

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 3, December 2024

Smart Waste Segregation

Prajna, Manasa B S, Nithesha, Pattadi Venkataiyya, Dr. Ganesh V N Alvas's Institute of Engineering and Technology, Mijar, Moodubidire, Mangalore, Karnataka, India prajna825@gmail.com, manasasmb@gmail.com,

niteshdevadiga144@gmail.com, ppattaidavenkataiyya@gmail.com

Abstract: The waste is leading to a lot of environmental problems. The main reason for Increase in waste is increase in population. In most of the cases the waste segregation is unplanned. And the segregation of waste is very difficult to a human to manage. When the wastes are directly dumped to the landfills it will cause pollution, it will cause generation of leachates and fungus. The waste is segregated into main basic streams dry wastes, wet wastes, metal wastes. The main objectives are to reduce the occupational hazardous to the workers. To reduce the time of workers in segregation of waste which makes the work easy. In future the population increases, the villages changes into large cities. Such will need some more advanced services and requirement. The sustainability segregation of waste will provide the sustainability. This development also reduce the work of workers who work in segregating the waste. Paper, plastic, metal, non-metal, and uncategorizable wastes are among the categories into which it guarantees precise trash sorting.

Keywords: Waste segregation, Atmega328p microcontroller

