



SOLID WASTE MANAGEMENT







SMALL CATEGORY SURABHI SKYLINE APARTMENT-BSK III STAGE



Background



Waste Management System

- 4 Aagha 550 compost bins supplied by PBK Waste Solutions, Bangalore. Two are used at a time for collection for about 25 days. The composting time required is about 40-45 days.
- Generate about 25 kg wet waste per day which is mixed with coco peat and microbes and left for 45 days for compost making. No rodents, mosquitoes or any insects are seen around the drums. At the end of 45 days, the compost collected is filtered, dried and saved for our own garden use and also used with coco peat for making compost again. Excess compost is distributed to interested people.
- Dry and sanitary waste also is segregated and collected separately 3 days in a week.



1. Options for collection of excess compost produced

2. Options for collection of non-wet waste streams (dry/sanitary etc.).

3. Otions for collection of electronic waste on a monthly basis







MEDIUM CATEGORY WHITEHOUSE APARTMENTS-RT NAGAR



Beginnings: Segregation Awareness campaign

- Displayed notices, calling for volunteers
- Door-to-door campaigns by a dedicated set of volunteers explained the issue
- Set internal deadlines and published results of best segregating blocks
- Set up collection schedules for dry waste with Full circle, our NGO partner at that time
- Smaller team of volunteers continued to handhold for about 6 months
- HK staff were authorised to operate on their own



Gaining momentum : Processing wet waste in house

Main motivation and guiding principles

- Waste is a resource generate energy for local requirements with relatively minimal capital investment
- At least reduce the carbon footprint of about 2000 urban residents

Other factors

- Repeated notifications to BG to manage waste in situ;
- Lack of clarity on who the BG vendors were Challenges
- Physical blocks Lack of space and infrastructure
- Various mental blocks on bugs, odours, flies, snakes, diseases
- Longest incubation time (nearly two years to convince MC members)

Home-grown model which combines the crates (Shoba Althea) and the open-tank system (Kalyan nagar RWA)





2 dedicated male staff; 200 odd crates; 1 shredder; a locally designed tank system; Total capex approx 1.25 lakhs; About 0.25 tonnes processed per day, rest to MSGP



Grateful to

- Mr NS Ramakant, Ms Anjana and Mr Ravi for the introduction
- Manoj from Pelican biotech for the gyan on getting started at home
- MK associates for the shredder
- Meenakshi Bharat for some sane advice on the pit vs tank dilemma
- Kamal Raj from Reap benefit for importance of aerobics
- Riteways composting for bacterial mix
- A few neighbouring milkmen for cow dung supplies
- Whitehouse MC for the support







LARGE CATEGORY PURVA VENEZIA - YELAHANKA



STATISTICS ON PURVA VENEZIA

- Total number of Flats : 1332
- Follow 3 way segregation
- Wet waste generated per day: 800–1100 Kgs
- Manure sold so far 200 tonnes



Composting Method



- Aerobic method using crates stacked vertically
- Basic machinery used
- Training to Hk staff
- Constant monitoring to check air and moisture levels in the compost pile



Challenges

Leachate management

Make sure that adequate brown matter is added to the wet waste

• Fly menace

Provide proper aerobic conditions for microbial matter to thrive and not let flies prosper

Odour issues

With proper aerobic conditions and leachate management, odour issues get plugged.



Value of Compost



- 25 to 30 days required to get compost out
- Selling compost to farmers nearby
- Manure sold so far 200 tonnes
- Happy farmer shares some fruits he grows



Plate bank

- REFUSE disposables is the mantra
- Started in August 2018
- All items made available 'free of rent'
- Only maintenance charge applicable
- Figures so far -- 20,000 plates / items saved from reaching landfills in <3 months









ISSUE HIGHLIGHT BLACK SPOTS – KAGGADASAPURA GROUP









<u>SUMMARY</u> BAF – KEY SWM FOCUS AREAS



BAF Engagement with BBMP : Key Areas of Focus

- 1. Clear and consistent interpretation and implementation of regulations
- Transparency and improved options in the empanelled vendor listing
- Elimination of black spots and better management of waste transfer process



THANK YOU!

