

MUNICIPAL CORPORATION OF GREATER MUMBAI

SOLID WASTE MANAGEMENT DEPARTMENT

In an endeavor to fulfill the MSW (M&H) Rules 2000, MCGM has proposed Integrated Solid Waste Management Programme (ISWMP). As a part of ISWMP, MCGM has established MSW processing plant at Kanjurmarg. After overcoming various hurdles right from 2009, finally MCGM has succeeded to start the project of Bio-reactor land filling having capacity of processing 3000 MT per day on 6.3.2015. Bio-reactor technology is mainly anaerobic technology in principle. In the bio-reactor technology leachate is re-circulated to enhance the decomposition of biodegradable material and recover landfill gas generated to generate electricity, which in turn reduces emission of Green House Gases. Benefits of this Bio-reactor technology are as follows:

- No segregation of waste is required in bio-reactor landfilling (BLF).
- Leachate Recirculation :-
Leachate generated in BLF is re-circulated to enhance degradation process and also reduces load on Leachate Treatment Plant.
- Waste Degradation Time Reduced 75% compared to Sanitary Landfilling :-
Due to leachate re-circulation, waste degradation time is reduced.
- Maximum Gas Production in 75% Less Time :-
Due to fast degradation rate of generation of gas is increased.
- Waste Mining and Reuse of BLF Cells :-
Use of land in an efficient manner, so as to avoid land constraint.
- Gas and/or Electricity Generation :-
Trapping and flaring of gas reduces smell nuisances and trapped gas can be utilized for electricity generation.

All the necessary permission from various authorities were obtained and project is running in line with various environmental conditions laid down by the authorities and same are monitored by respective authorities.

MCGM, in order to have more control on project activity, has appointed NEERI, the Institute of National repute to monitor various environmental parameters and suggest remedies if required. IIT, Mumbai is also parallely monitoring the project activities; as such kind of project is the only of that kind in India.

MCGM is keen to fulfill the target given in Swachha Bharat Mission for processing of MSW to provide clean and healthy environment to the citizens of Mumbai. Kanjur Project will prove to be major milestone in the SWM processing sector.

Sd/-
Ch.E. (SWM)

























