



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

Lr. No. RR-II-338/TSPCB/U-V/TF/2019 -271

Dt.06.06.2020

Sub: M/s Hyderabad Integrated Municipal Solid Waste Ltd., Sy. No. 173, Jawaharnagar Village, Kapra Mandal, Medhcal-Malkajgiri District – Water (Prevention and Control of Pollution) Amendment Act, 1988 - Air (Prevention and control of Pollution) Amendment Act, 1987 – Directions issued - Reg.

Ref:

1. CFO order dated 19.02.2019
2. Lr. No. RR-II-338/TSPCB/U-V/TF/2019 – 2010 dated 07.12.2019
3. Complaints from local public regarding smell nuisance from the Municipal Solid Waste facility on 20.05.2020, 21.05.2020 & 22.05.2020.
4. Inspection of your facility by the Board officials on 20.05.2020.
5. Notice dated 23.05.2020.
6. Review meeting held on 30.05.2020.

1. WHEREAS, you are operating the Municipal Solid Waste Management facility located at Sy. No. 173, Jawaharnagar (V), Shameerpet (M), Rangareddy District and engaged in collection, storage, processing and disposal of Municipal Solid Waste
2. WHEREAS, the Board issued CFO to the facility vide order dated 19.02.2019, which is valid up to 31.07.2023.
3. WHEREAS, the Board has received 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.
4. WHEREAS, the Board has reviewed in the status in the TF meeting held on 15.11.2019 and as per the recommendations of the committee, Board issued following directions to your facility vide order dated 07.12.2019.
 - i. The facility shall comply with all the CFO conditions issued by the Board.
 - ii. The facility shall continuously spray the smell absorbent chemicals like Bio enzymes & odour neutralizing solutions in the dump yard area frequently as a measure to arrest smell nuisance.
 - iii. The facility shall ensure that the vehicles carrying waste does not ply from the colony / gated community roads.
 - iv. Pre-process and post-process rejects shall be removed from the processing facility on regular basis and shall not be allowed to pile at the site. Recyclables shall be routed through appropriate vendors. The non-recyclables shall be sent for well designed landfill site(s).
 - v. The facility shall divert storm water drains to minimize leachate generation and prevent pollution of surface water and also for avoiding flooding and creation of marshy conditions.
 - vi. The facility shall pass the gas through gas scrubbers to eliminate the H₂S gas and shall provide flaring system to flare the gas generated from the Legacy dump capped area.
 - vii. The facility shall immediately put into operations of MEE & ATFD to treat the RO rejects from the leachate treatment plant.
 - viii. The facility shall ensure that the waste shall not be stored openly.
 - ix. The facility shall not accept the waste generated from the slaughter houses.
5. WHEREAS, 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.

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DESPATCHED
ON: 12/6/2020

6. WHEREAS, the Board officials inspected your 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.

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 Tons 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.
 - The facility has not yet completed capping of old landfill, as committed during the meeting. The facility representative informed that 80% of capping is completed. During inspection, capping is in progress and no improvement was observed. Non-capping of land fill is also resulting in smell generation. Started the construction of permanent drain system for the leachate collection.
 - 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.
7. WHEREAS, the Board issued Show Cause Notice to the facility and GHMC vide notices dated 23.05.2020 for non-compliance of the directions issued.
8. WHEREAS, 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 your facility to comply with:

- i. The facility shall comply with all the CFO conditions issued by the Board.
 - ii. The facility shall ensure that the waste shall not be stored openly. All the waste shall be covered with tarpulin sheet
 - iii. The facility shall continuously spray the smell absorbent chemicals like Bio enzymes & odour neutralizing solutions in the dump yard area frequently as a measure to arrest smell nuisance.
 - iv. The facility shall provide shed to the additional bio-composting plant which is being used for windrow composting within one month.
 - v. The facility shall ensure that the vehicles carrying waste does not ply from the colony / gated community roads.
 - vi. Pre-process and post-process rejects shall be removed from the processing facility on regular basis and shall not be allowed to pile at the site. Recyclables shall be routed through appropriate vendors. The non-recyclables shall be sent for well designed landfill site(s).
 - vii. The facility shall divert storm water drains to minimize leachate generation and prevent pollution of surface water and also for avoiding flooding and creation of marshy conditions.
 - viii. The facility shall pass the gas through gas scrubbers to eliminate the H2S gas and shall operate flaring system to flare the gas generated.
 - ix. The facility shall continuously operate MEE & ATFD to treat the RO rejects from the leachate treatment plant.
 - x. The facility shall not accept the waste generated from the slaughter houses.
 - xi. The facility shall regularly operate gas collection and flaring/utilization system so as to avoid spreading of gases in the surrounding areas.
 - xii. The industry shall provide water flow meters for recording daily water consumption for composting plant, RDF plant, recycling complex, floor wash and vehicle wash etc.,
9. 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.
10. It is further directed to note that, if you violate any of the directions mentioned above, legal action will be initiated against the facility 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 section 15 of Environment Protection Act, 1986, in the interest of Public Health & Environment.

Sd/-
MEMBER SECRETARY

To
M/s Hyderabad Integrated Municipal Solid Waste Ltd.,
Sy. No. 173, Jawaharnagar Village,
Kapra Mandal, Medhcal-Malkajgiri District.

Copy to:

1. Copy to the Commissioner, GHMC for information and necessary action.
2. Copy to the JCEE, ZO, Hyderabad for information.
3. Copy to the EE, RO, Medchal for information and necessary action. He is directed to inspect the facility and submit the latest compliance report within 15 days for taking further necessary action.
4. Concerned file.

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


Senior Environmental Engineer (FAC)
(UH-V)

