



Please give me the opportunity to introduce you to **India's most advanced Organic Waste Converter.** To know more about the product **please go through the e-brochure.** You can also visit our website to know more.

## **About us**

LL Equipment Pvt. Ltd given a expert solution in the field of **Decentralized Solid Waste Management**, manufacturing India's most advanced Organic Waste Converter machine – was established in 2015 and its head office is located at Marol, Mumbai.

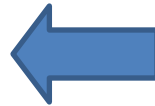
Our Clientele include various prestigious **builders and construction companies, hotels, resorts, IT companies, factories and municipal corporations and villas etc.**

## **ABOUT OUR PRODUCT:**

We are pleased to introduce you ' **Organic Waste Converter** ' which is a Semi automatic and compact organic waste converter machine for organic waste management.

It is the most unique and only product of its kind in the market to solve the gruesome problem of wet/organic waste disposal faced by our country for several decades.

# Food Waste Converter Process





- **“ Organic Waste Converter” Means green revolution.**
- **Our team's vision is to create Eco-friendly living**
- **One of the major problems today is lack of technology for managing garbage & disposing waste.**
- **Metro cities & villages are hardly left with any open space for dumping garbage. This problem is likely to increase day by day without any solution being found.**
- **At the end of the process, there will be no bad odor from the food waste and hence it will not have any problem for surroundings.**



# LL - OWC

• <b>Model</b>	<b>LL-20</b>	<b>LL-50</b>	<b>LL-100</b>
• Capacity per hour	20 kg	50 kg	100 kg
• Capacity per day	300 kg	600 kg	1000 kg
• Power(Mixing & Crusher Motor)	3 HP	6 HP	8 HP
• Kw	2.25kw	4.50kw	6.00kw

# Advantages of LL-OWC

- 100% conversion of food & shredded garden waste to manure
- Easy & user friendly technology
- No bad odor
- Efficient way to store manure
- One worker required
- Good way to earn from waste
- Space efficient



## **Calculation for 200 kg of food waste per day**

<b>Area Required</b>	100 sq ft area is required to keep the machine and store manure
Machine Capacity:	1 batch of organic waste converter machine can take 50kg of food waste Therefore the machine needs to run 4 times (Assuming 200kg food waste) Each batch takes up to 15 minutes, machine will run for maximum 60 minutes/ day
Electricity :	Machine consumes 4 units if it is running less than 1 hour, Therefore it will consume 4 units of electricity, which will cost Rs. 40 per day. (assuming Rs. 10 per unit)
Bulking Agent:	Saw duster rice husk or sugarcane molasses are good bulking agents, these agents are easily available anywhere from Rs. 4-6 per kg. dRy shredded garden waste can be the best bulking agent (if available)
Culture powder:	It is bacteria generating powder, it is easily available across India. It costs Rs. 100-150 per kg Only 1 gram should be put per Kg.
Total cost for processing 300kg of waste	Electricity + culture powder + manpower
	=40 + 100+ 40 = Rs. 180
This manure is sold at average	Rs. 5 per Kg.
every month sellable manure Generated	3600kg
Income = 3600kg x RS 5	18000/-
Expenses for month	Rs. 5200/-
Total income	Rs. 12800/-

# **Food waste to manure in four easy steps**

- I. Put segregated food & shredded garden waste in the machine
- II. Start the OWC for shredding the material
- III. Turn The Handle to unload the pre-fermented manure in the trolley
- IV. Remove the basket from the trolley and keep it on the rack for fermentation



# Segregate the Waste

## Acceptable Food Waste



Meats & Poultry



Eggs & Egg Shells



Bread, Pasta & Rice



Fish



Fruits & Vegetables



Desserts

## Unacceptable Waste



Large Bones



Clams & Shells



Glass & Plastics



Metal & Aluminum Cans



Paper & Cardboard



Liquids / Cooking Oil

# Dos and Don'ts

## DO's

- All type of food waste
- Cooked and uncooked meat
- Bones and egg shells
- Bread and bakery material
- Shredded Garden waste
- Twigs
- Temple waste
- Wooden particles

## Don'ts

- Plastic bags & bottles
- Glass & metal
- Nappies & sanitary waste
- Pharmaceuticals & cosmetics
- Rubber
- Leather
- Dog or cat droppings
- Bio-medical waste

# Biological

- a) Moisture content of the waste should not be more than 40%
- b) 10%-15% will be ideal
- c) Wood chip from any tree or plant can be used as bulking material
- d) Wood chips absorb the excess moisture in the waste, increases the surface area for the biological activity.

# Maintenance for **LL-OWC**

- Negligible maintenance cost.
- Cleaning can be done by just pouring water by pipe from the top.
- Any hard metal, rope and polythene is prohibitive in the machine.
- If the prohibitive material enters the machine and gets stuck or entangled with the blades, the motor will stop automatically. The machine should not be restarted immediately till the problem for the same has been diagnosed. For e.g. to check if the machine is not overloaded with waste than the normal quantity as prescribed or any prohibitive substance like glass, iron, paper, plastic etc. was the reason for disfunctioning of the equipment.
- The machine can be easily started again by pressing cut-off button placed on the motor after removing the metal, rope and polythene.

# Requirement for installing **U-OWC**

- Space required for processing and storage is between 100 to 200 sq. ft.
- Area should be completely covered from top.
- One worker required to do the process.



# Contact Us

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