



Low-cost sorting system for plastic waste recycling

Inventor: Rajendhar Junjuri & G. Manoj Kumar, ACRHEM, UoH

Sorting plastics is a very essential procedure in waste management techniques for environmental welfare. Though it is easier to separate large plastic components, but it is a tedious process. Targeting this problem, a research team from the University of Hyderabad demonstrated a simple and low cost method for sorting the plastic. They designed Laser-Induced Breakdown Spectroscopy (LIBS) with a machine learning (ML) based automated machine. ML in this platform generates data from different types of plastics from a recycling plant to stimulate real-world conditions. The developed system illustrated the successful identification of samples from plastic waste with an accuracy of ~97%. The investigators are promising the product's great potential in a low-cost system, for plastic waste recycling. This product can be easily installed at railway stations, airports, hotels, or restaurants. *Read more* (<https://herald.uohyd.ac.in/uoh-research-team-develops-method-of-low-cost-sorting-of-plastic-waste/>)

