

1. INTRODUCTION

- Key Words: * SWM (Solid Waste Management)
* SWM Rule (Solid Wastes Management Rules, 2016)
* ULBs (Urban Local Bodies)
* MC (Municipal Council)
* SPCBs (State Pollution Control Boards)
* PCCs (Pollution Control Committees)

ANNUAL REPORT AS PER MSW RULES, 2016

2. Background:

In accordance with the Provision 24 (4) of the Solid Wastes Management Rules, 2016, the Central Pollution Control Board (CPCB) is required to prepare a Consolidated Annual Report (CAR) and forward to the Central Government (Ministry of Environment, Forests and Climate Change) along with suggestions/recommendations before **31st day of August** every year. As per census of India 2011, there are 475 places with 981 overgrowths (OGs) have been identified as Urban Agglomeration (UA). The number of total towns in India is 7,935 (Statutory Towns 4,041 + Census Towns 3,894). There are total 6,166 Urban Agglomeration/towns which constitutes the urban frame of the country. During FY 2017-2018, out of 35 SPCBs/PCCs only **16 SPCBs/ PCCs** reported the status of Solid Waste Management Rules, 2016. Summary of total waste generated, treated & disposed is given at **Annexure-I**.

3. Implementation of Schedule-I [Rule 15 (w), (zi), 16 (1) (b) (e), 16 (4)]

- Efforts are being made by many Local Bodies for creating awareness among the citizens for ensuring proper management of waste including systematization of procedures relating to collection, segregation, storage and transportation of wastes. However, such efforts are either restricted to a few localities/wards within a town and a few of ULBs have taken up such efforts at entire town level.
- Some of the Local Bodies have established waste collection, segregation, storage and transportation of MSW. Local Bodies implemented door to door collection system through tricycles and mini tippers etc., segregation at the source and composting and recycling facilities.
- Cleanliness varies from town-to-town depending on the initiatives taken by Local Bodies. It has been observed that collection of house hold waste from door to door is not done in majority of municipalities. Besides, regular sweeping, removal of garbage and covered transportation are being done on regular basis.
- In majority of cities/town, mixed MSW is collected and dumped on dumpsites, along roadsites, open drains etc.

4. Implementation of Schedule-II [Rule 16 (1), (b), (e), 16 (4)]

- Efforts are being made for processing of bio-degradable waste like vermin-composting, biogas plant and waste to energy plant etc. State-wise information on existing/proposed waste processing plants or where some initiatives have been taken is given at **Annexure-III & V**.

- Monitoring of ground water and ambient air around the landfill/waste processing sites are not encouraging as reported by SPCBs / PCCs. The data revealed that most of the states are not complying the **Schedule-II** of the Solid Waste Management Rules, 2016.
- There 21 Landfill sites have been constructed for disposal of waste and 38 Landfill sites are under construction. As reported, some of the landfills are common facility for two or more municipalities. The details of landfill facilities are given at **Annexure-IV**.
- It is seen that Waste to Energy projects are not being preferred by most of the local bodies. Waste-to-Energy projects. State wise list of the Waste to Energy Plants installed and proposed are given at **Annexure-V**.

5. Observations/ Findings

During 2017-2018, out of 35 SPCBs / PCCs, only 16 SPCBs/PCCs have submitted Annual Reports in prescribed format (Last date is 31.07.2018).Based on annual reports received from 16 SPCB/PCCs, observations on implementation of SWM Rules, 2016 are given below:

5.1 Arunachal Pradesh :

There are **17 (Seventeen) Urban Divisions and 2 (two) Municipal Councils** in the State. However, Annual reports for management of solid waste for 2017 -2018 has been received from 8 Urban Divisions Viz Tawang Urban Division , Khosa Urban Division , Changlang Urban Division, Roing Urban Division, Aalo Urban Division and Yingkiong Urban Division, Namsai Urban Division, Bomdila Urban Division and one Municipal Council viz.Pasighat Municipal Council. None of the Municipal Authority has developed/setup waste processing, treatment and disposal facility including sanitary landfills so far and no such proposal have been submitted by the urban division for establishment of such facility. Total solid waste generated in the State from 8 Urban Local Bodies is 203.96 TPD and collected 166.82 TPD. Besides, good practices like door to door to collection, segregation at the source, secondary storage is initiated by some of the ULBs. The compliance of implementation of MSW Rules, 2016, is not satisfactory.

5.2 Bihar :

In Bihar, **143 ULBs** (12 Corporations, 45 Municipal Council and 86 Nagar Panchayats) are responsible for MSW management. State Policy and Solid Waste Management strategy for the State has been prepared by Urban Development & Housing Department, Govt. of Bihar. State Level Advisory Body (SLAB) has been constituted under Solid Waste Management Rules, 2016. UD &HD, Govt. of Bihar is in the process of Notification of Bye- laws for effective implementation of provisions of SWM Rules, 2016.Total house-hold waste generated based on the assessment of 5 people per household is 2272 TPD reported. Good Practices like door to door to collection has been reported in 2623 wards, out of 3337 wards. Source segregation started in 437 wards, out of 833 wards. Transportation of waste in covered transport vehicles is partially implemented. Some of the Corporation like Muzaffarpur, Munger and Bodhgaya Nagar Panchayathave started decentralized

composting. 16 ULBs have identified land for development of Sanitary Landfill Facility and other ULBs are in process of identification of land. Patna Municipal Corporation is in process of development /setting up the processing of disposal facility of MSW (100 TPD) including landfill site at Bairla Dist–Patna. Bihar Pollution Control Board has granted authorization for same during December, 2013. The Urban Department, Govt. of Bihar has prepared Action Plan for MSW Management in the State. Total 23 landfill sites have been identified for 23 clusters of towns comprising of 3 to 10 towns in each cluster for disposal of MSW after its segregation and processing.

5.3 Gujarat:

There are **170 ULBs** are responsible for MSW management in the State. Total Solid Waste collection in Gujarat is 11119 TPD, out of which 1127 TPD of waste is treated and 9992 TPD of waste is landfilled/dumped. There are 95 Vermi-compost plants, 01 Biogas and 3 RDF have been set up in the State. It is reported that 29 Regional/Individual landfill sites are identified, 21 Landfill under planning state and 11 Landfill sites are constructed. There are 170 dumpsites present in the State. About 98% door to door collection of mixed MSW has been reported, however, segregation of house-hold waste is not done. The status of implementation of MSW rules in the State is not satisfactory.

5.4 Madhya Pradesh :

There are **378 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 about 7212 TPD, out of which 6537 TPD waste is collected and 2272.5 TPD is treated & rest is 4264.5 TPD is landfilled. It is reported that there are 256 landfill sites present and 3 landfill sites are under construction. There are 377 dumpsites are existing in the State and 06 dumpsites have been converted to Sanitary Landfill. Good practices like door to door collection are being complied by 108 ULBs and remaining 147 ULBs are partially complying the good practices. Segregation of waste is done in 133 ULBs only. In Madhya Pradesh, 217 ULBs have storage facility and practicing covered transportation of waste. 31 towns are having composting facilities, which are operational, 15 towns are having vermi-compositing facilities, which are operational. One Biogas plant installed at Bhopal having 15 TPD capacity, one Refused Derived Plant (RDF) is installed at Ujjain having capacity of 25 TPD and one waste to energy plant having capacity 462 TPD is installed in Jabalpur.

5.5 Meghalaya:

In the State of Meghalaya, there are total **07 Local Bodies** responsible for management of solid waste. About 210 TPD of solid waste is generated in the State as reported, out of which 175 of MSW is collected, nearly 36 TPD is treated and 139 TPD is landfilled. Good Practices like door to door collection, segregation and transportation has been initiated by Shillong Municipal Board and has provided colored bins (green & blue), green for wet waste (biodegradable) and blue for non-biodegradable (dry) waste through an ADB funded project. About 60% compliance of segregation of waste at household level has been observed. Daily collection of garbage is being done from community dustbins and door-to-door collection. To control the unregulated throwing of waste, 200 bamboo dustbins, 30 hanging dustbins and

sign boards for prohibition of throwing are being installed and displayed, to bring public awareness and public participation. Vermi-compost plant has been constructed at Tura Municipal Board dumping ground at Rongkhon Songgital. As reported only one landfill site is identified under Jowai Municipal Board.

5.6 Nagaland:

There are total **32 ULBs** responsible for implementation of the Solid Waste Management Rules, 2016, in the State. It is estimated that about 348 TPD of solid waste is generated daily, out of which only 252 TPD is collected. As reported, door to door collection of solid waste is implemented on trial basis in some wards of Kohima, Dimapur, Mokochung and Mon towns. The vehicles used for transportation of wastes by most of the Municipal/Town Councils are not covered, except in Kohima Municipal Council. As reported all the municipal wastes collected are disposed off at open dumping site maintained by the Municipal/Town Council. Under Kohima Municipal Council a scientific landfill is being set up at Lerie.

5.7 Orissa :

There are total **114 ULBs** are responsible for implementation of the MSW Rules, 2016 in the State. However, only 19 ULBs have submitted annual report to Pollution Control Board. The estimated waste generation in nineteen ULBs is 539.44 **TPD**, out of which 471.58TPD is collected. There is no sanitary landfill in the State and dumping of MSW is being practiced. Only, 01 ULBs applied for authorization/renewal this year, however, two authorization has been granted and one authorization under process. For implementation of Schedule-II, the Government took initiatives for compliance of the SWM Rules, 2016. Action plans based on ULBs, local requirements and size of the ULBs are under preparation. Practice like door to door collection has been initiated, however, segregation of waste at source is lacking. The status of implementation of MSW rules in the State is not satisfactory.

5.8 Sikkim:

There are **07 ULBs** in the State of Sikkim. It is estimated that total waste generation in the State is 73.34 TPD and about 63.00 TPD of waste is being collected. Out of which, 7.5 TPD is treated. Door to door collection of segregated waste is being currently initiated in all the ULBs of Sikkim through garbage collection vehicle. Gangtok Municipal Corporation (GMC) has placed bins for tourists in main market area and segregation bins for wet & dry waste provided in most of the wards. One composting unit has been installed at Khangchebdzonga vegetable market to convert vegetable waste to compost. It is reported that a compost plant of capacity 50TPD is in operation at Martam Landfill site. There are two dumpsites sites exists one at Martam and another in SIPSU.

5.9 Tripura:

There are total **20 ULBs** responsible for implementation of the SWM Rules, 2016, in the State (Municipal Corporation-1, Municipal Council-14 & Nagar Panchayat- 05). Total Solid Waste collected in the State is about 379.2 MTPD, out of which 148.4 MTPD is treated and 224.1TPD is landfilled. Good practices have been initiated in 03 towns, door to door collection is being practiced in 12 Wards in Udaipur, in 15 wards in Kailasaharand in all

wards of Kamalpur, Khowai MC and of Agartala Municipal Corporation. It is reported that waste is being transported in the covered vehicles in 5 Nagar Panchayats and 14 municipal councils. Segregation of waste into wet and dry waste is being carried out in Agartala Municipal Corporation. 17 ULBs have identified their respective Landfill sites for disposal of MSW. There are total 17 dumpsites exists in the State.

5.10 Jammu & Kashmir:

Jammu & Kashmir is divided into two divisions, in Kashmir Division total **42 Urban Local Bodies** are present and in Jammu Division, **78 Urban Local Bodies** are responsible for MSW management. Total waste generated in Kashmir division is 930.60 TPD, out of which 833.30 TPD is collected. In Jammu Division, total waste generated is 666.68 TPD, out of which 617.83 TPD is collected. Under Kashmir Division, 80% Door to door collection and 90% from non – residential complexes like Hotels etc. is practiced. Storage is generally in open spaces like low lying areas. Waste transported mostly in covered containers. Construction and demolition waste is separately collected and disposed. No point source segregation of waste is being carried out. Facility related to processing of waste is available with Srinagar Municipal Corporation, which include landfilling, mechanical segregator, composting and leachate treatment plant.

In Jammu division, door to door collection is carried out in few Local Bodies. There is one Vermi-composting unit at sunderbanione each at Bhaderwah & Doda. Segregation of waste at source is implemented by MC, Reasi MC, Katra and Cantonment Board only. Municipal Solid Waste transported mostly in the open containers. There is no authorized landfill site in operation till now in Jammu Division except for open dumping. Disposal of waste is being carried out in unscientific manner on open unused lands or hill slopes. The status of the implementation of MSW Rules, 2016 in the State is not satisfactorily.

5.11 Chattisgarh:

There are total **166 ULBs** responsible for implementation of the SWM Rules, 2016, in the State. Total Solid Waste collected in the State is about 2000 TPD, out of which 1680 TPD is collected, 1411.2 is treated. Solid waste management in 166 ULBs of the State is based on the waste management model (Mission Clean City) currently running successfully in Ambikapur. These Municipal Authorities have collection, segregation and transportation facilities for solid waste management. The source segregated MSW is collected by SHG workers by tricycles and Mini tippers. These 166 Municipal Authorities have Garbage Clinic (Solid Liquid Resource Management Centers) for secondary segregation of MSW and also these are operating their own composting plant. Municipal Corporation, Raipur has obtained Environment Clearance for processing and disposal of Integrated City Sanitation and Municipal Solid Waste Management project at Village-Sakri. Municipal Corporation Bilaspur, has obtained Consent to establish on 23.11.2017 to establish waste to RDF plant. Construction of the plant is completed. The process of getting consent to operate is in progress

5.12 Uttarakhand:

There are total **101 ULBs** responsible for implementation of the SWM, Rules, 2016, in the State. Total solid waste generated in the State is about 1099 TPD, out of which 1099 TPD is

collected. Nagar Nigam Haridwar has obtained Environment Clearance, consent to establish for composting and sanitary landfill site & consent to operate for composting. Nagar Nigam Dehradun has obtained Environment Clearance and consent to establish for waste processing and disposal facility. Nagar Palika Parishad Kiccha has submitted the project report on solid waste management. Waste collection is being carried out by most of the ULBs; however, segregation of waste is partially adopted. The site for the disposal of the inert waste is being developed at Haridwar, Dehradun. There are two composting and 01 Vermi composting facility setup in the state. Two dumpsites present in the State is reported by the SPCB.

5.13 Chandigarh

There is 01 ULBs responsible for implementation of the SWM, Rules, 2016, in the State. Total solid waste generated in the State is about 500 TPD, out of which 463 TPD is collected, 142.87 is treated and 319.68 TPD is landfilled. The municipal corporation, Chandigarh has started segregation of waste in 21 wards (out of 26 wards). State level Advisory Board (SLAB) has been constituted by municipal corporation, Chandigarh. Also Bye Laws have been notified by MCC. 12 liters capacity bins (Blue & Green) has distributed free of cost to all the households of Chandigarh and segregation of waste has been started in 21 wards (out of 26 wards). Municipal Corporation is using dumpers, tractors, trolleys; trippers for transportation of MSW to the garbage processing plant set up by M/s Jai Prakash Associates where they process the municipal solid waste to produce Refuse Derived fuel (RDF) and compost. With the intervention of Hon'ble NGT, one compost plant of 300 TPD capacity has been installed by M/s Jai Prakash associates which is operational.

5.14 Kerala

In Kerala, there are 93 Municipal Authorities responsible for MSW management. Total 3831.553 TPD of MSW estimated to be generated in the state. There are Material Collection facilities, resource Recovery units, Biogas Plants, Aerobic Composting Units and windrows have been established. There 768 numbers of Composting, 41 Vermi- composting and 79 Nos. Biogas plants set at community level. There is only one Landfill site in operation and total 10 dumpsites has been reported. It is informed that 87 Municipalities has prepared the Action plan. There is no step taken regarding monitoring of Ground water and ambient Air around the Landfill site.

5.15 Tamil Nadu:

There are 12 Corporations, 124 Municipalities and 528 Town panchayats in the State of Tamil Nadu. The Total quantity of Solid waste generation is 15176.612 Tons/days as reported by the local bodies out of which 14568.333 Tons/day ken regarding monitoring of Ground water and Ambient Air around the Landfill site.

of municipal solid waste is being collected and 5307.146 Tons day of Solid waste is treated and 7286.621 Tons/ day of municipal solid waste is landfilled in the landfill sites located in the state of Tamil Nadu. So far 162 applications for authorization have been received, 124 authorization issued and 38 applications seeking authorization is under scrutiny. The urban local bodies at several places have organized collection of MSW by house to house collection, by using collection bins, compactor bins, lorries using dust bins, etc. The

Municipal Solid waste is being processed through aerobic composting by windrow method in Madurai, Coimbatore, Erode, Tiruchirappalli Corporations, Pammal , Udumalpet , Tiruchengode, Pollachi, Mettupalayam, coonoor, Sikazhi, Mannargudi, Manapparai Municipalities and in maximum Town Panchayats. Vermicomposting is also taken by the Municipalities and town Panchayats where ever feasible. There are 131 number of landfill sites have been identified , 6 landfills have been constructed , 20 landfill are under construction , 4 landfills are under operation , one landfill been exhausted and one landfill has been capped. Nearly 635 dumpsites are in existence in the state of Tamil Nadu, out of which 3 dumpsites have been reclaimed and 17 dumpsites have been converted to Sanitary landfill. Monitoring of ambient air, ground water, leachate quality and compost quality are monitored in Madurai Corporation Solid Waste Processing and Disposal facility and in Kadungaiyur dumping site.

5.16 Telangana:

There are 73 Urban Local Bodies (ULBs) existing in Telangana State and among them, 12 Nos are Class-I Municipalities about 7804 MTD TPD of Municipal Solid Waste (MSW) is being generated from these ULBs and about 7023 TPD is collected every day, 4795 TPD is treated , 593 is going to landfill and remaining is disposed in the open Landfill The TSPCB is constantly. The TSPCB is constantly pursuing the ULBs to set up solid waste processing and Landfill facilities for disposal of Solid waste as per the criteria laid in MSW Rules, 2016. There are two RDF Plants of 1200 TPD capacity each and three compost plants each of 680 TPD capacity. Composting / vermin composting plants are established in following areas Bhongir, Siddipet, Jagityal, Miyalguda, GHMC, Nalgonda, Karimnagar, Adilabad, Suryapet, Siricilla, Nizamabad, Dubbak, Ramagundm, Armoor, medak, mahbubnagar, mancheri, Mandamarri, nirmal, Jalpally, Meerpet, Medchal, Boduppal, Shadnagr, Vikarabad, Perjadiguda

Observations

- i.** Out of **35** States/UTs, only **16**SPCBs/PCCs have submitted Annual Report till 15.10.2018.(Last Date: 31.07.2018)
- ii.** Information provided by the State/UTs are incomplete and not as per the format.
- iii.** Waste processing and disposal facilities in majority of States are not working effectively.
- iv.** It is observed that after span of 2 years of notification of the Solid Waste Management Rules, 2016; State policy and strategy for implementation of the Solid Waste Management Rules, 2016, has not been formulated by most of States/UTs.
- v.** There is lack of coordination between UDDS, ULBs & State Pollution Control Boards and other concerned agencies, who are involved in Implementation of SWM Rules, 2016.
- vi.** It is observed that most of the States/UTs have not carried out monitoring of ground water quality and ambient air at Waste Processing and Landfill Sites to comply the Solid Waste Management Rules, 2016.

- vii. It is observed that most of the dumpsites are unscientific and operating without following SWM, Rules, 2016 getting mixed waste. However, as per SWM Rules, 2016 Landfill site should preferably be used only for depositing inert waste and rejects.
- viii. The mixed MSW is dumped on dumpsites causing environmental & health hazards and often lead to open-fires.

RECOMMENDATIONS:

- SPCBs/PCCs are not submitting Annual report on Implementation of SWM Rules, 2016 on prescribed date i.e., 31.07.2018
- At Central level, a Technical Cell may be set-up to provide assistance to the State Urban Development Department and Local Bodies enabling them to initiate implementation of SWM Rules, 2016.
- At State level, similar type of cell may be set-up to assist Local Bodies. States may evolve Plans and Policy to provide technical and financial assistance to the Local Bodies.
- Segregation of waste at source is to be made mandatory for ensuring safe disposal of MSW. The wet waste should be composted and dry waste should be recycled/recovered and if not recycled then transported to cement kilns for co-processing. co-processed in cement kilns.
- For proper implementation of Solid Waste Management Rules, 2016, every State should display strategy & time-targeted action plan and plan should be displayed on website.
- Every Local Body should submit time-targeted Action Plan for implementation of the SWM Rules, 2016, in cities/ towns as per the directions of Hon'ble NGT order dated 20.08.2018 in OA No. 606/2018.
- Every State should follow the criteria for selecting the landfill site and setting-up of buffer zone around landfill and waste processing sites as per the guidelines.
- The State UDDs shall ensure safe disposal of legacy Municipal Solid Waste.
- Provision for online Uploading of Annual Reports by SPCBs/PCCs on individual websites.
- Interaction between SPCB/PCCs & State UDDs Department should be strengthened for proper Implementation of Solid Waste Management Rules, 2016.
 - The status of implementation SWM Rules, 2016, is to be reviewed regularly by Secretary, UDDs (at least once in six months) to decline satisfactory results.
- SPCBs/PCCs to take-up with the municipalities and suggest setting up of waste processing/disposal facilities either by the municipality or engaging private entrepreneurs.
- MoEF& CC shall take up the matter of implementation of SWM, Rules. 2016 with Chief Secretaries/ Chief Ministries of the States/UTs, so that it can be implemented in time-bound manner.

Summary Part –B Form V

<u>Sl. No</u> :	<u>States</u>	<u>Towns/cities</u>			<u>Authorization status</u>			<u>Solid waste generation status</u>			
		<u>Total no. of towns/cities</u>	<u>Total no. of ULBs</u>	<u>No. of Class I & II cities/town</u>	<u>No. of applications received</u>	<u>No. of authorization granted</u>	<u>Authorization under scrutiny</u>	<u>Solid waste generation (TPD)</u>	<u>Collected (TPD)</u>	<u>Treated (TPD)</u>	<u>Land filled (TPD)</u>
1	Andaman Nicobar*	-	-	-	-	-	-	-	-	-	-
2	Andhra Pradesh*	-	-	-	-	-	-	-	-	-	-
3	Arunachal Pradesh	18 (urban towns & 1 capital city)	19 (17 urban division & 2 MCs)	Nil	3	Nil	3	203.96	166.82	Nil	Nil
4	Assam*										
5	Bihar	Nil	Nil	143	Nil	Nil	Nil	2272	Yes	3- ULBs started decentralized	Nil

<u>Sl. No.</u>	<u>States</u>	<u>Towns/cities</u>			<u>Authorization status</u>			<u>Solid waste generation status</u>			
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										compositing Others ULBs are in the process of Constructing the Processing Units	
6	Chandigarh	01	01	Class I-1	01	01	Nil	500	463	142.87	319.68
7	Chhattisgarh	168	168	Nil	Nil	Nil	Nil	2000	1680	1411.2	Nil
8	Daman Diu*	-	-	-	-	-	-	-	-	-	-
9	Delhi*	-	-	-	-	-	-	-	-	-	-
10	Goa*	-	-	-	-	-	-	-	-	-	-

Sl. No.	States	Towns/cities			Authorization status			Solid waste generation status			
		Total no. of towns/cities	Total no. of ULBs	No. of Class I & II cities/town	No. of applications received	No. of authorizations granted	Authorizations under scrutiny	Solid waste generation (TPD)	Collected (TPD)	Treated (TPD)	Land filled (TPD)
11	Gujarat	170	170	06	04	Nil	03	Nil	11,119	1,127	9,992
12	Haryana*										
13	Himachal Pradesh*	-	-	-	-	-	-	-	-	-	-
14	Jammu & Kashmir	Nil	Nil	Nil	Nil	Nil	Nil	Jammu-666.68 Kashmir-930.60	Jammu-617.83 Kashmir-833.30	Nil	Nil
15	Jharkhand*	-	-	-	-	-	-	-	-	-	-
16	Karnataka*	-	-	-	-	-	-	-	-	-	-
17	Kerala	93	93	39	3	Nil	3	3831.553	Nil		
18	Nagaland	32	32	Class I-(One) Class II-(One)	1	1	Nil	348	252	139.2	34.8
19	Lakshadweep*	-	-	-	-	-	-	-	-	-	-
20	Madhya Pradesh	383	ULBs-378	Class I Cities-35	01	01	Nil	7212	6537	2272.5	4264.5

Sl. No.	States	Towns/cities			Authorization status			Solid waste generation status			
		Total no. of towns/cities	Total no. of ULBs	No. of Class I & II cities/town	No. of applications received	No. of authorizations granted	Authorizations under scrutiny	Solid waste generation (TPD)	Collected (TPD)	Treated (TPD)	Land filled (TPD)
			Cantonment Board-05	Class II Cities-28 Town-315							
21	Maharashtra*	-	-	-	-	-	-	-	-	-	-
22	Manipur*	-	-	-	-	-	-	-	-	-	-
23	Mizoram*	-	-	-	-	-	-	-	-	-	-
24	Meghalaya	22	07	Class-I-1 Class-II-2	05	04	01	210	175	36	139
25	Orissa	223	114	Nil	01	02	01	539.44(only nineteen ULBs)	471.58 (only nineteen ULBs)	Nil	Nil
26	Punjab*	-	-	-	-	-	-	-	-	-	-
27	Pondicherry*	-	-	-	-	-	-	-	-	-	-

Sl. No.	States	Towns/cities			Authorization status			Solid waste generation status			
		Total no. of towns/cities	Total no. of ULBs	No. of Class I & II cities/town	No. of applications received	No. of authorizations granted	Authorizations under scrutiny	Solid waste generation (TPD)	Collected (TPD)	Treated (TPD)	Land filled (TPD)
28	Rajasthan*	-	-	-	-	-	-	-	-	-	-
29	Sikkim	07	07	Nil	Nil	Nil	Nil	73.34	63.00	7.50	Nil (51.00 TPD of waste generated is disposed at the dumping site)
30	Tamil Nadu	517	580	42	162	124	38	15174.612	14209.127	5307.146	7286.621
31	Telangana	73	73	Class I-08 Class II-15 Special grade-2 Class III-17 Nagara Panchayath (NP)-25	Nil	Nil	Nil	7804	7023	4795	593
32	Tripura	20	14 MCs, 5 Nagar Panchaya	Class I city: 01 (Agartala). There is no	2	1	1	433.2	372.50	148.40	224.1

Sl. No. :	States	Towns/cities			Authorization status			Solid waste generation status			
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			ts & 1 Municipal Corporation	class II City in Tripura.							
33	Uttarakhand	101	101	Nil	06	Nil	06	1099	1099	Nil	Nil
34	Uttar Pradesh*	-	-	-	-	-	-	-	-	-	-
35	West Bengal*	-	-	-	-	-	-	-	-	-	-
	Total	1828	1768	682	189	134	56	43298.385	45082.15	15386.81	22904.70

*INR: Information Not Received

Compliance to Schedule I of SWM Rules (Number/names of towns/capacity)

Sl. No.	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
1	Andaman Nicobar*	-	-	-	-	-
2	Andhra Pradesh*	-	-	-	-	-
3	Arunachal Pradesh	As per Information provided by the concerned State Pollution control Board that there is no Sanitary Landfill Site present so far , therefore , the compliance to Schedule remain not applicable at this point in time				
4	Assam*					
5	Bihar	-	Door to door collection started in 2623 wards out of 3337 wards.	Source segregation started in 437 wards out of 833 wards.	Yes	Partially
6	Chandigarh	Yes	Yes (100%)	Yes (80%)	Yes (100%)	Yes
7	Chhattisgarh	166 Municipal authorities have composting and recycling facilities at Compost shed and Garbage Clinic Centre respectively.	All Municipal Authorities have door to door collection facilities. Collection is done through Tricycles and Mini tippers. Collection system in all municipal authorities are effectively	166 Municipal Authorities have source segregation facilities.	-	All Municipal Authorities have segregated transportation facility for municipal solid waste. Transportation is done mainly by Tricycle, Mini tipper in 166 ULBs and by Dumpers in Raipur, Bilaspur.

Sl. No .	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
			planned and managed to comply with the SWM Rule, 2016.			
8	Daman Diu*	-	-	-	-	-
9	Delhi*	-	-	-	-	-
10	Goa*					
11	Gujarat	Nil	98%	Nil	Nil	Nil
12	Haryana*					
13	Himachal Pradesh*	-	-	-	-	-
14	Jharkhand*	-	-	-	-	-
15	Jammu & Kashmir	Nil	Under Kashmir Division : 80% Door to door collection and 90% from non – residential complexes like Hotels etc. In Jammu Division: Door to Door collection is carried	Source waste segregation has been implemented by MC , Resasi , MC	Storage are generally open spaces Only Primary Storage facilities has been	Under covered containers No Covered transportation in Jammu Division

Sl. No .	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
			out in few Local Bodies	Katraand Cantonment Board only	established in the forms of Bins	
16	Karnataka*	-	-	-	-	-
17	Kerala	Material collection facilities, Resource recovery units, Biogas plants, Aerobic composting Units, Windrow composting etc. provided				
18	Nagaland	<p>-Kohima MC has 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.</p> <p>- Setting up of solid waste processing facility is under progress In Dimapur</p>	50% in Kohima MC	-40%households in Kohima are provided with two separate bins for dry and wet waste.	Nil	Nil

Sl. No .	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
19	Lakshadweep*	-	-	-	-	-
20	Madhya Pradesh	147	274	133	217	249
21	Maharashtra*	-	-	-	-	-
22	Manipur*	-	-	-	-	-
23	Mizoram*	-	-	-	-	-
24	Meghalaya	1 (Shillong Municipal Board)	6 (Shillong Municipal Board, Shillong Cantonment Board, Jowai Municipal Board, Tura Municipal Board, Williamnagar Municipal Board, Reesubelpara Municipal Board)	2 (Shillong Municipal Board, Tura Municipal Board)	05 (Shillong Municipal Board, Shillong Cantonment Board, Tura Municipal Board, Williamnagar Municipal Board, Reesubelpara Municipal Board)	05 (Shillong Municipal Board, Shillong Cantonment Board, Jowai Municipal Board, Tura Municipal Board, Reesubelpara Municipal Board))
25	Orissa	Nil	Class -I (Cuttack ,Rourkela , Bhadrak) having House to House Collection facility	Class -I (Cuttack) having Segregation Facility	Class -I (Cuttack ,Rourkela , Bhadrak) provided Bins	No Information available

Sl. No	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
			<p>Class –II towns (Dhenkanal, Jagatsinghpur , Keonjargarh,Jatni) Having House to House collection Facility</p> <p>Class-III towns: (Choudwar , Jaipur , Basudevpur , Saro , hinjilicutNAC,Baliguda NAC, Patnagarh NAC, Subarnapur , Padampur NAC , Ganjam NAC) are also having House to House collection facility</p>	<p>Class –II towns Dhenkanal, having Segregation facility</p> <p>Class-III towns: (Choudwar , Jaipur , Basudevpur , Saro , hinjilicutNAC,Baliguda NAC, Patnagarh NAC, Subarnapur , Padampur NAC , Ganjam NAC) are not having Segregation facility</p>	<p>Class –II towns (Dhenkanal, Jagatsinghpur , Keonjargarh,Jatni) provided Bins</p> <p>Class-III towns: (Choudwar , Jaipur , Basudevpur , Saro , hinjilicutNAC,Baliguda NAC, Patnagarh NAC, Subarnapur , Padampur NAC , Ganjam NAC) are also Provided Bins</p>	
26	Punjab*	-	-	-	-	-
27	Puducherry*	-	-	-	-	-

Sl. No	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
28	Rajasthan*	-	-	-	-	-
29	Sikkim	Nil	Yes	Arithang ward under GMC practices complete segregation at source.	Nil	Yes
30	Tamil Nadu	Complied –Vellore, Vaniyambadi, Villupuram, Tiruvannamalai, Hosur, Dharmapuri, Trichy, Ariyalur, Perabalur, Pudhukottai, Thanjavur, Nagappattinam, Thiruvarur, Cuddalore, Dindigul, Madurai, Sivagangai, Ramnad, Theni, nagercoil, Tirunelveli, Thoothukudi, Namakkal, Ooty, Erode.	Compiled- Vellore, Dharmapuri, Trichy,Ariyalur, Perabalur, Pudhukottai, Thanjavur, Nagappattinam, Thiruvarur, Cuddalore, Dindigul, Karur, Sivagangai, Ramanathapuram, Theni, Nagercoil, Tirunelvi,Thoothkudi, Kancheepuram, Coimbatore, ooty, Tiruppur. Partially compiled- Chennai (compiled in	Compiled- Karur, Madurai, Ramanathapuram, Theni, Nagaercoil, Tirunelbeli, Thoothukdi, Vellore, Vaniyambadi, Villupuram, Tiruvanamalai, Hosur, Dharmapuri, Ooty, Thanjavur. Partially compiled- Tirvallur (compiled in 7 wards), Kancheepuram (compiled in 9 wards), trichy, Ariyalur, Perambalur,Pudhuko	Complied – Vellore, Vaniyambadi, Villupuram, Tiruvannamalai, Hosur, Dharmapuri, Karur, Madurai, Sivagangai, Ramanathapuram, Theni, Nagercoil, Tirunelvi,Thoothkudi, Nagappattinam, Thiruvarur, Thiruvarur. Partially compiled- Tiruvallur (compiled in 15 wards), Kancheepuram (compiled in 24 wards), Coimbatore, Tiruppur, ooty, Salem (compiled in	Complied –Vellore, Vaniyambadi, Villupuram, Tiruvannamalai, Hosur, Dharmapuri, Karur, Madurai, Sivagangai, Ramanathapuram, Theni, Nagercoil, Tirunelvi,Thoothkudi, Nagappattinam, Thiruvarur, Thiruvarur. Partially compiled- Tiruvallur (compiled in 15 wards), Kancheepuram (compiled in 24 wards), Coimbatore, Tiruppur, ooty, Salem (compiled in 3 municipalities and 30 town

Sl. No .	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
		<p>Partily compiled- Coimbatore, Tirrpur, Salem (Compiled in 2 Corporation, 9 Municipalities and 72 Town Panchayats), Perundurai (Compiled in 2 Municipalities), Virudhunagar.</p> <p>Yet to Comply- Chennai, Tiruvallur, Kancheepuram, Kumarapalyam.</p>	<p>200 wards), Tiruvallur (compiled in 11 wards), Vaniyambadi, Villupuram, Tiruvanamalai, Hosur, Salem (compiled in salem corporation, # Municipalities and 30 Town Panchayats), Namakkal (compiled in 2 Municipalities and Panchayats), Erode, Madurai, Virudhnagar.</p> <p>Yet to Comply- Kumarapalyam.</p>	<p>ttai, Nagappattinam, Thiruvarur, Cuddalore, Dindigul, Coimbatore, Tiruppur, Salem (compiled in Salem corporation, 3 Municipalities and 30 town panchayats), Namakkal (compiled in 2 Municipalities and 16 town Panchayats), Perundurai (compiled in 24 Town Panchayts), Erode,Sivagangai, Virudhunagar.</p> <p>Yet to comply- Kumarapalayam, Chennai,</p>	<p>(compiled in Salem corporation, 3 Muncipalities and 30 Town Panchayats), Namakkal (Compiled in 2 Municipalities and 16 town panchayats), Perundurai (compiled in 25 Town Panchayts), Erode, Nagappattinam, Thiruvarur,</p> <p>Yet to comply- Kumarapalayam, Chennai, Tiruvallur, Kancheepuram, Cuddalore, Trichy, Ariyalur, Perabalur, Dindigul,Pudhuko</p>	<p>panchayats), namakkal (compiled in 2 muncipaliies and 16 twon panchayats), Perundurai (compiled in 4 municipalities), erode.</p> <p>Yet to comply- Chennai, trichy, ariyalur, Perabbalur, Pudhukottai, Cuddalore, Dindigul, Virudhunagar.</p>

Sl. No.	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
					ttai, Kumarapalyam.,	
31	Telangana	Nil	House to house collection of MSW has been practicing in all the local bodies in the State. As per the information furnished by the Commissioner & Director of Municipal Administration 90% of households covered under door to door collection.	About 11% of households in the State were covered under segregation.	None of the ULBs adopted “three bin” system. Manual handling of the waste was still carried out in some of the municipalities.	In Hyderabad and some other municipalities of the MSW is transported in covered vehicles. In other municipalities the waste is transported in trucks covered with nets to avoid scattering.
32	Tripura	Agartala, Kamalpur and Khowai	Done in 12 wards out of 19 wards in Udaipur Municipal Council, in all 15 wards in Kailasahar Municipal Council, in all wards of Kamalpur MC, in all wards of Khowai	Separation of Degradable and non-degradable waste in Agartala Municipal Corporation.	372.50 MTPD	Done in 5 Nagar Panchayats, 14 Municipal Councils and in Agartala Municipal Corporation.

Sl. No	States	Compliance to Schedule I of SW Rules (Number/names of towns/capacity)				
		Good Practices	House to house collection	Segregation	Storage	Covered transportation
			MC and in all wards of Agartala Municipal Corporation.			
33	Uttarakhand	Partially Haridwar, Roorkee, Dehradun	Partially in Haridwar, Roorkee, Dehradun, Jaspur, Kiccha, Sitarganj, Rudrapur, Mahudabra and kelakhera.	Partially in some ULB's	At site	Partially
34	Uttar Pradesh*	-	-	-	-	-
35	West Bengal*	-	-	-	-	-

*INR: Information Not Received

Annexure -III

Solid waste processing facilities

Sl.No.	States	Solid waste processing facilities set up				Processing facility operational				Processing facility under installation/ planned			
		Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization
1	Andaman Nicobar*	-	-	-	-	-	-	-	-	-	-	-	-
2	Andhra Pradesh*	-	-	-	-	-	-	-	-	-	-	-	-
3	Arunachal Pradesh	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
4	Assam*	-	-	-	-	-	-	-	-	-	-	-	-
5	Bihar	Muzaffarpur MC, Munger MC and Bodhgaya Nagar Panchayat have	Nil	Nil	Nil	Muzaffarpur MC , Munger MC and Bodhgaya Nagar Panchayat have started decentralized	Nil	Nil	Nil	Planned at Bairia Ramachak, Patna by PMC, Patna.Total of 3 ULBs viz. Ara MC, Gaya	Nil	Nil	Planned at Bairia Rama chak, Patna by PMC, Patna

Sl.No.	States	Solid waste processing facilities set up				Processing facility operational				Processing facility under installation/ planned			
		Composting	Vermi-composting	Biogas	RDF/Pelletization	Composting	Vermi-composting	Biogas	RDF/Pelletization	Composting	Vermi-composting	Biogas	RDF/Pelletization
		started decentralized composting. (3 Nos)				composting. (3 Nos)				MC and Barh MC are in process of setting up of decentralized composting. MC Motihari is in process of mechanical composting and pyrolysis plant. (3 Nos)			under integrated SWM facility.
6	Chandigarh	01	Nil	02	01	One compost plant of 300 TPD capacity has	Nil	3 MT &. 5 MT capacity Bio-	M/s Jai Prakash Associates where	Nil	Nil	Nil	Nil

Sl.No.	States	Solid waste processing facilities set up				Processing facility operational				Processing facility under installation/ planned			
		Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization
						been installed by M/s Jai Prakash Associates. (1 No.)		methanation plant has been established (2 Nos)	process the MSW to produce RDF. (1 Nos)				
7	Chhattisgarh	203	Nil	Nil	Nil	203	Nil	Nil	Nil	37	Nil	Nil	Nil
8	Daman Diu*												
9	Delhi*												
10	Goa*												
11	Gujarat	Nil	95	1	3	Nil	11	1	3	Nil	Nil	Nil	Nil
12	Haryana*												
13	Himachal Pradesh*												
14	Jharkhand*												

Sl.No.	States	Solid waste processing facilities set up				Processing facility operational				Processing facility under installation/ planned			
		Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization
15	Jammu & Kashmir	Nil	01 sunder bani , 01 each at Bhader wah&D oda (3 Nos)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
16	Karnataka*												
17	Kerala*	768	41	79	Nil	768	41	79	Nil	Nil	Nil	Nil	Nil
18	Nagaland	1 in Kohima	Nil	Nil	Nil	1 in Kohima	Nil	Nil	Nil	Nil	Nil	Nil	Nil
19	Lakshadweep*												
20	Madhya Pradesh	31 Towns (3100 TPD)	15 Towns (71 TPD)	01 Bhopal (15 TPD)	RDF-01 Ujjain-25 TPD	31 Towns	15 Towns (1202 TPD)	01 Bhopal (68.5 TPD)	RDF-01 Ujjain-25 TPD				

Sl.No.	States	Solid waste processing facilities set up				Processing facility operational				Processing facility under installation/ planned			
		Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization
					MRF-01 Indore-500 TPD				MRF-01 Indore-500 TPD				
21	Maharashtra*												
22	Manipur*												
23	Mizoram*												
24	Meghalaya	01(ShillongMunicipal Board) 35MT/Day	01(TuraMunicipal Board) 1MT/Day	Nil	Nil	01(ShillongMunicipal Board) 35MT/Day	01(TuraMunicipal Board) 1MT/Day	Nil	Nil	Nil	Nil	Nil	Nil
25	Orissa*	-	-	-	-	-	-	-	-	-	-	-	-
26	Punjab*												
27	Puducherry*												
28	Rajasthan*												
29	Sikkim	Mangan, North				Mangan, North							

Sl.No.	States	Solid waste processing facilities set up				Processing facility operational				Processing facility under installation/ planned			
		Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization
		Sikkim (80kg/day) Martam, East Sikkim (50TPD)	Nil	Nil	Nil	Sikkim (80kg/day) Martam, East Sikkim (50TPD)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
30	Tamil Nadu	635	98	53	18	635	98	53	18	2	0	2	1
31	Telanga na	26 (Composting / vermicomposting)	Nil	Greater Warangal MC	M/s integrated MSW management Project, (proposed by GHMC), has established compost plant & RDF for	22	Nil	Greater Warangal MC	M/s integrated MSW management Project, (proposed by GHMC), Sy. No. 173, Jawaharnagar (v), Shameerpet (m),	16	Nil	Warangal MC has proposed 2 nos. of biogas projects with capacity of 2 MTD to operate	Nil

Sl.No.	States	Solid waste processing facilities set up				Processing facility operational				Processing facility under installation/ planned			
		Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization	Composting	Vermicomposting	Biogas	RDF/Pelletization
					processing MSW of 3600 TPD.				Rangareddy District has established compost plant & RDF for processing MSW of 3600 TPD. The greater Hyderabad Municipal Corporation (GHMC) has constructed the sanitary landfill facility and			Power plant of capacity 24 KW (each)	

Sl.No.	States	Solid waste processing facilities set up				Processing facility operational				Processing facility under installation/ planned			
		Composting	Vermi-composting	Biogas	RDF/Pelletization	Composting	Vermi-composting	Biogas	RDF/Pelletization	Composting	Vermi-composting	Biogas	RDF/Pelletization
									operating the same.				
32	Tripura	148 MTPD	0.40 MTPD	Nil	Nil	148 MTPD	0.40 MTPD	Nil	Nil	Compositing and Vermi compositing are under construction in Udaipur, Kamalpur and Kailashahar			
33	Uttarakhand	03	01	Nil	Nil	02	01	Nil	Nil	Nil	Nil	Nil	Nil
34	Uttar Pradesh*												
35	West Bengal*												

*INR: Information Not Received

Annexure-IV

Disposal of Solid waste

Sl. No.	States	Disposal of Solid waste					
		Landfill site identified	Landfill Constructed	Landfill under construction	Landfill in operation	Landfill exhausted	Landfilled capped
1	Andaman Nicobar*	-	-	-	-	-	-
2	Andhra Pradesh*	-	-	-	-	-	-
3	Arunachal Pradesh	Nil	Nil	Nil	Nil	Nil	Nil
4	Assam*						
5	Bihar	A total of 16 ULBs have identified land for development of sanitary landfill facility and other ULBs are in process of identification of land with the help of Local Authorities. (16 Nos)	Nil	Nil	Nil	Nil	Nil
6	Chandigarh	01 (45 acres)	01 (25 acres)	Nil	01(A sanitary landfill has been developed over	Nil	01 (16.72 acres out of 25 acres)

Sl. No.	States	Disposal of Solid waste					
		Landfill site identified	Landfill Constructed	Landfill under construction	Landfill in operation	Landfill exhausted	Landfilled capped
					an area of 8.28 acres of 25 acres which is now used for dumping.)		
7	Chhattisgarh	2	Nil	1	Nil	Nil	Nil
8	Daman Diu*	-	-	-	-	-	-
9	Delhi*	-	-	-	-	-	-
10	Goa*	-	-	-	-	-	-
11	Gujarat	29 regional landfill site for 125 ULB	11	21 Under Planning	3	1	Rajkot cell- is under capping stage (1 No.)
12	Haryana*						
13	Himachal Pradesh*						
14	Jharkhand*						
15	Jammu & Kashmir	Landfill Site identified at Nadoora , Razakshah, Mamat Raod Budgam,, Near Syed Soleh nursery Naad, Nallah Ferozpur , Ashadpora , Charai Shari f Naad,, Akhnoor , Gho Manhasan Khour , Samba ,	Nil	Nil	01 Achan Sanitary Landfill Site under Srinagar MC. (1 Nos)	Nil	Nil

Sl. No.	States	Disposal of Solid waste					
		Landfill site identified	Landfill Constructed	Landfill under construction	Landfill in operation	Landfill exhausted	Landfilled capped
		Kathua Billawar Parol and Kalakote (12 Nos)					
16	Karnataka*	-	-	-	-	-	-
17	Kerala	Nil	Nil	Nil	1	Nil	Nil
18	Nagaland	1(kohima town)	1(kohima town)	Nil	1(kohima town)	Nil	Nil
19	Lakshadweep*						
20	Madhya Pradesh	256	3	16	06	01	Nagar Nigan Jabalpur Nagda
21	Maharashtra*	-	-	-	-	-	-
22	Manipur*	-	-	-	-	-	-
23	Mizoram*	-	-	-	-	-	-
24	Meghalaya	01 (Jowai Municipal Board)	Nil	Nil	Nil	Nil	Nil
25	Orissa	18	Nil	Nil	Nil	Nil	Nil
26	Punjab*	-	-	-	-	-	-
27	Puducherry*	-	-	-	-	-	-
28	Rajasthan*	-	-	-	-	-	-
29	Sikkim	01/ Martam, East Sikkim 01/Mangan, North Sikkim	01/ Martam, East Sikkim	Nil	Nil	Nil	Nil

Sl. No.	States	Disposal of Solid waste					
		Landfill site identified	Landfill Constructed	Landfill under construction	Landfill in operation	Landfill exhausted	Landfilled capped
		Gangtok Municipal Corporation, Rangpo Nagar Panchayat(RNP)&Singtam Nagar Panchayat (SNP) are availing the same facility located at Martam , East Sikkim. Similarly , GyalshingMunicipal Council (Gy MC) , Namchi Municipal Council (NMC) and Jorethang Municipal Council (JMC) are using the facility located at Sipsu , West Sikkim (6 Nos)					
30	Tamil Nadu	131	6	20	4	1	1
31	Telangana	Greater Hyderabad Municipal Corporation at Jawaharnagar Village (1 Nos)	Nil	Nil	Nil	Nil	Nil
32	Tripura	17 ULBs have identified their respective landfill sites for disposal of MSW. (17 Nos)	Except Agartala MC & Kamalpur MC, other ULBs are not constructed any Landfill (2 Nos)	Nil	One in Agartala MC & one in Kamalpur MC. (2 Nos)	Nil	Nil

Sl. No.	States	Disposal of Solid waste					
		Landfill site identified	Landfill Constructed	Landfill under construction	Landfill in operation	Landfill exhausted	Landfilled capped
33	Uttarakhand	Nagar Nigam Haridwar, Dehradun (2 Nos)	Nagar Nigam Haridwar, Dehradun (2 Nos)	Nil	02	Nil	Nil
34	Uttar Pradesh*	-	-	-	-	-	-
35	West Bengal*	-	-	-	-	-	-
	Total	493	27	58	21	3	4

*INR: Information Not Receive

Waste-to-Energy Plants

Sl.No.	States	Waste-to-Energy		
		Plant Location	Power Generation (MW)	Remarks
1	Andaman Nicobar*			
2	Andhra Pradesh*			
3	Arunachal Pradesh	Nil	Nil	Nil
4	Assam*			
5	Bihar	Planned at Bairia Ramachak, Patna by PMC, Patna under integrated solid waste management facility. (under planning)	Not installed so far.	Nil
6	Chandigarh	M/s Jaiprakash Associates Ltd. (Greentech fuel processing plant), Opp. Dumping ground, Dadumajra Sector-25 West, Chandigarh (01 Nos)	RDF generated is utilized in their own Hot air generator and the rest is supplied to nearby industries. RDF production : 175 MT/day (optimum) Approx. 60 MT/day (present production)	Operational
7	Chhattisgarh	Nil	Nil	Nil
8	Daman Diu*			
9	Delhi*			

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10	Goa*			
11	Gujarat	Nil	Nil	Nil
12	Haryana*			
13	Himachal Pradesh*			
14	Jharkhand*			
15	Jammu & Kashmir	Nil	Nil	Nil
16	Karnataka*			
17	Kerala	Nil	Nil	Nil
18	Nagaland	Nil	Nil	Nil
19	Lakshadweep*			
20	Madhya Pradesh	Jabalpur Bhopal Rewa Indore Ratlam	11.5 MW - - - -	462 TPD waste is being utilized by facility. Under Implementation Under Implementation Under Implementation Under Planning
21	Maharashtra*			
22	Manipur*			
23	Mizoram*			
24	Meghalaya	Nil	Nil	Nil
25	Orissa	Nil	Nil	Nil
26	Punjab*			
27	Pondicherry*			
28	Rajasthan*			
29	Sikkim	Nil	Nil	Nil
30.	Tamil Nadu	1. Greater Chennai Corporation at Pulinthope	12 kWh	Under operation

		2.	Greater Chennai Corporation at Velankadu	7.8 kWH	Under operation
		3.	Greater Chennai Corporation at Otteri	4.8 kWH	Under operation
		4.	Greater Chennai Corporation at Basin Bridge, Wall tax road	5.4 kWH	Under operation
		5.	M/s Trichy Corporation Bio Methanisation cum Power Plant, Trichy District	0.45 MW	Under operation
		6.	Erode Municipal Corporation Biomethanization Plant, Vendipalayam composed Yard, Vendipalayam, Erode district	Biogas : 500 cubic meters/day	Operational
		7.	M/s Perambalur Municipality Bio-methanisation Plant, Perambalur	300 units	Under operation Biogas 30 m ³ /day
		8.	M/s Nagapattinam Municipality Bio methanisation Plant, Nagapattinam	0.5 MW	Under operation
		9.	M/s Namakkal Municipality Municipal solid waste dump site,	Electric Power 200 Units /Day	Under operation Authorization issued to the units.

			S.F.183/6, 184, vettambadi village, Namakkal Taluk, Namakkal District.		
		10.	M/s Triuchengode Municipality, Tiruchengode Taluk, Namakkal District.	Electric Power 400 Units /Day	Under operation Power generated is utilized for street lights
		11.	M/s Pallipalayam Municipality, Kumarapalayam Taluk, Namakkal District.	Electric Power 40 KW/Hr/ Day	Under operation Power generated is utilized for street lights
		12.	M/s Karur Municipality Biogas Plant, panchamadevi Village, Compost yard Campus, Vangal road, karur	Electric Power 400 Units /Day	Under operation Consent issued during 2016
		13.	Nagercoil Municipality	400 KVA/Day	Under operation
31	Telengana	1.	19.8 MW capacity at Jawaharnagar	Earth work for plant has started. It is Expected to complete by March 2019.	-
		2.	11 MW Capacity chennaravulapally Bibi Nagar	Undergoing pre- commissioning activities.	-

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32	Tripura	No waste to energy plant has been set up till date. - -		
33	Uttarakhand	Nil	Nil	Nil
34	Uttar Pradesh*	-	-	-
35	West Bengal*	-	-	-
	Total	<p style="text-align: center;">3 (15-operational, 2-under planning, 5- under construction) - -</p>		

*INR: Information Not Received;

Annexure-VI

Solid Waste Dumpsites

Sl. No.	States	Solid Waste Dumpsites		
		Total number of existing dumpsites	Dumpsites reclaimed/capped	Dumpsites converted to sanitary landfill
1	Andaman Nicobar*			
2	Andhra Pradesh*			
3	Arunachal Pradesh	9	Nil	Nil
4	Assam*			
5	Bihar	Nil	Nil	Nil
6	Chandigarh	01	01 (25 acres out of 45acres)	01 (8.28 acres of 25 acres)
7	Chhattisgarh	2	Nil	Nil
8	Daman Diu*			
9	Delhi*			
10	Goa*			
11	Gujarat	170	Nil	Nil
12	Haryana*			

Sl. No.	States	Solid Waste Dumpsites																								
		Total number of existing dumpsites	Dumpsites reclaimed/capped	Dumpsites converted to sanitary landfill																						
13	Himachal Pradesh*																									
14	Jharkhand*																									
15	Jammu & Kashmir	<table border="1"> <tr> <td>Anantnag</td> <td rowspan="9">Dumps along the river banks , road sides , National Highways and within habitations</td> </tr> <tr> <td>Kulgam</td> </tr> <tr> <td>Pulwama</td> </tr> <tr> <td>Shopian</td> </tr> <tr> <td>Ganderbal</td> </tr> <tr> <td>Budgam</td> </tr> <tr> <td>Baramulla</td> </tr> <tr> <td>Bandipora</td> </tr> <tr> <td>Kupwara</td> </tr> <tr> <td>Jammu MC</td> <td>Open Dumping</td> </tr> <tr> <td>Jammu Cantonment Board</td> <td>Trench Compositing</td> </tr> <tr> <td>Samba</td> <td>Open Dumping</td> </tr> <tr> <td>Kathua</td> <td>Open dumping</td> </tr> <tr> <td>Rajouri</td> <td>Open Dumping except Sunderbani where Authorized Vermicomposting is established.</td> </tr> <tr> <td>Udhampur</td> <td>Open Dumping</td> </tr> </table>	Anantnag	Dumps along the river banks , road sides , National Highways and within habitations	Kulgam	Pulwama	Shopian	Ganderbal	Budgam	Baramulla	Bandipora	Kupwara	Jammu MC	Open Dumping	Jammu Cantonment Board	Trench Compositing	Samba	Open Dumping	Kathua	Open dumping	Rajouri	Open Dumping except Sunderbani where Authorized Vermicomposting is established.	Udhampur	Open Dumping	No Information provided	No Information Provided
Anantnag	Dumps along the river banks , road sides , National Highways and within habitations																									
Kulgam																										
Pulwama																										
Shopian																										
Ganderbal																										
Budgam																										
Baramulla																										
Bandipora																										
Kupwara																										
Jammu MC	Open Dumping																									
Jammu Cantonment Board	Trench Compositing																									
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Udhampur	Open Dumping																									

Sl. No.	States	Solid Waste Dumpsites										
		Total number of existing dumpsites	Dumpsites reclaimed/capped	Dumpsites converted to sanitary landfill								
		<table border="1"> <tr> <td>Reasi</td> <td>Open Dumping</td> </tr> <tr> <td>Doda</td> <td>Open Dumping</td> </tr> <tr> <td>Ramban</td> <td>Open dumping in low lying area of river Chenab</td> </tr> <tr> <td>Poonch</td> <td>Dumping near river</td> </tr> </table> <p>Note: There is no specific dumpsite mentioned in the report . However, waste is being dumped along the river banks and within the habitations</p>	Reasi	Open Dumping	Doda	Open Dumping	Ramban	Open dumping in low lying area of river Chenab	Poonch	Dumping near river		
Reasi	Open Dumping											
Doda	Open Dumping											
Ramban	Open dumping in low lying area of river Chenab											
Poonch	Dumping near river											
16	Karnataka*											
17	Kerala	10	Nil	Nil								
18	Nagaland	11	Nil	Nil								
19	Lakshadweep*											
20	Madhya Pradesh	377	01	06								
21	Maharashtra*											
22	Manipur*											
23	Mizoram*											
24	Meghalaya	06 (Shillong Municipal Board, Shillong Cantonment Board, Jowai Municipal Board, Tura Municipal Board, Williamnagar Municipal Board, Resubelpara Municipal Board)	Nil	01(Shillong Municipal Board)								

Sl. No.	States	Solid Waste Dumpsites		
		Total number of existing dumpsites	Dumpsites reclaimed/capped	Dumpsites converted to sanitary landfill
25	Orissa	18	Nil	Nil
26	Punjab*			
27	Pondicherry*			
28	Rajasthan*			
29	Sikkim	(02) Martam (East Sikkim) & SIPSU (West Sikkim)	Nil	01 sanitary landfill is being converted near dumping site at Martam (East Sikkim)
30	Tamil Nadu	635	3	17
31	Telangana	73	Greater Hyderabad Municipal Corporation at Jawahar nagar village	Greater Hyderabad Municipal Corporation at Jawahar nagar village
32	Tripura	17	Nil	Nil
33	Uttarakhand	02	Nil	Nil
34	Uttar Pradesh*			
35	West Bengal*			

*INR: Information Not Received

Monitoring at Waste Processing/Landfills sites

Sl. No.	States	Monitoring At Waste Processing/Landfills Sites					
		Name Of Facilities	Ambient Air	Groundwater	Leachate Quality	Compost Quality	VOCs
1	Andaman Nicobar*						
2	Andhra Pradesh*						
3	Arunachal Pradesh	Nil	Nil	Nil	Nil	Nil	Nil
4	Assam*						
5	Bihar	No disposal facility including landfill site developed so far hence compliance on monitoring not applicable.	Nil	Nil	Nil	Nil	Nil
6	Chandigarh	1. Dumping/Landfill site 2. RDF plant	Yes Yes	Yes Nil	Yes Nil	Nil Yes	Nil Nil
7	Chhattisgarh	Nil	Nil	Nil	Nil	Nil	Nil
8	Daman Diu*						
9	Delhi*						
10	Goa*						
11	Gujarat	SLF of Ahmadabad Municipal Corporation SLF of Vadodara Municipal Corporation SLF of Surat Municipal Corporation SLF of Rajkot Municipal Corporation	No No No No	No No Yes Yes	No No Yes Yes	No No No No	No No No No
12	Haryana*						
13	Himachal Pradesh*						

Sl. No.	States	Monitoring At Waste Processing/Landfills Sites					
		Name Of Facilities	Ambient Air	Groundwater	Leachate Quality	Compost Quality	VOCs
14	Jharkhand*						
15	Jammu & Kashmir						
16	Karnataka*						
17	Kerala	Nil					
18	Nagaland	Kohima MC SWM Facility	Nil	Nil	Yes	Nil	Nil
19	Lakshadweep*						
20	Madhya Pradesh	Bhopal, Chindwara, Dhar, Guna. Gwalior, Indore, Jabalpur Katni, Satna, Ujjain, Rewa, Pithampur, Sagar, Shahdal, Singrauli, Dewas	219	452	Nil	Nil	Nil
21	Maharashtra*						
22	Manipur*						
23	Mizoram*						
24	Meghalaya	Dumping Sites of Shillong Municipal Board	Yes	Yes	Yes	No	No
25	Orissa	No Information Provided					
26	Punjab*						
27	Pondicherry*						
28	Rajasthan*						
29	Sikkim	Nil	Nil	Nil	Nil	Nil	Nil
30	Tamil Nadu	Kodungaiyur dumping site.	Yes	Yes	Nil	Nil	Nil
		Coimbatore corporation integrated SWM, Vellore, Coimbatore.	Yes	Yes	Yes	Nil	
		Mettupaalayam Municipality	Nil	Yes	Nil	Yes	
			Yes	Yes	Yes	Yes	

Sl. No.	States	Monitoring At Waste Processing/Landfills Sites					
		Name Of Facilities	Ambient Air	Groundwater	Leachate Quality	Compost Quality	VOCs
		Madurai Corporation Solid waste processing and Disposal facility					
31	Telangana	M/s Integrated Muncipal Solid Waste Management project (IMSWMP), Jawaharnagar, Shameerpet RR Dist.	Monitoring of Ambient air conducted near landfill phase-III on North side (Down wind)	Monitoring			
32	Tripura	Nil	Nil	Done in Khowai MC	Done in Agartala	Nil	Nil
33	Uttarakhand	Nil	Nil	Nil	Nil	Nil	Nil
34	Uttar Pradesh*						
35	West Bengal*						

*INR: Information Not Received

Status of Action Plan Prepared by Municipalities

Sl.No.	States	Status of Action Plan Prepared by Municipalities	
		Total Number of Municipalities	Number of Action plan submitted
1	Andaman Nicobar*		
2	Andhra Pradesh*		
3	Arunachal Pradesh	2 (Itanagar MC and Pasighat MC)	Nil
4	Assam*		
5	Bihar	143	143
6	Chandigarh	01	
7	Chhattisgarh	168	168
8	Daman Diu*		
9	Delhi*		
10	Goa*		
11	Gujarat	170	3
12	Haryana*		
13	Himachal Pradesh*		
14	Jharkhand*		
15	Jammu & Kashmir	Nil	Nil
16	Karnataka*		
17	Kerala	87	The action plan was submitted to the Central Government by many Local Bodies.
18	Nagaland	3	Nil
19	Lakshadweep*		

20	Madhya Pradesh	378 ULBs 05 (CB)	Nil
21	Maharashtra*		
22	Manipur*		
23	Mizoram*		
24	Meghalaya	07	05
25	Orissa	07	Nil
26	Punjab		
27	Pondicherry*		
28	Rajasthan*		
29	Sikkim	07	Not received any action plan
30	Tamil Nadu	82	2
31	Telangana	73	AS per the Hon'ble National Green Tribunal (NGT) orders and Swachh Bharat Mission Guidelines, Detailed project reports for MSW management are under preparation. As per the recommendations in the DPRs, facilities will be set up for MSWM in the State. In order to effectively manage the MSW generated in the ULBs from primary collection to scientific disposal two agencies were engaged for preparation of DPRs for the (72) ULBs in the state which are- 1.M/s IPR Global 2.M/s Grant Thornton
32	Tripura	UDD has prepared detailed action plan for all 20 ULBs in compliance with the direction of Hon'ble National Green Tribunal in the matter of Almitra H. Patel vrs. Union of India in case OA No. 199/2014	All 20 ULBs

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33	Uttarakhand	101	Nil
34	Uttar Pradesh*		
35	West Bengal*		

*INR: Information Not Received

Annexure-IX

STATUS OF ANNUAL REPORT RECEIVED FROM SPCBS/PCCS

States	2001- 2	2002- 3	2003- 4	2004- 5	2005- 6	2006- 7	2007- 8	2008- 9	2009- 10	2010- 11	2011- 12	2012- 13	2013- 14	2014- 15	2015- 16	2016- 17	2017- 18
A & N Isld				Y	Y								Y	Y		Y	
Andhra P.		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Arunachal P.				Y			Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Assam	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	
Bihar			Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
Chandigarh		Y	Y	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y
Chhattisgarh	Y	Y	Y	Y	Y	Y	Y	Y	Y				Y	Y	Y	Y	Y
Daman Diu			Y								Y		Y				
Delhi			Y			Y			Y	Y		Y	Y	Y	Y		
Goa						Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Gujarat		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Haryana	Y	Y	Y			Y					Y		Y	Y	Y	Y	
Himachal P.		Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	

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J & K			Y							Y			Y	Y	Y		Y
Jharkhand			Y							Y	Y	Y	Y	Y	Y		
Karnataka	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y
Kerala	Y	Y	Y			Y	Y	Y		Y	Y		Y	Y			
Lakshadweep							Y						Y			Y	
Madhya P.			Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Maharashtra	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Manipur			Y				Y				Y		Y	Y			
Meghalaya	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Mizoram								Y	Y	Y	Y	Y	Y	Y		Y	
Nagaland			Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y
Orissa	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Puducherry	Y	Y	Y		Y		Y	Y					Y	Y	Y	Y	
Punjab	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	
Rajasthan			Y	Y		Y	Y	Y					Y				
Sikkim			Y				Y			Y	Y		Y			Y	Y
Tamil Nadu			Y	Y		Y	Y	Y	Y	Y			Y	Y	Y	Y	Y

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Tripura		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Telangana													Y	Y	Y		Y
Uttar Pradesh	Y			Y	Y		Y	Y				Y	Y		Y	Y	
Uttarakhand		Y	Y					Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
West Bengal		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	
Total	11	17	27	21	19	18	22	25	21	23	25	19	35	30	24	26	16

Y: Yes, submitted Annual Report