

Presentation on Biomethanation Practices in Andhra Pradesh

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MSW IN ANDHRA PRADESH

- × 182 ULBs - excluding GHMC, GVMC, VMC
- × Around 15,000 TPD of mixed waste generation
- × 6,750 TPD wet waste
- × Present disposal of wet waste
 - + Mechanical compost plants
 - + Vermicomposting plants
 - + Bio-methanation

BIOMETHANATION

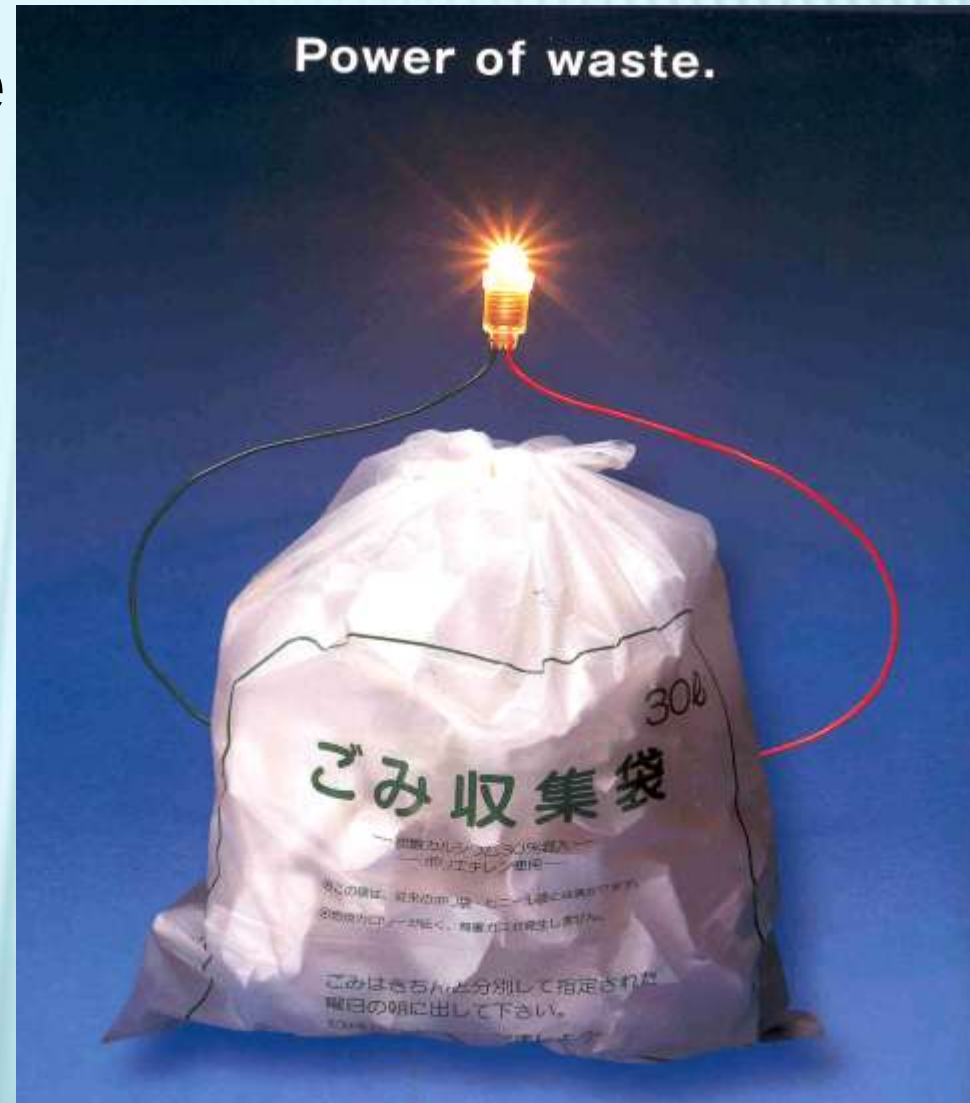
Sources of waste

Vegetable markets

Fruit and flower markets

Animal droppings

Hotels, restaurants and canteens



VIJAYAWADA MUNICIPAL CORPORATION

Commissioned in
2004

- 20 TPD
- Waste from vegetable market yard and slaughter house
- Power generation - 2100 – 2275 units per day
- Manure 1 – 1.5 MT/D

Operated upto
2007



SLAUGHTERHOUSE WASTE AT AL KABEER, HYDERABAD



WARANGAL MUNICIPAL CORPORATION

- × Population - 6.10 lakh
- × Waste generation - 150 MT
- × Segregated wet waste - 20 MT
- × Biomethanation plant set up for processing one MT and the gas is used for lighting up of the public parks

BOBBILI MUNICIPALITY

- × Population - 56,871
- × Waste generation - 22.8 MT
- × Wet waste - 14.00 MT
- × Seven units plants with a capacity of 2 MT each
- × One unit commissioned in 2012 generating 2 cum using for cooking
- × Six are under final stages of completion

NARSAPUR MUNICIPALITY

- × Population - 50,000
- × Waste generation - 32 MT
- × Segregated waste - 7 MT
- × Biomethanation plant with a capacity of 5 MT generating 5 cum gas for street lighting

PROPOSED PLANTS IN GHMC

- ✖ MCH transformed into GHMC in April 2007 by merging 12 municipalities and eight gram panchayats
- ✖ Area is 625 km² which is geographically bigger than many of the South Asian countries
- ✖ Population – 77 lakh
- ✖ Around 6,000 TPD of mixed waste
- ✖ Implementing IMSWMP through PPP
- ✖ C.A signed on 21.02.2009 with M/s. REEL
- ✖ Concession period 25 years from the date of CoD – T&D
- ✖ Concession started w.e.f 18.02.2012

IMSWMP SCOPE

× Project scope

- + Door to door Collection
- + Secondary Transportation up to Transfer Station
- + Transportation from Transfer Station to Treatment & Disposal Site.
- + Treatment & Disposal at allotted Site.
- + Transfer Stations
 - × Upgradation & Management of existing 3 Transfer Stations
 - × Construction of 5 New Transfer Stations
- + Reclamation and Alternative Use of Existing 4 Dump Sites.
- + IEC with an objective of achieving dustbin free city
- + Interfacing with existing organised and un organised waste collection and management system

IMSWMP SCOPE

Contd.

- × Up-liftment of Transfer Stations

- + Imlibun Transfer Station
- + Tankbund Transfer Station
- + Yousufguda Transfer Station

- × New Transfer Stations

- + Kapra
- + Uppal
- + Kukatpally
- + Sherilingamapally
- + Rajendra Nagar

IMSWMP INFRASTRUCTURE

Project infrastructure

- × Weigh Bridge Plaza
- × Waste Receiving Platform and Pre-Segregation Facility
- × Compost Plant
- × Coconut shredding Unit
- × Plastic bailing Unit
- × Recyclables Processing Unit
- × RDF Storage Unit
- × Scientific Landfill
- × Leachate Storage and Treatment Facility
- × RDF Manufacturing(Under development)
- × Waste to Energy(Under development)

IMSWMP INFRASTRUCTURE

Contd.

Associated infrastructure

1. Compound wall
2. Internal approach roads
3. Storm water drainage
4. Leachate collection system
5. Green belt
6. Administrative Building
7. Laboratory
8. Canteen

IMSWMP INFRASTRUCTURE

Contd.

9. Workers Change Rooms and Toilets
10. Material Stores
11. Maintenance Facilities for Vehicles and other mechanical equipments
12. Vehicle Wash Facility
13. Transformer Yards – 2Nos (Power supply of 800KVA and 200KVA)
14. DG and Electrical Panel Room
15. Environment management (air, water, soil)
16. CSR activities

BIO-METHANATION PROPOSED UNDER IMSWMP

- ✖ In the first phase (2013-14) - 11 plants at Rythu-bazars
- ✖ One plant at Jawaharnagar site for captive power generation

Thank U.....