

**DESIGN IMPACT >>>>
>>>>>>>>>>>> MOVEMENT**

A Social
Initiative by



OPEN DUMPING AND DRAIN CLOGGING IN THE CITY



Ecosystem Development Partners

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THEME: COASTAL WASTE MGMT & MARINE PLASTICS



OPEN DUMPING AND DRAIN CLOGGING IN THE CITY

STAKEHOLDER

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Core Issue

The unchecked dumping is driven by a combination of systemic and behavioral factors: the absence of an organized waste collection system, low levels of public awareness on responsible disposal, and inadequate enforcement or monitoring by local authorities.

Constraints

- Few or no bins, irregular waste collection, and poorly designed drains.
- Waste disposal rules exist but are not strictly implemented.
- People are unaware or careless about proper waste disposal.
- Insufficient budget for infrastructure, awareness drives, and monitoring.
- Mixed waste types, monsoon floods, and traffic make waste handling difficult.

Context

The arterial road between Valencia and Gorigudda has emerged as a persistent dumping site for plastic, tires, and household waste. Inadequate waste collection infrastructure and irregular garbage clearance have prompted residents and nearby businesses to dispose of waste directly along the roadside. This practice has clogged drainage channels, resulting in water stagnation and heightened risks of vector-borne diseases. Weak enforcement of waste management regulations, low public awareness, and seasonal challenges such as heavy monsoon rains exacerbate the problem by dispersing waste into surrounding areas.

Groundwork to be considered

- How will survey teams be allocated to cover all identified dumping hotspots, and can tech tools be used to speed up data collection?
- What community engagement steps (awareness drives, incentives, enforcement campaigns) can involve residents, shop owners, and transport operators in prevention efforts?
- What equipment, workforce, and rapid-response measures are needed to manage blockages and illegal dumping incidents during the season?



Existing Systems

- Door-to-door waste collection – Municipal workers collect segregated waste directly from households, shops, and businesses
- Transportation fleet – Trucks, compactors, and tipper lorries transport waste from transfer points to processing plants, composting units, or landfills.
- Drain cleaning & street sweeping – Sanitation teams clear roads and drains to prevent blockages, especially during monsoons.
- Awareness & enforcement measures – Public campaigns educate citizens on proper disposal, while rules and fines aim to discourage open dumping
- OnetouchMangaluru App to report SWM issues directly to Municipality Corporation

Resources

Resource / Organization	Focus Area	Key Insight / Relevance
Earth5R Case Studies	Community-led waste management	Models for segregation, composting, and recycling
Indore Waste Management	Municipal best practice	Decentralized collection and processing system leading to
TERI Waste Management Guide	Research & policy	Comprehensive reference for policies, technologies, and
Healing Himalayas	NGO in remote areas	Combines awareness, waste infrastructure, and volunteer-
Swachh Bharat Mission (SBM)	National cleanliness program	Framework for urban and rural waste systems, behavior
Recykal	Tech-enabled marketplace	Digital platform connecting waste generators, collectors,
Haritha Karma Sena (Kochi)	Panchayat-level model	Door-to-door waste collection, composting, and
Himachal Rural Waste Bylaws	State-level policy	Enforces segregation, doorstep collection, and local