



Project Waste 360

Pioneering Circular Economy
in Construction Waste Management



Construction and demolition (C&D) waste is one of the largest contributors to urban solid waste, posing significant challenges to resource efficiency and environmental sustainability. Saahas Waste Management Pvt. Ltd. (SWMPL), in partnership with a Leading Interior Designer, undertook Project Waste 360, a pilot initiative in Bangalore, to redefine how C&D waste is managed.

This project aimed to showcase an innovative, scalable model aligned with India's Construction and Demolition Waste Management Rules, 2016, setting an example of a circular economy approach.

Key Challenges



Complex Waste Streams

Handling a diverse mix of materials, including concrete, POP, wood, and mixed debris.



Infrastructure Constraints

Ensuring sufficient on-site storage for segregated waste



Compliance and Stakeholder Engagement

Navigating regulatory requirements while educating stakeholders, including contractors and workers, about the importance of source segregation.

Project Methodology and Process Flow

A structured and systematic approach was adopted to achieve the desired outcomes:

Waste Segregation at Source

Waste was meticulously categorized onsite into major streams



Processed into recycled aggregates



Sent to specialized recycling units



Managed at an authorized landfill



Repurposed for cement production



Concrete, POP and Dry Waste Storage Area



Mixed debris



Wood Storage Area

Daily Collection and Transportation

- Waste was collected daily (excluding national holidays).
- Transportation involved weighing, loading, and unloading at designated facilities.

Partnerships and Compliance

Collaborated with authorized recyclers such as Sobha Limited Concrete Products Division, JK Cement, and others for processing and co-processing.



Dry Waste managed
at **Saahas Zero Waste MRF**



Concrete Waste managed
at **Sobha Ltd Concrete Products Division**



POP Waste managed
at **JK Cement**



Mixed Debris managed
at the **Authorized Landfill**

Waste Analysis of project 360

Summary of Waste

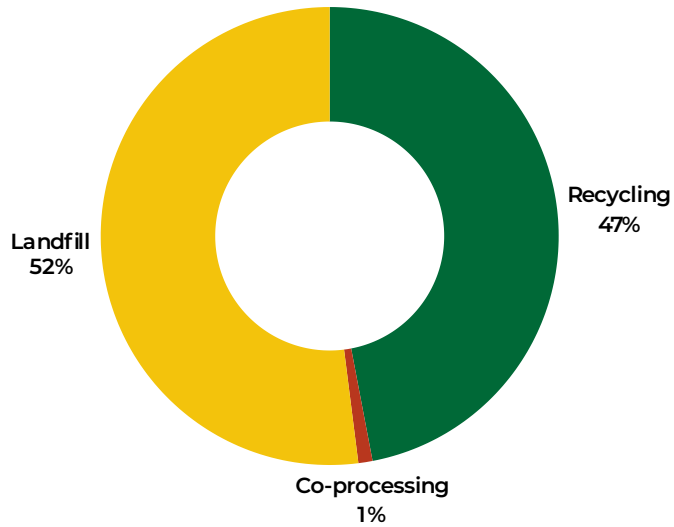
Waste Type	Total (kg)
Concrete Waste	12379
Dry Waste	2017
Wood Waste	4425
POP Waste	2051
Mixed Debris	22334
Total Generated Waste	43206 kg

Mode of Diversion and processing

Waste Category	Total (kg)	Mode of Diversion
Carton Box	360	Recycling& Diverted to ANS Paper Mills
Concrete	12379	Recycling& Diverted to Sobha CPD
Plastic	94	Recycling& Diverted to Shaila Plastic
POP	2051	Recycling& Diverted to JK Cement Plant
Mixed Debris	22334	Diverted to BBMP Authorized Landfill
SCF	393	Co-processing& Diverted to JK Cement
Tiles	114	Recycling/ Upcycling & Diverted to RLEEF
Wood	4425	Recycling& Diverted to Sahil Enterprise
Unsorted Dry Waste	1055	Recycling& Diverted to SZW MRF
Total	43206 kg	



Method of Diversion



47%

Recycle Rate Achieved

43 Tons

C & D waste managed
in the project


15.33 MT


GHG emission saved




Contact us today to explore how
your organization can contribute
to a circular economy through
through resource recovery



 **Address**
#32, 5th B Cross, 16th Main Rd,
MCHS Colony, Stage 2,
BTM Layout, Bengaluru,
Karnataka 560 076

 **Phone**
1800 258 6676

 **Mail**
info@saahaszerowaste.com