**ABSTRACT**

Arising quality of life and high rates of resource consumption patterns have had an unintended impact on the environment. Despite civic bodies across cities implementing various strategies to manage waste, one often ends up finding piles of garbage at nooks and corners that are left unattended for days at a stretch. With the help of IoT as a technology, a smart way of garbage collection system is proposed as a part of the project. An IoT based smart bin equipped with a micro controller, load sensor, GPS system, and an infra-red sensor will be positioned at every house and at road junctions which will smoothen the ground level mechanisms of waste collection. The load sensors placed in the smart bins will constantly monitor the garbage level and after a certain threshold value, it helps to set an indicator to collect the waste. On the other end, the garbage collecting vehicle consists of an integrated display system with an app installed. The app will be loaded with google street map that shows the assigned road to the collector along with an indication to collect garbage. Once the garbage is collected, the indicator on the map disappears automatically and remains if not collected. Thus it is enforced to collect the garbage compulsorily without any ignorance. Henceforth, an IoT based system to collect and manage waste intermittently is proposed as a solution to the existing problem

***Keywords:*** IoT, Smart Bin, GPS, Load Sensor, IR Sensor, App.