor, JCB etc.
		Khurda Municipality, Dst Keonjhar	Yes	Yes	Tractor, LCV, BOV
		Belpahar Municipality, Dist Jharsuguda	Yes	Yes	BOV
		Joda Municipality, Dist. Keonjhar	Yes	Yes	Tata Ace, BOV, Dumper

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Sundargarh Municipality, Dist. Sundargarh	Yes	Yes	Tractor, JCB, Others
		Vyasanagar Municipality, Jajpur Raod, Dist. Jajpur	Yes	Yes	Tractor, Tata ACE, BOV
		Talcher Municipality, Dist. Angul	Yes	Yes	Tractor, LCV, BOV
		Phulbani Municipality, Dist. Kendrapara	Yes	Yes	Tractor, Dumper placer
		Pattamundal Municipality, Dist. Kendrapara	Yes	Yes	Tractor, Whell Barrow, Tricycle
		Jajpur Municipality, Dist Jajpur	Yes	Yes	Tractor, Others
		Jagatsinghpur Municipality, Dist. Jagatsinghpur	Yes	Yes	NA
		Titilagarh Municipality, Dist. Bhadrak	Yes	Yes	Tractor, Whell Barrow, Tricycle
		Basudevpur Municipality, Dist. Bhadrak	Yes	Yes	Tractor, Whell Barrow, Tricycle
		Biramitrapur Municipality Dist. Sundargarh	Yes	Yes	Tractor, BOV, TATA ACE, JCB, Loader
		Nowarangpur Municipality Dist: Nawarangpur	Yes	Yes	Tractor-4, Nan tipping truck-2, Dumper-6, BOV-10
		Soro Municipality Dist. Balasore	Yes	Yes	

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Umerkote Municipality Dist: Nawarangpur	Yes	Yes	Tractor-2, Non Tippling truck-2, BOV-3
		Malkanagiri Municipality Dist: Malkanagiri	Yes	Yes	Tractor-3, Non Tippling truck-4, BOV-14, JCB-1, Dumper-2
		Chhtrapur NAC Dist: Ganjam	Yes	Yes	Tractor-1, TATA Ace -3, BOV-2
		Rairabpur Municipality Distt. Mayurbhanj	Yes	Yes	Tractor-1, Others-12
		Karanjia NAC Dist: Mayurbhanj	Yes	Yes	Tractor-3, BOV-6, Tipper-1
		Jaleswar Municipality Dist: Balasore	Yes	Yes	Tractor-2, BOV-12
		Hinjilicut NAC	Yes	Yes	Tractor, TATA ACE, BOV
		Gunupur NAC Dist: Rayagada	Yes	Yes	Tractor, Pushcart, Wheel Barrow, BOV
		Aska NAC Dist: Ganjam	Yes	Yes	Tractor, Hydraulic, Truck, BOV, Pushcart
		Bhuban NAC, Dist: Dhenkanai	Yes	Yes	Tractor
		Kantabanjhi NAC Dist: Boanhgir	Yes	Yes	
		Deogarhb Municipality Dist: Deogarh	Yes	Yes	Tractor, Tipping Truck-1, BOV, LCV
		Bhanjanagar NAC, Dist: Ganjam	Yes	Yes	Tractor, TATA ACE, BOV
		Polasara NAC Dist: Ganjam	Yes	Yes	Tipping Truck, BOV
		Barpall NAC Dist: Baragarh	Yes	Yes	Tractor, Tipper, BOV,

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Patnagarh NAC Dist: Bolangir	Yes	Yes	Tractor, Tipper
		Boudhgarh NAC, Dist: Boudh	Yes	Yes	Tractor, TATA ACE, BOV, jcb
		Konark NAC Dist: Puri	Yes	Yes	Tractors, Others
		Subarnapur Municipality Dist: Subarnapur	Yes	Yes	Tractor
		Nimapara NAC Nimapara Dist: Puri	Yes	Yes	Tractor
		Kesinga NAC Dist: Nuapada	Yes	Yes	Tractor
		Khariar Road NAC Dis: Nuapada	Yes	Yes	Tractor, Non Tippling Truck,
		Banpur NAC Dist: Khurda	Yes	Yes	Tractor
		Kabisurya Nagar NAC Dist: Ganjam	Yes	Yes	Tractor, Non Tippling Truck, BOV
		Banki NAC Dist Cuttack	Yes	Yes	Tractor, Tricycle, Pushcart, TATA ACE, TATA ACE,
		Alhagarh NAC Dist: Cuttack	Yes	Yes	Tractor,
		Balugaon NAC Dist: Khurda	Yes	Yes	Tractor
		Junagarh NAC Dist: Kalhandi	Yes	Yes	Animal Cart, Non Tippling Truck, Tractor
		Nayagarh NAC Dist: Nayagarh	Yes	Yes	Tractor, Tippling Truck, Others
		Padampur NAC, Dist Baragarh	Yes	Yes	BOV
		Kamakshya Nagar NAC, Dist: Dhenkanal	Yes	Yes	Tractor, Others

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Kotpad NAC Dist: Balasore	Yes	Yes	Tractors, Non tipping Truck, truck, BOV, JCB
		Nilagiri NAC Dist: Balasore	Yes	Yes	Tractor, BOV, LV
		Suruda NAC Dist: Dist: Ganjam	Yes	Yes	Tractor, TATA ACE, BOV
		Binika NAC Dist: Sonapur	Yes	Yes	Tractor, BOV, Tricycle
		Pipli NAC Dist: Puri	Yes	Yes	Tractor, Pushcart, LCV, BOV
		Purusottampur NAC Dist: Ganjam	Yes	Yes	Tractor, BOV
		Redhakhai NAC Dist: Sambalpur	Yes	Yes	
		Kuchida NAC Dist: Sambalpur	Yes	Yes	Tractor, Non Tipping Truck, BOV
		Kharia NAC, Dist: Nuapada	Yes	Yes	Tractor, BOV, LCV
		Buguda NAC Dist: Dist: Ganjam	Yes	Yes	Tractor, BOV, TATA ACE
		Kodala NAC Dist: Ganjam	Yes	Yes	Tractor, JCB, TATA AEC, BOV
		Udala NAC Dist: Mayurbahnj	Yes	Yes	Tractor, Tricycle, BOV
		Ballmela NAC Dist: Malkangiri	Yes	Yes	Tractor, Dumper, Placers
		Athamallick NAC Dist: Angul	Yes	Yes	Tractor, Tricycle, TATA ACE
		Ganjam NAC Dist: Ganjam	Yes	Yes	Tractor, Tipping Track
		Khalikote NAC Dist: Ganjam	Yes	Yes	Tractor, BOV, LCV
		Chikiti NAC Dist: Ganjam	Yes	Yes	TRACTOR, BOV

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Rambha NAC Dist Ganjam	Yes	Yes	Tractor, Others
		G. Udayagiri NAC Dist Ganjam	Yes	Yes	Tractor, TATA ACE
		Belagunitha NAC Dist Ganjam	Yes	Yes	Tractor, BOV, CESS
		Kasinagar NAC Dist: Gajapali	Yes	Yes	Tractor, BOV
		Khandapada NAC Dist: Nayagarh	Yes	Yes	Tractor, BOV, Wheel Barrow
		Tarava NAC Dist: Sonapur	Yes	Yes	Animal Cart, Others
		Gudari NAC Dist: Rayagada	Yes	Yes	Tractor
		Gopalpur NAC Dist: Ganjam	Yes	Yes	Tractor, Others
		Nuapada NAC Dist: Nuapada	Yes	Yes	Tractor, TATA ACE, Loader
		Atabira NAC Dist Baragarh	Yes	Yes	BOVs
		Hindol NAC Dist: Dhenkanal	Yes	Yes	Tractor, Wheel Barrow,
		Tusura NAC Dist: Balangir	Yes	Yes	Tractor,
		Dhamgarh NAC , Dist: Nayagarh	Yes	Yes	Tractor, LCV, BOV
		Daspala NAC Dist: Nayagarh	Yes	Yes	Tractor, Cesspool
		Ranpur NAC Dist: Nayagarh	Yes	Yes	Tractor
		Dhamnagar , NAC Dist: Keonjhar	Yes	Yes	Tractor, Compactors, BOV
		Champua Nac Dist: Keonjhar	Yes	Yes	Tractor, others

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
		Baliguda NAC Dist: kandhamai	Yes	Yes	Tractors, Pushcart, Truck, Tricycle
		Odogaoon NAC Dist: Nayagarh	Yes	Yes	Tractor, Tata ACE, BOV
		Bijepur NAC Dist: Baragarh	Yes	Yes	TATA ACE, Tractor, Dumper, BOV
		Chandbali NAC Dist: Bhadrak	Yes	Yes	Tractor, BOV, Tricycle.
27	Puducherry		100% door to door collection Material Recovery Facility (MRF) – 4 TPD has been set up at Dubrayapet, Pondicherry Municipality under CSR funds. It is being replicated in other Municipalities.	In Pondicherry Municipality as pilot project, through Reity 19 wards so far, covered under QR code. So far, 18498 Property units are covered and geo-tagged under QR code. It ensures 100% segregation at source, collection, processing and to reach final disposal site. The same QR code system is being replicated in Yanam Municipality.	Yes. Transported in a compactor and covered Truck
28	Punjab		100	74.23	97.55
29	Rajasthan		207 ULBs	104 ULBs	Covered transportation in 114 ULBs; Partially covered transportation in 82 ULBs.
30	Sikkim		Door to Door collection is being done	Segregation of Wet and dry waste is in practice	Yes

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
31	Tamil Nadu	649	<p>100% House to House Collection is achieved in 131 cities/towns covering 4595790 no. of households.</p> <p>80% to < 100% House to House Collection is achieved on 23 cities/towns covering 2518657 no. of households.</p> <p>Less than 80% House to House Collection is achieved in 14 cities/towns covering 538340 no. of households</p>	<p>100 % of Segregation at source is achieved in 21 Cities/towns covering 702665 no. of households.</p> <p>80 % to <100 % of Segregation at source is achieved in 100 Cities/towns covering 2283127 no. of households.</p> <p>50% to < 80 % of Segregation at source is achieved in 12 Cities/towns covering 548630 no. of households</p> <p>Less than 50% of Segregation at source is achieved in 28 Cities/towns covering 1166030 no. of households</p>	<p>Covered Transportation is practiced in 151 no. of cities carrying a total of 10999 TPD of solid waste.</p> <p>Covered transportation practiced for 80 to <100% of solid waste generated in 8 no. of cities with quantity of waste transported is 1270 TPD.</p>
32	Telangana		100 % households covered under door to door collection	63% households in the state are practicing source segregation	In 142 ULBs the waste is transported in trucks covered to avoid scattering
33	Tripura	All	Door to Door collection is being done in all 20 ULBs with 334 wards	Segregation at source is being done in all 20 ULBs	Done in all 20 ULBs
34	Uttar Pradesh	100 %	100 %	Partially complied	Partially complied

Sl. No	State/UT	ULBs	House to House Collection (% covered)	Segregation (% covered)	Covered Transportation
35	Uttarakhand		100	90.36	Partial Compliance
36	West Bengal	128	125	88	88

Table 5: State wise details of Solid Waste Processing Facilities

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
1	Andhra Pradesh	34 ULBs	Waste to Compost Plants	28		Set up
		81 ULBs	Windrow composting	81		Set up
		8 ULBs	Biogas	4		Set up
		20 ULBs	Composting	20		Operational
		17 ULBs	Vermicomposting	17		Operational
		Gudivada	Biogas			Operational
		Ongole	Biogas			Operational
		Vishakhapatnam	WTE plant	1	900	Setup
		Guntur	WTE plant	1	900	Setup
2	Andaman and Nicobar Islands	Brookshabad	Composting	1	0.7	Operational
		Anarkali	Composting	1	0.082	Operational
		Junglighat	Composting	1	0.082	Operational
		Mohanpura	Composting	1	0.25	Operational
		Gandhi Park	Vermi Composting	1	0.7	Operational
		Old Pahargaon	Biogas	1	0.5	Operational
		Port Blair	Biogas	32		Operational
3	Arunachal Pradesh	Basar	Vermi Composting	1	0.5	Operational
		Bomdila	Vermi Composting	1	2	Operational
		Pasighat Municipal Council	Composting	1	5	Operational
		Tawang	Composting	1	0.72	Operational
		Yingkiong	Composting	1	0.66	Operational

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
4	Assam	Guwahati Municipal Corporation	Biogas	1	7.5	Operational
		Tezpur Municipal Board	Composting	1	13.3	Setup
		Dibrugarh MB	Composting	1	45	Setup
		Tinsukia MB	Composting	1	5	Setup
		Silchar MB	Vermi Composting	1	5	Setup
5	Bihar	Solid waste Processing facilities (Composting) are functional in 79 ULBs at 141 Plants/locations	Composting	141	-	Operational
		Bihiya Nagar Panchayat	Biogas		-	Operational
		Motihari & Muzaffarpur Nagar Nigam	RDF/ Pelletization		-	Operational
6	Chandigarh	Chandigarh	Composting	1	300 TPD	Operational
		Chandigarh	Biogas	1	5 TPD	Operational
		Chandigarh	RDF	1	500 TPD	Operational
7	Chhattisgarh		Composting	535		Operational
			RDF/ pelletization	2		Operational
8	Dadra Nagar Haveli and Daman Diu	Dadra Nagar Haveli, Silvassa Municipal Council	Composting	1	28.5	Operational
		Dadra Nagar Haveli, Silvassa Municipal Council	RDF/ pelletization	1	33.5	Operational

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		Daman	Composting	1	34	Operational
		District Panchayat Daman	Vermi composting	16		
		District Panchayat Diu	Composting	1	8.5	
		District Panchayat Diu	Vermi Composting	1	1.6	
9	Delhi	Delhi Cantonment Board	Composting	1	20	Operational
		Delhi Cantonment Board	Food Waste Composters	2	0.175	Operational
		Delhi Cantonment Board	Composting	2	50	Planned
		EDMC	Composting	10	10	Operational
		EDMC	Biogas	2	10	Operational
		EDMC	WTE plant	1	1300	Operational
		NDMC	Composting pits	52	11.2	Set up
		NDMC	OWC	28	13.15	Set up
		NDMC	Biogas	6	8.25	Operational
		North DMC	Composting	6	705	Operational
		North DMC	Biogas	4	20	Operational
		North DMC	WTE plant	1	1300	Operational
		North DMC	Bio-CNG		290	Planned
		North DMC	WTE plant	1	3000	Planned
		South DMC	Composting	5	204	Operational
		South DMC	Vermi Composting	1	1	Operational
		South DMC	Biogas	4	20	Operational
		South DMC	WTE plant	1	1950	Operational
		South DMC	Bio-CNG		215	Planned

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		South DMC	WTE plant	1	2000	Planned
		EDMC	Composting	4	4	Planned
		EDMC	Biogas	1	185	Planned
		West Delhi	Biogas	1	100	Planned
10	Goa	Mapusa	Biogas		5	Operational
		CCP Panaji	Biogas		12	Operational
		Valpoi	Biogas		0.5	Operational
		Mormugao	Biogas		5	Operational
		Margao	Biogas		5	Operational
		Curcholem-Cacora	Biogas		0.5	Operational
		Sanguem	Biogas		0.5	Operational
		Ponda	Biogas			Under installation/planned
		Canacona	Biogas			Under installation/planned
		Cuncolim	Biogas			Under installation/planned
11	Gujarat	164 ULBs covered	Composting	597	6157	Operational
			Biogas	35	163.3	Operational
			RDF/ Pelletization	5	1055	Operational
12	Haryana		Composting	3		Operational
			Composting pits	2800		Operational
			Vermi Composting	10		Operational
			Biogas	3		Operational
			RDF/ Pelletization	3		
13	Himachal Pradesh	Bilaspur	OWC	1	2	Under Process
		Naina Devi	Pit Composting	30		Operational

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		Naina Devi	OWC	1	0.5	Under Process
		Talai	Pit Composting	75		Operational
		Chamba	Pit Composting	20		Operational
		Chamba	OWC	1	3	Operational
		Chowari	Pit Composting	7		Operational
		Chowari	OWC	1	0.5	Under Process
		Dalhousie	Pit Composting	8		Operational
		Dalhousie	OWC	1	1	Under Process
		Bhota	Pit Composting	3		Operational
		Bhota	OWC	1	0.5	Under Process
		Hamirpur	Pit Composting	74		Operational
		Hamirpur	OWC	1	1	Operational
		Nadaun	Pit Composting	8		Operational
		Nadaun	OWC	1	1	Under Process
		Tira Sujanpur	Pit Composting	20		Operational
		Tira Sujanpur	OWC	1	2	Under Process
		Jawalamukhi	Pit Composting	30		Under Process
		Jawalamukhi	OWC	1	2	Under Process
		Baijnath	Pit Composting	8		Operational
		Baijnath	Biogas	1		Operational
		Dharamshala	Pit Composting	22		Under Process
		Kangra	Pit Composting	28		Operational
		Nurpur	Pit Composting	4		Operational
		Palampur	OWC	3		Operational
		Banjar	Pit Composting	20		Operational
		Kullu	OWC	1		Operational

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		Manali	Pit Composting	11		Operational
		Manali	WTE plant	1		Operational
		Jogindernagar	OWC	1	1	Under Process
		Nerchowk	OWC	1	1	Under Process
		Sarkaghat	Pits Composting	3		Operational
		Sundernagar	Pit Composting	13		Operational
		Sundernagar	OWC	1	1	Operational
		Sundernagar	OWC	1	5	Under Progress
		Chaupal	Pit Composting	2		Operational
		Jubbal	Pit Composting	8		Operational
		Jubbal	MRF	1		Under construction
		Kotkhai	Pit Composting	7		Operational
		Narkanda	Pit Composting	6		Operational
		Narkanda	MRF	1		Under construction
		Rampur	Pit Composting	25		Operational
		Sunni	Pit Composting	20		Operational
		Sunni	OWC	1	0.5	Operational
		Shimla	Biogas Plant	1	1	Operational
		Theog	Pit Composting	4		Operational
		Nahan	Pit Composting	60		Operational
		Paonta Sahib	Pit Composting	20		Operational
		Arki	Pit Composting	14		Operational
		Arki	OWC	1	0.5	Operational
		Parwanoo	Windrow Composting	1		
		Nalagarh	Windrow Composting	1		

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		Baddi	Windrow Composting	1		
		Daulatpur	Pit Composting	11		MRF yet to be developed
		Santokhgarh	Pit Composting	107		Operational
		Una	Pit Composting	150		Operational
		Amb	Pit Composting			Operational
14	Jammu & Kashmir	Jammu Cantonment Board, Jammu City	Composting	1	30	Setup & Operational
		Srinagar Municipal Corporation	Composting	1		Setup & Operational
		MC Pahalgam (through Pahalgam Development Authority)		1		Setup & Operational
		MC Tangmarg/Gulmarg	Composting	1		Setup & Operational
		MC Bhaderwah (since 2010)	Vermi Composting	1		Setup & Operational
		MC Doda (since 2010)	Vermi Composting	1		Setup & Operational
		MC Sunderbani (since 2010)	Vermi Composting	1		Setup & Operational
		Mule dung based plant bat base camp, SMVDSB, Katra (since 2012)	Biogas	1		Setup & Operational
		6 cubic meters biogas plant at Cattle pond, Dogra hall	Biogas	1	6 cubic meter	Setup & Operational

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		Jammu Division	Composting	13	1-2 TPD	Planned
		Reasi & Katra, Jammu	Vermi composting	2		Planned
		Kotbawal by Jammu Municipal Corporation	RDF/Pelletization	1		Planned
15	Jharkhand		Composting	37		Operational
			Vermi composting	6		Operational
		Deoghar	RDF/ Pelletization	1		Operational
16	Karnataka		Composting	225		Operational
			Biogas	28		Operational
17	Kerala		Composting	2 (Large); 12 (Small); Community Level: 906 (aerobins, biobins); Household level: 432643		
			Vermi Composting	Community Level - 7		
			Biogas	Community Level - 287; Household level - 21,560		
18	Ladakh	Leh District	Integrated Solid Waste Management	1	10	Set up
		Leh District	RDF/Pelletization	1		Operational
		Leh District	Composting	1		Optional

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
19	Lakshadweep	Kavaratti	Composting	1		Set up
			Biogas	1		Set up
			Biogas	47		Operational
			Biogas	11		Planned
20	Madhya Pradesh		Composting	388 towns		
			Vermi Composting	259 towns		
			Biogas Methanization	6		
			Windrow Composting with RDF	61		
			Windrow Composting without RDF	72		
			Anaerobic without RDF	10		
			Gasification Pyrolysis	1		
			Mass Incineration	1		
			MRF	414		
			Mixed waste processing facility	12		
21	Maharashtra	369 ULBs	Composting	437		Operational
			Vermi Composting	134		Operational
			Biogas	53		Operational
			RDF/pelletization	19		Operational
22	Manipur	Imphal M Co.	Composting	1	60 - 100	Setup & Operational
			Thoubal MC	1	2	Setup & Operational
			Bishnupur MC	30	2.5	Setup & Operational

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		Moirang MC	Composting	17	1	Setup & Operational
		Kumbi MC	Composting	2	1	Setup & Operational
		Kwakta MC	Composting	1	1	Setup & Operational
		Lamlai MC	Composting	1	1.5	Setup & Operational
		Andro MC	Composting	2	0.1	Setup & Operational
		Ningthoukhong MC	Composting	2	1	Setup & Operational
		Lilong (Imphal West) MC	Composting	1	0.5	Setup & Operational
		Lilong (Thoubal) MC	Composting	1	0.5	Setup & Operational
		Jiribam MC	Composting	3	5	Setup & Operational
		Sekmai MC	Composting	3	0.1	Setup & Operational
		Yairipok MC	Composting	2	0.1	Planned
		Sekmai MC	Composting	3	0.1	Planned
23	Meghalaya	Shillong	Composting	1	68	Operational
24	Mizoram	Aizawl	Mechanical Composting	1		Set up
		Aizawl	Vermi Composting	23		Set up
		Aizawl	Bio gas	4		Set up
		Aizawl	Vermi Composting	2		Operational
		Aizawl	Mechanical Composting	1		Operational
25	Nagaland	Nil	Nil	Nil	Nil	
26	Odisha					
			MCC	239	1296	Operational
			MRF	219	2250	Operational
			MCC	39	190	Under installation/planned

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
			MRF	16	160	Under installation/planned
27	Puducherry		Composting	2		Operational
			Vermi Composting	1		Operational
			Biogas	2		Operational
			RDF/Pelletization	2		Operational
			Composting	1		Under installation/planned
			Vermi Composting	1		Under installation/planned
28	Punjab		Composting	8251		Operational
		Shamchaurassi	Vermi Composting	1		Operational
		Ludhiana	RDF/Pelletization	1		Operational
		Bhatinda	RDF/Pelletization	1		Operational
		Ludhiana	WTE plant	1		Non Operational
		Bhatinda	WTE plant	1		Non Operational
29	Rajasthan	ULB, Pushcart	Composting		1	
		ULB, Beawar	Composting		0.25	
		Nagar Nigam, Kota (South)	Composting + Vermicomposting		2	
		ULB, Fatehpur Shekhawati	Composting		0.1	
		Nagar Parishad, Sikar	Composting		150	
		ULB, Laxamangarh	Composting		0.1	
		ULB, Hindaun City	Composting		2	
		ULB, Bhilwara	Composting		65	
		ULB, Bhilwara	RDF/Pelletization		55	

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		ULB, Keshorai Patan	Composting		2.5	
		ULB, Pali	Composting		38	
		ULB, Sumerpur	Composting		1	
		ULB, Takhatgarh	Composting		1	
		ULB, Bali	Composting		1	
		ULB, Pali	RDF/Pelletization		52	
		IL&FS, Swapura, Jaipur	Composting		250	
		Ultratech Ltd, Langriyawas, Jaipur	RDF/Pelletization		350	
		ULB, Jodhpur	Composting		200	
		ULB, Phalodi	Composting		1	
		ULB, Dungarpur	Composting		1	
		ULB, Banswara	Composting		8	
		ULB, Dungarpur	Biogas		5.5	
		Nagar Nigam, Bikaner	Composting		1.5	
		ULB, Jaisalmer	Composting		5	
		ULB, Chittorgarh	Composting		15	
		ULB, Nimbahera	Composting		8	
		ULB, Pratapgarh	Composting		7	
		ULB, Laxamangarh	RDF/Pelletization		14	
		ULB, Baran	Composting		0.5	
		ULB, Jhalarapatan	Composting		5.5	
		ULB, Alwar	Composting+RDF		150	
		ULB, Kherli	Composting		50 kg/batch	
		ULB, Udaipur	Vermi Composting		60	
		ULB, Udaipur	Biogas		22	

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		Nagar Palika, Nokha	Composting		50 kg/batch	
		Hanumangarh	Compost+RDF		60	Under installation/planned
		Chittorgarh	Composting		10	Under installation/planned
		Kapasan, Chittorgarh	Composting		1	Under installation/planned
		Badi Sadri, Chittorgarh	Composting		2	Under installation/planned
		Sikar	Composting + Vermi composting		5	Under installation/planned
		Sri Ganganagar	Composting + RDF		95	Under installation/planned
30	Sikkim	Mangan	Composting	1	0.08	Operational
31	Tamil Nadu		Composting	995 MCCs 907 OCCs 527 Windrows		Operational
			Vermi-composting	27		Operational
			Biogas	1		Operational
			Composting	59 MCCs		Under installation/planned
			Biogas	3		Under installation/planned
32	Telangana		Composting	229	1120	Operational
			Biogas	7	21	Operational
			Dry Resource Collection Centre	209	745	Operational
		Medchal	RDF/Pelletization	1	3600	Operational
		Vikarabad	Composting	1		Planned
		GWMC	Composting	1		Planned

S. No.	State/UT	Name of City/Town	Type of Waste Processing Facility	Number	Capacity (TPD)	Status (Operational/Setup/Planned)
		Narsampet	Composting	1		Planned
		Parakala	Composting	1		Planned
		Waardhannapet	Composting	1		Planned
33	Tripura		Composting		256	Set up
			Vermi Composting		0.4	Operational
			Composting		156.1	Operational
			Composting	14		Planned
34	Uttar Pradesh		Composting	19	5865	Operational
			Compost Pits	160	1314	Operational
			Waste to Energy	2	268	Operation
			Biogas	226	1316	Under construction
			Composting	36	4305	Under construction
			MRF	437	2185	Under construction
35	Uttarakhand	Dehradun	Composting		30	Operational
			RDF/Pelletization		150	Operational
		Haridwar	Composting		50	Operational
			RDF/Pelletization		200	Operational
36	West Bengal	67 ULBs	MRF	132	478	
		62 ULBs	Recycling	134	426	
		67 ULBs	Composting	62	3024	
		2 ULBs	Biomethanation	2	17	
		1	Waste to Energy	1	6.2	

Table 6: Waste to Energy Plants in India

S. No.	States	Plant Location	Status of Operation	Power Generation (MW)	Remarks
1	Andhra Pradesh	Vishakhapatnam (27 ULBs)	Operational	15	900 TPD (Quantity of MSW will be utilized as fuel) Waste to Energy Plant Vishakhapatnam commenced its production in Feb 2022.
		Guntur (45 ULBs)	Operational	15	900 TPD (Quantity of MSW will be utilized as fuel) Waste to Energy Plant at Guntur commenced its production in Oct 2021.
2	Andaman and Nicobar Islands	NA	NA	NA	NA
3	Arunachal Pradesh	NA	NA	NA	NA
4	Assam	NA	NA	NA	NA
5	Bihar	NA	NA	NA	NA
6	Chandigarh	One RDF Plant	Non Operational	NA	NA
7	Chhattisgarh	NA	NA	NA	NA
8	Dadra Nagar Haveli and Daman Diu	NA	NA	NA	NA
9	Delhi	Okhla	Operational	23	1950 TPD
		Ghazipur	Not operational	12	1300 TPD
		Bawana	Operational	24	1300 TPD
10	Goa	Hindustan Waste Treatment Plant Pvt Ltd at Saligao, Bardez Goa	Operational	1.372	The area comes under Panchayat Jurisdiction.
11	Gujarat	Gujarat	NA		5050 TPD
12	Haryana	Sonepat	Operational	7	Is started on 15, August 2021 and operational.

S. No.	States	Plant Location	Status of Operation	Power Generation (MW)	Remarks
		Gururgram (Bhandwari)	Planned	23	Work is started from Dec, 2021 and likely to be commissioned by December, 2023.
13	Himachal Pradesh	NA	NA	NA	NA
14	Jammu & Kashmir	NA	NA	NA	NA
15	Jharkhand	Ranchi	Planned	NA	
16	Karnataka	Nil	Nil	Nil	NA
17	Kerala	Thiruvananthapuram	Land not identified	NA	NA
		Kollam	Work awarded 104000 cubic meter legacy waste removed. Biomining completed.		8.165 TPD of CBG
		Munnar	Planned	NA	NA
		Kochi	Retendering Completed		
		Thrissur	Planned	NA	NA
		Palakkad	Planned		4018 kg/day of CBG is at DPR stage
		Malappuram	Planned	NA	NA
		Kozhikode	Work awarded - construction to be started. Clearance obtained. Power purchase agreement will be executed.	6	Construction to be started by August. Biomining is being done.
	Kannur	Planned	NA	DPR stage	
18	Ladakh	NA	NA	NA	NA

S. No.	States	Plant Location	Status of Operation	Power Generation (MW)	Remarks
19	Lakshadweep	NA	NA	NA	NA
20	Madhya Pradesh	Jabalpur	Operational	11.5	600 TPD
		Rewa	Under construction	12	600 TPD
		Gwalior	Terminated	11	600 TPD
21	Maharashtra	Solapur Municipal Corporation	In operations	4	NA
22	Manipur	Imphal Municipal Corporation Lamdeng, Imphal	Under installation		10 TPD
23	Meghalaya	NA	NA	NA	NA
24	Mizoram	NA	NA	NA	NA
25	Nagaland	NA	NA	NA	NA
26	Odisha	NA	NA	NA	NA
27	Puducherry	Puducherry and Karaikal	Nil	Nil	Gas generated from Bio-gas plant. Power is utilised for lighting purpose. Operated by Puducherry Karaikal Municipality
28	Punjab	Bathinda	Non-operational		Earlier, 8 WtE plants were proposed to be setup by the DLG in each of the 8 clusters. However, now DLG has adopted decentralized approach.
		Ludhiana	Non-operational		NA
29	Rajasthan	Nagar Nigam, Udaipur	Biomethanization plant is operational.		Capacity of the plant is 2 TPD

S. No.	States	Plant Location	Status of Operation	Power Generation (MW)	Remarks
		Mahindra Waste to Energy Solutions Ltd, Udaipur	Biomethanization plant is operational.		Capacity of the plant is 20
		M/s. JITF Urban Infrastructure Ltd, Jodhpur	Planned		Capacity of the plant is 400 TPD. PPA has been signed by the firm with RUVNL for purchasing the electricity and land lease agreement is also done and site clearance work is being done.
30	Sikkim	NA	NA	NA	NA
31	Tamil Nadu	NA	NA	NA	NA
32	Telangana	M/s. Hyderabad MSW Energy Solution Pvt. Ltd (by GHMC), Jawaharnagar(v), Shameerpat (M), Medchal-Malkajgiri District	Operational	24	TSPCB issued CFO vide letter dated 15.07.2020 with validity upto 31.03.2025. The Board issued CFE for expansion for capacity of 48 MW
		M/s RDF Power Projects Chennaravulapally, Bibi Nagar	Undergoing pre commissioning activities	11	Presently, the industry has not commissioned due to financial issues (IL&FS)
		Ycharam, Ibarahimpatnam		12	Permission for granting extension of time to agency (M/s. SVGPPPL) for entering into PPA with TSSPDCL is under examination of GHMC
		M/s Shalivahana (MSW) Green Energy Ltd. Sy. No. 70 Rebladevpally Sultanabad (M), Karimnagar District	Non Operational	12	The Board has issued CFO vide letter dated 12.01.2017 which is valid up to 31.10.2019

S. No.	States	Plant Location	Status of Operation	Power Generation (MW)	Remarks
		M/s Hema Sri Power Projects Ltd, Plot No. 1, Hymanagar, Suryapet, Nalgonda District	Non Operational	12.6	The Board has issued CFO vide letter dated 23.02.2017 which is valid up to 28.02.2018
		M/s. Hyderabad MSW Energy Solution Pvt. Ltd (Unit-2) at Dundigal	Planned	14.5	The Board issued CFE for establishment of WTE plant at Dundugal
33	Tripura	NA	NA	NA	NA
34	Uttar Pradesh	Barabanki	Operational		Total waste disposed is 268 TPD
		Meerut	Operational		
		Muzaffarnagar	Operation		
35	Uttarakhand		Planned	1	1 WtE plant proposed to cover 17 ULBs of capacity 1 MW.
36	West Bengal	One	Operational	6.2	

Table 7: Details of Sanitary Landfill Sites

S. No.	State	Landfill site identified	Sanitary Landfill Constructed	Sanitary Landfill under construction	Sanitary Landfill in operation	Sanitary Landfill exhausted	Sanitary Landfill capped	City/Town
1	Andhra Pradesh	0	4	0	4	0	1	<ul style="list-style-type: none"> Operational Plant: GVMC, Tirupati, Ongole and Chirala Landfill capped: Kadapa Municipal corporation
2	Andaman and Nicobar Islands	1	0	0	0	0	0	<ul style="list-style-type: none"> Port Blair
3	Arunachal Pradesh	0	0	0	0	0	0	<ul style="list-style-type: none"> No landfills have been developed so far
4	Assam	1	1	0	1	0	0	<ul style="list-style-type: none"> Dibrugarh MB
5	Bihar	32	0	0	0	0	0	<ul style="list-style-type: none"> A total of 32 potential landfill sites out of 80 sites have been cleared by the Board with regard to siting criteria as per the SWM Rules, 2016.
6	Chandigarh	1	1	1	1	0	1	<ul style="list-style-type: none"> A new landfill site of approx. 7 acres is being developed. A sanitary landfill has been developed over an area of 8.28 acres of 25 acres which is now used for dumping. The request for

S. No.	State	Landfill site identified	Sanitary Landfill Constructed	Sanitary Landfill under construction	Sanitary Landfill in operation	Sanitary Landfill exhausted	Sanitary Landfill capped	City/Town
								proposal for bio-mining of this current landfill site having 8 lakh MT of waste has been issued and the work will be completed by December, 2025.
7	Chhattisgarh	2	2	0	2	0	0	
8	Dadra Nagar Haveli and Daman Diu	2	1	0	1	0	0	<ul style="list-style-type: none"> Landfill operational in Daman
9	Delhi	1	1	1	1	0	0	<ul style="list-style-type: none"> 01 existing operational engineer SLF at Bawana. Another engineered SLF is under construction at Tehkhand for which Environmental Clearance has already been given by MoEF&CC on 29.10.2020 and Consent to Establish has been issued by DPCC. 01 engineered SLF at Bawana already constructed & operational. 01 engineered SLF at Tehkhand is expected

S. No.	State	Landfill site identified	Sanitary Landfill Constructed	Sanitary Landfill under construction	Sanitary Landfill in operation	Sanitary Landfill exhausted	Sanitary Landfill capped	City/Town
								to be commissioned by April, 2022. <ul style="list-style-type: none"> All 3 non-engineered and unscientific MSW dumpsites at Okhla, Ghazipur and Bhalswa have already been exhausted.
10	Goa	2	7	0	2	0	0	<ul style="list-style-type: none"> Landfill sites identified at Ponda, Sanguem. Landfill constructed at Pernem, Bicholim, Sankhali, Quepem, Cuncolim, Valpoi, Margao) Landfill in operation at Pernem and Bicholim.
11	Gujarat	28	11	27	8	1	1	<ul style="list-style-type: none"> 28 Regional landfill sites for 156 Nagarpalikas and 8 landfill sites for 8 MCs. Rajkot Cell-1 is under capping stage.
12	Haryana	6	6	0	3	3	0	Information not provided
13	Himachal Pradesh	2	0	2	0	0	0	<ul style="list-style-type: none"> Shimla and Baddi
14	Jammu & Kashmir	34	1	1	1	1	1	<ul style="list-style-type: none"> 25 No. of Sites identified as dumpsites, 24 sites being converted to Material Recover

S. No.	State	Landfill site identified	Sanitary Landfill Constructed	Sanitary Landfill under construction	Sanitary Landfill in operation	Sanitary Landfill exhausted	Sanitary Landfill capped	City/Town
								<p>Facility by Urban Local in phased manner in Jammu division.</p> <ul style="list-style-type: none"> • 09 no. of sites have been identified for setting up integrated Solid Waste Management in cluster form (i.e. Anantnag, Achabal, Bijbehara, Matta, Aishmuquam, Seer-Hamdan, Sumbal, Budgam & Shopian) in Kashmir Division. • In Kashmir, 01 land fill has been established at Saidapora Achan, Srinagar where all kind of waste is disposed of in land fill site by the SMC. None of the Municipal Council / Committee have any sanitary landfill site. • Land fill under construction by JMC. • In Kashmir 01 land fill is in operational at Saidapora Achan, Srinagar where all kind of waste is disposed of

S. No.	State	Landfill site identified	Sanitary Landfill Constructed	Sanitary Landfill under construction	Sanitary Landfill in operation	Sanitary Landfill exhausted	Sanitary Landfill capped	City/Town
								in land fill site by the SMC. <ul style="list-style-type: none"> Phase-I of Achan land fill site is exhausted. Capping of the Achan site Phase-I.
15	Jharkhand	42	0	2	1	0	0	<ul style="list-style-type: none"> Operational landfill site in Deogarh
16	Karnataka	221	165	0	165	0	0	Information not provided
17	Kerala	1	0	1	0	0	0	<ul style="list-style-type: none"> 1 landfill site identified at Ernakulum 1 landfill site under construction at Attingal Municipality
18	Ladakh	1	0	1	0	0	0	<ul style="list-style-type: none"> 1 landfill site identified and is under construction in Leh district.
19	Lakshadweep	0	0	0	0	0	0	<ul style="list-style-type: none"> No landfill present
20	Madhya Pradesh	52	8	0	8	0	0	<ul style="list-style-type: none"> 08 landfills constructed at Bhopal, Gwalior, Indore, Jabalpur, Katni, Rea, Sagar, Ujjain. 08 landfill in operation at Jabalpur, Gwalior, Indore, Katni, Rewa, Ujjain, Bhopal, Sagar.
21	Maharashtra	382	352	44	352	0	0	

S. No.	State	Landfill site identified	Sanitary Landfill Constructed	Sanitary Landfill under construction	Sanitary Landfill in operation	Sanitary Landfill exhausted	Sanitary Landfill capped	City/Town
22	Manipur	5	5	0	5	0	0	<ul style="list-style-type: none"> At present, there are 5 sanitary landfill sites in operation at: Imphal MC, Thoubal MC, Bishnupur MC, Kakching MC, Jiribam MC
23	Meghalaya	0	0	0	0	0	0	Information not provided
24	Mizoram	1	1	2	1	0	0	<ul style="list-style-type: none"> Aizawl
25	Nagaland	1	1	0	0	0	0	<ul style="list-style-type: none"> Kohima
26	Odisha	38	0	0	0	0	0	<ul style="list-style-type: none"> Biomining in progress
27	Puducherry	1	1	1	0	0	0	<ul style="list-style-type: none"> One site in Kurumbapet in Puducherry. One site in Karaikal One site is under process
28	Punjab	127	18	5	18	0	0	Information not provided
29	Rajasthan	56	6	26	2	1	1	<ul style="list-style-type: none"> Landfill sites constructed at Pali, Bagru, Mathuradaspora, Sewapura, Udaipur. Landfill site under construction at Rajasmand, Sikar, Bhilwara, Sumerpur, Jhunjhunu, Balicha, Udaipur, Jaisalmer

S. No.	State	Landfill site identified	Sanitary Landfill Constructed	Sanitary Landfill under construction	Sanitary Landfill in operation	Sanitary Landfill exhausted	Sanitary Landfill capped	City/Town
30	Sikkim	1	1	0	1	0	0	<ul style="list-style-type: none"> Operational landfill site in Martam Gangtok
31	Tamil Nadu	0	4	0	0	4	4	Information not provided
32	Telangana	141	1	0	1	0	1	<ul style="list-style-type: none"> Existing Greater Hyderabad Municipal Corporation at Jawaharnagar Village
33	Tripura	3	6	0	2	1	1	<ul style="list-style-type: none"> Operational landfill sites in Agartala Municipal Corporation & Kamalpur Municipal Council
34	Uttar Pradesh	57	57	0	57	0	0	Information not provided
35	Uttarakhand	2	2	21	2	0	0	<ul style="list-style-type: none"> Operational landfill sites in Dehradun: 60TPD & Haridwar: 30 TPD
36	West Bengal	0	6	0	6	0	0	Information not provided
	Total	1244	669	135	645	10	11	

Table 8: State wise details of dumpsites

S. No.	State	Number of active dumpsites	Dumpsites reclaimed/ capped	Dumpsites Converted to sanitary landfill
1	Andaman and Nicobar Islands	0	0	0
2	Andhra Pradesh	123	1	3
3	Arunachal Pradesh	24	0	0
4	Assam	64	0	0
5	Bihar	123	0	0
6	Chandigarh	1	1	1
7	Chhattisgarh	7	0	0
8	Dadra Nagar Haveli and Daman Diu	3	0	0
9	Delhi	3	0	0
10	Goa	8	1	0
11	Gujarat	164	0	0
12	Haryana	77	0	0
13	Himachal Pradesh	48	0	0
14	Jammu & Kashmir	57	1	0
15	Jharkhand	42	0	0
16	Ladakh	2	0	0
17	Lakshadweep	0	0	0
18	Karnataka	200	0	0
19	Kerala	35	6	0
20	Madhya Pradesh	159	114	0
21	Maharashtra	240	134	0
22	Manipur	13	0	0
23	Meghalaya	6	0	1
24	Mizoram	27	0	0
25	Nagaland	39	1	0
26	Odisha	65	0	0
27	Puducherry	3	0	1
28	Punjab	122	3	18
29	Rajasthan	208	1	1
30	Sikkim	2	0	1
31	Tamil Nadu	210	69	0
32	Telangana	151	1	1
33	Tripura	14	1	0

S. No.	State	Number of active dumpsites	Dumpsites reclaimed/ capped	Dumpsites Converted to sanitary landfill
34	Uttarakhand	30	0	0
35	Uttar Pradesh	75	27	0
36	West Bengal	107	5	0
	Total	2452	366	27

Table 9: Details of Monitoring Conducted by SPCBs/ PCCs

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
1	Andaman and Nicobar Island		Not provided	Not provided	Not provided	Not provided
2	Andhra Pradesh	Ongole Municipal Corporation	Yes	Yes	No	No
		Chirala Municipality	Yes	Yes	No	No
		Greater Visakhapatnam MC	Yes	Yes	No	No
		Tirupati MC	Yes	Yes	No	No
		Gudur MC	Yes	Yes	No	No
		Kadapa MC	Yes	Yes	No	No
3	Arunachal Pradesh		No	No	No	No
4	Assam	Boragaon under Guwahati MC	Yes	Yes	No	No
5	Bihar		Not provided	Not provided	Not provided	Not provided
6	Chandigarh	Chandigarh MC	Yes	Yes	Yes	Yes
7	Chhattisgarh		No	No	No	No
8	DNH&DD		No	No	No	No
9	Delhi		No	No	No	No
10	Goa	Pernem MC	Yes	No	No	No
		Bicholim MC	Yes	No	No	No
		Sankhali MC	Yes	No	No	No
		Quepem MC	Yes	No	No	No
		Cuncoim MC	Yes	No	No	No
		Canacona MC	Yes	No	No	No
		Valpoi MC	Yes	No	No	No
		Ponda MC	Yes	No	No	No
		Margao MC	Yes	No	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Curchorem-Cacora MC	Yes	No	No	No
		Mormugao MC	Yes	No	No	No
11	Gujarat	Ahmedabad MC	Yes	Yes	Yes	Yes
		Vadodara MC	Yes	Yes	Yes	Yes
		Surat Mc	Yes	Yes	Yes	Yes
		Rajkot MC	Yes	Yes	Yes	Yes
12	Haryana	Karnal MC	No	Yes	No	No
13	Himachal Pradesh		Not provided	Not provided	Not provided	Not provided
14	Jammu & Kashmir	Kashmir Division	Yes	No	No	No
15	Jharkhand		No	No	No	No
16	Karnataka	CMC Nanjangud	No	Yes	No	Yes
		CMC Hunsur	No	Yes	No	Yes
		TMC Tnarasipura	No	Yes	No	Yes
		TMC Periyapatna	No	Yes	No	Yes
		TMC KR Nagar	No	Yes	No	Yes
		TMC Bannur	No	Yes	No	Yes
		TMC H D Kote	No	Yes	No	Yes
		TP Sargur	No	Yes	No	Yes
		CMC Chamarajnagara	No	Yes	No	Yes
		CMC Kollegala	No	Yes	No	Yes
		TMC Gundlupet	No	Yes	No	Yes
		TP Hanur	No	Yes	No	No
		CMC Hassan	No	Yes	No	No
		TMC Holenarasipura	No	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		TMC Sakleshpura	No	Yes	No	No
		TMC Belur	No	Yes	No	No
		TMC Arsikere	No	Yes	No	No
		TMC Channarayapatna	No	Yes	No	No
		TP Arkalsudu	No	Yes	No	No
		TP Alur	No	Yes	No	No
		CMC Mandya	No	Yes	No	No
		TMC Maddur	No	Yes	No	No
		TMC-Malavalli	No	Yes	No	No
		TMC-Srirangapatna	No	Yes	No	No
		TMC Pandavapura	No	Yes	No	No
		TP-Nagamangala	No	Yes	No	No
		Mysore City Corporation	No	Yes	Yes	Yes
		CMC Hunsur	No	Yes	No	Yes
		TMC K R Nasara	No	Yes	No	Yes
		TMC H.D Kote	No	Yes	No	No
		TP Sargur	No	Yes	No	No
		CMC Nanjanagud	No	Yes	No	Yes
		TMC TN Pura	No	Yes	No	No
		TMC Bannur	No	Yes	No	Yes
		CMC Madkeri	No	Yes	No	No
		TP Kushalnagar	No	Yes	No	No
		TP-Virajpet	No	Yes	No	No
		Kanahalli (BBMP-MSW Site)	No	Yes	No	Yes
		BBMP MSW site Mavallipura	Yes	Yes	No	No
		BBMP MSW site Doddabidarakallu	Yes	Yes	No	Yes
		BBMP MSW site Bellahalli village, Yelahanka	Yes	Yes	Yes	Yes

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		BBMP MSW site Bagaluru village, Yelahanka	Yes	Yes	No	No
		Proposed BBMP dumping of municipal inert solid waste at Sy No. 271, Bagaluru Village, Yelahanka	Yes	Yes	No	No
		TP-Somwarpet	No	Yes	No	No
17	Kerala	Composting Plant, Kochi	No	Yes	Yes	No
		Composting Plant, Brahmapuram	No	Yes	Yes	No
18	Ladakh	Leh District	No	No	No	Yes
		Kargil District	Yes	Yes	Yes	No
19	Lakshadweep		No	No	No	No
20	Madhya Pradesh	Facility at Vidisha, Bhopal District	Yes	Yes	No	No
		Facility at Bhopal, Bhopal District	Yes	Yes	No	No
		Facility at Budhni, Bhopal District	Yes	Yes	No	No
		Facility at Kothari, Bhopal District	Yes	Yes	No	No
		Facility at Ichhawar, Bhopal District	Yes	Yes	No	No
		Facility at Shahganj, Bhopal District	Yes	Yes	No	No
		Facility at Kurwai, Bhopal District	Yes	Yes	No	No
		Facility at Ganjbasoda, Bhopal District	Yes	No	No	No
		Facility at Jawar, Bhopal District	No	Yes	No	No
		Facility at Nasrullganj, Bhopal District	Yes	Yes	No	No
		Facility at Rahti, Bhopal District	Yes	Yes	No	No
		Facility at Sehore, Bhopal District	No	Yes	No	No
		Facility at Astha, Bhopal District	No	Yes	No	No
		Facility at Amarwara, Chhindwara District	Yes	Yes	No	No
		Facility at Badkuhi, Chhindwara District	Yes	Yes	No	No
		Facility at Chand, Chhindwara District	Yes	Yes	No	No
		Facility at Chandameta-Butaria, Chhindwara District	Yes	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Facility at Chaurai Khas, Chhindwara District	Yes	Yes	No	No
		Facility at Chhindwara, Chhindwara District	Yes	Yes	No	No
		Facility at Damua, Chhindwara District	Yes	Yes	No	No
		Facility at Donger Parasia, Chhindwara District	Yes	Yes	No	No
		Facility at Harrai, Chhindwara District	Yes	Yes	No	No
		Facility at Junnardev Jamai, Chhindwara District	Yes	Yes	No	No
		Facility at Lodhikheda, Chhindwara District	Yes	Yes	No	No
		Facility at Mohgaon, Chhindwara District	Yes	Yes	No	No
		Facility at Neuton Chikhli Kalan, Chhindwara District	Yes	Yes	No	No
		Facility at Pandhurna, Chhindwara District	Yes	Yes	No	No
		Facility at Piplanarayannwar, Chhindwar District	Yes	Yes	No	No
		Facility at Sausar, Chhindwar District	Yes	Yes	No	No
		Facility at Bichhua, Chhindwar District	Yes	Yes	No	No
		Facility at Betul, Chhindwar District	Yes	Yes	No	No
		Facility at Multai, Chhindwar District	Yes	Yes	No	No
		Facility at Amla, Chhindwar District	Yes	Yes	No	No
		Facility at Sarni, Chhindwar District	Yes	Yes	No	No
		Facility at Atner, Chhindwar District	Yes	Yes	No	No
		Facility at Betul-Bazar, Chhindwar District	Yes	Yes	No	No
		Facility at Chicholi, Chhindwar District	Yes	Yes	No	No
		Facility at Bhainsdehi, Chhindwar District	Yes	Yes	No	No
		Facility at Kolaras, Guna District	Yes	Yes	No	No
		Facility at Badarwas, Guna District	No	Yes	No	No
		Facility at Shivpuri, Guna District	Yes	Yes	No	No
		Facility at Aron, Guna District	No	Yes	No	No
		Facility at Ashoknagar, Guna District	Yes	Yes	No	No
		Facility at Chachaura-Binaganj, Guna District	Yes	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Facility at Chanderi, Guna District	Yes	Yes	No	No
		Facility at Guna, Guna District	Yes	Yes	No	No
		Facility at Isagarh, Guna District	Yes	Yes	No	No
		Facility at Kumbhraj, Guna District	No	Yes	No	No
		Facility at Mungaoli, Guna District	Yes	Yes	No	No
		Facility at Raghogarh-Vijaypur, Guna District	Yes	Yes	No	No
		Facility at Pichhore, Guna District	No	Yes	No	No
		Facility at Karera, Guna District	Yes	Yes	No	No
		Facility at Rajgarh, Guna District	Yes	Yes	No	No
		Facility at Bioara, Guna District	Yes	Yes	No	No
		Facility at Sarangpur, Guna District	Yes	Yes	No	No
		Facility at Jirapur, Guna District	No	Yes	No	No
		Facility at Machalpur, Guna District	No	Yes	No	No
		Facility at Pachore, Guna District	No	Yes	No	No
		Facility at Suthaliya, Guna District	Yes	No	No	No
		Facility at Narshingarh, Guna District	Yes	Yes	No	No
		Facility at Dabra, Gwalior District	Yes	Yes	No	No
		Facility at Pichhore, Gwalior District	No	Yes	No	No
		Facility at Bhitawar, Gwalior District	No	Yes	No	No
		Facility at Bhind, Gwalior District	Yes	Yes	No	No
		Facility at Gohad, Gwalior District	Yes	Yes	No	No
		Facility at Alampur, Gwalior District	No	Yes	No	No
		Facility at Phookalan, Gwalior District	Yes	Yes	No	No
		Facility at Akoda, Gwalior District	No	Yes	No	No
		Facility at Mehgaon, Gwalior District	No	Yes	No	No
		Facility at Daboh, Gwalior District	No	Yes	No	No
		Facility at Gormi, Gwalior District	No	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Facility at Morena, Gwalior District	Yes	Yes	No	No
		Facility at Kailaras, Gwalior District	No	Yes	No	No
		Facility at Sabalgarh, Gwalior District	Yes	Yes	No	No
		Facility at Bamore, Gwalior District	Yes	Yes	No	No
		Facility at Ambha, Gwalior District	Yes	Yes	No	No
		Facility at Porsa, Gwalior District	Yes	Yes	No	No
		Facility at Jhundpura, Gwalior District	No	Yes	No	No
		Facility at Datiya, Gwalior District	Yes	Yes	No	No
		Facility at Sewda, Gwalior District	No	Yes	No	No
		Facility at Indargarh, Gwalior District	No	Yes	No	No
		Facility at Bhandar, Gwalior District	No	Yes	No	No
		Facility at Badoni, Gwalior District	Yes	Yes	No	No
		Facility at Shivpure, Gwalior District	Yes	Yes	No	No
		Facility at Baroda, Gwalior District	Yes	Yes	No	No
		Facility at Vijaypur, Gwalior District	Yes	Yes	No	No
		Facility at Indore, Indore District	Yes	Yes	No	No
		Facility at Khandwa, Indore District	No	Yes	No	No
		Facility at Bhurhanpur, Indore District	No	Yes	No	No
		Facility at Khargon, Indore District	No	Yes	No	No
		Facility at Badwani, Indore District	No	Yes	No	No
		Facility at Sihora, Jabalpur District	Yes	Yes	No	No
		Facility at Jabalpur CB, Jabalpur District	No	Yes	No	No
		Facility at Barela, Jabalpur District	Yes	Yes	No	No
		Facility at Jabalpur, Jabalpur District	Yes	Yes	No	No
		Facility at Bhedaghat, Jabalpur District	Yes	Yes	No	No
		Facility at Chichali, Jabalpur District	Yes	Yes	No	No
		Facility at Gadarwara, Jabalpur District	Yes	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Facility at Gotegaon, Jabalpur District	Yes	Yes	No	No
		Facility at Gotegaon, Jabalpur District	Yes	Yes	No	No
		Facility at Katangi Jabalpur, Jabalpur District	Yes	Yes	No	No
		Facility at Manjholi, Jabalpur District	Yes	Yes	No	No
		Facility at Narsinghpur, Jabalpur District	Yes	Yes	No	No
		Facility at Panagar, Jabalpur District	Yes	Yes	No	No
		Facility at Patan, Jabalpur District	Yes	Yes	No	No
		Facility at Saikheda, Jabalpur District	Yes	Yes	No	No
		Facility at Salichauka, Jabalpur District	Yes	Yes	No	No
		Facility at Shahpura Bhitoni, Jabalpur District	Yes	Yes	No	No
		Facility at Tendukheda, Jabalpur District	Yes	Yes	No	No
		Facility at Baihar, Jabalpur District	Yes	Yes	No	No
		Facility at Balaghat, Jabalpur District	Yes	Yes	No	No
		Facility at Bamhani Banjar, Jabalpur District	Yes	Yes	No	No
		Facility at Bichhiya, Jabalpur District	Yes	Yes	No	No
		Facility at Katangi, Jabalpur District	Yes	Yes	No	No
		Facility at Lanji, Jabalpur District	Yes	Yes	No	No
		Facility at Malajkhand, Jabalpur District	Yes	Yes	No	No
		Facility at Mandla, Jabalpur District	Yes	Yes	No	No
		Facility at Nainpur, Jabalpur District	Yes	Yes	No	No
		Facility at Niwas, Jabalpur District	Yes	Yes	No	No
		Facility at Waraseoni, Jabalpur District	Yes	Yes	No	No
		Facility at Barghat, Jabalpur District	Yes	Yes	No	No
		Facility at Lakhnadon, Jabalpur District	Yes	Yes	No	No
		Facility at Seoni, Jabalpur District	Yes	Yes	No	No
		Facility at Barhi, Katni District	Yes	Yes	No	No
		Facility at Katni (Murwara), Katni District	Yes	Yes	No	No
		Facility at Kymore, Katni District	Yes	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Facility at Vijayraghavgarh, Katni District	Yes	Yes	No	No
		Facility at Satna, Satna District	Yes	Yes	No	No
		Facility at Chitrakut, Satna District	Yes	Yes	No	No
		Facility at Maihar, Satna District	Yes	Yes	No	No
		Facility at Kothar, Satna District	Yes	Yes	No	No
		Facility at Birsinghpur, Satna District	Yes	Yes	No	No
		Facility at Amarpatan, Satna District	Yes	Yes	No	No
		Facility at Jaitwara, Satna District	Yes	Yes	No	No
		Facility at Kothi, Satna District	Yes	Yes	No	No
		Facility at Unchehra, Satna District	Yes	Yes	No	No
		Facility at Rampur Baghelan, Satna District	Yes	Yes	No	No
		Facility at Nagod, Satna District	Yes	Yes	No	No
		Facility at Ujjain, Ujjain District	Yes	Yes	No	No
		Facility at Ratlam, Ujjain District	Yes	Yes	No	No
		Facility at Mandsaur, Ujjain District	Yes	Yes	No	No
		Facility at Jiran, Ujjain District	No	Ye	No	No
		Facility at Neemuch, Ujjain District	Yes	No	No	No
		Facility at Agar, Ujjain District	Yes	No	No	No
		Facility at Badnagar, Ujjain District	No	Yes	No	No
		Facility at Nagri, Ujjain District	No	Yes	No	No
		Facility at Chakghat, Rewa District	Yes	Yes	No	No
		Facility at Barkunthpur, Rewa District	Yes	Yes	No	No
		Facility at Churhat, Rewa District	Yes	No	No	No
		Facility at Govindgarh, Rewa District	Yes	Yes	No	No
		Facility at Gurh, Rewa District	Yes	Yes	No	No
		Facility at Hanumana, Rewa District	Yes	Yes	No	No
		Facility at Majhauri, Rewa District	Yes	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Facility at Mangawan, Rewa District	Yes	Yes	No	No
		Facility at Mauganj, Rewa District	Yes	Yes	No	No
		Facility at Naigarhi, Rewa District	Yes	Yes	No	No
		Facility at Rampur Naikin, Rewa District	Yes	Yes	No	No
		Facility at Rewa, Rewa District	Yes	Yes	No	No
		Facility at Semaria, Rewa District	Yes	Yes	No	No
		Facility at Sidhi, Rewa District	Yes	Yes	No	No
		Facility at Sirmour, Rewa District	Yes	Yes	No	No
		Facility at Teonthar, Rewa District	Yes	Yes	No	No
		Facility at Chhatarpur, Sagar District	Yes	Yes	No	No
		Panna Facility at, Sagar District	Yes	Yes	No	No
		Facility at Damoh, Sagar District	Yes	Yes	No	No
		Facility at Tikamgarh, Sagar District	Yes	Yes	No	No
		Sagar Facility at, Sagar District	Yes	Yes	No	No
		Facility at Umariya, Shahdol District	Yes	Yes	No	No
		Facility at Shahdol, Shahdol District	Yes	Yes	No	No
		Facility at Anuppur, Shahdol District	Yes	Yes	No	No
		Facility at Dindori Shahdol District	Yes	Yes	No	No
		Facility at Singrauli, Singrauli District	Yes	Yes	No	No
		Facility at Dewas, Dewas District	Yes	Yes	No	No
Facility at Shajapur, Dewas District	Yes	Yes	No	No		
21	Maharashtra	Greater Mumbai MC	Yes	Yes	Yes	Yes
		Pimpri Chinchwad MC	Yes	Yes	Yes	Yes
		Pune MC	Yes	No	Yes	No
		Mahad MC	Yes	Yes	No	No
		Nashik MC	No	Yes	No	No
22	Manipur	Municipal Solid Waste Management Plant, Imphal	Yes	Yes	Yes	Yes

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Thoubal Landfill site	Yes	Yes	Yes	Yes
		Bishnupur Landfill site	Yes	Yes	Yes	Yes
		Kakching Landfill site	Yes	Yes	Yes	Yes
		Jiribam Landfill site	Yes	Yes	Yes	Yes
23	Meghalaya	Landfill Site of Shillong Municipal Board	Yes	Yes	Yes	No
24	Mizoram		No	No	No	No
25	Nagaland	Kohima Municipal Council	Nil	Nil	Yes	Nil
26	Odisha		Not provided	Not provided	Not provided	Not provided
27	Puducherry	Puducherry MC	Yes	Yes	No	No
28	Punjab	Kharar MC	No	Yes	No	No
		Kurali MC	No	Yes	No	No
		Banur MC	No	Yes	No	No
		Zirakpur MC	No	Yes	No	No
		Sunam MC	No	Yes	No	No
		Barnala MC	No	Yes	No	No
		Malerkotla MC	No	Yes	No	No
		Sangur MC	No	Yes	No	No
		Amritsar MC	No	Yes	No	No
		Khamano Nagar Panchayat	No	Yes	No	No
		Hoshiapur MC	No	Yes	No	No
		Mansa MC	No	Yes	No	No
		Patiala MC	No	Yes	No	No
		Bhagwara MC	No	Yes	No	No
		Balachur MC	No	Yes	No	No
Gidderbaha MC	No	Yes	No	No		
Pathankot MC	No	Yes	No	No		

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Faridkot MC	No	Yes	No	No
		Moga MC	No	Yes	No	No
		Handlaya Nagar Panchayat	No	Yes	No	No
		Khanna MC	No	Yes	No	No
		Macchiwara Nagar Panchayat	No	Yes	No	No
		Samrala MC	No	Yes	No	No
		Doraha MC	No	Yes	No	No
29	Rajasthan	Pali District	Yes	Yes	No	No
		Udaipur District	Yes	Yes	No	No
30	Sikkim		No	No	No	No
31	Tamil Nadu	Chennai MC	Yes	Yes	No	No
		Erode MC	No	Yes	No	No
		Hosur MC	No	Yes	No	No
		Avadi MC	No	Yes	No	No
		Nagercoil MC	Yes	Yes	No	No
		Coimbatore MC	Yes	Yes	No	No
		Trichy MC	Yes	Yes	No	No
		Thanjavur MC	No	Yes	No	No
		Madurai MC	Yes	Yes	No	No
		Vellore MC	Yes	Yes	No	No
		Dindigul MC	Yes	Yes	No	No
		Salem MC	No	Yes	No	No
		Tirunelveli MC	No	Yes	No	No
		Thoothukudi MC	No	Yes	No	No
		Kumbakonam MC	No	Yes	No	No
		Karur MC	No	Yes	No	No
Mettur MC	No	Yes	No	No		

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Dharampuri Mc	No	Yes	No	No
		Ariyalur Mc	No	Yes	No	No
		Perambalur MC	No	Yes	No	No
		Thuraiyar MC	No	Yes	No	No
		Mannaparai MC	No	Yes	No	No
		Aranthangi MC	No	Yes	No	No
		Pudukkotali MC	No	Yes	No	No
		Koothanallur Mc	No	Yes	No	No
		Thiruturaiipoondi MC	No	Yes	No	No
		Mannargudi MC	No	Yes	No	No
		Thiruvarur MC	No	Yes	No	No
		Vedaranyam MC	No	Yes	No	No
		Sirkali MC	No	Yes	No	No
		Mayiladuthurai MC	No	Yes	No	No
		Nagapattinam MC	No	Yes	No	No
		Ambur MC	No	Yes	No	No
		Arkkonam MC	No	Yes	No	No
		Arcot MC	No	Yes	No	No
		Gudiyattam MC	No	Yes	No	No
		Ranipet MC	No	Yes	No	No
		Tirupathur MC	No	Yes	No	No
		Vanniyambadi MC	No	Yes	No	No
		Walajapet MC	No	Yes	No	No
		Jolarpet MC	No	Yes	No	No
		Tiruvannamalai MC	No	Yes	No	No
		Arani MC	No	Yes	No	No
		Thiruvathipuram MC	No	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Vandavasi MC	No	Yes	No	No
		Mettupalayam MC	No	Yes	No	No
		Gobichettipalayam MC	No	Yes	No	No
		Bhavani MC	No	Yes	No	No
		Tenkasi MC	No	Yes	No	No
		Ambasamudram MC	No	Yes	No	No
		Vickramasingapuram MC	No	Yes	No	No
		Kuzhithurai MC	No	Yes	No	No
		Colachel MC	No	Yes	No	No
		Padmanabhapuram	No	Yes	No	No
		Theni MC	No	Yes	No	No
		Periyakulam MC	No	Yes	No	No
		Kodaikanal MC	No	Yes	No	No
		Palani Mc	No	Yes	No	No
		Oddanchatram MC	No	Yes	No	No
		Sivagangai Mc	No	Yes	No	No
		Karaikudi MC	No	Yes	No	No
		Ramanathapuram Mc	No	Yes	No	No
		Paramakudi MC	No	Yes	No	No
		Rameswaram MC	No	Yes	No	No
		Keelakari MC	No	Yes	No	No
		Thiruverkadu MC	No	Yes	No	No
		Thiruthani MC	No	Yes	No	No
		Poonamalle MC	No	Yes	No	No
		Melvishram MC	No	Yes	No	No
		Tindivanam MC	No	Yes	No	No
		Villuppuram MC	No	Yes	No	No

Sl. No.	State/UT	City/Town	Ambient Air Quality Monitoring (Yes/No)	Ground Water Monitoring (Yes/No)	Leachate Quality Monitoring (Yes/No)	Compost quality (Yes/No)
		Kadayanallur MC	No	Yes	No	No
		Sankarankoil MC	No	Yes	No	No
		Puliyangudi MC	No	Yes	No	No
		Segottai MC	No	Yes	No	No
		Adirampattinam MC	No	Yes	No	No
		Pattukkotai MC	No	Yes	No	No
32	Telangana	Jawaharnagar(v), Shameerpat (M), Medchal District	Yes	Yes	Yes	Yes
33	Tripura	DC Nagar waste processing facility	Yes	Yes	Yes	Yes
		Kamalpur	Yes	Yes	Yes	Yes
34	Uttar Pradesh		Not provided	Not provided	Not provided	Not provided
35	Uttarakhand	Nagar Nigam Dehradun	Yes	Yes	Yes	Yes
		Nagar Nigam Haridwar	No	NO		Yes
36	West Bengal		No	No	No	No

3.0 STATE WISE OBSERVATIONS/ FINDINGS:

Based on annual reports received from 36 SPCBs/PCCs for the year 2021-22, observations on implementation of SWM Rules, 2016 are given below:

3.1 Andhra Pradesh:

There are 123 ULBs in Andhra Pradesh State and among them 17 ULBs are Municipal Corporations and 106 ULBs are Grade-I, II & III municipalities. A total of 6,890 TPD of Municipal Solid Waste is being generated from commercial areas, institutions and residential areas of the ULBs. Municipal Corporations and major municipalities have adopted 100% door to door collection. They have achieved 98.17% of segregation at source.

For waste transportation, the fleet includes 480 refuse compactors, 225 Skid Steer loaders, 330 mini compactors, 10,649 waste collection trollies, and 1,566 road and mini collection trucks.

Two Waste to Energy Plants under PPP mode are under construction by M/s. Jindal Urban Waste Management Ltd. 100 % of the work has been completed and plant has been commissioned in Greater Visakhapatnam Municipal Corporation. This unit processes 900 TPD of wastes. The unit in Guntur Municipal Corporation has also been completed and is processing 900 TPD of waste.

There 28 Waste to Compost plants providing facilities to 34 ULBs. and 4 Bio-methanation Plants are already established covering 8 ULBs. Windrow Compost Units are established in 81 ULBs as an interim measure till the establishment of ISWM Projects/ Waste to Compost Plants for which tenders finalized/ awarded. Compost produced is being sold to farmers by Processing Plant. Compost is also being used in Parks, Greenery in Central Medians, Avenue Plantation etc.

In addition to the above individual vermi-compost plants are being proposed in residential localities at bulk waste generators. The compost is proposed for utilization in green belt development within the municipal limits. 1922 Bulk Waste Generators were identified in the State. Further, Wet Waste Processing Facilities are provided by 760 Bulk Waste Generators, processing 64.10 Tons per day. CNG gas produced is being sold to the Commercial establishments like hotels, restaurants etc.

Greater Visakhapatnam Municipal Corporation, Tirupati Municipal Corporation, Ongole Municipal Corporation and Chirala Municipality has developed Sanitary Landfill facility. The remaining ULBs are under process of developing landfill facilities and compost plants in their respective

municipalities. ULBs are under process of implementing Bio-Mining process for Bio-remediation of existing municipal dump yards.

3.2 Andaman & Nicobar Islands

There is only 01 local body (Port Blair) in the State responsible for management of solid waste. The total solid waste generation in the State is 78.5 TPD out of which 78.3 TPD collected, 74 TPD is treated and 2.45 TPD is landfilled.

Urban Area: Door to door collection is carried out in all the 24 wards of Port Blair Town. 100% (24 wards) of solid waste is stored at source in segregated form. 100% of households practice storage of waste at source in domestic bins. Transportation of waste is carried out through tarpaulin covered vehicles

Rural Area: 80% of households are covered in door-to-door collection of solid waste. 90% of solid waste is stored at source segregated form. 95% of households practice storage of waste at source in domestic bins. Transportation of waste is carried out through tarpaulin covered vehicles.

The PBMC has installed 16 Water ATMs to reduce the plastic waste generation in the urban area. 24 number of Solid Liquid Resource Management (SLRM) Centres, 02 number of electric compost plants and one 3-R centre has been set up to cover all 24 municipal wards. Waste is further segregated for bailing and processing for its transportation to mainland for recycling. There are 05 decentralized composting units and one Bio-methanation plant at Dr. B.R. Ambedkar Institute of Technology with a capacity of 0.5 TPD for wet waste management. Further, 10 schools and 01 colleges have also made captive composting units.

All existing dumpsites have been closed. PBMC has initiated legacy waste remediation of the sanitary landfill situated in Brookshabad with has 1 Lakh MT of legacy waste. As on 31st December 2022, total 1630 MT quantity of legacy waste has been remediated.

3.3 Arunachal Pradesh

There are 33 local bodies (31 towns and 2 municipalities) in the State responsible for management of solid waste. There are 2 Municipalities in the State namely Itanagar Municipal Council and Pasighat Municipal Council.

Door to door collection of waste is done in 23 local bodies through motorized vehicle. Secondary waste storage facilities are used in 13 local bodies. The solid wastes collected are transported to the disposal site on daily basis. The disposal of waste is done in dumpsites. Segregation of wastes is practised in 10 local bodies namely Basar, Bomdila, Mariyang, Namsai, Tawang, Yingkiong, Aalo, Boleng, Deomali, Khonsa.

No landfill is developed so far by the local bodies. Vermi-composting is done at Basar and Bomdila. Composting is done at Pasighat Municipal Council, Tawang and Yingkiong. The state has reported that the major issue faced by ULBs in complying with SWM Rules, 2016 are lack of manpower, lack of waste processing plant and absence of proper storage facility for recyclable materials

3.4 Assam

There are 96 ULBs responsible for implementation of SWM Rules, 2016 in the State. There are 8 Class-I and 6 Class II cities/towns in the State. Total waste generated in the State is 1589 TPD out of which 1333 TPD is collected, 575 TPD of the generated waste is treated and 744 TPD is landfilled. Door to door collection of waste is practiced in almost all ULBs.

3.5 Bihar

In Bihar, 141 ULBs (18 Corporations, 77 Municipal Council and 46 Nagar Panchayats) are responsible for MSW management. As per annual report submitted by ULBs total waste generation has been observed to the tune of 4975 TPD (Municipal Corporation: 3007 TPD, Municipal Council: 1654 TPD and Nagar Panchayat: 314 TPD). The three major cities (Munger, Muzaffarpur & Biharsharif) and three major towns (Supaul, Rajgir & Bodhgaya) have been identified as model cities & towns in Bihar. Door to door collection is practiced in all the wards.

A total of 32 potential landfill sites out of which 80 sites have been cleared by the Board with regard to siting criteria as per the Solid Waste Management Rules-2016. As per annual report submitted by ULBs, there are 123 dump sites which includes 21 in Municipal Corporation, 65 in Municipal Council and 37 in Nagar Panchayat.

3.6 Chandigarh

There is 1 ULB responsible for implementation of the SWM Rules, 2016, in the UT. The total solid waste generation is 540 TPD, all of which is collected. 83 TPD of the generated waste is treated and 486 TPD is landfilled.

The Municipal Corporation, Chandigarh (MCC) has facilitated 100% door to door collection, segregation and storage along with covered transportation system for waste in all 35 wards. 3 No. Of Material Recovery Facilities (MRFS) have been setup by MCC for the purpose of collection, segregation and transfer stations of dry waste, wet waste, domestic hazardous waste and sanitary waste. The dry waste is segregated for recyclable materials.

Both the wet waste and dry waste go to the current processing plant. MSW plant are converting garbage into RDF and Compost. The MCC has also installed bio-methanation plant having capacity of 05 MTPD.

Domestic Hazardous Waste collected at MRFS will be lifted, treated and disposed of by facility namely M/s Ramky Enviro Engineers Limited (REEL) located at village Nimbua, Punjab. The facility will collect the waste with proper tracking system after quantification and quality assessment by them.

A sanitary landfill has been developed over an area of 8.28 acres of 25 acres which is now used for dumping. The Request for proposal for bio-mining of is current landfill site having 8 lakh MT of waste has been issued and the work will be completed by December, 2025. The processing plant for solid waste management not working in the optimum capacity due to outdated technology

3.7 Chhattisgarh

There are a total 169 ULBs responsible for implementation of the SWM Rules, 2016, in the State. Total Solid Waste generation in the State is 1820 TPD. 100% of generated solid waste is collected, out of which 1790 TPD is treated while 30 TPD is landfilled. All Municipal Authorities have door to door collection facilities. Collection is done through Tricycles and Mini Tippers

Solid waste management in 167 ULBs of the State is based on the waste management model (Mission Clean City) which is currently running successfully in Ambikapur. These Municipal Authorities have collection and transportation facilities for solid waste management. The source segregated MSW is collected by SHG workers by tricycles and Mini tippers. The Municipal solid waste management facilities are effectively managed and planned to comply the provision of the Solid Waste Management Rule, 2016.

167 Municipal Authorities have Garbage Clinic (Solid Liquid Resource Management Centers) for secondary segregation of MSW and 169 Municipal Authorities are operating their own composting plant.

Integrated solid waste management plants are operational in the 2 ULBs namely Raipur & Bilaspur. To promote decentralized plants for the treatment of organic/wet fraction, necessary guidelines have been issued for bulk waste generators (BWG).

3.8 Dadra Nagar Haveli and Daman & Diu

A total of six ULBs are responsible for MSW management in the Union Territory. The total solid waste generation is 267 TPD. 100 % of the waste is collected out of which 246 TPD is treated. A total of 21 TPD of waste has been landfilled in FY 2021-22. 100 % of households practice storage of waste at source in domestic bins. 100% of non-residential premises practice storage of waste at source in commercial/institutional bins. Households do not dispose or throw solid waste on the streets.

3.9 Delhi

There are 5 ULBs responsible for management of solid waste in Delhi. The total Solid Waste generation in Delhi is 11,108 TPD of which 100% waste is collected, 5,280 TPD waste is treated and 5828 TPD waste is dumped.

Local Bodies are implementing waste segregation at source, door to door collection, intermediate storage and transport facility with GPS for the transportation of the collected solid waste to the operational Solid Waste Processing/Treatment Facilities at the 3 existing Landfill/Dumpsites at Bhalaswa, Ghazipur & Okhla in Delhi.

100% collection of solid waste including door to door collection and transportation of solid waste in covered vehicles have been reported by the Local Bodies in their Annual Reports. NDMC has reported that 100% premises in the area are segregating the waste at source.

Delhi Cantonment Board (DCB) has reported that segregation of waste at source is 90% in civil area & 60% in Army Area. SDMC has reported that 50% waste segregation at source is being practiced. Segregation of waste at source is 30% for EDMC.

There is one Integrated Solid Waste Management Facility at Bawana for processing of 2000 TPD of solid waste having. The facility includes Waste to Energy Plant, Compost Plant and Engineered Sanitary Landfill. One Engineered Sanitary Land Fill is proposed to be developed by South Delhi Municipal Corporation (SDMC) at Tehkhand. An Integrated Solid Waste Management Facility for 2000 TPD is proposed to be developed by East Delhi Municipal Corporation (EDMC) in joint venture with NTPC at Ghonda Gujran.

Delhi has 3 Waste to Energy Plants (WTE Plants) of capacity 4550 TPD at 3 different locations in Delhi namely Okhla, Ghazipur and Bawana. One new Waste to Energy Plant of capacity of 2000 TPD is under construction at Tehkhand

The Engineered Sanitary Landfill (SLF) at Tehkhand is being developed over an area of 32 346 Acres. The land has been secured and is in possession of South Delhi Municipal Corporation. The estimated cost of project is Rs. 78.9 Crores. Environmental Clearance has been granted by MoEF&CC, Govt. of India on 29.10.2018. The project is expected to be completed by April, 2023.

Integrated waste collection, segregation, transportation, processing & disposal at Ranikhera for 3 Zones of North DMC (City-SP, Karol Bagh & Narela Zone). The expected time for completion of setting up of the processing facility is August, 2025.

3.10 Goa

There are 14 ULBs responsible for implementation of the SWM, Rules, 2016, in Goa. Total solid waste generation in the State is 211 TPD, out of which 207 TPD is collected. Of this, 197 is treated and 10 TPD is landfilled. Good practices like house to house collection, segregation, storage and covered transportation are being practiced in all 14 cities/towns.

There are 07 solid waste processing facilities (Biogas) operational in the State. There is one Waste to Energy Plant in the State located at Saligao, Bardez, Goa which has a capacity of 1.372 MW.

3.11 Gujarat

A total of 164 ULBs are responsible for MSW management in the State. Total solid waste generation in Gujarat is 10,095 TPD, of which 100% is collected. Of this, 8682 TPD of waste is

treated and 1003 TPD of waste is landfilled /dumped. 100% door to door collection of mixed MSW has been reported.

There are 597 Composting plants with a cumulative capacity of 6157 TPD. Further, there are 35 Biogas plants with capacity 163.3 TPD and 5 RDF/ Pelletization units with capacity 1055 TPD. It is reported that 28 Regional/ Individual landfill sites have been identified and 27 Landfills are under planning stage. Further, 11 Landfills have been constructed and 08 landfills are in operation. 1 landfill site in Rajkot has started capping of cell 1. There are 164 dumpsites present in the State.

3.12 Haryana

There are 89 Urban Local Bodies in the State. The total waste generation has been reported to be 8766 TPD, out of which 6691 TPD is collected. A total of 4297 TPD of waste is treated and processed and the remaining 2218 TPD waste is disposed in landfills.

Door to door collection is being done in 1600 out of 1639 wards and existing waste collection vehicles are being modified into two covered compartments for collection of waste in segregated manner. Freshly, ordered vehicles will have two covered compartments for collection of wet and dry waste. A Separate basket/ bin is kept in waste collection vehicle/ tricycle for segregated collection of domestic hazardous waste.

Urban local bodies are collecting domestic, trade and institutional food/ biodegradable waste from the doorstep or from the community bin on a daily basis. Large containers kept in the fruit and vegetable markets and removed during night time or non-peak hours by the local bodies.

Local bodies are using covered containerized handcarts/ tricycles/ tractor trolley/ refuse compactor or other similar means for the primary collection of waste stored at various sources of waste generation. Existing waste collection vehicles are being modified into two covered compartments for collection of waste in segregated manner. Freshly, ordered vehicles will have two covered compartments for collection of wet and dry waste in a segregated manner. For secondary transportation of solid waste from the Primary Collection Centre (PCC) to the designated processing plant site or sanitary landfill site.

Rejects and residues collected from the above mentioned processes are disposed in dumping sites and further proposed to be processed for energy recovery. Presently in the State there are

3 composting plants in 3 MCs, 2800 Composting Pits including park pit in 91 MCs, 10 no.s Vermi Composting Facilities, 3 nos Bio Gas Plant and 3 plant waste to compost +RDF in 3 MCs.

Total 13 Integrated Solid Waste Management clusters have been formed in Haryana. Out of 13 clusters, 2 waste to energy clusters namely Sonapat-Panipat & Gurugram -Faridabad WTE are under implementation. Sonapat-Panipat (700 TPD) waste to energy plant was completed on 15, August, 2021 and has a power generation of 7 MW. The WtE at Gurugram-Faridabad is planned and is expected to have a power generation of 23 MW. There are two centralized waste to compost processing facilities operational in the State i.e., Rohtak (150 TPD) & Karnal (150 TPD). Under this approach these plants will be upgraded and expanded to cater the future waste generation requirements. Remaining 11 clusters are based on open technology and the selected agency to decide the technology.

3.13 Himachal Pradesh

There are 61 ULBs and 7 Cantonment Boards in the State of Himachal Pradesh. Solid waste generation in the State is 383 TPD, out of which 349 TPD is collected, 269 TPD is treated and 80 TPD is landfilled.

Two landfill sites have been identified in the State (Shimla and Baddi) and 48 existing dumpsites have been reported while 07 newly constituted ULBs are also not having sites for developing waste processing facility in the State. Pit composting is the most preferred method of disposal of wet waste in

3.14 Jammu & Kashmir

There is a total of 80 ULBs in Jammu and Kashmir. The total Solid Waste generation in all the Corporation/Local bodies of UT of J&K is 1550 TPD out of which 1540 TPD is collected and 606 TPD is treated. It was also reported that 390 TPD of waste is disposed through landfills.

With regards to collection of waste Jammu division collects 100% through house-to-house collection by 38 local bodies. Partial house-to-house collection is being done in remaining local bodies. The waste from slaughter houses, meat and fish markets, fruit and vegetable market, which are bio-degradable in nature, are not collected separately. In Kashmir division door to door collection of municipal solid waste is being undertaken in 80% of households in Srinagar city through Srinagar Municipal Corporation. 100% of non-residential areas including commercial

establishment, hotels, restaurants, educational institutions/ offices etc are also covered. Construction and demolition waste is separately collected and disposed.

In Jammu division, waste segregation at source has been implemented partially by all local bodies. Secondary waste segregation has been started by Katra town and Udhampur Municipal Council with segregation of 5 TPD and 10 TPD of waste respectively and channelization for further recycling. Segregation has been implemented 265 wards out of 528 wards.

In Kashmir division, segregation and storage of waste at source has been initiated by Srinagar Municipal Corporation and by Municipal Council/ Committees. However, no point source segregation of waste is being carried out yet.

In Jammu division, storage in open is practiced at identified locations by all local bodies with 189 open covered storage sites for storage at primary level and 490 bins in Jammu city under jurisdiction of JMC. Only primary storage facilities have been established by ULBs in the form of RCC Bins, plastic bins, dumpers/ containers and few secondary storage facilities / MRFs with closed sheds operational in only 04 No. of local bodies.

In Kashmir division, the waste from a few selected localities within the city is being stored in covered Municipal Storage containers, whereas in few areas of the city, the waste is dumped in open in a scattered manner. SMC has 614 Nos. of Compacter bins, dumper bins and 70 open waste storages sites available, Storage sites have not been identified by some of the Municipal Council / Committees.

In Jammu division, transportation of waste is carried out in heavy vehicles by ULBs. Mostly the vehicles transporting the MSW are closed now. However, transportation on daily basis is not carried out.

In Kashmir division, Srinagar Municipal Corporation (SMC) are equipped with waste transporting vehicles and mostly wastes are transported under covered conditions thereby reducing littering of the waste on the way. However, separate transportation system for each category of waste is needed. SMC has finalized to set up 12 nos. of Garbage Transfer Stations throughout the city for efficient waste collections, transportation and disposal of the Waste. These GTs shall be equipped with State-of-art facilities such as separate bins for segregated waste, compaction unit, weigh bridge, Organic waste convertors, compounding unit etc.

In Jammu division, there is no processing facility in the region except small scale vermin-composting being carried out at MC Bhaderwah, MC Doda, MC Sunderbani and composting by Jammu Municipal Corporation.

In Kashmir division, Facilities available with Srinagar Municipal Corporation (SMC) include, landfilling, mechanical segregator, composting, bailing of RDF, Resource Recovery by rag pickers and leachate treatment plant. Phalagam Development Authority and Gulmarg Development Authority has developed Solid Waste Management Facilities.

There is no authorized landfill site in operation till now except for open dumpsites. Periodic burying of the waste is however, carried out with the help of JCBs to minimise the visibility of waste. Disposal of waste is being carried out in unscientific manner on open lands or hill slopes.

In Kashmir Division all kind of waste is disposed of in landfill site by Srinagar Municipal Corporation whereas none of the municipal councils/ committees have sanitary engineered landfill site. The eco-fragile tourists place like Pahalgam and Gulmarg have come up with facilities with regard to the treatment and disposal of the solid waste generated from these areas. The segregated waste collected is processed in auto composters and magnetic disintegrator.

3.15 Jharkhand

There are 42 ULBs are responsible for MSW management in the State. Total solid waste generation in the State is 2404 TPD out of which 1969 TPD is collected, 843 TPD is treated and 930 TPD is landfilled.

Solid waste collection and processing has improved in Jharkhand in comparison to previous years. Door to door garbage collection and segregation of waste has been initiated in all ULBs. Wet waste processing through decentralized composting & dry waste is recycle through recyclers is being done. Audio related to source segregation and sanitation is played regularly on the waste collection vehicles.

Concessionaire pastes green sticker on the household which gives segregated waste & red sticker which gives mixed waste. Transportation of wastes in covered vehicle is being done. Bulk Garbage Generators (BGGs) have been identified in all ULBS. Creating green belt around the

SLF and processing Plant site provision is being incorporated in the DPRS and it is done by the concessionaires of SWM Projects.

Land for sanitary landfill site as well as processing facility has been identified in 42 ULBs & is available to 36 ULBs, Landfill site for 6 towns is under process of transfer/NOC/purchase. Out of 42 ULBs, DPRs for SWM Projects of 31 cities have been prepared and approved. All DPRs have been prepared or being prepared as per guidelines given in SWM Rules, 2016. All DPRs prepared are based on waste to compost technology, where as in tender technology is silent so that concessionaires can choose/ suggest better technology. Concessionaires have been appointed in 25 ULBs for SWM projects for 20 years.

Segregation at source and collection at door to door of waste has been initiated in all 42 ULBs. Regular IEC activities are being done for source segregation. Reverse Vending Machine has been installed at Ranchi, Dhanbad & Jamshedpur cities for recycling of plastic bottles as pilot project. In Chas & Jamshedpur plastic has been used for construction of road. M/s. ACC Ltd., Chaibasa Cement works (registered with CPCB and JSPCB) having facility for co-processing plastic wastes.

Citizen app has been launched and is being used for monitoring of door-to-door collection. This app uses RFID technology to track door to door collection. Through this app one can online pay user charges for door-to-door waste collection services and even complaint regarding the services.

Jamshedpur floated a tender for dung collection through private parties. In which there is a provision for the collection of animal waste from Diary Farm of any scale. The owner of the Diary Farm is charged 100 rupees per animal against waste collection service from their farm. The collected dung is stored by the collecting agency and processed in vermi composting facility; this enriches the quality of the compost. The collected dung is also sold directly to the farmers from nearby village.

Most the ULBS are doing wet waste processing through de-centralized composting and dry waste processing through recyclers. Home composting in societies of some of the ULBS has been promoted. All Kabadiwalas in Adityapur Municipal Corporation are linked in recycling of solid waste after proper segregation of multiple wastes in different categories which helps in 3 R model.

3.16 Karnataka

315 ULBs are responsible for MSW management in the State. Total Solid Waste generation in Karnataka is 13,034 TPD out of which approximately 11,655 TPD is collected, 5,440 TPD of waste is treated and 4,198 TPD is landfilled.

All 315 Urban Local bodies have house to house collection system in place. 2% gap in door to door collection exists in ULBs other than BBMP as per information submitted by DMA while 10.6 % gap exists in BBMP. Segregation of solid waste is done by all 315 the local bodies. 37% gap in segregation of solid waste exists in ULBs other than BBMP as per information submitted by DMA while 52% gap exists in BBMP. Covered Transportation of solid waste is done by all 315 the local bodies. 8.7% gap exists in BBMP as per information submitted by BBMP.

225 no. of Material Recovery facilities have been set up in the state along with 225 composting plants with capacity 6917 TPD, 28 Biogas with capacity 49.55 TPD. It is reported that 221 Regional/Individual landfill sites are identified and 165 Landfill sites are constructed.

3.17 Kerala

In Kerala, there are 93 Municipal Authorities (6 corporations and 87 Municipalities) responsible for MSW management. Nearly 3,472 TPD of MSW generated in the State, out of which 1,283 TPD waste is collected. The total quantity of waste processed or treated is 2,691 TPD waste treated, which also include processing and treatment of 1,408 TPD of waste at source through decentralized system.

There are 2 large and 12 small centralized windrow composting plants with capacity 437 TPD and 7 vermi composting plants setup in the State. 287 community level and 21,560 household level Biogas plants are operational in the state.

1 landfill site has been identified in the State and total 35 existing dumpsites have been reported. Setting up of waste to energy plant at 09 locations have been identified and is at various stages of progress. For Regional sanitary landfill, land (25 Acre) has been identified at Ambalamedu, Ernakulam and action is being taken for takeover. Bio-mining has started at Njalianparmbu dumpsite and is completed at Kureepuzha Kollam. It is in tendering stage for Kottayam, Bhramapuam, Chelora.

3.18 Ladakh

The Total waste generation in the state is approximately 52 TPD, 42 TPD is collected, 20 TPD is processed and 15 TPD is landfilled.

Leh District:

100% door to door collection of segregated waste. At present 13 wards, 2600 households and 600 nos. of non-residential premises including commercial establishments, hotels, restaurants, educational institutions /offices have been covered so far. 100% segregation of waste at source is implemented. There is 100% household storage of waste at source in domestic bins and 15% of transportation is covered as per information provided by MCL.

Kargil District:

There is 80% door to door collection of segregated waste. At present 13 wards 1551 households and 900 nos. of non-residential premises including commercial establishments, hotels, restaurants, educational institutions /offices have been covered so far. 60% segregation of waste at source is practiced. 60% household storage of waste at source in domestic bins. 15% covered transportation as per information provided by MCK. One composting plant and one RDF pelletization unit is operational in Leh district. One landfill site is identified in the Leh district

3.19 Lakshadweep

Total waste generation in the State is approximately 18 TPD, of which 100% of waste generated is collected and treated.

The kitchen wastes are processed in their own localities. The sweeping waste is collected and transported to Central Garbage Depository. The non-biodegradable recyclable materials are stored in the temporary storage yard in each island and to transport the recyclable material to the authorized recyclers at mainland (Kerala).

All the inhabited islands, Village (Dweep) Panchayat are coordinating waste management by placing 4686 community bins of 150 litre capacity near houses. Non-biodegradable waste that are collected from households which are sorted and packed in common depository site. The segregated non-biodegradable waste viz. scrapes, plastic bottles, rubber and chapels, hard plastic, ceramics etc. are transported to recyclers at mainland (Kerala).

As per the direction of Hon'ble NGT orders and Lakshadweep Solid Waste Management Bye-Law 2018, the department has implemented user fee collection in Kavaratti Island.

The UT of Lakshadweep Administration has banned 13 numbers of single use plastic items from its territory with effect from 26th January, 2019 as per Notification F.No.66/33/2019- E&F (P&L) Dated 25.01.2019.

Due to the special geographical nature of the Lakshadweep, Lakshadweep Administration has continued the transportation of recyclable waste including cement bags into recycling unit at mainland.

As a part of the management of Single Use Plastics in Union Territory of Lakshadweep, the UT of Lakshadweep Administration has placed sign boards at various important corners of the all islands for the awareness of the public.

A three-tier committee at state, district and island level is constituted to monitor the activities under the action plan on elimination of identified single use plastics in Lakshadweep.

3.20 Madhya Pradesh

Total 406 Urban Local Bodies and 05 Cantonment Boards are responsible for implementation of SWM Rules, 2016 in the State. Total waste generation in the State is approximately 7115 TPD, out of which 6132 TPD waste is collected, 6059 TPD is treated and 76 TPD is landfilled. 100% door to door collection of the waste has been achieved in 372 ULBs and 06 ULBs are facilitating partial door to door collection of the waste. 4,217 waste pickers have been engaged for solid waste management which provides source of livelihood through this integration.

100% Segregation at source of waste has been achieved in 276 ULBs. However, for the remaining 102 ULBs segregation of waste from each house is yet to be achieved. The ULBs are segregating dry waste into different components such as plastic, wood, paper, glass, cardboards, etc. Plastic waste is utilized in road construction. Many ULBs supply Refuse Derived Fuel to cement factories as Alternate Fuel & Raw Material (AFR). Other ULBs are also selling segregated dry waste to junk dealers for recycling.

ULBs are transporting the segregated waste in covered vehicles from transfer stations to processing facilities. As per the mandate, all towns / cities with more than 1 lakh of population are required to have GPS fitted garbage collection and transportation vehicles. In Madhya Pradesh, there are 34 towns with more than 1 lakh population. There are 3,399 vehicles with ICT based monitoring system for collection and transportation of municipal waste. A total of 3540 vehicles have been deployed for collection and transportation of municipal waste and are being monitored through various ICT based monitoring mechanisms.

There is one operational Waste to Energy Plants in Jabalpur with a power generation of 11.5 MW. Another plant is under construction at Rewa and it is expected to have a power generation capacity of 12 MW. The WtE at Gwalior has been terminated.

3.21 Maharashtra

Maharashtra is one of the highest urbanized states with nearly 50% population residing in urban areas. A total of 403 ULBs are responsible for MSW management in the State of Maharashtra, comprising of 27 Municipal Corporation, 238 Municipal Councils, 131 Nagar Panchayats and 7 Cantonment Boards. Total Solid Waste generation in the State of Maharashtra for the year 2021-22 is 23,531 TPD, out of which 23,044 TPD is collected and 19,980 TPD of waste is treated. 2067 TPD is landfilled and 1,484 TPD of waste is disposed unscientifically. Percentage of solid waste treatment is increased from 72.66% to 93.69% as compared to last year. Due to covid pandemic marginal increase in treatment quantity is observed. Overall average waste segregation is 93% and overall solid waste transportation is 99%.

Vehicles deployed for collection and transportation of waste have two compartments for dry and wet waste. Dry waste collected from the city is further segregated into paper, plastic, glass, metal etc. through secondary segregation process at transfer stations or the designated material recovery facility (MRF) in the city or at solid waste treatment facility. The segregated waste is being recycled through local sellers in the city to recyclers in the region or to the waste processing plants in nearby metro cities through prescribed processes. For treatment of dry waste technical options such as preparation of Refused Derived Fuel (RDF), use of plastic in roads, preparation of oil or granules from plastic etc. are also used in some municipal corporations.

ULBs installed 437 composting plants as a waste processing facility. Also 133 vermin-composting facilities, 53 bio-methanization plants, 01 waste to Energy plant and 19 RDF plant have been installed in the State. A total of 382 landfill sites are identified. The Bio-medical waste and

industrial hazardous waste generated in the area of local bodies is not mixed with MSW and such waste is disposed of separately in accordance with provisions made under BMW Management Rules, 2016 and Hazardous and Other Wastes (Management and Trans Boundary Movement) Rules, 2016. For the disposal of hazardous waste, 4 no. of Common Treatments, Storage and Disposal facility have been developed in the State. For the disposal of the Bio-medical waste, 30 number of Common Bio-medical Waste Treatment Facilities have been provided.

The main constraint for the effective implementation of MSW Rules & setting up of waste processing facility for local bodies is non-availability of suitable land. Considering the constraint, the Urban Development Department, Govt. of Maharashtra has passed order regarding formation of District Level Committee in every District under the Chairmanship of District Collector. The main object of district level committee is to identify and select waste processing and landfill sites.

There is one Waste to Energy Plan in operation in Maharashtra. It can produce 4 MW of energy per day.

3.22 Manipur

In Manipur, there are 27 towns/cities under MAHUD Department, GOM and one Class-I city i.e. Imphal city. The remaining 26 towns are all below class II category. There is a total of 27 ULBs in the State. The municipal solid waste generation is estimated at 282 TPD and the actual waste collection is 199 TPD. Out of the actual waste collected 133 TPD is processed and the remaining 66 TPD is disposed at the existing landfill or dump sites.

Door-to-Door collection is practiced by 302 wards out of 306 wards in the state (98.7 percent). 22 ULBs reported source segregation, however, 100% source segregation at households are reported by 5 ULBs. Dry segregated waste is handed over to waste recyclers. Segregated wet waste is processed through composting. The wastes are transported in open motorised vehicles. 25 ULBs reported that the waste is transported daily or whenever required. The transporters take care to cover the wastes with plastic sheets during transportation to avoid scattering. A mechanised composting plant has been in operation at the MSW management plant at Lamdeng. Some of the ULBs adopt composting in composting pits. During the year of report, 133 TPD of waste was processed either through composting or recycling. The waste to energy plant using pyrolysis technology is under trial run. 5 sanitary landfills are in operation and there are 13 dumpsites. Some of the ULBs that are not having landfilling or dumping facilities use the

neighbouring landfill or dumpsites. During the year of report, 66 TPD of waste was either landfilled or dumped.

Backyard composting is practiced by interested households in many urban localities. Landfill and dumpsites are fenced and provided with lighting facility in all major ULBs. Daily covering of dumped waste cannot be carried out by many ULBs due to scarcity of resources. However at least, occasional covering is reported. Daily sweeping and transportation of waste is reported by the ULBs. There is a need to provide separate provisions for dairy activities, slaughter houses and construction and demolition waste. Imphal Municipal Corporation and Jiribam Municipal Council reported separate provisions for Construction and Demolition waste. Bio-mining of legacy waste needs serious consideration by all ULBs. Segregated dry waste is handed over to waste recyclers.

3.23 Meghalaya

In the State of Meghalaya, there are total 07 Local Bodies responsible for management of solid waste. A total of 165 TPD of solid waste is generated in the State as reported, out of which 137 TPD of MSW is collected, nearly 27 TPD is treated and 119 TPD is landfilled.

Good practices like house-to-house collection, segregation of waste and covered transportation is being practiced in Shillong Municipal Board only. There are 6 Nos. of existing dumpsites operated by Shillong Municipal Board, Baghmara Municipal Board, Jowai Municipal Board, Tura Municipal Board, Williamnagar Municipal Board and Resubelpara Municipal Board. Only 01 dumpsite has been converted into sanitary landfill.

In Meghalaya, Composting and recycling Unit has been set up by Shillong Municipal Board at Mawiong for treating the municipal solid wastes. The total quantity of waste processed through composting and recycling is 27 TPD. There is no incineration plant for Municipal Solid Waste in the State.

3.24 Mizoram

There is only 01 ULB and 28 urban towns in the State of Mizoram. The total solid waste generation in the State is 374 TPD out of which 313 TPD is collected, 234 TPD is treated and 8 TPD is landfilled.

Collection of solid waste in Aizawl through various sanitation points covering all 83 Local Councils. Green and blue coloured specially designed trucks are being used for transportation of waste. In the Urban towns Solid wastes are being collected on alternate days from various sanitation points by engaging/hiring vehicles.

Segregation of waste into four bins viz. biodegradable, non- biodegradable, plastic and electronic and hazardous waste in all 83 Local Councils of the Aizawl ULB. In the Urban towns segregation of waste is fully achieved in 3 urban towns viz. Kolasib, Lunglei and Serchhip while it is being initiated in the rest of urban towns. 3 bins system viz. biodegradable, non-biodegradable and plastic waste has been practised in Lunglei District.

Transportation of waste in Aizawl ULB is done covered vehicles. However, in the Urban Towns waste are transported by hired vehicles.

3.25 Nagaland

There are a total 39 ULBs responsible for implementation of the Solid Waste Management Rules, 2016, in the State. It is estimated that 664 TPD of solid waste is generated daily, out of which only 306 TPD is collected, 116 TPD is treated and 299 TPD is disposed through open dumpsite.

Collection of wastes is done by the Municipal Councils and Town Councils and transported to the dumping site. Door-to-door collection of solid wastes is being carried out in most of the municipal/town councils. In town councils where door to door is not being carried out, point to point source of collection is being carried out due to the inability for vehicles to ply in the hilly terrain. Segregation of some recyclable wastes are being carried out and outsourced from the source i.e. households, by the residents to the scrap dealers and by the rag pickers from community bins. Kohima Municipal Council have covered vehicles with separate dry & wet waste compactors. However, in the other Municipal/Town Councils covered vehicles are not available for transportation of wastes. Inadequate machinery and vehicles.

All the municipal solid wastes collected are being disposed by the Municipal/ Town Councils at their respective landfill & dumping site. Kohima Municipal Council a scientific landfill is been set up at Lerie, Kohima, which is attached with a plastic recycling unit.

Under Dimapur Municipal Council, treating the existing dumpsite through bioremediation process and also carrying out biomining process. Chumukedima Town Council collects and transports the

waste to the Material Recovery Facility (MRF) and the unsegregated waste are further being segregated and only rejected are being disposed. Mon Town Council has installed MRF unit at ADC Colony Tompang Ward and the recyclable waste mainly plastic wastes are kept for undergoing further processing in a registered plastic recycler.

3.26 Odisha

There are a total 114 ULBs responsible for implementation of the SWM Rules, 2016 in the State. The estimated waste generation in these ULBs is 2103 TPD, out of which 2020 TPD is collected, 1356 TPD is treated and 738 TPD is landfilled (Open Dumping). A total of 38 landfill sites have been identified in the State. There are 239 Micro Composting Centres (MCC) for management of wet waste. The total capacity of these MCC is 1122 TPD. There are 203 Material Recovery Facilities (MRF) with a combined capacity of 2090 TPD.

3.27 Puducherry

There are a total 05 Local Bodies responsible for implementation of the SWM Rules, 2016. The waste generated is 383 TPD of which 100% of waste is collected. 58 TPD of the generated waste is treated and 325 TPD is landfilled.

100% door to door collection is being done. Segregation of solid waste at collection point is being done in selected areas of urban limit in some constituents. Local bodies are taking steps for source segregation by introducing various IEC methodologies. The processing of the wet waste is done through two composting units, one vermicomposting unit and two biogas plants. Further, there are two RDF/ pelletization plants as well in the state.

Four Municipalities have taken initiatives for processing of solid waste i.e., Biomethanation/ Nisargruna Technology of BARC with the aid of PPCC by Pondicherry, Oulgaret and Karaikal Municipalities. Mahe municipality is processing their wet by Composting.

With regards to management of legacy waste M/s Zigma Global Environ Solutions Private Limited, Chennai has been selected as the agency for disposing the existing legacy waste under the Project titled "Disposal of Legacy Waste from the existing Kurumbapet dumping site, through Bio-remediation & Biomining means with complete reclamation of the dumpsite land in compliance with SWM Rules, 2016. The work has been entrusted with them and they have started the work.

3.28 Punjab

Total 163 ULBs are responsible for MSW management in the State. There are 27 Class-I, 44 Class-II, 22 Class-III cities/towns, 57 Nagar Panchayats & 13 Municipal Corporations in the State. Total Solid Waste generation in Punjab is around 4,222 TPD, out of which 4,207 TPD of waste is collected, 1,471 TPD is treated and 2,736 is landfilled.

House to house collection is practiced in 163 ULBs, segregation is practiced in 121 ULBs, storage facility is available in 113 ULBs and covered transportation is being practiced in 159 ULBs.

There are a total of 8251 composting pits operational in the state along with 1 Vermi-composting at Shamchaurassi and 2 RDF/pelletization facilities at Bathinda and Ludhiana.

The Department of Local Govt. (DLG) has adopted decentralized approach for Solid Waste Management in the State. Source segregation, door to door collection, transportation of segregated waste to processing site/ composting pits, processing of wet waste at composting pits/bio-methanization, transportation of dry waste to MRF facility for further segregation of recyclable waste and channelization and final disposal of inerts in sanitary land fill facility are key highlights of this decentralized approach.

3.29 Rajasthan

There are a total 207 ULBs in the State. The total solid waste generation in the State is 7973 TPD out of which 7859 TPD is being collected through Door to door collection system by Urban Local bodies. Currently 1926 TPD waste is being treated by ULBs while 5525 TPD is landfilled.

Door-to-Door collection is practiced in all the 207 ULBs. Segregation of waste is being practiced in 104 ULBs and storage of waste is being practiced in 152 ULBs. Covered transportation is being practiced in 114 while partial covered transportation is being practiced in 82 ULBs.

23 no. of composting plants, 04 no. of RDF / pelletization units, 02 no. of biogas are set up by ULBs which are operational in the State.

3.30 Sikkim

A total of 07 ULBs are responsible for management of solid waste in the State. Total solid waste generation in the State is 66 TPD of which 100% of waste is collected, 18 TPD is treated and 48 TPD is landfilled/dumped.

Door to door collection of segregated waste is being practised through garbage collection vehicle. Practice of Community bins/secondary waste storage facility has been stopped but Gangtok Municipal Corporation (GMC) has placed bins for tourist and local public in main market area. Waste cloth from furnishing shops have been converted into different items for sale e.g. handbags, pillow cover, etc. by GMC. Transportation of collected waste is done by assigned covered garbage vehicles.

3.31 Tamil Nadu

Total 649 ULBs, 21 Corporations, 138 Municipalities and 490 Town Panchayats in the State of Tamil Nadu. The total quantity of solid waste generation is 14,586 Tons/day. Out of the total waste 14,471 Tons/day of solid waste is being collected and 7,206 Tons/day of solid waste is treated and 6,776 Tons/day of municipal solid waste is landfilled. Local bodies which generate 5 TPD and above of municipal solid waste have applied for Authorisation. So far 219 applications received for authorization and Authorization issued for the said applications.

House to house collection of solid wastes is 100 % in 21 cities. Further, segregation of waste at source is also 100 % 21 cities covering 7,02,665 households. Covered transportation is practiced in 151 cities.

995 Micro Compost Centres (MCC) and 907 Onsite Composting Centres (OCCs) are operational at present for the treatment of wet waste. Further 527 windrows composting plants are also being operated. There is one operation biogas plant and further such units are in various state

3.32 Telangana

There are 142 Urban Local Bodies (ULBS) existing in Telangana State. The total waste generation is 11,057 TPD from these ULBS and 11,057 TPD is collected every day. A total of 8611 TPD is treated and 1011 TPD is going to landfill and remaining is disposed on the open landfill.

House to House collection of MSW has been started in all the local bodies in the State. As per the information furnished by the Commissioner & Director of Municipal Administration 100% of households are covered under door to door collection. 63% of households in the State are covered under source segregation. MSW is transported in covered vehicles and trucks. Greater Hyderabad Municipal Corporation (GHMC) has now introduced compactors for collection and transportation from the secondary transfer stations.

229 Compost plant have been established in 142 Municipalities. DRCC have been established in 142 Municipalities. There is one operation Waste to Energy Plant in Jawaharnagar, with a power generation of 24 MW. Apart from this there are six other waste to energy plant at various stages of operation.

The Greater Hyderabad Municipal Corporation (GHMC) has constructed the sanitary landfill facility and operating the same. There are a total of 151 dumpsites in the state of which one dumpsite has been reclaimed.

3.33 Tripura

There is a total of 20 ULBs responsible for implementation of the SWM Rules, 2016, in the State. It comprises of 1 Municipal Corporation, 14 Municipal Council and 5 Nagar Panchayats. Total solid waste generated in the State is 333 TPD, out of which 322 TPD is collected, 220 TPD is collected and 15 TPD is landfilled. Good practices have been initiated in 07 towns/cities,

Door to door collection is being practiced in 334 wards in 20 ULBs. Segregation, storage and covered transpiration is being practiced in all 20 ULBs.

05 (five) ULBs namely Agartala, Mohanpur, Bishalgarh, Ranirbazar and Jirania are using Debendra Chandra Nagar Processing site for treatment and disposal of solid waste. 1 (one) ULB namely Kamalpur have 6 TPD capacity processing site for treatment and disposal of solid waste. Remaining 14 ULBs have identified landfill sites for treatment and disposal of solid waste. 6 (six) ULBs namely Agartala, Mohanpur, Bishalgarh, Ranirbazar, Kamalpur and Jirania have constructed landfills. 2 landfill sites (Agartala MC & Kamalpur MC) are in operation. 01 no. of landfill has been exhausted and capped respectively. There a 14 number of existing dumpsite in the State.

3.34 Uttarakhand

There is a total of 100 ULBs in the state. Total solid waste generation in the State is 1585 TPD, out of which 1452 TPD is collected and 1050 is treated while 115 TPD of waste is landfilled. Good practices are implemented in the towns of Dehradun and Haridwar.

Door to door waste collection is initiated in all 1152 wards. Source segregation of waste is being carried out in 1041 wards. There are two composting facilities operational in the State in Dehradun (30 TPD) and Haridwar (50 TPD). 2 landfill sites have been constructed and are in operation (Nagar Nigam Dehradun 60 TPD capacity and Nagar Nigam Haridwar with 35 TPD capacity). Total number of existing dumpsites in the States are 30.

3.35 Uttar Pradesh

There are 734 ULBs in Uttar Pradesh, which are responsible for management of solid waste in the State. All the 734 ULBs of the State have been certified as Open Defecation Free (ODF), 495 ULBs have been certified as ODF and 40 as ODF+.

Total Solid Waste Generation is 14,710 TPD, Of the total waste generated 7321 TPD of waste is treated and 4389 TPD is landfilled and 100 % of the waste is collected. Door to Door collection is done in all Wards 100%. All the 17 Nagar Nigam have Vehicle Tracking System (VTS) Installed and GPS in enabled vehicles are being used.

3.36 West Bengal

A total of 128 ULBs are responsible for MSW management in the State. There are 56 Nos. Class-I Towns and 33 Nos. of Class –II towns in the State. Total Solid Waste generation in the State is around 13,709 TPD, of which 13,687 TPD of waste is collected, 3047 TPD is treated and 1187 TPD is landfilled.

125 of the 128 ULBs have door to door collection system. Segregation of waste is implemented in 88 ULBs, and 88 ULBs are transporting waste in covered vehicles. There exist 62 compost plants with capacity 3024 TPD, covering 67 ULBs. A total of 107 dumpsite exists in the state, out of which bio-mining has commenced in 89 no. of dumpsites while 05 dumpsites have been cleared.

4.0 BEST PRACTICES IN SOLID WASTE MANAGEMENT

The best practices as reported by the SPCBs/PCCs in their Annual Report is summarized in table below:

Table 10: Best Practices as reported by SPCBs/ PCCs

Sl. No	State	Best Practice
1.	Andaman & Nicobar Island	<ul style="list-style-type: none"> 100% of solid waste is collected in segregated form at Source. 02 bins of capacity 10-12 litres green and blue in colour for wet & dry waste distributed to all households for segregation at source. 01 bin of capacity 30-50 litres for dry/wet waste distributed to commercial/other establishments. Removed community bins and installed litter bins at public places to achieve city status as Bin-less under Garbage Free City Protocol under Swachh Bharat Mission (Urban) of Ministry of Housing & Urban Affairs. Streets are swept once in residential areas and twice in commercial areas. Spot fine imposed on littering.
2.	Andhra Pradesh	<ul style="list-style-type: none"> Compost produced is being sold to Farmers by Processing Plant Developers & in ULB operated Plants, Compost is being used in Parks, Greenery in Central Medians, Avenue Plantation etc. CNG gas produced is being sold to the Commercial establishments like Hotels, Restaurants etc.,
3.	Arunachal Pradesh	<ul style="list-style-type: none"> Compost bins at household level for processing wet waste at individual level in Basar district. Itanagar Municipal Corporation has initiated C/o solid waste treatment plant in 2 (two) locations namely Karsingsa and Dapo Yarlo to be funded under 14th and 15th Finance Commission Grants.
4.	Chandigarh	<ul style="list-style-type: none"> Waste collected from vegetable, fruit, flower, meat, poultry and fish market treated in bio-methanation plant. All the bulk waste generators are practicing onsite composting of their wet waste.
5.	Chhattisgarh	<ul style="list-style-type: none"> Solid waste management in 167 ULBs of the State is based on the waste management model (Mission Clean City) currently running successfully in Ambikapur. These Municipal Authorities have collection and transportation facilities for solid waste management. The source segregated MSW is collected by SHG workers by tricycles and Mini tippers.
6.	Delhi	<ul style="list-style-type: none"> Local Bodies are implementing waste segregation at source, door to door collection, intermediate storage and transport facility with GPS for the transportation of the

Sl. No	State	Best Practice
		collected solid waste to the operational Solid Waste Processing/Treatment Facilities or at the 3 existing Landfill/Dumpsites at Bhalaswa, Ghazipur & Okhla in Delhi.
7.	Haryana	<ul style="list-style-type: none"> • As part of the decentralized processing approach presently around 2800 Compost pits including park pits have been constructed across all the ULBs Also 88 Material Recovery Facilities have been set up and the target is to reach 91 MRF, within a span of next 3 months with each ULB having at-least 1(One) MRF Apart from setting up Compost pits, Vermi Composting facility, Bio-methanation plant, windrow composting at existing dumpsite is being currently practiced. Also, in Karnal city alone approx. 2000 Household composting pits have been recorded. • Government of Haryana has adopted cluster based integrated approach for Solid Waste Management. The Integrated Centralized Waste Processing Approach (Cluster Wise) is being adopted as a long-term approach within an overall objective to setup regional Waste to Energy & Waste to Compost + RDF processing facilities and Secured Sanitary landfills for scientific disposal of Solid Waste. Total 13 Cluster have been formed covering all the ULBs. Two (2) Clusters are Waste to Energy having average solid waste quantum more than 500 TPD and remaining Eleven (11) are Open technology cluster.
8.	Himachal Pradesh	<ul style="list-style-type: none"> • Door to door collection is practiced in all local bodies • The segregation at source ranges is 80 to 100 % across the state • Covered vehicles is used for transportation of waste by most local bodies
9.	J&K	<p>Jammu Division:</p> <ul style="list-style-type: none"> • A Bailing Machine has been installed in Municipal Council Udhampur at Sui-chakar for scientific disposal of segregated plastic waste. • In three Municipal councils / Committee of Doda, Bharderwah and Sunderbani vermin-composting plants have been setup for composting of wet waste. • Material Recovery Facility (MRF) at Katra Town with bio-composter (Demo machine installed through JKPC) setup recently.

Sl. No	State	Best Practice
10.	Jharkhand	<ul style="list-style-type: none"> • Audio related to source segregation and sanitation is played regularly on the waste collection vehicles. • Concessionaire pastes green sticker on the household which gives segregated waste & red sticker which gives mixed waste. • Transportation of wastes in Covered Vehicle is being done. Bulk Garbage generators (BGGs) have been identified in all ULBS. • Creating green belt around the SLF and processing Plant site provision is being incorporated in the DPRS and it is done by the concessionaires of SWM Projects.
11.	Kerala	<ul style="list-style-type: none"> • Windrow composting, Vermi composting, aerobin, biogas plants, kitchen bins, bio composter, Biobins, pipe compost, ring compost, compost pits, Material Collection facilities, Resource. Material collection and recovery facilities are provided.
12.	Karnataka	<ul style="list-style-type: none"> • 100 % door to door collection of MSW has been achieved.
13.	Ladakh	<ul style="list-style-type: none"> • 100% door to door collection of segregated waste is being done in Leh and 80% in Kargil. Wastes are also collected from non- residential premises including commercial establishments, hotels, restaurants, educational institutions /offices
14.	Lakshadweep	<ul style="list-style-type: none"> • The UT of Lakshadweep Administration has provided blue and green bins to each household of Kavaratti island to get segregated bio degradable and non-biodegradable wastes from each household. • In addition, it is also placed red coloured bins to collect napkins from Kavaratti and Agatti islands in the 1st stage
15.	Madhya Pradesh	<ul style="list-style-type: none"> • Madhya Pradesh was ranked 3rd best Performing State in >100 ULBs category in Swachh Survekshan2021. • 20+ town are among the top 100 cleanest cities in the country in last three Swachh Survekshan. • Indore has been declared the cleanest city of the country for last 05 years. • 9 cities are certified "3 Star Garbage Free City". • 17 cities are certified as '1 Star Garbage free City'

Sl. No	State	Best Practice
16.	Maharashtra	<ul style="list-style-type: none"> • Board has developed web portal for ULBs for monitoring of daily and monthly data for solid waste management. • Board has initiated concept of providing financial and technical assistance to Municipal Councils and Nagar Panchayats for setting up solid waste management facilities. • Board has prepared model tender document on SWM for ULBs • Board has issued environmental compensation notices to 168 and 114 local bodies with respect to solid waste management and legacy waste management respectively.
17.	Manipur	<ul style="list-style-type: none"> • Backyard composting is practiced by interested households in many urban localities. Landfill and dumpsites are fenced and provided with lighting facility in all major ULBs.
18.	Mizoram	<ul style="list-style-type: none"> • Training was conducted for waste pickers collectors & workers throughout the year. • Awareness through public notice, cleanliness drive, cleanliness campaign, mass media awareness, radio jingles, short play on local cable network and YouTube, workshop, social media, hoarding board, newspaper, social work, wall painting has been carried out. Competition is organized for various age groups, NGO's and village councils. • Local Sanitation Committee and Local Swachh Bharat Ambassadors were appointed in every District capital. • Home composting was organised for MHIP Committee member in Mamit district. Vermi composting is promoted and practised by few families in Hnahthial. Pilot project in vermi composting adopted at Waste Resource Centre Herom, Khawzawl in convergence with KVK, Khawzawl. Promotions on wet waste home composting is conducted in Biate, Serchhip and Saitual
19.	Nagaland	<ul style="list-style-type: none"> • In Kohima, KMC have decentralized waste management in all the 19 wards/colonies and have formed 19 wards sanitation committees for primary waste management and collection. It has declared community bins free in all the 19 wards. • In Dimapur, The DMC is treating the existing dumpsite through bioremediation process to alleviate the impact of waste. • In Mon, compress solid waste like bulk waste, plastic waste etc. are sent for recycling and composting of wet waste at home by using urea chemical. • Plastic banks, Mobile storage bins for every households for proper and effective collection and disposal in Peren.

Sl. No	State	Best Practice
		<ul style="list-style-type: none"> Chumukedima Town Council collects and transports the waste to the Material Recovery Facility (MRF) and the unsegregated waste are further being segregated and only rejects are being disposed. Bhandari Town Council has initiated one club with a vision to make Bhandari a Zero Waste Management town by the year 2022. The club members will voluntarily conduct awareness and sensitization program at the ward level and also door to door to teach about the SWM and to keep the town clean at all times. This initiative will propel the enthusiasm of the local people who love the town and with this the people will develop the consciousness that the town belongs to them and it is their responsibility to keep their surroundings clean. Plastic bank, food bank, community engagement in solid waste management, regular public sensitization program on solid waste management in Pfutsero.
20.	Odisha	<ul style="list-style-type: none"> House to house collection is done in all local bodies Daily collection of waste is being done by all local bodies Collection bins have been provided Segregation of waste is being done by all local bodies
21.	Pondicherry	<ul style="list-style-type: none"> 100% door to door collection → Material Recovery Facility (MRF) – 4 TPD has been set up at Dubrayapet, Pondicherry Municipality under CSR funds. It is being replicated in other Municipalities. In Pondicherry Municipality as pilot project, through Recity 19 wards so far, covered under QR code. So far, 18498 Property units are covered and geo-tagged under QR code. It ensures 100% segregation at source, collection, processing and to reach final disposal site. The same QR code system is being replicated in Yanam Municipality.
22.	Punjab	<ul style="list-style-type: none"> The Department of Local Govt. has adopted decentralized approach for Solid Waste Management in the State. Source segregation, door to door collection, transportation of segregated waste to processing site/ composting pits, processing of wet waste at composting pits/bio-methanization, transportation of dry waste to MRF facility for further segregation of recyclable waste and channelization and final disposal of inerts in sanitary land fill facility are key highlights of this decentralized approach.
23.	Sikkim	<ul style="list-style-type: none"> Collection of waste by ringing of bell in all the towns.
24.	Tamil Nadu	<ul style="list-style-type: none"> ULBs are adopting Micro Compost Centre (MCC) methodology for composting, in which the leachate generated is recycled. A total of 54 MCC has been established in 13 ULBs. Home composting, Biomethanation, Bio digesters, Onsite Compost Centre (OCC), Micro Compost Centre (MCC)

Sl. No	State	Best Practice
		and co-processing in cement plants are some of the methods adopted by 14 ULBs for processing of solid waste.
25.	Telangana	<ul style="list-style-type: none"> • Biomining and Processing of legacy waste for 123 ULBS grouped into 09 clusters. • Work order has been given to 07 bidders on 25.02.2022 for commencement of work in ULBs. Work already commenced at GWMC, Karimnagar, Bhongir, Suryapet, Dundigal and Ameenpur ULBS and around 1,18,639 MTs of legacy waste has been processed. • 123 ULBS commenced bio-mining.
26.	Tripura	<ul style="list-style-type: none"> • House to house collection is being done by all 20 ULBs • Segregation is done in all 20 ULBs • Cover transportation is utilized by all local bodies
27.	Uttarakhand	<ul style="list-style-type: none"> • Door to door collection is carried out in all 1152 wards • Source segregation in 1041 wards
28.	Uttar Pradesh	<ul style="list-style-type: none"> • For effective monitoring and use of IT application regarding bio-metric attendance and vehicle tracking system, the initiative has been taken in most of the corporations in the state. At present, all 17 Nagar Nigams, are enabled with Vehicle Tracking System (VTS) application in vehicles.
<p>Note: - Information on good practices has not been submitted by Goa, Gujarat, Rajasthan, and West Bengal. However, the same has been extracted from the submitted Annual reports.</p>		

5.0 OBSERVATIONS & RECOMMENDATIONS

(a) Overall Solid Waste Management

- i The total quantity of Solid waste generated in the country is 1,70,339 TPD out of which 1,56,449 TPD of waste is collected which translates to an overall collection efficiency of 92%. The quantum of waste processed and treated is 91,511 TPD (54%) and 41,455 TPD (24%) is landfilled. 37,373 TPD which is 22% of the total waste generated remains unaccounted.
- ii 14 State/UTs have provision for 100% collection of waste, which are Andaman and Nicobar Islands, Andhra Pradesh, Chandigarh, Chhattisgarh, Goa, Delhi, Jammu and Kashmir, Jharkhand, Karnataka, Maharashtra, Sikkim, Telangana, Uttar Pradesh and Uttarakhand. Five states/ union territories practice 100% segregation at source, which are Andaman and Nicobar Island, Chhattisgarh, Lakshadweep, Odisha and Tripura.
- iii The average treatment and processing of waste is 54% and a total of 16 states/ union territories have treatment/ processing capacity of more than the national average. These states and union territories are Andaman and Nicobar Islands, Chhattisgarh, Dadar Nagar Haveli and Daman Diu, Goa, Gujarat, Himachal Pradesh, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Mizoram, Odisha, Telangana, Tripura and Uttarakhand.
- iv Composting and vermicomposting are the most widely used system for management of organic wastes. Biomethanation and biogas plants are also used for the management of organic waste across the country.
- v There are only 645 landfills in operation and the total number of existing dumpsites in the country is 2,452.

(b) Issues & concerns

- i. **Gaps in SWM:** The overall collection of waste is only 92% which implies that 8% of the total waste is not collected. Further, the gap in solid waste management is 22% of the total waste generated. The net quantum of the gap is 37,373 TPD. Gaps in solid waste management refers to those wastes which are neither processed/ treated nor disposed through secured landfill. Urgent attention at all levels such as the local authorities, district administration, the state departments, etc. is required to manage the gap in the waste management system.

- ii. **State-to State variation in SWM:** The national average for the processing and treatment of waste is 54%. However, efficiency of solid waste management varies significantly across the states and union territories. There are 16 states and union territories with gap less than 10 % of their total generation. On the other hand, there are also 16 states and union territories with a gap of over 20% of their total generation. Further, in term of processing and treatment of waste, there are 8 states and union territories with a processing capacity of over 80% of their total waste generation. On the other hand, there are also 8 states and union territories with treatment capacities of less than 25% of their total waste generation.
- iii. **State Performance:** The performance of some of the states/ union territories require immediate attention in terms of processing and treatment of waste. The state of Nagaland has no dedicated facilities for the treatment/ processing of wastes. In the state of Arunachal Pradesh, the percentage of waste processed or treated is less than 4% of the total waste generation. In Chandigarh, about 90% of their waste is disposed through sanitary landfill.
- iv. **Technology Adoption for SWM:** The adoption of technology for the management of waste is an issue of concern. Out of the 8 north eastern states, biogas plants have been reported in Assam and Mizoram only, whereas there is no biogas plant in the remaining six north eastern states (Arunachal Pradesh, Manipur, Mizoram, Meghalaya, Nagaland, Sikkim and Tripura). Furthermore, the processing and treatment of waste is limited largely to composting and vermicomposting in these states. Technology such as RDF plants, Waste to Energy, etc, are yet to be adopted by these states.
- v. **Disposal through Sanitary Landfills and Dumpsites:** The ratio of dumpsites to sanitary landfill is in excess of 3 indicating that the number of dumpsites is three times the number of sanitary landfills. It is seen that many states/UTs still do not have any landfill sites. It is also noted that only 366 out of 2452 dumpsites have been reclaimed and another 27 have been converted to sanitary landfills. The disposal of waste through open dumpsite is not a recognized system as per the Solid Waste Management Rules, 2016. Considering these issues, it is remarked that there is an urgent to address the issue of disposal of wastes through dumpsites.
- vi. **Quality of information reported by SPCBs/PCC:** Incomplete and in some instances inconsistent data on SWM is being reported by SPCBs/PCCs. Assessment of the

ground realities and subsequently, the development of strategies to address issues, is not possible without accurate data.

(a) Recommendations

- i. **Collection of Solid Waste** As per the Rule 15(b) of the Solid Waste Management Rules, 2016 the responsibility of collection of solid wastes lies with the local bodies. Therefore, the local bodies have to expedite the development of infrastructure for ensuring 100% collection of waste.
- ii. **Gaps in Solid Waste Management:** As per Rule 15(v) the responsibility for construction, operation and maintenance of solid waste processing facilities lies with the local authorities. The local bodies need to expedite the development of infrastructure for the processing/ treatment and the final disposal of solid wastes. Further, adoption of technologies such as incineration, waste to energy, biogas plants, etc should be expedited.
- iii. **Disposal in dumpsite:** Disposal of waste through open dumpsite is not an approved system. Local bodies along with the state government should introduce systems which will ensure processing/treatment and disposal through approved system while also reclaiming the areas under the existing dumpsites.
- iv. **Enforcement and Compliance Monitoring:** The overall responsibility of enforcing the Rules lies with the SPCBs/ PCCs as per Clause 16(1)(a) of the Solid Waste Management Rules, 2016. SPCBs/ PCCs should follow stringent mechanism to review the implementation of provisions of the Rules. Periodic review with District Administration/ State Urban Department should be conducted in accordance with provision of the said clause of the Solid Waste Management Rules, 2016.

These authorities need to intensify environmental monitoring around waste management facilities as mandated in Rule 16(4) of the Solid Waste Management Rules, 2016. This will ensure that the facilities are operated as per the stipulated norms.

- v. **Data validation by SPCBs/ PCCs:** To gauge the actual scenario of the status of solid waste management, the data submitted by SPCBs/ PCCs have to be complete and accurate. As such, there is a need to validate the data submitted by the local authorities to ensure its authenticity & consistency prior to submitting to CPCB. This could be done through random inspection, cross - checking of data or any other mechanism found suitable for the purpose.