



Zero Waste Model
Ambikapur, Chhattisgarh

Ambikapur Scenario Before Launch of “Zero Waste Model”

Community Dustbin



Street Sweeping



Garbage Vulnerable Points



- Dismal sanitation scenario with filthy roads, choked drains.
- Swelling budget Rs. 5-6 crs yet slacking services.
- Discontent in public, threat to public health, negligent citizen participation
- 16 wards outsourced to private player yet deficient services
- Non-compliance to SWM Rules.



Population : 1.45 lakhs
 Area: 40 square km
 No. of HHS: 27247
 Waste per day: 51 MT/day
 Community bins: 623
 Garbage Points: 2000

Transportation of Waste



Crude Dumping



The Waste Treatment – Process Re-engineered

447 women mark Attendance



137 teams Depart, routes



D2D Collection 225 routes



Back to centre



Cleaned & Ready for use



Segregation in 17 wet, 20 dry



Packing for Sale



Tertiary segregation: 156 type



Weighing and data Entry



Washing



Achieving Zero Waste Status - Garbage Clinics (The Core)



Achieving Zero Waste Status - Inorganic waste treatment into 156 categories



Achieving Zero Waste Status - Recyclables after segregation



Product Range: 133 inorganic, 33 organic
Tablet-strips, egg-shells, fruit-peels, sachets,
thermacol, plastic bottles, human hair.....

Achieving Zero Waste Status - Recyclables for Sale with Price



PET bottle-white Price – 26 Rs/Kg



PET bottle-Colour Price – 26 Rs/Kg



Syringe Natural P.P- 40 Rs/Kg



Natural Plastic (P.P) 1st Qua- 40 Rs/Kg



C.Ds – 25 Rs/Kg



L.D.Plastic(Glucose bottle)- 45 Rs/Kg



KRT-Brown paper Price 11.00 Rs/Kas



Colour Paper Price 6.00 Rs/Kgs



Food plate Price 3.00 Rs/Kgs



HD 1st Price- 12 Rs/Kg



Water cover Price- 7 Rs/Kg



Shoe Bottoms Price- 11

Achieving Zero Waste Status - Organic waste treatment

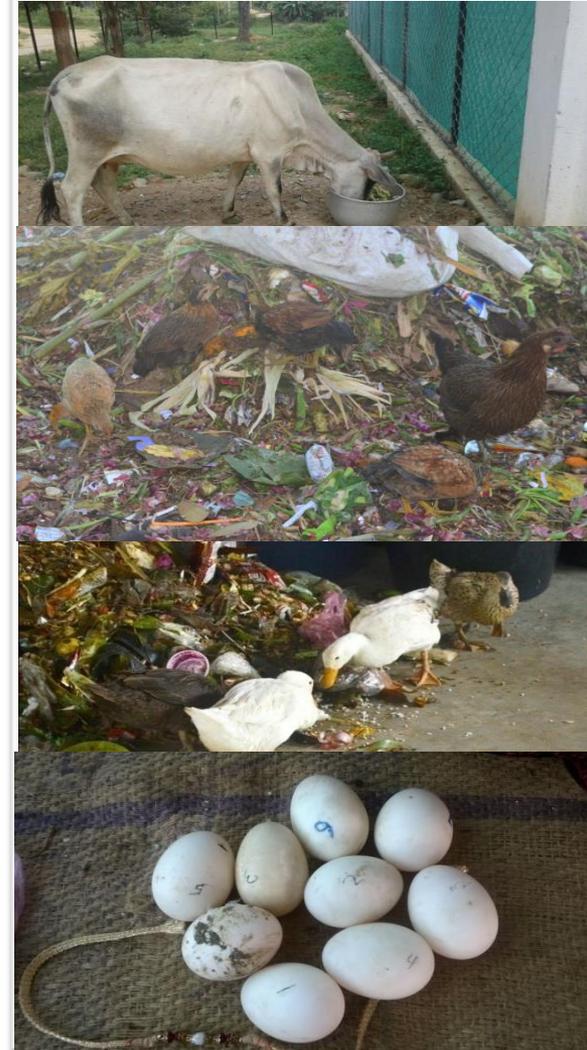
Composting



Bio Gas



Feeding waste
Processors



Achieving Zero Waste Status - Remediation of Dumpsite into Sanitary Park



16 acres old dump yard remediated

Implementation Time **3** months

land reclaimed worth Rs. **25** Cr

Swacchh Ambikapur Video

▶ [Link Here](#)

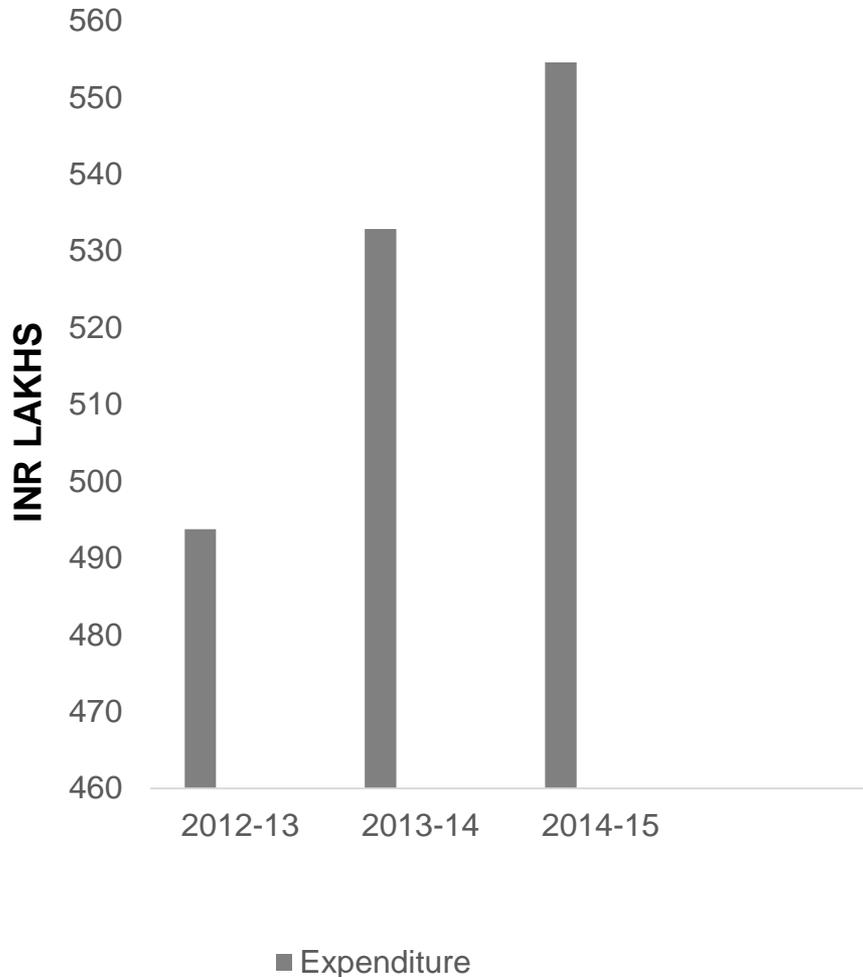


Improvement in SWM Services post Zero Waste Model

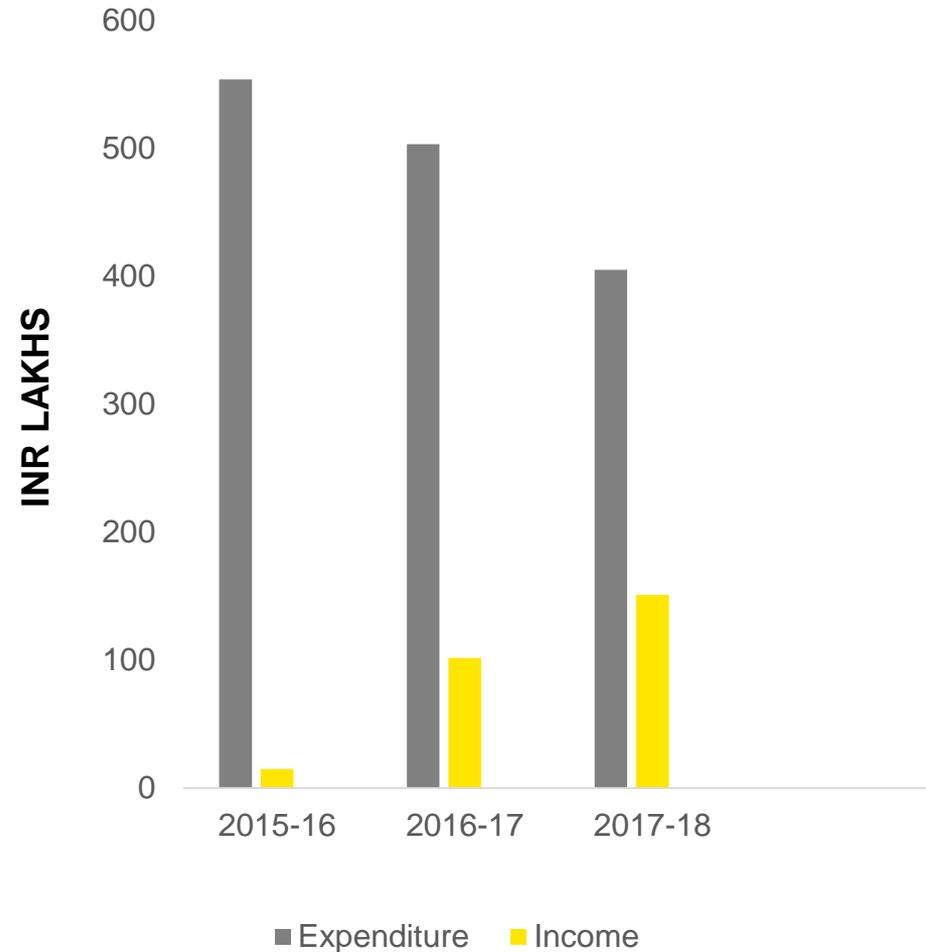
Service Delivery Status						
Head	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Source segregation of waste	0	0	0	50%	80%	100%
Segregation and conversion of waste into recyclable/reusable material in garbage clinics	0%	0%	10%	80%	100%	100%
House hold level coverage	0	0	0	75%	100%	100%
Redressal of complaints	68%	70%	59%	95%	100%	100%
No. of Petrol/Diesel based vehicle	15	13	12	4	4	4

Waste Converted into a Revenue Stream

Annual Expenditure on city Sanitation before garbage clinic



Annual Expenditure v/s income on city Sanitation after garbage clinic



Impact & Gains of Zero Waste Model

1

Ambikapur is Certified cleanest city in India in Swachhata Sarvekshan 2017

2

Certified Dustbin free city

3

Cleaner roads & drains.

4

Rs.80 lakhs worth of treated waste sold till date.

5

Sanitation is an accepted way of life in the town. Change in perspective, mindset attitude.

6

No need for trenching ground. The former dumpsite - now Sanitary park,

7

100% citizen give garbage, 79% pay user charge

8

The model has shifted SWM from being a contractor's shady occupation to a community-driven business.

9

447 women earn an honourable livelihood: green-jobs!

10

Women feel empowered driving e-rickshaws, and operating POS machines and various other gadgets.

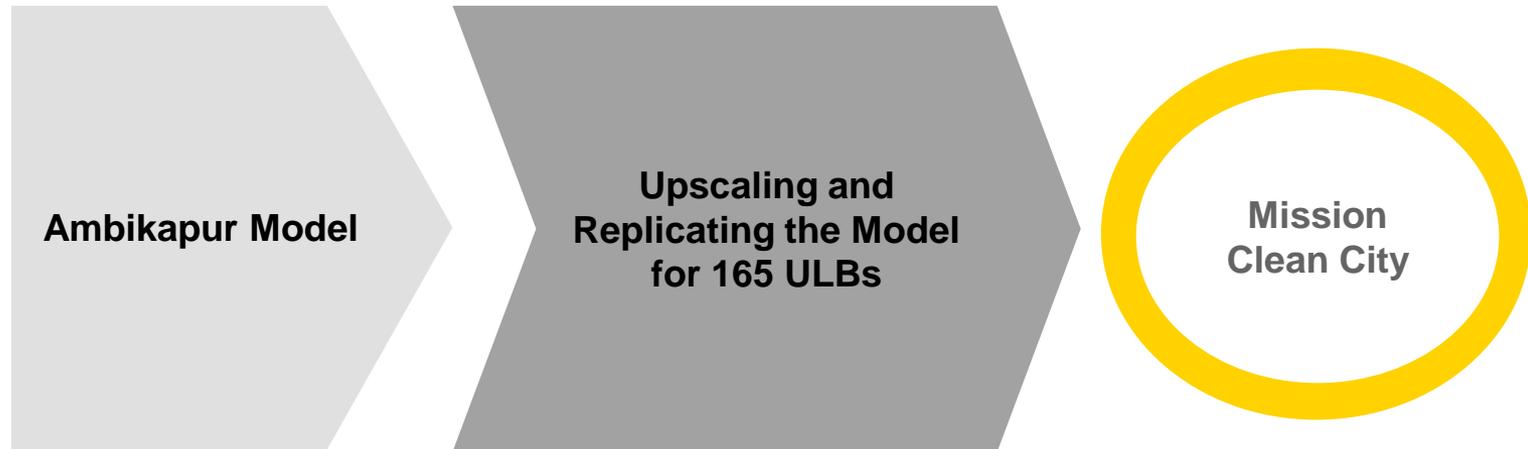
11

Sanitation work has gained respectability and social acceptance.

12

Total Compliance of 3R norms of SWM Rules 2016.

Ambikapur Model has **SUSTAINED** and has been **REPLICATED** across 165 ULBs in Chhattisgarh – Mission Clean City



- INR 222 Crores allocated for upscaling Ambikapur model across the State
- 348 Garbage Clinics established and functioning in the State.
- 26.75 Lakh twin bins distributed
- 13.37 lakhs households + commercial establishments covered
- 8194 women engaged for collection and segregation
- Procurement of 2590 rickshaw done
- D2D collection commenced in all ULBs - 980 MT waste collected
- INR 2.05 crores earned by SHG by sales of treated waste/recyclables
- INR 52 lakhs earned by ULBs earned by sale of compost
- Each women earning INR 8000 to INR 10,000
- 440 acres land reclaimed by remediation of waste being dumped from years



DD News



India TV Aaj ki Baat



History Channel



Times of India



Thank You

Business Standard

Business Standard

Thanks to women, Ambikapur becomes first waste-free town in Chhattisgarh

Town adopts solid and liquid resource management method to solve the problem of urban waste

R Krishna Das | Raipur May 16, 2017 Last Updated at 15:48 IST

Clad in green and trudging the streets of a sleek town with their rickshaws painted in bright green



Times of India

How Chhattisgarh's Ambikapur Is Turning Its Trash Into Treasure

Not only has Ambikapur managed to become a zero waste city, but has also economically empowered women and generated revenue from recycling in the process.

NDTV India

CASE STUDY

SWACHH AMBIKAPUR: A WASTE MANAGEMENT INNOVATION

2016 International Innovations Awards semi-finalist: Ambikapur Municipal Corporation, India

INTRODUCTION | management of organic 'resource' | In the Ambikapur

Commonwealth Innovation Review