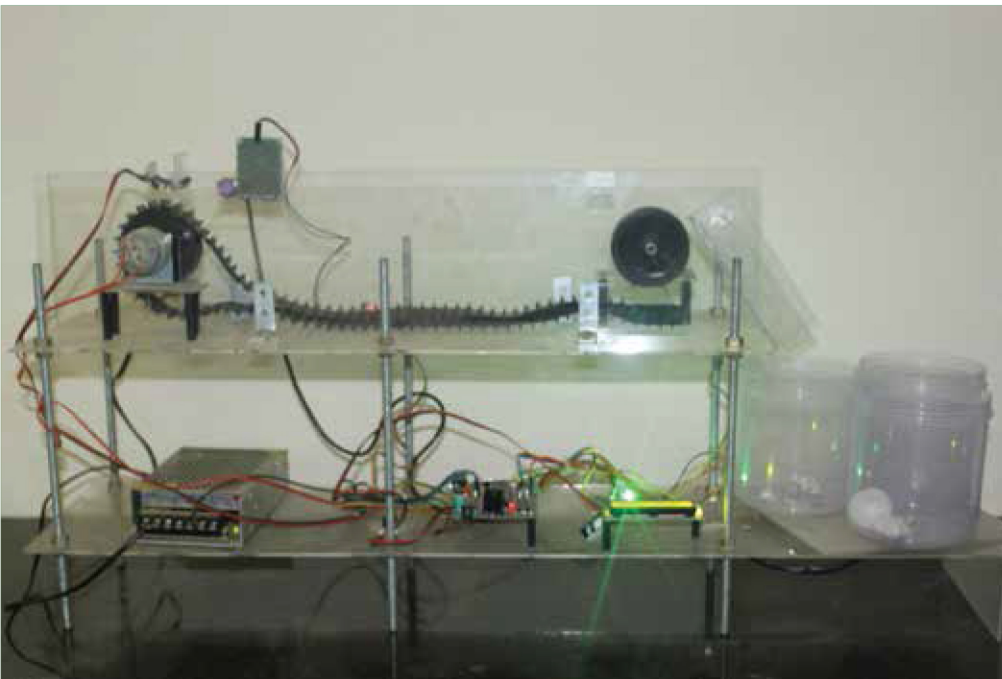


Garbage disposal is a growing concern across the world. The most common method of waste disposal is unplanned and uncontrolled open dumping at the landfill sites, which is injurious to human health, plant and animal life. It generates liquid leachate which contaminates surface and ground water. It can harbor disease vectors, which spread harmful diseases and can degrade the aesthetic value of the natural environment. Not to mention it is an unavailing use of land resources.

In India, rag pickers play an important role in the recycling of urban solid waste. Due to the inhuman working conditions, rag pickers and conservancy staff have higher morbidity. They suffer from infections to the skin, respiratory, gastrointestinal tract and multisystem allergic disorders. They're at risk for bites of rodents, dogs and other vermin.

When the waste is segregated at the source, it has a higher potential of recovery. The wet waste is converted into compost or methane-gas or both. The metallic waste could be reused or recycled.

This smart dustbin is a cheap, easy to use solution for a segregation system at households, so that it can be sent directly for processing. It is designed to sort the refuse into metallic waste, wet waste and dry waste.



86 PROJECT

WASTE SEGREGATION USING SMART DUSTBIN

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