

Economics of Solid Waste Management

The way Thiruvananthapuram Municipal Corporation does it...!





Our Past...

- Centralised Mixed Waste Composting plant set up in year 2000.
- House-to-House collection through Kudumba Shree Unit in 2005
- Centralised facility was shut in 2013 due to conceptual error
- “Ente Nagaram Sundara Nagaram” formed in 2014
- 95% collection & safe disposal of Fish & Meat waste from markets through service provider.



Our Past

- 90% of Institutes (Hotels, Restaurants & Banquet Halls) covered through EPR for in-situ mechanism.
- Recycler linkages formed & collection drives organised for Plastic & Glass
- Promotion of segregated waste management at House hold level & Organic Farming



Milestones

- Thiruvananthapuram ranked 2nd best Capital City in India
- 35th National Games (with 30 venues) conducted without disposable plastics
- Revenue District School Cultural Fest 2016 conducted as per Green Protocol guidelines
- Attukal Pongala (Guinness Record Event) promoted for Green Protocol implementation in 2016 & 2017
- Ban on Disposable Plastics (carry bags & utensils) with effect from March 1st



Target

- City population - 10 Lakh (approx.)
- Number of House Holds - 2.5 Lakh (approx.)
- Number of Wards - 100
- Total waste / day - 300 metric tonnes

Current Focus:

- Waste from House Hold - 60% of Total waste
- Waste per house hold - 2.5kg
- Organic waste - 70%

Segregated Waste Management at House Hold Level



Strategy

Segregated Waste Management at House Hold Level



Method



Community Aero Bin



House Hold Kitchen Bin



House hold Pipe Compost



Institute Bio-gas Plant



Community Compost Bin



Economics

- Operational Cost of Centralised Facility
6 Lakh/month (approx.)
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SAVED
- Transportation cost (house hold to facility)
9 Lakh/month (approx.)
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SAVED
- Carbon Foot print due to consumption of fossil fuel
48 tonne Carbon/month
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SAVED
- Man Power & Labour Costs for waste collection
1900 Man hours/day
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SAVED
- Sales revenue from Recycler linkages
2 Lakh/month
SAVED



What Do You Think ?

