

Vasant Vihar Army Residents Welfare Association – Bangalore

Total Area – 18 acre

Summary

Vasant Vihar Army Residents Welfare Association is a gated community spread across 18 acres in Bangalore. It has 6 pockets consisting of several Villas and Apartments. Pro waste has successfully implemented a waste management system at the gated community. The project was initiated in 2017. Vasant Vihar generated more than 100 kgs of mixed waste every day. Most of the waste was transported out of the community by the local Panchayat. The services of the Panchayat was irregular and the waste was dumped at a nearby landfill. A lot of the waste was burnt in the premises. Pro waste concepts implemented a decentralized waste management system for Vasant Vihar – the project runs in auto mode.

Problem

Vasant Vihar had to spend money to get rid of the waste from their community. A lot of the waste was burnt in the premises. The deterioration of the surrounding air quality was affecting the health of the residents. The house keeping team was working in unhygienic and inhumane conditions, as they had to deal with huge amounts of mixed waste. The residents were handing over mixed waste in black bin bags.

Implementation of the SWM systems

Pro waste concepts has successfully set up the SWM system which runs in an auto mode. The SWM project was implemented phase wise after a thorough review. The review is essential to determine our approach and customization of guidelines and infrastructure on the project site to ensure that waste is segregated at source, it is collected efficiently and transported to its final disposal point. The success of each phase is closely dependent on the implementation, monitoring and strong ground level communication. We successfully implemented the Solid waste management processes – namely, segregation at source, collection, storage, transportation and disposal. The whole system was completely synchronized and streamlined efficiently. Interaction and training for the housekeeping team to ensure that the guidelines were followed and to solve the doubts and ground level issues was done regularly. Proper infrastructure to handle all categories of waste and capacity building played the crucial role for the success of the project. Frequent audit rounds were conducted to ensure that the residents were segregating their waste at source.

Pro Waste model: Steps to “Zero Waste Communities”

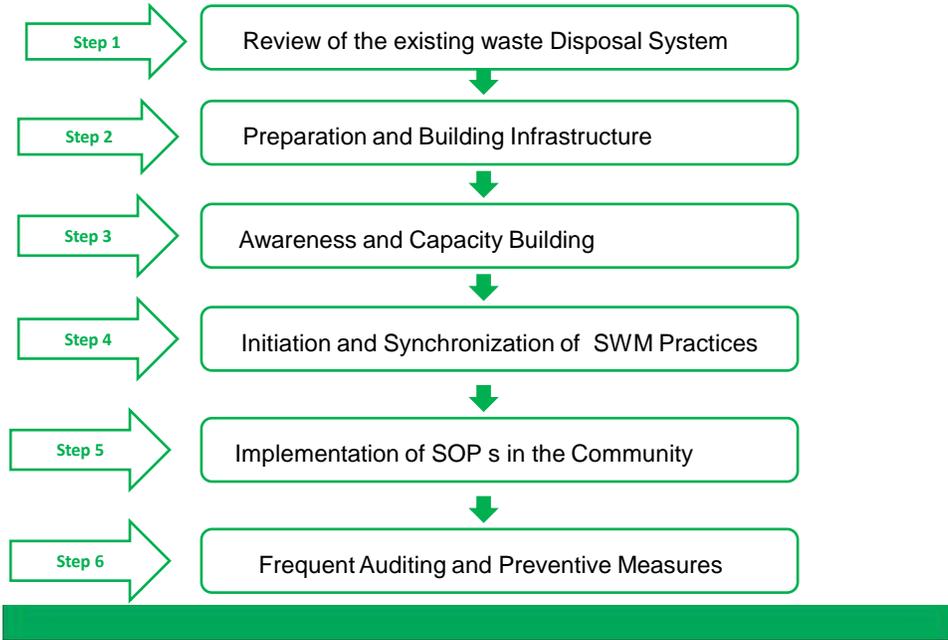


Fig 1: Steps to “Zero Waste Communities”

Category of Waste	Source of generation	Disposal method
Organic waste -Food waste -Garden waste	Residential areas.	In situ Composting unit Compost is used in the green space.
Recyclable waste	Residential areas.	Collected by recycling vendor.

Table 1: Details about the source and fate of the waste generated at Vasanth Vihar

Impact:

After the implementation of a suitable solid waste management plan by Pro Waste concepts, a large amount of dry waste is being recycled instead of being dumped into a landfill. The whole community segregates their waste at source. An effective collection of waste happens 6 days a week; the organic waste is transported to the in-situ composting unit. All the organic waste and dry leaves are composted which is then used for gardening. The housekeeping uses gloves and masks while collecting the waste.

The recyclable waste is stored safely in a storage area after secondary segregation by the house keeping staff, which is then collected by the vendor once in 15 days. All this has been achieved with a small investment to set up composting units and to buy dustbins and collection trolleys. Vasanth Vihar also generates a small income by selling the recyclable waste. Pro Waste Concepts has helped Vasanth Vihar to divert more than 100 kgs of waste per day from going into a landfill. Waste is no more burnt in the community. The residents of Vasanth Vihar are able to live in a clean and a truly green environment.



Before – dumps of waste in the premises, burning of waste was usual.



After- Waste is segregated at source and collected separate bins.



Compost pits at Vasanth Vihar



Secondary segregation of recyclable waste



Recyclable waste stored after secondary segregation