**IDEATION PHASE**

**ABSTRACT**

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| **Team ID** | **PNT2022TMID13652** |
| **Project Name** | **Smart Waste Management System for Metropolitan Cities** |

Urban India generates tones of wastes annually. Our country faces major challenges associated with waste management. Conventional garbage collection is not efficient since the authorities are not notified until the waste bin is full, and this leads to overflow of waste material. Efficient way of waste disposal and collection of disposed garbage is essential for a sustainable and clean India .With the help of the technology researchers have introduced IOT based Smart waste management system that ensures reduced amount of time and energy required to provide proper waste disposable and management. One of the ultrasonic sensor detects the level of the waste in the bin and other detects the person approaching the bin to dispose the waste. This detection helps in automatic opening and closing of the lid. In this system, level of waste in the bin will be sent to concerned authorities. Therefore, this will help us to provide efficient way to waste management. The proposed system is reliable, cost effective and can be easily implemented.