

NARROW LANE SEWAGE CLEANING (IDT – B2)

Problem Statement

Helping residents clean narrow lanes requires solutions that improve hygiene and reduce health risks caused by waste, stagnant water, and polluted pathways. Many lanes are too small for conventional machinery, so compact cleaning tools, organized waste collection, and community participation become essential. By encouraging regular upkeep, awareness, and low-cost sanitation methods, neighborhoods can lower disease, minimize pollution, and move toward a healthier, cleaner environment.

Project Team



CREATIVE SPARKS

Team Members

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Solution

WAS faces a major problem because large dumping vehicles cannot clean narrow lanes effectively. After researching the issue and evaluating multiple innovative solutions, we developed a practical idea: a compact vehicle designed specifically for sewage collection and the separation of different types of waste. This small, efficient unit can move easily through congested or narrow areas where conventional machines cannot operate. Only one person is needed to manage and operate the vehicle, making the system simple, economical, and highly accessible for urban environments. While building the prototype, several creative design approaches were applied, along with careful consideration of relevant laws and safety standards. The goal is to improve sanitation in difficult-to-reach locations while reducing manual effort and ensuring proper waste handling. This solution aims to modernize local waste management and create a cleaner, safer environment for communities.

