



TELANGANA STATE POLLUTION CONTROL BOARD

Paryavarana Bhavan, A-III, Industrial Estate,

Sanathnagar, Hyderabad-500 018

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BY REGD. POST WITH ACK. DUE

Order No. RR-II-338/TSPCB/U-V/TF/2019 -292

Dt.06.06.2020

Sub: TSPCB – M/s Hyderabad Integrated Municipal Solid Waste Ltd., Sy. No. 173, Jawaharnagar Village, Kapra Mandal, Medhcal-Malkajgiri District – Compliant received from local public regarding fish death in Dammaiguda and Narsimha Cheruvu due to discharge of leachate – Directions issued - Reg.

Ref:

1. Lr. No. 122/APPCB/MSW/SEE/2017-3476, dt. 23.01.2018.
2. Lr No. RR-II-338/TSPCB/U-V/TF/2019 Dated 07.12.2019.
3. Complaints dated 20.05.2020, 21.05.2020 & 22.05.2020 on smell nuisance from the facility. Adverse press clippings appeared in daily news papers on the pollution caused due to operation of MSW processing facility.
4. Inspection of facility by the Board officials on 20.05.2020.
5. Notice dated 23.05.2020.
6. Review meeting held on 30.05.2020.

Ministry of Environment & Forest, Government of India has notified Municipal Solid Waste (Management & Handling) Rules, 2000 under Environment (Protection) Act, 1986 to regulate the management and handling of Solid Wastes. Subsequently, The MoEF & CC, Government of India notified Solid Waste Management Rules, 2016 dated 08.04.2016 under Environment (Protection) Act, 1986 in supersession of the Municipal Solid Waste (Management & Handling) Rules, 2000 to regulate the management and handling of Solid Wastes.

The Greater Hyderabad Municipal Corporation (GHMC) was dumping Municipal Solid Wastes at Jawaharnagar Un-scientificly without complying with provisions of MSW, Rules, 2000 and causing Air & Water Pollution problems in the surroundings areas.

The Board has been receiving many complaints from local public of Dammaiguda, Jawahar Nagar, Nagaram, A.S. Rao Nagar, Sainik Puri, Tirumalagiri, Bollaram and Kompally regarding smell nuisance from the MSW facility

The Board vide orders dated 23.01.2018 & 07.12.2019-issued directions to GHMC to comply with.

Again the Board has been receiving regular complaints on 20.05.2020, 21.05.2020 & 22.05.2020 from local public of Dammaiguda, Jawahar Nagar, Nagaram, A.S. Rao Nagar, Sainik Puri, Tirumalagiri, Bollaram and Kompally regarding smell nuisance from the MSW facility.

The Board officials inspected the MSW facility and surroundings on 20.05.2020 and observed the following :

- i. The details of Municipal Solid Waste Processing Plant as per Consent order is as follows:

Sl. No.	Description of the facility	Capacity
1	RDF Plant (2X 1200 TPD)	2400 TPD
2	Compost Plant (3X 680 TPD)	2040 TPD
3	Bio- Methanization (10 X50 TPD)	500 TPD
4	Recycling Complex (Plastic, Paper, Metal, Rubber, Glass etc.)	600 TPD
5	Land fill with leachate collection and treatment system	735 TPD

The facility is presently receiving about 5500 TPD of Municipal Solid Waste (MSW) from GHMC area and the facility is processing the same.

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DESPATCHED
ON: 12/6/2020

- ii. As per CFO order, the permitted water consumption is as follows:

S.No	Purpose	Permitted Quantity
1.	Domestic	100
2	Floor wash	10
3	Vehicle wash	20
4	Compost plant	350
5	RDF plant	25
6	Gardening	1160
7	Recycling Complex	10
	Total	1675 KLD

- iii. As per CFO, the effluent generation and disposal are as follows:

Outlet No.	Description of Outlet	Max Daily Discharge in KLD	Point of Disposal
1.	Domestic	90	After treatment in STP, shall be used onland for gardening, by meeting the standards stipulated at Schedule - B.
2	Floor washings	6.0	After treatment in ETP followed by RO system, the RO rejects shall be evaporated in MEE followed by ATFD. The RO permeate shall be re-used back or shall be used on land for gardening, by meeting the standards stipulated at Schedule - B, as per the Solid Waste Management Rules, 2016.
	Workshop/vehicle maintenance shed	18.0	
	Leachate generation (from composting plant - 204 KLD, land fill site - 110 KLD, existing dump site - 330 KLD)	644	
	Total	758 KLD	

- iv. The facility is treating the leachate generated from composting plant, secured land fill site, Floor washings and Workshop/vehicle maintenance shed in ETP followed by RO system. MEE and ATFD are established. RO rejects are being stored in solar evaporation ponds. RO permeate is being used for gardening.
- v. During the inspection it was observed that the RO system is not in operation and the facility informed that, they are shifting the RO system from the earlier place to new upgraded facility where MEE and ATFD were installed. It was observed that MEE and ATFD are in operation. The facility has installed coal fired boiler of capacity 3 TPH for MEE and provided APCE as Dust Collector. The facility informed that they are operating MEE and ATFD from Feb'2020. The MEE condensate is being used for Boiler Blow down and the salts from ATFD are being sent to land fill within their facility.
- vi. The leachate which is being generated from the existing (legacy) dump site into the Malkaram cheruvu is being treated by M/s RO Chem, which was engaged by GHMC. The facility is treating an average of 3 MLD of effluents from existing (legacy) dump site. The RO permeate is being disposed through pipeline to Cherial channel and RO reject is being pumped back into the Malkaram cheruvu.
- vii. It was observed that, the RO systems are not in operation due to the breakdown of the pipe from the intake and also observed that, the Malkaram cheruvu and the downwind leachate ponds are full, which is indicating that, they are not operating the RO system regularly and the record book was also not available at the site.
- viii. The facility is not complying with the following Consent conditions of the Board:
- The facility is receiving about 5500 TPD of MSW on an average from last two months. About 7000 Tones of unprocessed waste is stored at the tipping floor facility, which is uncovered causing smell nuisance in the surrounding area.
 - The facility has not provided shed to the additional bio-composting plant which is being used for windrow composting.
 - Habitations are located in the South side of the open windrow composting yard. The additional windrow composting yard is located at the Southern side of the facility at the height of about 30m above the rest of the habitations located at the South-East,

South, South-West, and West directions. The additional windrow composting yard is not provided with a shed and is operating openly. During turning of the windrow piles, the gases trapped at the bottom of the pile are released to the atmosphere. This is a source of smell nuisance to the habitations located in the downwind of the facility. Due to the prevailing climatic conditions and elevation of the compost yard, the smell is being carried to the residential areas located in downwind directions.

- As per the CFO condition, the facility shall provide H₂S & Methane gas collection, utilization / incineration system to minimize odour generation. The facility has provided methane gas collection and flaring system to the closed first secured landfill and at the existing (legacy) dump site near the RO system. However, the same were not in operation. The facility representative informed that since only inert material is being sent to landfill, methane gas generation has exhausted and hence they are not operating the flaring system.
- The facility has not provided H₂S & Methane gas collection, utilization / incineration system to the old (legacy) landfill and the first cell of second secured landfill. During inspection, smell was observed near the gas vents partly provided at the old (legacy) landfill. This is also a significant source of smell nuisance to the habitations located in the downwind direction of the facility.
- As per the CFO, the facility shall install MEE followed by ATFD to treat the RO rejects generated from the leachate treatment plant. It was observed that MEE and ATFD are installed and operating since Feb'2020. The RO rejects are being stored in solar evaporation ponds.
- The facility has also not provided water flow meters for recording daily water consumption for composting plant, RDF plant, recycling complex, floor wash and vehicle wash.
- The facility has not submitted the water consumption details and the details of effluents disposed to MEE and ATFD.
- The RO systems at the existing (legacy) dump to treat the leachate from malkaram cheruvu are not in operation due to the breakdown of the pipe from the intake and also observed that, the Malkaram cheruvu and the downwind leachate ponds are full, which is indicating that, they are not operating the RO system regularly and the record book was also not available at the site.
- As per CFO, the incoming solid waste and the wastes storage area of site shall be covered. However, only part of the unprocessed waste at the tipping floor is covered. The uncovered waste is resulting in smell generation in the surrounding areas.

The Board issued Show Cause Notice to GHMC and facility vide notices dated 23.05.2020 for non-compliance of the directions issued.

The Board has conducted a review meeting on 30.05.2020 with the officials of GHMC and representatives of Hyderabad Integrated Municipal Solid Waste Management Project. Your representatives attended the meeting. After detailed discussions, the Board decided to issue following directions to GHMC to comply with:

1. The GHMC shall take immediate measures to control the leachate generation from the old dump site.
2. The GHMC shall ensure that there shall not be any over flow of contaminated storm water / leachate to the down stream tanks / lakes.
3. The GHMC shall not bring any slaughter waste to Jawahar nagar site and send the same to rendering units.
4. The GHMC shall engage additional RO plants so that the entire legacy leachate is treated on priority. Action plan with specific time lines shall be submitted within 15 days.
5. The GHMC shall provide lined Solar evaporation ponds of sufficient capacity to store the RO rejects generated from treatment of legacy leachate without mixing in leachate ponds within 15 days. They shall submit an action plan for treatment of RO rejects generated due to treatment of legacy leachate within 15 days.
6. The vehicle transporting municipal solid waste shall be covered with tarpaulin covers / closed vehicles and ensure that no spillages occur during the transportation.
7. The GHMC shall take measures to control the odour from the old dump site by mist spraying of the odour reducing chemicals.

8. The alternative site at Dundigal/Lakkadaram shall be made operational at the earliest. Action plan with specific time lines shall be submitted within 15 days.
9. The facility shall ensure that the vehicles carrying waste does not ply from the colony / gated community roads.
10. The facility shall provide gas collection and utilization system so as to avoid spreading of gases in the surrounding areas from the old dump site.

These directions are issued Under Section 31(a) of the Air (Prevention and Control of Pollution) Amendment Act, 1987, Under Section 33 (A) of the Water (Prevention and Control of Pollution) Amendment Act, 1988 and under the Solid Waste Management Rules, 2016.

Sd/-
MEMBER SECRETARY

To
The Commissioner,
Greater Hyderabad Municipal Corporation,
Hyderabad.

Copy to:

1. The JCEE., Z.O., Hyderabad for information and necessary action.
2. The EE, RO.RR-II for information and necessary action.
3. Concerned file.

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


Senior Environmental Engineer (FAC)
(UH-V)

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