



**CENTRAL POLLUTION CONTROL BOARD**

Zonal Office (South)

Nisarga Bhavan, Thimmaiah Road

Shivanagar, Bangalore - 560 010

**Inspection Report of M/s Madurai Municipal Waste Processing Company Private Limited**

1	Name & Location of STP	M/s Madurai Municipal Waste Processing Company Private Limited Velakkal (V), Avaniapuram Madurai south Taluk, Madurai
2	Agency/ Agencies responsible for handling of MSW	MMWPCPL
3	Generation of MSW per day	Average 550 Mt/day
	Quantity of waste collected every day (from collection points/ dustbins)	450 Mt/day
4	Composition of MSW	
	Compostable (organic) matter	45%
	Inerts	15%
	Recyclables	Plastics-20% Rags-20%
5	Quantity of waste remaining uncollected (from collection points/ dustbins)	Nil
6	Quantity of waste processed	Composting-45% vermin composting- Nil RDF-15% waste to energy- Nil others- production of manure
7	Quantity of waste landfilled per day (T/d)	31.5 T/day of inert materials and desbris are sent for landfilling
	Number of landfills in operation and the area	The facility has earmarked 8.1 hectares of land for landfilling.
	-whether operational landfill are complying with MSW Rules	

## Observations

- M/s Madurai Municipal Waste Processing Company Private Limited located at Velakkal village in Avaniapuram comprises of landfill and compost yard.
- The facility was inspected by Sh. G. Dharmalingam, Scientist-“C” during November, 2013
- The facility has a total land of 44.53 hectares out of which 12.14 hectares is built-up area, 16.19 hectares of land is earmarked for solid waste storage and remaining 16.19 hectares is vacant land. The facility is surrounded by Corporation sewage farm to the East and remaining three sides by vacant land.
- The facility was granted Consent for Establishment under The Water Act, 1974 and under The Air Act, 1981 vide order dated 02.08.2012. Copy of the same is enclosed as **Annexure-I**.
- The facility started its operation without obtaining ‘Consent to Operate’ from TNPCB but however; currently the facility has applied for CTO.
- Reported that the facility has achieved 100% collection & transportation of solid waste from Madurai municipality.
- The MSW is collected from households, hotels, commercial buildings by the Madurai Corporation using hand carts & tricycles and then the waste is transferred to open bins, stainless steel bins and closed dumper bins for secondary collection. The waste is transported to the processing facility using tippers, dumper placer and tractors. Reported that the vehicles are covered with polythene sheet during transportation of wastes.
- It was observed that the wastes are not segregated at source or transit facilities and un-segregated wastes is reaching the processing facility. An area of 16.19 hectares is earmarked for temporary storage of waste.
- The waste is then segregated into decomposable portion, inert materials, recyclable plastics and combustible materials.
- The decomposable portion is treated by aerobic windrow composting and the manure so obtained is sieved, packed and sold. The facility is producing around 90 T/ day of manure. To control odour, EM solution is used in windrows.
- Around 22.5 T/ day of recyclable plastics is sold to plastic recycling unit, the combustible materials is sold to Gasifier units.
- Around 31.5 T/day of inert materials is landfilled. Leachate generated from the landfill is collected in impervious lagoon.
- The water requirement of the facility is 18.5 KLD and is met by ground water source. 10KLD of water is utilized for processing the biodegradable waste and 8.5 KLD is the domestic consumption. 8KLD of sewage is generated which is treated in septic tank