

# Workshop with Bulk Waste Generators

November 2019

# Bulk Waste Generators- Definition

**“Bulk Waste Generator”** means and includes buildings occupied by the Central Government Departments or Undertakings, State Government Departments or Undertakings, Local Bodies, Public Sector Undertakings or Private Companies, Hospitals, Nursing Homes, Schools, Colleges, Universities, other Educational Institutions, Hostels, Hotels, Commercial Establishments, Markets, Places of Worship, Stadia and Sports Complexes etc. having **an average waste generation rate exceeding 100kg per day** (of all waste streams put together)

Also, all gated Communities and institutions **with more than 5000 sqm area** falls under Bulk Waste Generator

(Solid Waste Management Rules, 2016)

# SEGREGATION

(sorting and separate storage of various components of solid waste namely biodegradable and non-biodegradable wastes)



# Wet and Dry Waste Segregation





**WET WASTE** is biodegradable **waste**

includes

- Cooked and
- uncooked food,
- fruits,
- vegetable peels,
- flower **waste**,
- horticulture **waste**.

**DRY WASTE** is waste other than biodegradable waste

- Recyclables
- Non Recyclables (Inert)
- Bio-Medical
- Hazardous waste
- E-Waste

# Decentralized Composting of the waste



**Mechanized Organic Waste Composter**



**Pit Composting**



**Drum Composting**

# Composting Methods



**Vermi Composting**



**Bio-Methanation Plant**

# Composting Technologies and Applicability

Name of the Technology	Suitability			
	Individual Households, Small Communities, Apartments etc. up to 10 Households	Medium Sized Communities, Apartments, RWAs - for 11 – 300 Households; medium sized Offices, medium Hotels, Resorts, medium Schools, Canteens, Marriage Halls	Large Communities, Apartments, RWAs, high rise buildings for 301 – 1000 Households; Large Offices, Large Hotels, Large Schools	Decentralized plants for above 1000 Households operated by ULBs / Institutions / Outsourced agencies
Pit Composting	✓	×	×	×
Pot Composting	✓	×	×	×
Tri Pot Composting	✓	×	×	×
Ring Composting	✓	×	×	×
Kitchen Bin Composting	✓	×	×	×
Drum Composting System	✓	×	×	×
Rotary drum composting	✓	×	×	×
Vermi Composting	×	✓	×	×
Biomethanization	×	✓	✓	✓
Organic Waste Composting Machine (fully automatic)	×	✓	✓	✓
Windrow Composting	×	×	×	✓
Garbage Enzyme	×	✓	✓	×



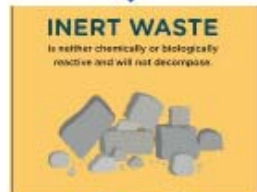
# SECONDARY SEGREGATION



The common waste materials with potential to be reused after recycled as raw materials

- Paper products and empty paper containers
- Empty plastic containers, Styrofoam, Plastic Material & metals
- Food Waste and Paper Napkins
- Bottles and Aluminum cans etc.

**Sell to Kabariwala or Recyclers**



waste which is neither chemically nor biologically reactive and will not decompose

- Non-recyclable material and mixed materials
- Non-recyclable remains of metal, wood, clothes, rubber etc.

**To be collected by the Authority against charge**



Electronic waste or e-waste describes discarded electrical or electronic devices

- Used /discarded TVs, computer monitors, printers, scanners etc.
- Kitchen elec. equipment (toasters, coffee makers, etc.)
- Laboratory equipment (hot plates, calorimeters)
- Broken computer

**A separate bin to installed in locality and collected by the authorized waste collector**



waste that has substantial or potential threats to public health or the environment

- Aerosol cans
- Batteries
- Bleaches and household kitchen and drain cleaning agents and its container
- Cosmetic items,
- Paints, oils, lubricants,

**A separate bin to installed in locality and collected by the authorized waste collector**



Biomedical waste is any kind of waste containing infectious (or potentially infectious) materials

- used needles and bandages etc.
- Discarded medical tools, syringes, dirty laundry, needles
- Sanitary Napkins, Adult Diapers contaminated with blood.
- Discarded medicine and

**Incinerator to be installed**

# Recyclables

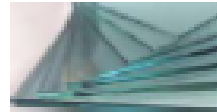
- Newspapers.



- Paper, Books and Magazines



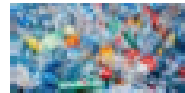
- Glass



- Metal Objects and Wire



- Plastic



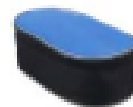
- Cloth Rags



- Leather



- Rexene



- Rubber



- Wood/ Furniture















- Packaging



# Non-Recyclables (Reject/Inert)

## Examples

- Broken Chappals/Shoes 
- Broken Kitchen ware and Glassware 
- Paper Cups/Plates/Paper Towels/ Paper Napkins 
- Adult Diapers 
- Chips/ Namkeen Packets/ Candy Wrappers 
- Fiber Material 
- Packing peanuts and bubble wrap 
- Polystyrene or Styrofoam 
- Hazardous chemicals and chemical containers 
- Rubber 
- Light bulbs 
- Plastic Lids 

A dustbins to be kept at gate to be picked up by authority.

# Non-Recyclables (Reject/Inert)

## Examples

- One time plastics



- Brooms



- Torn Cloth Rags



- Medicine strips



- Ceramics



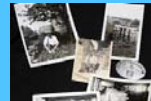
- Plastic wrap



- Wax boxes



- Photographs



- Wood



- Foam egg cartons



- Laminated Paper



A dustbins to be kept at gate to be picked up by authority.

# E-Waste

## *Examples*

- **Mobile/ Laptops**
- **CD/DVDs etc.**



**A dustbins to be kept at gate to be picked up by authority.**

# Domestic Hazardous Waste



- Aerosol Cans 
- Batteries and button cells 
- Bleaches and Household kitchen and drain cleaning Agents & its Containers. 
- Car batteries, oil filters and car care products and consumables. 
- Chemical and Solvents and their Containers. 
- Cosmetic items, chemical based Insecticides and their containers. 
- Light bulbs, tube lights and compact fluorescent lamps (CFL). 
- Discarded Medicines and its containers. 
- Paints, Oils, Lubricants, Glues, Thinners and their containers. 
- Pesticides and herbicides and their containers. 
- Photographic audio/video tapers and their containers, chemicals. 
- Styrofoam and Soft foam packing of furniture, packaging and equipment. 
- Thermometers and mercury-containing products. 



# Bio-medical Waste

## *Examples*

- **Sanitary Napkins to be incinerated**  
**Others adult diapers, baby diapers to be collected as inert**

# Incinerators



**Sanitary Napkins & Dippers Incinerator**



# Agencies Empaneled for Waste Management

#.	Agency Name	Contact Person with Mobile No	Email Id	Address
1.	SVM Infraestate Pvt. Ltd.	Mr. Amit Chaudhary 9810777266	<a href="mailto:garg.mradul@gmail.com">garg.mradul@gmail.com</a>	Flat No 5, 2 <sup>nd</sup> Floor Asqure Mall, Sector-73, Noida, Uttar Pradesh-201301
2.	Society for Education & Welfare for All	Mr Pradeep Kushwaha 9956099919, 7379391666	<a href="mailto:sewa2808@gmail.com">sewa2808@gmail.com</a>	410/17 Premganj Sipiri Bazar, Jhansi-284003.
3.	Arva Associates	Mr. Shudhanshu Agarwal 9935208320, 9795459072	<a href="mailto:arvaassociates@gmail.com">arvaassociates@gmail.com</a>	Bunglow No. 55, Cantonment, Sadar Bazar, Jhansi-284001
4.	Adarsh Seva Samiti	Mr Ambar Vishal 9897013551	<a href="mailto:adarshsevasamiti@gmail.com">adarshsevasamiti@gmail.com</a>	H-724, Palam Extension, Harijan Basti, Sector 7, Dwarka, New Delhi, 110077.
5.	Dolphin Solid Waste Management Pvt. Ltd.	Mr Nitesh Khatana 9999090031	<a href="mailto:niteshkhatana003@gmail.com">niteshkhatana003@gmail.com</a>	331, Indra Complex Colony, Gali No-5, Naharpar Kheri Road, Faridabad.
6.	Waste Management Corporation	Mr Sanjeev Aggarwal 011-28543080	<a href="mailto:info@wastemanagementcorp.in">info@wastemanagementcorp.in</a>	GG-1/179B, Vikaspuri, New Delhi-110018
7.	JJ Waste Solution Pvt. Ltd.	Mr Jai Kishan Gaur 9911242211	<a href="mailto:info@jjwastesolution.com">info@jjwastesolution.com</a>	68, Gali No-5, Pratap Nagar, Mahur Vihar Phase-I, Delhi-110091
8.	Saahas Waste Management Private Limited	Mr. Wilma Rodrigues. 080-41689889	<a href="mailto:info@saahaszerowaste.com">info@saahaszerowaste.com</a>	21, Ground Floor, MCHS Colony, 5 <sup>th</sup> C Cross, 16 <sup>th</sup> Main, BTM Layout 2 <sup>nd</sup> Stage, Bangalore-560076

# Duties of GNIDA

- GNIDA will pickup reject/inert waste from the dustbin installed at society gate by the concern society.
- GNIDA transported that reject/inert waste to authorized landfill site.
- User charges will be collected from Bulk Waste Generators against collection of Reject/Inert Waste.

# Duties of Bulk Waste Generators if they didn't start waste processing till date

- They have to submit an affidavit in GNIDA on Rs 10/- stamp paper including:
- They have to pay the spot fine as decided by GNIDA.
- They have to provide waste only to GNIDA.
- They have to Pay Rs 7000/- per trip to GNIDA against collection and transportation of Municipal Solid Waste.
- This is applicable only for November-2019.
- If waste processing if not started with in November, then they have to pay Rs 14000/- per trip to GNIDA against collection and transportation of Municipal Solid Waste.
- This is applicable only for December-2019.
- If waste processing not started with in December, then they have to pay Rs 21000/- per trip to GNIDA in January against collection and transportation of Municipal Solid Waste.



Thank you