

YELAHANKA CENTER

DRY WASTE SEPARATOR

PROBLEM STATEMENT

Inadequate waste segregation at collection centers triggers a cascade of adverse outcomes, hindering the optimal recycling of valuable resources and exacerbating environmental pollution. The improper sorting of waste disrupts the recycling process, leading to the loss of recyclable materials and escalating the burden on landfills. This failure in waste management perpetuates a cycle of environmental degradation, posing a significant threat to sustainability and necessitating urgent corrective measures for effective waste segregation at the source.

TEAM MEMBERS



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SOLUTION

Incorporating Conveyor Belt Integration, the system aims to streamline material flow, improving waste sorting efficiency. An inductive proximity sensor for metals, employing inductive proximity sensing, identifies and segregates metallic waste. Concurrently, the TCS3200 colour Sensor for paper and plastic distinguishes paper and plastic waste based on color properties. These integrated technologies optimize waste management, promoting organized sorting and targeted material removal. The resulting efficient system contributes to environmentally conscious practices, ensuring the recycling process is both streamlined and resource-effective.

