



Indian Standard IS 16557 : 2016 - Solid Waste Management - Segregation, Collection and Utilization at Household/Community Level – Guidelines

Solid waste management is a critical responsibility of municipal bodies, local governance institutions and every citizen of India. However, due to inefficiencies in handling waste, there are growing concerns related to public health, sanitation, and environmental degradation. The **Indian Standard IS 16557:2016** provides guidelines for the **segregation, collection, and utilization of solid waste generated at household and community levels**, aiming to promote sustainable waste management practices.

The standard emphasizes **waste segregation at the source** into categories such as **biodegradable waste, dry waste, domestic hazardous waste, e-waste, bio-medical waste, and construction and demolition waste**. Proper storage methods for each type of waste are prescribed to prevent contamination and facilitate efficient processing. **Door-to-door collection systems** are recommended for biodegradable waste, while periodic collection schedules are suggested for hazardous and e-waste to ensure safe disposal.

The guidelines promote the **utilization of biodegradable waste** through composting, bio-methanation, and other scientific processing techniques. Dry waste such as paper, plastic, and metals should be **recovered and recycled** to reduce landfill burden. The standard also highlights the safe handling and disposal of hazardous and bio-medical waste to prevent environmental contamination.

To support effective waste management, **color-coded bins** are recommended—green for biodegradable waste, blue for dry waste, and red for bio-medical and hazardous waste. The guidelines **encourage community participation**, training programs, and awareness campaigns to ensure compliance with waste management rules.

By implementing the recommendations of **IS 16557:2016**, urban and rural communities can **minimize waste generation, enhance recycling efforts, and contribute to a cleaner and healthier environment**.