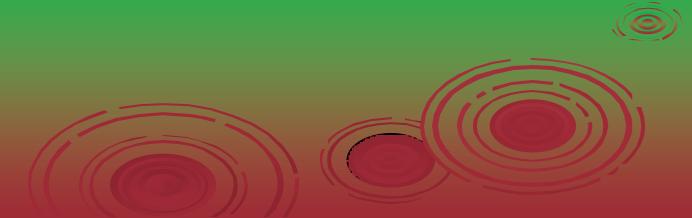


Forum of Cities that Segregate (Assessment meeting 7th June, 2018 New Delhi)

CITY ULB NAME: BOBBILI



Improvement in status of waste management since December, 2017

Segregation in percentage (100%):

- ✓ Segregation started since December 2017 till date
- Number of wards where segregation is happening,
- Door to door (DTD) collection
- Collection efficiency (in 100 %):
- Processing (recycling & treatment of wet/dry waste): 100%
- Disposal: How much percentage is being disposed? 85%

Does the city have by laws as

HAZARDOUS per the SWM Rules,2016

WASTE

Injection vials



Construction debris/Inerts[#] (Hand over separately)



DRY WASTE

WET WASTE

(Do <u>NOT</u> use a plastic liner)

Kitchen Waste
Vegetable/fruit peels
Cooked food/Leftovers
Egg shells
Chicken/fish bones
Rotten fruits/vegetables
Tissue paper soiled with food
Tea bags/Coffee grinds
Leaf plates
Swept dust



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

(Use only reusable bags for disposal

Plastic (Must be rinsed if soiled)
Plastic covers/bottles/boxes/items
Chips/toffee wrappers

Plastic cups

Milk/Curd packets

Paper (Must be rinsed if soiled)

Newspaper/Magazine Stationery/Junk mail Cardboard cartons Pizza boxes

Tetrapaks

Paper cups and plates

Metal
Foil containers
Metal cans
Glass (handle with care)

Unbroken glass bottles



Other dry waste
Rubber/Thermocol
Old mops/Dusters/Sponge:
Cosmetics,
Ceramics, Wooden Chips;
Hair
Coconut shells

E-waste (handle with care)

Batteries

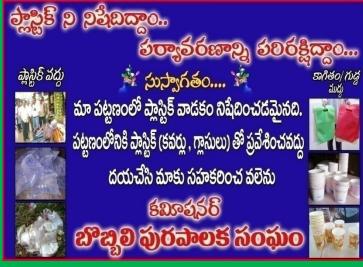
CDs/Tapes
Thermometers
Bulbs/tube lights/
(hand over separately)

Council Resolution, April 2010

Prohibition of Disposal of Inorganic Packing Materials

Awareness on usage of plastic carry bags and its alternatives.







Public Awareness camps on plastic Waste ban and Collection with the help of CRPs, TPROs, SHGs, Voluntary organizations, Burrakata team and N.G.O's.









INTRODUCTION OF ALTERNATIVE REUSABLE BAGS





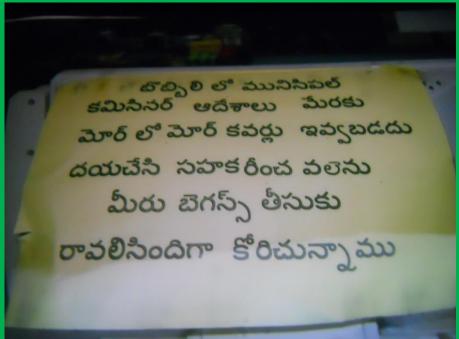


SALE OF REUSABLE BAGS

Alternative Leaf Packing @ Mutton Stalls









WATER SACHETS / PACKETS

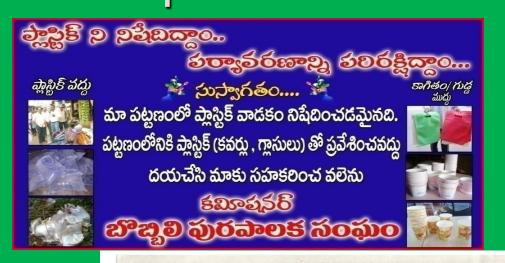
A SANITATION & PUBLIC HEALTH HAZARD

Alternative Water Supply to the Public due to prohibition of packaged drinking water Sachets





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 now succeeded in implementing ban on use of poly the manufacture of the control of the con

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 the public regarding that immediately rushed to the spots and and seized 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.

The whole exercise faced a major hurdle in respect of water sachets. But the municipal authorities stopped sale 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 Bobbill 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

PPRASA

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



Any penalty provision littering?







RTMS - new system for door to Door collection



Personal Protective wear-Neww





Real-Time Monitoring of Sanitation and SWM

On Field Biometric

Attendance Monitoring





Real-time Data Flow



Citizen
Complaint
s
Redressal
through
Puraseva

GPS Tracker for Vehicle MonitoriAgp

Weighment at Waste Transfer Points - To ensure Segregated Waste Collection





 RFID Scanners for Each Micro Pocket – Service Delivery Monitoring



- 180 -200 Gate Points per Micro pocket (300 350 Households
- RFID Tags Fixed to Each Gate







SHREDDING OF ORGANIC WASTE PULVERIZATION OF ORGAINIC WASTE HELPS IN VOLUME REDUCTION







EACH BED HOLDS ABOUT 50 TONS AND THERE ARE SIX BEDS

EVERY DAY WE ARE HANDLING 4 TONS OF ORGAINC WASTE



Raw material (cowdung + leachate water)

Soil

Coconut coir (Temperature control)

Stones +Sand





VERMICOMPOSTING OF SLURRY FROM BIO-GAS PLANT

Observation of floriculture and Organic farming by the Swachh bharat Misssion team











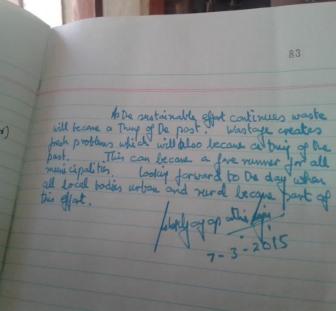
LEACHATE TREATMENT THROUGH BIOGAS PLANT

14 CMT BIO-GAS PLANT SUPPORTED BY NEDCAP

Bio-Gas generator to produce Electricity







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 of plastic waste

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





tion fee from residents, but charges an annual fee from the 1,072 commercial establishments. This comes to around ₹3.6 lakh per year. The municipal-

LIST OF AWARDS

- 1) PARYANVARN MITHRA AWARD- APRIL 2010.
- 2) GREEN EARTH AWARD BY TV9 2010.
- 3) CLEAN INDIA AWARD-JUNE 2013.
- 4) SOLID WASTE MANAGEMENT EXCELLENCE AWARD BY ICONSWM-2014.
- 5)BEST PLASTIC FREE CITY.2016.
- 6) FORUM OF CITIES BY THE C.S.E NEW DELHI.2017.

Women...Environmental security

- Users of natural resources
- There was no plastic carry bags found as this picture shown.
- Managers of land forest water
 - other natural resources
- Preservers of biodiversity.





Women....in urban

Urban elite and educated women

take part in

Jobs linked to economics and of the country

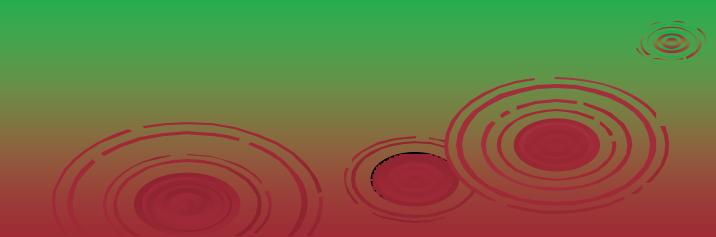
Social programs
Beauty contests
Fashion shows

--spoiling the social environment creation of pollution



Moral Ethics

Earth is like a bed, if you contaminate your bed, on some day you will suffocate and die on your own bed.



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

THANK YOU FOR YOUR

KIND ATTENTION

