

# SMART WASTE MANAGEMENT

## **Abstract:**

The world's 1/3rd of waste comes from Asia, where major contributors are India and China. Statistical reports indicate that India produces approximately 42 million tons of solid waste annually. Particularly, Tamil Nadu produces 11,523 -15,363 tons per day. Overflow of garbage also causes some hazardous diseases like stroke, heart disease, respiratory diseases, etc. Nearly, 3.8 million deaths were recorded in South East Asia. The hazardous gases released from garbage are methane (60 %), CO<sub>2</sub> (45%), H<sub>2</sub>SO<sub>4</sub> (15%), NH<sub>3</sub> (2%), etc. Nearly 13 tons of hazardous waste are produced every single second. Some chemicals like lead (39%), arsenic (20%), mercury (10%) are also released and this affects the workers and their families. So, in order to reduce the over-dumping of garbage, we can automate the garbage bin to send intimation to the authorities and drivers through mobile applications. Once the waste bin reaches a threshold level it also intimates the people where the next closest dustbin is available for use. 2/3rd of total deaths were due to stroke, cancer, and respiratory disease. 12.6 million deaths every year caused due to an unhealthy environment. It also measures the toxicity level of waste in landfills and intimates the danger level above which humans can't live without it.

**Keywords:** waste, statistical reports, Tamil Nadu, hazardous diseases, gases, over-dumping, mobile applications, the toxicity level