

Waste Management Infrastructure

Piyush Tripathi, Akshay Nikam, Namira Shaikh, Ishrat Shah, Nayan Mahajan

Mechatronics Department
Guru Gobind Singh Polytechnic, Nashik

Abstract: *This research looks at how waste is managed, the problems faced, and solutions in different parts of the world:*

1. **India*:* It studies current waste management programs aimed at improving people's well-being and society. It finds problems in waste systems and suggests ways to fix them. The research uses data from reports by experts, NGOs, and government agencies, emphasizing the importance of formal waste management systems and suggesting more studies in this area.

2. **Global Efforts*:* Around the world, scientists and industries are creating new technologies and strategies to manage waste, from industrial waste (like hazardous materials) to household waste (like plastics and food). Social media and the Internet are being used to raise awareness about environmental issues. The research reviews how these advancements contribute to recycling and sustainability goals.

3. **Makassar, Indonesia*:* It examines challenges faced by local authorities in handling waste from traditional markets. With 9,000 liters of waste produced daily, the facilities and systems are not enough. Recommendations include adding more equipment, workers, and improving waste collection, disposal, and transport processes.

Keywords: Waste Management, Recycling, Sustainability, Pollution, Infrastructure