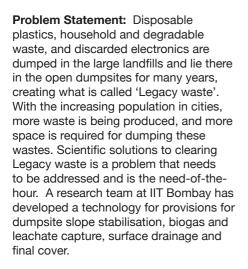
Legacy / Old Dump Waste Management (LDWM)

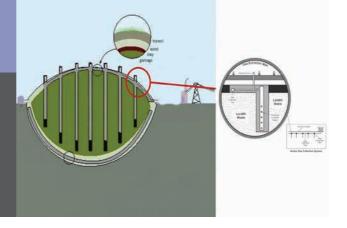


Uniqueness of the Solution: The team introduced a novel method called the Dumpsite Rehabilitation system. The landfills are processed and utilised with the provisions for slope stabilisation, landfill biogas management and leachate capture, surface drainage and final cover. The garbage from the landfills is processed by covering waste with layers of clay and sand and the topmost soil layer. The system is designed such that gas collection pipes are connected to garbage to collect biogas and peripheral pipelines for leachate collection. This LDWM system can be utilised by municipalities to deal with old dumpsites.

Current Status of Technology: The

proposed technique is in the TRL 9 stage. The Legacy Waste Management System (LWMS) has been successfully implemented by Mira Bhayandar Municipal Corporation (MBMC) in 2016, Municipal Corporation of Greater Mumbai (MCGM) in 2018 and Lonavala Municipal Corporation (LMC) in 2018.

Societal Impact: These landfills or open dumpsites are a nuisance due to foul odour, stray animals and health hazards for the people residing nearby dumping sites. Implementation of the Legacy Waste Management System (LWMS) can help reduce the problems faced by the



people due to open dumpsites.

Patent(s): Nil

Relevant Industries: Cities, Towns, Urban Local Bodies, Municipalities.

Faculty: Prof. Anil Kumar Dikshit, Environmental Science & Engineering.