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(57) Abstract :

The volume of waste is projected to increase from 64-72 million tons at present to 125 million tons by 2031. Untreated waste (a mixture of biodegradable or wet waste and non-biodegradable waste) from Indian cities lies for months and years at dumpsites where land was originally allocated for developing landfills for safe disposal of only the residual waste. The decomposition of organic matter in the airless heaps of waste at these dumpsites contributes to global warming by Green House Gas emissions. Nearly 20% of methane gas emissions in India are caused by landfills. The trash dumped in the landfills is prone to catching fire due to the heat generated by the decomposition of waste. Thus segregation of mixed waste is the first and foremost method for decomposing the waste. Municipal waste sorting with robot can be form of new invention that eliminates landfill and incineration of environmental pollution problems, saving a lot of land resources, can turn out huge social benefits, environmental benefits and economic benefits. This invention brings economic way of sorting municipal wastes with the application of robotics and sensors.

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