

Central Pollution Control Board, Delhi
Generation of COVID19 related Biomedical Waste in States/UTs

- As per BMW Rules, 2016, biomedical waste is required to be treated and disposed-off through authorised Common Biomedical Waste Treatment Facilities (CBWTFs) or through captive treatment facilities including deep burial pits (where CBWTF is not available). COVID19 related biomedical waste can safely be disposed through facilities authorised under BMW Rules, 2016, however considering pandemic situation, CPCB has issued specific Guidelines for handling, treatment and disposal of COVID-19 waste at Healthcare Facilities, Quarantine Camps/ Quarantine-homes/ Home-care, Sample Collection Centers, Laboratories, SPCBs/PCCs, ULBs and CBWTFs. First version of the guidelines was issued on 19/03/2020, thereafter these guidelines are revised from time to time to cover various practical aspects of implementation and ground situation – fourth version of the guidelines were issued on 14/07/2020.
- In order to monitor COVID-19 related biomedical waste and to compile the data through electronic manifest system, CPCB developed COVID-19 waste tracking software named “COVID19BWM”. Both Android Mobile and Web versions of software application was designed for waste generators, Common Biomedical Waste Treatment and Disposal Facility (CBWTF) Operators, State Pollution Control Boards / Pollution Control Committees and Urban Local Bodies. 1st version of the App has been introduced and a demonstration was given to SPCBs/PCCs and other stakeholders in May, 2020.
- This software tracks COVID-19 related biomedical waste at the time of generation, collection and disposal. Health Care facilities/Hospitals (HCF), Quarantine Centres, Isolation wards, Testing Labs, Covid-19 Sample Collection Centres and Urban Local Bodies monitoring quarantine centres/homecare report generation of waste, whereas collection and disposal is reported by Transporter (waste handler) and CBWTF operator respectively. This Application provides dashboard for monitoring daily waste collection and disposal including tracking of vehicles. There is provision for SPCBs to monitor State’s data and report daily status.
- CPCB vide letter dated 21.07.2020 issued Show Cause Notice to 106 nos. of CBWTFs for not using the COVID19BWM tracking App. As on 08/09/2020, about 150 out of 198 CBWTFs are using the Tracking App. More than 5000 generators of COVID19waste have registered and used the Tracking App.
- As per the information submitted by State Pollution Control Boards/Pollution Control Committees as well as daily data received from COVID19BWM tracking App., the average quantity of COVID-19 related biomedical Waste generation is about 169 TPD for the month of August 2020.
- About 198 nos. of CBWTFs (almost all facilities) are involved in treatment & disposal of COVID-19 biomedical waste across the Country.
- Monthly status of COVID-19 biomedical waste generation and treatment facilities involved in collection, treatment & disposal since June 2020 are given below.

COVID19 Biomedical Waste Generation

Month of August

S.No.	Name of States/UTs	COVID 19 BMW (Tons)	No. of CBWTFs engaged
1	Andaman & Nicobar	INP	0*
2	Andhra Pradesh	118.82	11
3	Arunachal Pradesh	3.80	0
4	Assam	12.57	1
5	Bihar	41.54	4
6	Chandigarh	55.34	1
7	Chhattisgarh	13.39	4
8	Daman & Diu*	0.00	1**
9	Delhi	296.14	2
10	Goa	INP	0*
11	Gujarat	360.04	20
12	Haryana	210.69	11
13	Himachal Pradesh	4.94	2
14	Jammu and Kashmir	51.77	2
15	Jharkhand	2.59	4
16	Karnataka	588.03	26
17	Kerala	588.05	1
18	Lakshadweep	INP	0*
19	Madhya Pradesh	106.59	13
20	Maharashtra	1359.00	29
21	Manipur	2.09	1
22	Meghalaya	6.34	2
23	Mizoram	INP	0*
24	Nagaland	3.10	0
25	odisha	109.19	5
26	Puducherry	41.54	1
27	Punjab	21.19	5
28	Rajasthan	50.43	8
29	Sikkim	0.30	0
30	Tamil Nadu	481.10	8
31	Telangana	24.04	11
32	Tripura	INP	0*
33	Uttarakhand	41.85	2
34	Uttar Pradesh	408.86	18
35	West Bengal	235.12	6
	Total	5238.45	198.00

*As per earlier information provided by States/UTs.

**Using CBWTF, Surat, Gujarat for disposal of biomedical waste.

COVID19 Biomedical Waste Generation
Month of July

S.No.	Name of States/UTs	COVID 19 BMW (Tons)	No. of CBWTFs engaged
1	Andaman & Nicobar*	INP	0*
2	Andhra Pradesh	182.81	11
3	Arunachal Pradesh	3.36	0
4	Assam	20.68	1
5	Bihar	20.76	4
6	Chandigarh	5.65	1
7	Chhattisgarh*	INP	4
8	Daman & Diu*	INP	1**
9	Delhi	389.58	2
10	Goa	0.81	0
11	Gujarat	306.14	20
12	Haryana	184.18	11
13	Himachal Pradesh	12.50	2
14	Jammu & kashmir	9.77	2
15	Jharkhand	INP	4
16	Karnataka	540.28	26
17	Kerala	293.32	1
18	Lakshadweep*	INP	0*
19	Madhya Pradesh	56.40	13
20	Maharashtra	1180.00	29
21	Manipur	0.20	1
22	Meghalaya	1.74	2
23	Mizoram*	INP	0*
24	Nagaland	3.40	0
25	odisha	106.63	5
26	Puducherry	35.82	1
27	Punjab	35.59	5
28	Rajasthan	7.15	8
29	Sikkim	0.20	0
30	Tamil Nadu	401.29	8
31	Telangana	10.50	11
32	Tripura	INP	0*
33	Uttarakhand	0.82	2
34	Uttar Pradesh	307.54	18
35	West Bengal	136.37	6
	Total	4253.46	198

*As per earlier information provided by States/UTs.

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**COVID19 Biomedical Waste Generation:
Month of June**

S.No.	Name of States/UTs	COVID 19 BMW (Tons)	No. of CBWTFs engaged
1	Andaman and Nicobar	0.42	0
2	Andhra Pradesh	165.48	11
3	Arunachal Pradesh	3.36	0
4	Assam	28.38	1
5	Bihar	6.84	4
6	Chandigarh	29.85	1
7	Chhattisgarh	11.19	2
8	Daman & Diu	0	1**
9	Delhi	333.42	2
10	Goa	0.81	0
11	Gujarat	350.79	20
12	Haryana	75.33	11
13	Himachal Pradesh	3.81	2
14	Jammu and Kashmir	10.71	2
15	Jharkhand	INP	2
16	Karnataka	84	25
17	Kerala	141.3	1
18	Lakshadweep	0.3	0
19	Madhya Pradesh	224.58	11
20	Maharashtra	524.82	29
21	Manipur	5.13	1
22	Meghalaya	5.1	2
23	Mizoram	4.2	0
24	Nagaland	3.6	0
25	odisha	31.86	5
26	Puducherry	18.63	2
27	Punjab	48	5
28	Rajasthan	177	8
29	Sikkim	6	0
30	Tamil Nadu	312.3	8
31	Telangana	12.3	11
32	Tripura	0.45	0
33	Uttarakhand	0.45	2
34	Uttar Pradesh	210	18
35	West Bengal	195	6
	Total	3025.41	193

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