



HARYANA STATE POLLUTION CONTROL BOARD
C-11, SECTOR-6, PANCHKULA
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NO.HSPCB/SWM/ 2020/

Dated:

To

The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
Delhi-110032 .


Subject: Submission of Annual Report for the year 2019-2020 under Solid Waste Management Rules, 2016.

Kindly refer to the subject noted above.

In this connection, I have been directed to enclose herewith the Annual Report prepared under Solid Waste Management Rules, 2016 for the year 2019-2020 for your information and further necessary action please.

Further, the delay in submission of report due to the pandemic Covid-19 may kindly be condoned.

DA/As above


Sr. Environmental Engineer
For Member Secretary

Endst. NO.HSPCB/SWM/ 2020/ 13082-83

Dated: 29/10/2020

A copy of the above is forwarded to the following for information and further necessary action

- ✓ Sr. Environmental Engineer (IT), HSPCB. He is requested to upload the Annual Report under Solid Waste Management Rules, 2016 for the year 2019-2020 on the website of the Board.
2. Nodal Officer, E-Sanyojan, HSPCB. It is requested to upload the Annual Report under Solid Waste Management Rules, 2016 for the year 2019-2020 on the E-Sanyojan Portal of CPCB.

DA/As above


Sr. Environmental Engineer
For Member Secretary 

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Form V

Part-A

Format of Annual Report to be submitted by the State Pollution Control Board or Pollution Control Board Committee to the Central Pollution Control Board

1.	Name of the State	Haryana
2.	Name and address of the state pollution control board	Haryana State Pollution Control Board, C-11, Sector-6, Panchkula, Haryana
3.	Number of local bodies responsible for management of solid waste in the state/union territory under these rules.	86
4.	No. of authorization received	0
5.	A summary statement on progress made by local body in respect of solid waste management	Attached as Annexure I
6.	A summary statement on progress made by local body in respect of waste collection segregation transportation and disposal	Attached as Annexure II
7.	A summary statement on progress made by local body in respect of implementation of schedule - II	Attached as Annexure III

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Part B

Town / Cities

Total number of towns /cities 86
 Total number of ULBs 86
 Number of class I and Class II cities /towns 29

Authorization status (Name /Number)

Number of applications received 0
 Number of authorization granted 0
 Authorization under scrutiny 0

Solid waste generation status

Solid waste generation in the State (TPD) 5231.9
 Collected (TPD) 4808.8
 Treated (TPD) 1620.6
 Land filled (TPD) 3188.2

Compliance to schedule I of SW Rules (Number /Names of Towns/ Cities)

Good practices in cities / towns Yes (overall)
 House to house collection 93%
 Segregation 64%
 Storage Yes (Partial)
 Covered transportation 86 (ULBDs)

Processing of SW (Number / Names of towns/ capacity)

Solid waste processing facilities setup (MC Wise)

Sr. no.	Composting	Vermi Composting	Biogas	RDF / Pelletization
1	25	10	1	3

Processing facility operational

Sr. no.	Composting	Vermi Composting	Biogas	RDF / Pelletization
1	25	10	1	3

Processing facility under installation / planned :

Sr. no.	Composting	Vermi Composting	Biogas	RDF / Pelletization
1	7	1	0	0

Waste to energy plants: (Number/ names of towns/ capacity)

Sr. no.	Plant location	Status of operation	Power generation (MW)	Remarks
1			Nil	

Disposal of solid waste (number/names of towns/ capacity)

Landfill sites identified 4
 Land fill constructed 00
 Landfill under construction 00
 Landfill in operation 00
 Landfill exhausted 00
 Land filled capped 00

Solid waste dumpsites (number/ names of towns / capacity)

Total number of existing dumpsites 69
 Dumpsites reclaimed / capped 00
 Dumpsites converted to sanitary landfill 00

Monitoring at waste processing/ landfills sites

Sr. no.	Name of facilities	Ambient Air	Groundwater	Leachate quality	Compost quality	VOCs
1.	Common Municipal Solid Waste Management Facility (CMSWMF) site at Village Bandhwari, Gurugram	Nil	Analysis report attached as Annexure IV	Analysis report attached at Annexure V	Nil	Nil
2.	Sector, 23 Dumping Ground, Panchkula	Nil	Samples of Water of Tubewells of PHED around dumping ground are collected on regular basis. Analysis report attached as Annexure IV	Nil	Nil	Nil

Status of Action Plan prepared by Municipalities

Total number of municipalities

86

Number of action plan submitted

Action Plan has already submitted.

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Annexure I

Sub: Summary statement on progress made by Local Body in respect of Solid Waste Management.

As per the annual report submitted by Urban Local Bodies (ULB) department, there are 86 Urban Local Bodies in the State. All these 86 nos. of ULBs have generated about 5231.9 Tonnes per day (TPD) of Municipal Solid Waste, out of which 4808.8 TPD is collected. Out of total collected waste, 1620.6 TPD has been treated and processed and remaining 3188.2 TPD waste has been dumped.

As already provided the Government of Haryana has adopted cluster based integrated approach for Solid Waste Management. The entire State has been broadly divided into fourteen (14) clusters out of which (4) will be Waste to Energy i.e. Faridabad, Rohtak, Sonapat, Ambala and (10) will be Waste to Compost/RDF processing i.e. Jind, Hisar, Dabwali with Sirsa, Rewari, Panchkula, Bhiwani, Farukhnagar, Yamunanagar, Punhana, and Fatehabad. The Present status of all the 14 Clusters is summarized in *Table 1*.

Urban local bodies are doing collection of domestic, trade and institutional food/ biodegradable waste from the doorstep or from the community bin on daily basis. Local bodies are using containerized handcarts/tricycles/ Tractor Trolley / Refuse Compactor or other similar means for the primary collection of waste stored at various sources of waste generation. The solid waste thus collected from households and other sources is transported to Primary Collection Centre (PCC), where, the waste would be primarily segregated i.e. recyclables shall be sorted out by the workers and stored separately. For secondary transportation of solid waste from the Primary Collection Centre (PCC) to the designated processing plant site or sanitary landfill site/ dumping sites, "Dumper Placers with twin bin containers" are provided.

Presently in the State there are 25 nos. Solid Waste Composting Facilities, 10 nos. Vermi Composting Facilities and 03 nos. RDF Facilities and 1 no. of Bio Gas Plant. Rejects and residues collected from the above mentioned processes are disposed in dumping sites and further proposed to be processed for energy recovery.

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Table-1

Present Status of the all 14 Clusters

S.No.	Name of Clusters	Name of ULBs within Cluster	Estimated Waste Quantity (TPD)	Remarks
1.	Gurugram-Faridabad	Gurugram and Faridabad	1500	Works has been awarded and work is likely to be completed by July, 2022.
2.	Sonepat-Panipat	Sonepat, Panipat, Samalkha and Gannaur.	500	Work in progress and likely to be completed by March, 2021.
3.	Ambala-Yamunanagar	Ambala, Naraingarh, Yamuna Nagar, Radaur, Barara, Sadhura	675	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
4.	Karnal-Kaithal-Kurukshetra	Indri, NilokheriTarori, Karnal Gharaunda, Nissing, Assandh, Thanesar, Shahbad, Ladwa, Kaithal, Kalayat, Rajound, Cheeka, Pundri	590	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
5.	Rohtak-Bahadurgarh-Jhajjar	Kalanaur, Meham, Rohtak, Gohana, Bahadurgarh, Kharkhoda, Julana, Jhajjar, Sampla, Beri	601	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
6.	Hisar-Fatehabad	Hisar, Barwala, Hansi, Siwani, Fatehabad, Bhuna, UklanaMandi, Ratia, Tohana, JhakaMandi	407	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
7.	Panchkula	Panchkula	155	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
8.	Bhiwani	Bhiwani, Bawanikhera, CharkhiDadri	181	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
9.	Jind	Jind, Narwana, Safidon, Uchana, Narnaund, Sisai, Bass	168	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
10.	Sirsa	Sirsa, Ranla, Ellenabad, Kalanwali, MandiDabwali	146	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
11.	Rewari	Bawal, Dharuhera, Rewari, Mahendergarh, Kanina	466	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
12.	Punhana	Punhana, F/Jhirka, Hathin, Hodal, Palwal, Sohna, Nuh, Tauru	215	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
13.	Farukhnagar	Farukh Nagar, HailyMandi, Pataudi	26	Model document is under approval from Cabinet Committee on Infrastructure (CCI).
		Total	5630	

Sub: Summary Statement on progress made by Local Bodies in respect of waste collection, segregation, transportation and disposal.

As per the status submitted by ULB department, the detail on progress made by Local Bodies in respect of waste collection, segregation, transportation and disposal is given below:

A. Waste Collection

Door to door collection is being done in around 1439 (93%) out of 1540 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 in a segregated manner. A Separate basket/bin is kept in waste collection vehicle/ tricycle for segregated collection of domestic hazardous waste.

Urban local bodies are doing collection of 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 body.

B. Transportation

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, "Dumper Placers with twin bin containers" is provided.

C. Segregation

Out of 1540 wards, source segregation has been achieved in 988 wards (64%) till February 2020 and for coverage in remaining wards rigorous IEC campaign is being organized across the State in all ULBs.

D. Disposal

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 25 nos. Solid Waste Composting Facilities, 10 nos. Vermi Composting Facilities, 1 no. Bio Gas Plant and 03 nos. RDF Facilities.

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Annexure-III

Sub: Summary statement on progress made by local bodies in respect of implementation of Schedule-II.

Presently in the State there are 25 nos. Solid Waste Composting Facilities, 10 nos. Vermi Composting Facilities, 1 no. Bio Gas Plant and 03 nos. RDF Facilities. As per action plan submitted by ULB department. Government of Haryana has adopted cluster based integrated approach for Solid Waste Management. The entire State has been broadly divided into fourteen 14 no. clusters out of which 4 nos. will be waste to energy and 10 nos. will be waste to compost/RDF processing plant.

Waste to energy projects in Gurugram-Faridabad & Sonapat-Panipat has already been allotted to the agencies. The work of waste to energy plant at Sonapat is in progress and approximate 60% work has been completed. The plants is likely to be commissioned by March, 2021.

The total capacity of plant at Sonapat-Panipat will be 700 TPD. The work at Gurugam-Faridabad plant is likely to be completed by July, 2022.



Ground Water Sample Gurugram																					
Sampling location	Analysis report no.	Date of collection	pH	EC μ S/cm	BOD mg/l	COD mg/l	TDS mg/l	TSS mg/l	TH mg/l	Cl mg/l	SO ₄ mg/l	PO ₄ mg/l	F mg/l	Fe mg/l	Ni mg/l	T.Cr mg/l	CN mg/l	Zn mg/l	Ca mg/l	Mg mg/l	Na mg/l
Sansad Sahid B.S. Adana Petrol Pump, Opp. Bandhwari Municipal																					
	1093	03.10.019	6.9	970	ND	ND	480	6	60	40	ND	0.5	ND	ND	ND	ND	ND	ND	12	06	ND
Teen Murti Hanuman Mandir, Gurugram Faridabad Road, Near Toll Plaza, Vill. Bandhwari, Gurugram																					
	1094	03.10.019	7.0	1120	ND	ND	570	8	85	80	ND	0.4	ND	ND	ND	ND	ND	ND	09	11	42
Submersible Pump of House of Sh. Anant Lal, Vill. Bandhwari																					
	1091	03.10.019	7.0	1740	ND	ND	860	7	95	50	ND	0.7	ND	ND	ND	ND	ND	ND	16	7	34
Mandir, Vill. Bandhwari, Gurugram																					
	1092	03.10.019	7.1	1580	ND	04	740	9	70	65	ND	0.4	ND	ND	ND	ND	ND	ND	24	3	22
Lala Ram House Near School Bandhwari Vill. Bandhwari, Distt. Gurgaon																					
	1095	03.10.019	7.2	1650	ND	08	860	7	105	75	ND	0.7	ND	ND	ND	ND	ND	ND	16	8	38
Chanderpal House Near School Bandhwari Vill. Bandhwari, Distt. Gurugram																					
	1096	03.10.019	6.9	1390	ND	04	660	10	90	95	ND	0.3	ND	ND	ND	ND	ND	ND	14	13	48

Ground Water Sample Panchkula																									
Sampling location	Analysis report no.	Date of collection	pH	EC μ S/cm	BOD mg/l	CO D mg/l	TDS mg/l	TSS mg/l	TH mg/l	Cl mg/l	SO ₄ mg/l	F mg/l	Cd mg/l	Fe mg/l	Ni mg/l	T.Cr mg/l	Cu mg/l	Zn mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	NO ₃ mg/l	TC MPN /100 ml	FC mg/l
Tubewell no. 1, Sec-23, Panchkula																									
	1194	08.08.2019	7.82	618	BDL	6.4	380	BDL	254	18	BDL	0.09	BDL	0.031	BDL	BDL	BDL	0.048	66.4	21.3	38	0.7	0.09	170	Nil
	1582	15.10.2019	8.08	640	BDL	19.2	386	BDL	272	28	-	-	-	0.091	BDL	BDL	BDL	0.05	76.0	19.9	-	-	-	-	-
Tubewell no. 2, Sec-24, Panchkula																									
	1195	08.08.2019	7.82	619	BDL	10.4	380	BDL	236	20	BDL	0.16	BDL	0.079	BDL	BDL	BDL	0.114	62.4	19.4	37.0	0.4	0.06	120	Nil
	1583	15.10.2019	8.15	640	BDL	14.0	390	BDL	300	26	-	-	-	0.057	BDL	BDL	BDL	0.068	88	19.4	-	-	-	-	-
Tubewell no. 3, Sec-24, Panchkula																									
	1196	08.08.2019	7.80	619	BDL	8.8	380	BDL	210	16	BDL	0.18	BDL	0.012	BDL	BDL	BDL	0.063	34.9	16.0	41	0.7	0.05	221	Nil
	1584	15.10.2019	8.03	630	BDL	11.6	392	BDL	164	32	-	-	-	0.070	BDL	BDL	BDL	0.091	52	8.2	-	-	-	-	-
Tubewell no. 4, Sec-24, Panchkula																									
	1197	08.08.2019	7.73	620	BDL	8.0	382	BDL	228	16	BDL	0.10	BDL	0.050	BDL	BDL	BDL	0.139	55.2	21.8	38	0.5	0.03	94	NIL
	1585	15.10.2019	8.27	636	BDL	10.4	374	BDL	212	64	-	-	-	0.138	BDL	BDL	BDL	0.062	64	12.6	-	-	-	-	-
Tubewell no. 5, Sec-24, Panchkula																									
	1198	08.08.2019	7.78	613	BDL	9.2	378	BDL	194	20	BDL	0.12	BDL	0.063	BDL	BDL	BDL	0.077	48	17.9	44	0.8	0.04	130	Nil
	1586	15.10.2019	7.69	600	BDL	12.8	362	BDL	182	26	-	-	-	0.081	BDL	BDL	BDL	0.082	48	15.0	-	-	-	-	-

Sampling location	Anal ysis rep ort no.	Date of colle ction	pH	EC μS/c m	BOD mg/l	CO D mg/l	TDS mg/l	TSS mg/l	TH mg/l	Cl mg/l	SO ₄ mg/l	F mg/l	Cd mg/l	Fe mg/l	Ni mg/l	T.Cr mg/l	Cu mg/l	Zn mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l	NO ₃ mg/l	TC MPN /100 ml	FC mg/l		
Tubewell no. 6, Sec-24, Panchkula																											
	1199	08.08.2019	7.78	614	BDL	7.2	374	BDL	200	30	BDL	0.19	BDL	0.054	BDL	BDL	BDL	0.1	54.4	15.5	40	0.6	0.08	172	Nil		
	1587	15.10.2019	8.08	640	BDL	11.2	384	BDL	258	26	-	-	-	0.064	BDL	BDL	BDL	0.098	72	18.9	-	-	-	-	-		
Tubewell, Sec-4, Panchkula																											
	1200	08.08.2019	7.82	616	BDL	12.8	374	BDL	206	16	BDL	0.23	BDL	0.030	BDL	BDL	BDL	0.048	52	18.4	41	0.8	0.11	109	Nil		
	1588	15.10.2019	7.79	598	BDL	10.8	344	BDL	190	26	-	-	-	0.156	BDL	BDL	BDL	0.115	52	14.5	-	-	-	-	-		

Leachate quality of Gurugram of Common Municipal Solid Waste Management Facility, Vill. Bandhwari

Sampling location	Analysis report no.	Date of collection	pH	EC μ S/cm	BOD mg/l	COD mg/l	TDS mg/l	TSS mg/l	TH mg/l	Cl mg/l	Cd mg/l	Fe mg/l	Ni mg/l	T.Cr mg/l	Cu mg/l	Zn mg/l	Ca mg/l	Mg mg/l	Na mg/l	K mg/l
M/s Common Municipal Solid Waste Management Facility, vill. Bandhwari, Gurugram																				
Leachate pond	638	01.05.2019	8.22	26600	5400	17200	16492	766	800	6000	N.D	1.970	N.D	N.D	0.69	0.799	240	48.6	3600	1600
Treated leachate	652	01.05.2019	7.30	7190	120	879.2	5198	210	-	2250	N.D	0.184	N.D	N.D	N.D	0.106	-	-	-	-