

Building Net Zero & Climate Resilient Mandede Village



Project Goals

01

Achieving Net Zero

By reducing and balancing the GHG emissions with the available carbon sinks

02

Developing Climate Resilience

By building capabilities to adapt to the climate change impacts



Project Location

Mandede Village, Taluka Mulashi, Pune district



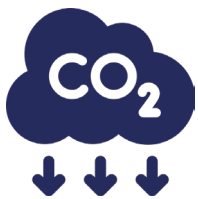
Thematic Areas

- Energy
- Water
- Agriculture
- Education
- Waste Management
- Health
- Preservation of our Natural Environment

Our Initiative

Solid Waste Management

Significance



Reducing GHG emissions through enhanced waste recycling and scientific processing



Promoting climate resilient agriculture by making compost (from wet waste)

Problems Addressed



No Source Segregation



Lack of waste processing



Lack of waste collection



Prevalence of open dumping and waste burning
(Resulting in GHG emissions)

Our Approach

A. Onboarding Of Gram Panchayat

Ensuring participation and ownership of Gram Panchayat



B. IEC Campaigns For Awareness Creation

1. Household level engagement
(covering all 120 HHs of the village at-least once a week)

2. Community level engagement

- Corner Meetings
- School Rallies
- Street Plays
- Clean-up drives





Infrastructure Creation For Sustainable Waste Management

1. Household level engagement

- Dry waste dustbins
- Hazardous waste dustbins
- Home Composters

2. Community Level

- Dry waste collection mesh
- Hazardous waste containers

All infrastructure made up of upcycled plastic paint bucket demonstrating resource circularity



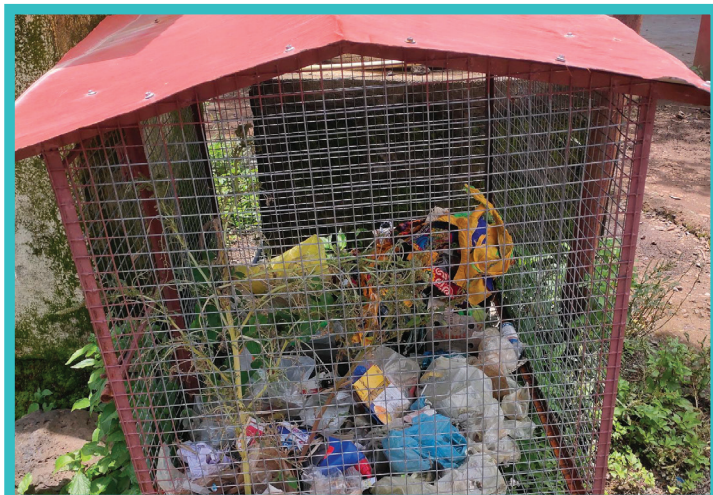
D. Composting Training

Providing training on composter operations and benefits



E. System Monitoring

- Dustbin (Segregation) Monitoring
- Collection Mesh & Container Monitoring
- Composter Monitoring



Impact Achieved

(within 3 months period)

**Segregation
Level**

66.6%

(which can be increased to >90%
with extended monitoring)

**Quantum of waste
diverted from
open dumping/
burning**

187 Kg

**GHG
Emission Reduced
40.8 Tonnes**

(will be realized after channelizing the
collected waste to the processing
plant at Paudgaon)

**Yearly GHG
Emission Reduction
Potential
188.3 Tonnes**

Sustainability Mechanism



Extended Monitoring
(for improving segregation,
secondary collection &
composting)



**Streamlining waste
collection system**
(By entering into MOU with
Paudgaon Processing Plant)



**System Supervision
by the Gram Panchayat**