

Solid Waste Management



Compost Plant

Clean Enviro Solutions

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The Wet Waste Problem

An average household generates approximately 1 kg of wet waste daily. Under the current scenario, this waste is directly dumped into huge landfills that are already overflowing with mountains of unsegregated, untreated, hazardous waste. Most landfills lack proper on-site waste management thereby contributing to additional threats to the environment. In the long term, landfills leak and pollute ground water and other neighboring environmental habitats making waste management very difficult. They also give off hazardous gases. Owing to this problem, a number of Municipal Corporations across India have stopped collection of Wet Waste from bulk Waste Generators.



Clean Enviro Solutions is a compact solution to this hazardous problem.

In 2016, the Union Ministry of Environment, Forest & Climate change issued the new Solid Waste Management Rules, that made it mandatory for all bulk waste generators to process their waste at site.

Clean Enviro Solutions is the most labour free, compact & economical solution to achieve this.

Why Clean Enviro Solutions?

We help you to manage your waste efficiently, and economically, through an environmentally conscious process. **Clean Enviro Solutions** is an end to end Waste Management solution, capable of converting wet waste into Soil Supplement in 24 hrs. **Clean Enviro Solutions** Feed & Forget System doesn't require any skilled labour and uses minimum energy.

Equipped with multiple sensors, inbuilt shredder, **Compost Machine** is the most advance waste management solution available in the industry.

Available Size: 25, 50, 100, 200, 500, 1000 kg etc/day to more than 2000 kg/day

Process

Segregation: Waste Segregation means dividing waste into dry and wet. Dry waste includes products like Glass, Metals, Wood, Electronics, Plastic Products etc. Wet waste typically refers to organic waste like left over food, Fruit Peels, Meat, Poultry, Fish, Bakery Items, Garden waste etc.

Feeding: After Segregation of Wet & Dry Waste, wet waste is fed in the machine through an openable door on the top.

Inbuilt Shredding: is the first process that the Wet Waste goes through **Compost Machine**. Shredding helps in Volume Reduction & easy processing of Wet Waste and also helps in accelerating the conversion process.

Conversion: After the Wet Waste is Shredded it enters the tank where the actual conversion takes place through our unique mixing, air circulation and heating mechanism. The heating system maintains a temperature range in which the bacteria thrive, thus accelerating the conversion process.

Soil Supplement Removal: can be done every 24 hours through a wide removal outlet



What can be processed?



Vegetable & Fruit Peels



Meat, Poultry, Fish



Leftover Food



Bakery Items



Egg shells



Leaves & Gardening Waste



Fast Food



Compostable Bags & Cutlery

What cannot be processed?



Plastic Products



Glass Products



Metals & Hard Substances



Electronics



Medical & Chemical Waste



Large Bones



Coconut Shells & Branches

Semi-Automatic Organic Waste Composting Systems

Semi-Automatic Composting Machines convert wet waste into high quality Compost within 10 days. The Semi - Automatic Waste Management Solution uses Bio-Mechanical way of composting and is the most economic way of managing wet waste. It requires minimal Power Supply. The Semi- Automatic Solution is Cost effective and can be installed very easily. Its Unique Mechanism produces high quality compost that can be used for various purposes. However due to large space & manpower requirements this is not suitable for densely populated areas.

The Process

- **SEGREGATION:** Segregation is an essential part of the composting process. The Wet waste and the dry waste needs to be separated before processing. Only the Wet Waste is compostable.
- **FEEDING:** After Segregation the Wet Waste is fed in the machine through an easily operable door on the top. At this time Saw dust is added along with the wet waste.
- The Waste is processed in fixed batches in the machine.
- After 15 mins pre-compost can be removed from the machine through an easily operable outlet.
- Place the pre-compost in the curing racks system for 10 days along with bio culture.
- After 10 days compost is ready to be used for Gardening and Agriculture purposes.

Soil Supplement Use

The compost generated by **Clean Enviro Solutions** is a nutrient rich soil supplement with high water retention capacity. It is ideal for use when mixed with soil in 1: 10 ratio. The various uses include:



In-house Gardening Purposes



Sold to Local Nurseries & Gardens



Sold to Fertilizer Companies



Supplied to Neighboring Farms



Horticulture & Tree Plantation

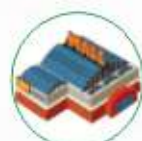
Applications



Residential Building



Hotels, Restaurants, Resorts, Clubs



Malls



Temples



APMC Markets



Municipal Corporations



Commercial Complex's



Farms & Farm Houses



Hospitals

We install STP/ETP of any capacity (civil/package type in M.S.)



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