

Forum of Cities that Segregate (12-13 December, 2017) New Delhi



Existing Status of Waste Management

- Population: 56,871
- Generation: in Tonnes per day 18 Mts
- Composition: % of biodegradable, non-biodegradable and inert fraction generated
- Biodegradable- 40%
- Non biodegradable- 26%
- Inert Waste- 34%
- Segregation in percentage (%): 100%
- Segregation started since (2012)
- Number of wards where segregation is happening,- 30 (in all the wards)
- Door to door (DTD) collection- started in the year of 2012
- Collection efficiency (in %): 100%
- Processing (recycling & treatment of wet/dry waste): 82%
- Disposal: 65%

Does the city have by laws as

HAZARDOUS per the SWM Rules,2016

WASTE





DRY WASTE

WET WASTE

(Do NOT use a plastic liner)

Kitchen Waste

Vegetable/fruit peels

Cooked food/Leftovers

Egg shells

Chicken/fish bones

Rottenfruits/vegetables

Tissue paper soiled with food

Tea bags/Coffee grinds

Leaf plates

Swept dust



Garden waste * (small quantity only; from Apt) Fallen Leaves/twigs Pujaflowers/garlands

Weeds

Construction debris/Inerts (Hand over separately)

(Use only reusable bags for disposal)

Plastic (Must be rinsed if soiled)

Plastic covers/bottles/boxes/items

Chips/toffee wrappers

Razors/Blades Used syringes Injection vials

Plastic cups

Milk/Curd packets

Paper (Must be rinsed if soiled)

Newspaper/Magazine

Stationery/Junk mail Cardboard cartons

Pizza boxes

etrapaks

Paper cups and plates

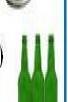
Metal

Foil containers

Metal cans

Glass (handle with care)

Unbroken glass bottles



Other dry waste Rubber/Thermocol Oldmops/Dusters/Sponger Cosmetics. Ceramics, Wooden Chips,

Coconut shells

E-waste (handle with care) Batteries CDs/Tapes Thermometers Bulbs/tube lights

(hand over separately

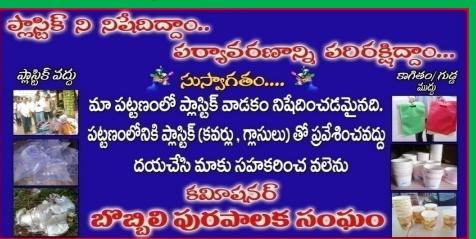
Any penalty provision littering?







Any state policy to ban plastic?





THE NEW INDIAN EXPRESS Z

GO GREEN

Bobbili, first town to go plastic-free

Behara Raja Rao ENS Bobbili (Vizianagaram, December 30

THE historical town Bobbili set a

reference of the control of the control of the region by going totally plastic-free. The municipal authorities have succeeded in implementing ban on use of poly the manufacture of the control of the co

mas organised to put across the message to the people.

Taking note of the municipality's sincerity, the people also responded before the date of implementation. The response was so overwhelming that even the petty establishments like mutton shops stopped using polythene their own bags.

On August 2, the commissioner of municipality got phone calls from they be a commissioner of the commissioner of municipality got phone calls from the public regarding tals immediately rushed to the spots and and soized the materials.



A municipal worker taking plastics and polythene bags to dispose of in Bobbili.

sure technique as usual, the municipal authorities stuck to their plan and re-jected their plens. On the other hand, they asked them to cooperate in the drive.

they asked drive.

The whole exercise faced a major that is the nincipal authorities stopped sale of water packets in the town from 1st of water packets in the town from 1st

December. In the absence of adequate potable water, there was opposition and protest from some quarters particularly on the eve of festivals in Patha Bobbili and Gollapalli streets of the town.

Again Municipal Commissioner P

table of supplying drinking water.

Commissioner, I had resolved to make the town plastic-free. Today, it has been achieved.

When I took charge as

As part of drive, the vehicles move in all the wards announcing "chet bandi vachindamma, Mee inti che tanu andinchandi" (hand over the household garbige to the staff comit to the door the staff comit to the door the staff comit of the staff True to his word, around two lakh deople were supplied drinking water. The Commissioner also told the people that if necessary they could call him from 5.30 am to supply the water as he had resolved to keep the town clean the day he assumed charge as



RTMS - new system for door to Door collection



Personal Protective wear-Neww





Real-Time Monitoring of Sanitation and SWM

On Field Biometric

Attendance Monitoring





Citizen
Complaint
s
Redressal
through
Puraseva

GPS Tracker for Vehicle Monitoring

Weighment at Waste Transfer Points - To ensure Segregated Waste Collection

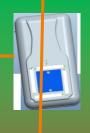




RFID Tags Fixed to Each Gate









Has the ULB adopted Decentralized

Waste management? Com













Biomethanization







LEACHATE TREATMENT THIS OUT BIOGAS
PLANT

14 CMT BIO-GAS PLANT SUPPORTED BY NEDCAP



Raw material (cowdung + leachate water)

Soil

Coconut coir (Temperature control)

Stones +Sand





farming by the Swachh bharat Misssion







Others (Inorganic waste





- In Organic waste Management
- Hydraulic Bailing system











- News Paper, Paper Glass Bales and Cost 4.50Rs/kg
- > Average Weight of the bale is 67 Kgs.

Packing of Glass Bottles and cost at 3Rs/kg irrespective of all glasses











Major gaps and challenges of source segregation

Earlier the waste lied littered all across the streets of Bobbili, garbage heaps were not cleared regularly and people were not habituated in segregating of the waste, as a result the drains were very frequently blocked especially with the polythene bags. Moreover, there were very few waste-transport vehicles and even they had out-lived their lives, thus resulting in increased fuel consumption and low efficiency at waste-collection, let alone any sort of waste treatment. Diarrhea, malaria and dengue had become common diseases at Bobbili. Now all the gaps were filled in a sustainable manner.

The Centre for Science &Environment had announced that the Bobbili municipality stood 4th place in India in managing municipal solid waste scientifically which was published in Down to earth magazine for the year-2016





Swachh Bharat Award by the Hona'ble Chief Minister, AP for the year 2016.



Man masters nature not by force, but by understanding it.

THANK YOU FOR YOUR

KIND ATTENTION

