Decentralised Management of Segregated Organic Waste at Community Level

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City Profile

- Population : 776077
- Households : 152606
- Wet Waste : 137 TPD
- Dry Waste : 55 TPD
- Domestic Hazardous & Sanitary Waste : 2 TPD
- No of Onsite Composting: 27
- No of Households Practicing Home Composting: > 10,000
Decentralized Solid Waste Management

The Community Level

Decentralized Solid Waste Management is a system to reduce the quantity of waste at source. It involves the management of municipal solid waste by various small waste management centres within the locality.

- Independent of City Level Practices
- Volunteer Driven
- More Perks to the Initiators
- Self Satisfaction
- Proud Feeling
- Economical
Decentralized Composting

Decentralized composting can be operated by an appropriate technology and implemented at reduced investment and operating costs.

Manual composting in small, decentralized plants is more easily integrated in the prevailing Indian level of development and socioeconomic background.
Pit Composting

- The basic structure of the above ground pit has small horizontal air pipe on the walls. The supplements of air circulation in the pit and thereby hastens composting.

- Pit can have a dimension of 9x4x3 ft depending on the requirement. It generally takes two months time to prepare compost.
Pit Composting
Vermi Composting

- Vermi composting is an effective process that can be done at the community level but requires little bit more involvement.
- Vermi composting involves waste preparation, predigestion, waste degradation and finishing of compost.
- Waste needs to be sorted and prepared for rapid degradation.
Vermi Composting
Drum Composting/OWC
Small Scale Anaerobic Digestion (Bio-Gas)

- Small scale bio-gas is a decentralized technology and the most environmentally friendly technology to recover energy and liquid fertilizer from organic wastes.

- It is extremely appropriate to ecological and economic demands of the future as it provide pollution free environment, efficient energy for cooking.
Small Scale Anaerobic Digestion (Bio-Gas)
Efforts from Govt, Private Payers and NPO

- Urban Local Body
- JUSCO
- SWACHHTA PUKARE, ROTARY CLUB, Lions Club of Jamshedpur and many other active and promising NGOs
Utilization, Marketing, MDA scheme of GoI, value chain to market compost in Jamshedpur

- Self Utilised by ULB (In execution of vegetation in public area, dividers and parks etc.)
- Sold @1600/ton
- Jamshedpur despite being steel city is also a green city, so a huge part of Compost is used in maintaining the same.
- Koramandal Purchases, nursery, Farmers buy compost
- Under process and expecting to connect to MDA soon
- JUSCO is Managing City Compost
- Awareness and Regulation is helping the city to promote the On Site Composting
Journey Continues.....

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