



TELANGANA STATE POLLUTION CONTROL BOARD

ParyavaranaBhavan, A-III, Industrial Estate, Sanathnagar, Hyderabad-500 018
Phones : 040-23887500 Fax: 040 – 23887519

Lr. No. MSW-03/TSPCB/CPCB-AR/2019

Date:25.07.2019

To
The Chairman,
Central Pollution Control Board,
Ministry of Environment & Forests
Parivesh Bhavan, C.B.D. Cum-Office Complex,
East Arjun Nagar, Shahdara,
New Delhi-110 032.

Sir,

Sub: TSPCB – Solid Waste Management Rules, 2016 – Annual Report in Form-V for the year 2018-19 of TSPCB -Furnished - Reg.

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This is with reference to the subject matter mentioned above. The Annual Report pertaining to TSPCB in Form-V for the year 2018-19 along with Annexure-I to Annexure-III are herewith enclosed.

This is submitted for kind information.

Yours faithfully,

Sd/-
MEMBER SECRETARY

Encl: 1) Form-V
2) Annexures-I to III

//T.C.F.B.O//

JOINT CHIEF ENVIRONMENTAL ENGINEER
(UNIT-II)

FORM – V
ANNUAL REVIEW REPORT (for the year 2018-19)

PART A


To
The Chairman,
Central Pollution Control Board,
Ministry of Environment & Forests,
Parivesh Bhavan, East Arjun Nagar,
New Delhi – 110 032.

1.	Name of the State/Union territory	:	Telangana State
2.	Name & address of the State Pollution Control	:	Telangana State Pollution Control Board, Paryavaran Bhavan, A-III, Industrial Estate, Sanathnagar, Hyderabad- 500 018
3.	Number of local bodies responsible for management of solid waste in the State/Union territory under these rules	:	Corporations – 6 No's Municipalities- 68 No's Total - 74 No's In addition 68 new ULBs have been formed in the month of March, 2019 (total-142 ULBs)
4.	No. of authorisation application Received	:	Nil
5.	A Summary Statement on progress made by local body in respect of solid waste management	:	Annexure –I
6.	A Summary Statement on progress made by local bodies in respect of waste collection, segregation, transportation and disposal	:	Annexure – II
7.	A summary statement on progress made by local bodies in respect of implementation of Schedule II	:	Annexure – III

Sd/-
MEMBER SECRETARY

Place: Hyderabad
Date: 25.07.2019

//T.C.F.B.O//


JOINT CHIEF ENVIRONMENTAL ENGINEER
(UNIT-II)

PART B

Total Number of towns/cities	- 74
Total number of ULBs	- 74
COMING ULBs	-
Number of corporation Class I, Class – II, Special grade , Class and Nagara Panchayath(NP)	No. of Corporations - 06 Nos. Municipalities - 68 Nos. (Class I- 08 Class II - 15 Special Grade - 2 Class III –18 Nagara Panchayath (NP) – 25)
Authorization status (names/number)	
Number of applications received	- 1
Number of authorizations granted	- 1
Authorizations under scrutiny	- Nil
SOLID WASTE Generation status	
Solid waste generation in the state (TPD)	8497 MTD (5545+2871)
Collected	8360 MTD
Treated	5747 (5447 + 300) MTD
Sanitary land filled	869 TPD(GHMC)
Compliance to Schedule I of SW Rules (Number/names of towns/capacity)	
Good practices in cities/towns	
House-to-house collection	House to House collection of MSW has been practicing in all the ULBS in the State. As per the information furnished by the Commissioner & Director of Municipal Administration 95.9% of households covered under door to door collection.
Segregation .	About 43% of households in the State were covered under source segregation (GHMC-62% & Other ULBs-24%).
Storage	Two bin system is adopted in GHMC area and other ULBs.
Covered transportation	In GHMC 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.

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

Solid Waste processing facilities setup and under operational:

Sl. No.	Composting/ Vermin-composting (63)	Dry Resource Collection Centres (31)	Biogas (3)	RDF/Pelletization (1)
1)	GHMC (Integrated facility)	GHMC (78 Nos.)	1) GHMC (at integrated facility)	<ul style="list-style-type: none"> • M/s.Integrated Municipal Solid Waste Management Project, (proposed by GHMC), Sy.No.173, Jawaharnagar (V), Shameerpet (M), Rangareddy District has established compost plant & RDF for processing MSW of 5500 TPD. • The Greater Hyderabad Municipal Corporation (GHMC) has constructed the sanitary landfill facility and operating the same.
2)	Warangal Municipal Corporation	Warangal Municipal Corporation (15 Nos.)	2) Warangal Municipal Corporation has 2 Nos. of Bio Methanation projects with capacity of 2 MTD to operate power plant of capacity 24 KW (each).	
3)	Vemulawada(NP)	Nizamabad (M Corp.)	Siddipet	
4)	Bodhan (M)	Kodad		

5)	Badangpet(NP)	Siddipet (M)		
6)	Gadwal (M)	Medchal(NP)		
7)	Ibrahimpattanam(NP)	Medak (M)		
8)	Parkala(NP)	Nagarkurnool(NP)		
9)	Mandamarri (M)	Mahbubnagar (M)		
10)	Gajwel(NP)	Boduppal		
11)	Madhira(NP)	Sangareddy (M)		
12)	Pedda-Amberpet(NP)	Perjadiguda		
13)	Zahirabad (M)	Armur (M)		
14)	Sadasivpet (M)	Sircilla (M)		
15)	Jammikunta(NP)	Bhainsa (M)		
16)	Bhainsa (M)	Miryalaguda (M)		
17)	Kagaznagar (M)	Kamareddy (M)		
18)	Nagarkurnool(NP)	Sathupalle (NP)		
19)	Meerpet	Nirmal (M)		
20)	Boduppal	Gadwal (M)		
21)	Huzurnagar(NP)	Bhongir (M)		
22)	Kothagudem (M)	Karimnagar (M Corp.)		
23)	Kollapur(NP)	Nalgonda (M)		
24)	Yellandu (M)	Gajwel(NP)		
25)	Wanaparthy (M)	Suryapet (M)		
26)	Pedapalli(NP)	Tandur (M)		
27)	Metpalle (M)	Metpalle (M)		
28)	Dubbaka(NP)	Dubbaka(NP)		
29)	Nizamabad (M Corp.)	Kalwakurthy(NP)		

30)	Mancherial (M)	Jagtial (M)		
31)	Badepally(NP)	Bellampally		
32)	Miryalaguda (M)			
33)	Tandur (M)			
34)	Kalwakurthy(NP)			
35)	Huzurabad(NP)			
36)	Manugur (M)			
37)	Vicarabad (M)			
38)	Narsampet(NP)			
39)	Shadnagar			
40)	Adilabad (M)			
41)	Kamareddy (M)			
42)	Jagtial (M)			
43)	Medchal(NP)			
44)	Ramagundam (M)			
45)	Suryapet (M)			
46)	Nalgonda (M)			
47)	Mahbubnagar (M)			
48)	Kodad			
49)	Karimnagar (M Corp.)			
50)	Koratla (M)			
51)	Medak (M)			
52)	Khammam (M)			
53)	Jallpally			
54)	Sangareddy (M)			
55)	Bhongir (M)			

56)	Sircilla (M)			
57)	Perjadiguda			
58)	Siddipet (M)			
59)	Armur (M)			
60)	Atchampet(NP)			
61)	Nirmal (M)			
62)	Bellampalle (M)			
63)	Sathupalle (NP)			

Waste to Energy:

SI.No.	Plant Location	Status of Operation	Power generation (MW)	Remarks
1.	M/s.Integrated Municipal Solid Waste Management Project operated by RamkyEnviroEngg. Ltd.,Jawaharnagar, Hyderabad	Operational since 2012	NA	Presently, they are processing around 5545 MTD of waste, and manufacturing compost, vermin compost and RDF etc. Dry recyclables are being sent for recycling.

Processing facility under installation/planned:

SI.No.	Composting/ Vermin-composting	Biogas	RDF/Pelletization
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1.	Narsampet, Bhupalpally, Jammikunta, Huzurabad, Bellampally, Bhainsa, Peddamberpet, Badangpet, Kamareddy, Ibrahimpatnam, Huzurnagar, Bodhan, Kalwakurthy, Kollapur, Achampet, Nagarkurnool.	Nizambad and Mahaboobnagar.	--
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Waste – to – Energy Plants: (Number/names of towns/capacity)

Sl. No.	Plant Location	Status of Operation	Power generation (MW)	Remarks
1	19.8 MW Capacity at Jawaharnagar	The construction works for WtE are under progress and propose to be commissioned by Oct, 2019..	19.8 MW	The TSPCB issued CFE to the M/s Hyderabad Integrated Waste Management project for establishing Waste to Energy Plant of capacity 19.8 MW
2	11 MW Waste to Energy Capacity Chennaravulapally, Bibi Nagar (M/s RDF Power Projects)	Undergoing pre-commissioning activities.	11.0 MW	Presently, the industry has not commissioned due to financial issues. (IL & FS)
3	12 MW Waste to Energy Capacity Yacharam, Ibrahimpatnam	Permission for granting extension of time to agency(M/s. SVGPPL) for entering into PPA. with TSSPDCL is under examination of GHMC	12.0 MW	
4	12 MW by using Refuse Derived Fuel (RDF) (M/s. Shalivahana (MSW) Green Energy Ltd., Sy.No.70, Rebladevpally, Sultanabad (M), Karimnagar District).	Presently, the unit is not in operation due to non-viability of tariff.	12.0 MW	The Board has issued CFO vide letter dated 12.01.2017 which is valid up to 31 st October, 2019

5	12.6 MW Waste to Energy Plant (M/s. Hema Sri Power Projects Ltd., Plot No. 1, Hymanagar, Suryapet, Nalgonda District)	Presently, the unit is not in operation	12.6 MW	The Board has issued CFO vide letter dated 23.02.2017 which was valid up to 28 th February, 2018
4	The Government of Telangana have also entered MOU with Government of Japan through Clean Authority of Tokyo (CAT23) for establishment of Advance incineration plant at Warangal and for surrounding areas of GHMC and the studies are under process.			

Disposal of Solid Waste (number/names of towns/capacity):

Landfill sites identified	<ol style="list-style-type: none"> 1) Greater Hyderabad Municipal Corporation at Jawaharnagar Village. 2) Greater Warangal Municipal Corporation. 3) Nizambad Municipal Corporation. 4) Karimnagar Municipal Corporation.
Landfill constructed	Greater Hyderabad Municipal Corporation at Jawaharnagar Village.
Landfill under construction	--
Landfill in operation	Greater Hyderabad Municipal Corporation at Jawaharnagar Village.

Landfill exhausted

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Landfilled capped

Greater Hyderabad Municipal Corporation
at Jawaharnagar Village.

Solid Waste Dumpsites (number/names of towns/capacity):

Total Number of existing dumpsites

73Nos.

Dumpsites reclaimed/capped

Greater Hyderabad Municipal Corporation
at Jawaharnagar Village.

Dumpsites converted to sanitary landfill

Greater Hyderabad Municipal Corporation
at Jawaharnagar Village.

Monitoring at Waste processing/Landfills sites

Sl. No	Name of facilities	Ambient air	Groundwater	Leachate quality	Compost quality	VOCs
1.	M/s. Integrated Municipal Solid Waste Management project (IMSWMP), Jawaharnagar, Shameerpet RR Dist.	Monitoring of Ambient air conducted near landfill Phase-III on North side (Down wind).	Monitoring of surface water bodies and ground water around MSW sites conducted & is being carried out.	Monitoring of Leachate samples from the premises of M/s IMSWMP, Jawa harnagar, Shameerpet, RR Dist. is being carried out.		

Status of Action Plan prepared by Municipalities

Total number of municipalities:	73
Number of Action Plan submitted:	<p>As per the Hon'ble National Green Tribunal (NGT) orders and Swachh Bharat Mission Guidelines, Detailed Project Reports for all the 73 ULBs (GHMC is already having the action plan / DPR) are prepared and submitted. As per the recommendations in the DPRs, facilities will be set up for MSWM in the State.</p> <ul style="list-style-type: none"> • The following methods of treatments of Municipal Solid Waste was proposed in the DPRs <ol style="list-style-type: none"> 1. Aerobic compositing of wet waste 2. Setting up of dry resource collection centres for collection of dry waste 3. Development of regional Scientific land fill sites

ANNEXURE – I

Summary Statement on Progress made by Local Bodies in respect of Solid Waste Management

There are 74 Urban Local Bodies (ULBs) existing in Telangana State and among them, 12 Nos. are Class-I Municipalities. About 8497 TPD of Municipal Solid Waste (MSW) is being generated from these ULBs and about 8357 TPD is collected every day, 5759 TPD is treated, 869 is going to landfill and remaining is disposed on the open landfill. 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.

The following municipal solid waste processing plants are located in the State:-

- **M/s. Hyderabad Integrated Municipal Solid Waste Management Project (HIMSWMP)** – 6,275 TPD is operating MSW processing facility at Sy.No.173, Jawaharnagar (V), Shameerpet (M), Rangareddy District. This facility processes and disposes the MSW generated in GHMC area. The provision of scientific landfill, green belt, reclamation etc., are under progress.

➤ **Power Plant & Processing facilities:**

Sl. No.	Description of the facility	Capacity
1.	RDF Plant (2X 1200 TPD)	2400 TPD
2.	Compost Plant (3X680 TPD)	2040 TPD
3.	Recycling Complex (Plastic, Paper, Metal, Rubber, Glass etc.)	600 TPD
4.	Land fill with leachate collection and treatment system	735 TPD

- **M/s. Shalivahana (MSW) Green Energy Ltd., Sy.No.70, Rebladevpally, Sultanabad (M), Karimnagar District** obtained CFO of the Board to operate waste to energy project of capacity 12 MW by using Refuse Derived Fuel (RDF) generated from processing of 412 TPD of RDF using MSW generated in the municipalities of Karimnagar, Ramagundam, Jagitial, Siricilla, Korutla, Metpalli and Siddipet. The Board has issued CFO vide letter dated 12.01.2017 which was valid up to 31st October, 2019. Presently, the unit is not in operation due to non-viability of tariff.
- **M/s. Hema Sri Power Projects Ltd., Plot No. 1, Hymanagar, Suryapet, Nalgonda District**

The Municipal Administration & Urban Development (J2) Department by G.O.Ms.No.168 M.A, dated 15.04.2006 permitted M/s. Hema Sri Power Projects, Nalgonda District to establish and operate power plant (12.6 MW), waste processing and waste disposal facility at Vibhalapuram (V), Mothey (M), Nalgonda District by allotting Warangal, Jangaon, Bhongir, Nalgonda, Miryalguda, Suryapet, Khammam, Yellandu, Kothaudem, Palwancha, Sattupally, Manuguru, Badrachalma, Jaggaiahpet.

The total waste generated from the ULBs allotted to M/s Hema Sri Power Projects is 345 TPD. The Board vide order dated 10.06.2010 issued CFE to M/s Hema Sri Power Projects to establish 12.6 MW power plant. . Presently, the unit is not in operation.

- **M/s. RDF Power Projects., Sy.No.31 & 35 Chinnaravulapalle (V), Bibinagar (M), Nalgonda District**

M/s.RDF Power Projects., Nalgonda is Waste to energy projects (WTE) of capacity 11 MW (Fuel-100% MSW or 75% MSW + 25% Bio-mass) by using 315 TPD MSW. The Board has issued CFE vide order dated 01.03.2006, 04.08.2011, 31.05.2012, 23.11.2012, 13.04.2015 & 10.08.2016 with validity up to 31.03.2018. The Board has issued amendment to the CFE vide order dt. 03.07.2018.

Ministry of New and Renewal Energy (MNRE), New Delhi has selected RDFPPL as one of the project across India for sanctioning capital subsidy and exemption or central excise and custom duty for plant and machinery, vide letter dated 21.11.2011. Due to delay in obtaining sanction of MNRE for availing exemption of central excise & customs, deliveries of plant and machinery to the project site was delayed.

12 MW Capacity Yacharam, Ibrahimpatnam- Permission for granting extension of time to agency(M/s. SVGPPL) for entering into PPA with TSSPDCL is under examination of GHMC

- The Government of Telangana have also entered MOU with Government of Japan through Clean Authority of Tokyo (CAT23) for establishment of Advance incineration plant at Warangal and for surrounding areas of GHMC and the studies are under process.

ANNEXURE – II

S.No.	Parameters	Compliance criteria
1	Collection of municipal solid wastes	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 98% of households covered under door to door collection.
2	Segregation of municipal solid wastes	About 43% of households in the State are covered under source segregation.
4	Transportation of municipal solid wastes	In Hyderabad most of the MSW is transported in covered vehicles. In other municipalities the waste is transported in trucks covered with nets to avoid scattering.
5	Processing of municipal solid wastes	<ul style="list-style-type: none">• Compost plant established 63 municipalities <p>The details of waste to energy plants set up in those states to produce energy</p> <ul style="list-style-type: none">a) 19.8 MW Capacity at Jawaharnagar.b) 11 MW Capacity Chennaravulapally, Bibi Nagar.c) 12 MW Capacity Permission for granting extension of time to agency(M/s. SVGPPL) for entering into PPA. with TSSPDCL is under examination of GHMC.d)12 MW Capacity plant at Karimnagar.e) 12.6 MW capacity plant at Suryapet.f) The Government of Telangana have also entered MOU with Government of Japan through Clean Authority of Tokyo (CAT23) for establishment of Advance incineration plant at Warangal and for surrounding areas of GHMC and the studies are under process.
6	Disposal of municipal solid wastes	<ul style="list-style-type: none">• The Greater Hyderabad Municipal Corporation (GHMC) has constructed the sanitary landfill facility and operating the same.• The rest of the ULBs are dumping the MSW in the existing dump sites.

ANNEXURE – III

IMPLEMENTATION OF SCHEDULE – II

TSPCB has instructed all the Municipalities and Corporations located in the State are to identify the sites for landfills by taking environmental issues into consideration and construct well designed engineered sanitary land fill facilities. Urban Local Bodies (ULBs) are in the process of identifying sites for locating landfills. TSPCB has constituted Site Clearance Committees at District and State level to obtain views of relevant agencies like Development Authorities, Town & Country Planning Department, Ground Water Department and Airport Authorities before issuing Authorizations to ULBs for setting up of waste processing and disposal facilities. As per the recommendation of these committees, necessary standards are being stipulated in the authorization in compliance with schedule –II of the Rules.

