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Design and Development of Automatic Sorting of Railway Platform Dustbin-Waste for Efficient Recyclability

Dr. V. K. Thute, Mr. Apurv Savji, Mr. Deepak Gujar, Mr. Govind Pitty,
Mr. Krushna Thakare, Mr. Ritik Kuntawar, Mr. Sourabh Sharma
Department of Mechanical Engineering
Shri Sant Gajanan Maharaj College of Engineering, Shegaon, India.

Abstract: *In recent decades, Urbanization has increased tremendously. At the same phase there is an increase in waste production. Keeping in focus the crucial issue of Waste management and recycling, a smart dustbin is built on a microcontroller based platform Arduino Uno board which is interfaced with embedded systems, which enables us to segregate wet and dry waste automatically and collect both types of waste in individual containers. In this project, a system has been proposed which reduces the collection of wet waste and dry waste altogether in households as well as in public which is non -recyclable. The dry waste that will be collected separately can be recycled efficiently and lessen the chances of air and soil pollution. We used four different filtering units for respecting metal, plastic, wet and dry waste.*

Keywords: Waste segregation, Smart Dustbin, Embedded System..

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