

# SANJEEVANI S3

SIMPLE!! SMART!! SUSTAINABLE!!

Plastic Recycling - Informal Sector

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- ▶ Started in 2015 with the goal of improving the health of Mumbai and its residents through an efficient sub-urbanised waste management system with composting and recycling at its forefront.
- We have experts in the field of Mechanical engineering, Biochemical engineering, Sustainable development (GRI certified), Social work, Disaster management(MCGM assisted), Global warming & Climate change(UNFCCC certified).
- Our team members have worked in some of the best laboratories of the country (**DBT-ICT centre for energy and biosciences**) on industrial projects like carbon sequestration & Waste to energy/ Value addition from waste.

### Scope of work



- We provide a complete solution to the followings:
  - > IEC Programs
    - a. Phenk Mat Mumbai: With CII and SBC3; Covered 200 schools and 33 colleges.
    - b. AHAR: Trained more than 200 restaurants in Mumbai to follow segregation.
  - > On-site processing system
    - a. Organic waste management; Manual, Semi Automatic and Fully Automatic.
  - > Off-site
    - a. Centralized Bio-gas Plant
    - b. Material recovery facility
  - > R&D Center
    - a. Solid Fuel; Non plastic pellet and Plastic pellet.

## Plastic recycling survey



Covered more than 100 informal vendors.

► Trend: Primary sorting – Rag picker/Housekeeping staff

Secondary sorting – Local kabaddi waala

Tertiary sorting – w. r. t. colour/types

Shredding / Washing

Pelletization

### Observations



- Sector running for decades.
- Defined approach :
  - 1. Plastic materials making money Recycled.
  - 2. Plastic materials not making money Dumped/Burnt
- ▶ Plastic pellets and products out of pellets were made next door.
- ▶ Machines used to make in-gots/buckles/clips were locally made.
- ▶ No awareness w. r. t. plastic pollution/problems.

# Suggestions



- Recognition They are actually the front runners for plastic recycling.
- Mapping the flow with both quantitatively and qualitatively.
- Following standards of Plastic waste management rules 2016 for making extruding/blowing/moulding machines locally.
- Channelizing reject.
- ▶ Producer making simpler form of plastic to strengthen the lobby of recycling. Eg. PET India recycles 70-80%, highest in the field of plastic recycling.



#### SANJEEVANI S3

IMPACT REPORT 2019-2020

**WE PROMISED** 



WE DELIVERED



#### **62 Societies**

were **sensitised** and made aware about the benefits of at source segregation and waste management.



were **trained** on categories of domestic waste and appropriate methods of disposal.



#### 1,980 tonnes

of municipal solid waste is processed every year in Sanjeevani's centralised and decentralised composting systems.



#### 19,297 Trees

(maintained for 40 years) equivalent carbon footprint reduction through onsite and offsite waste processing.



#### 4,950 Litres

diesel saved per year by averting the waste from being transported to the dumping grounds.



#### 50 Women

from underprivileged communities are serving as waste managers at Sanjeevani's processing units.



Annual waste processing facilities at Sanjeevani S3 have averted emissions of 693 tonnes/year of CH4 and 1,972 tonnes/year of CO2 into the atmosphere

### THANK YOU