



Envicare Solutions Pvt. Ltd.

I Care For An Environment

Let's Make India Clean & Green



एक कदम स्वच्छता की ओर



About Us:-

- *We are Ahmedabad, Gujarat based manufacturer of composting machines and equipments, we have different types of composting machines with different range of capacity.*
- *We are Envicare !!! – Organic waste management & Environmental Solutions Company. With our tagline of “ Let’s Work for an Environment”, we are providing sustainable solutions for daily waste generated in organization.*
- *We have been dedicated to helping forward thinking organization reduce their environmental footprint, save money and produce high quality compost. We are committed to making composting an affordable and successful undertaking for any organizations of maximum size. We do this through innovative design informed by the coupling of industry experience and ongoing research and development. We are passionate about composting because it saves money and preserves the air, water and soil.*

We have started our organization with dream of social impact by providing sustainable solutions to environment. Our motto is “ I care for an Environment”. We have developed such solutions for organic & bio-degradable waste at affordable cost.

What is Composting?



- *Composting is nature's way of recycling. Composting biodegrades organic waste. i.e. food waste, manure, leaves, grass trimmings, paper, wood, feathers, crop residue etc., and turns it into a valuable organic fertilizer.*
- *Composting is a natural biological process, carried out under controlled aerobic conditions (requires oxygen). In this process, various microorganisms, including bacteria and fungi, break down organic matter into simpler substances. The effectiveness of the composting process is dependent upon the environmental conditions present within the composting system i.e. oxygen, temperature, moisture, material disturbance, organic matter and the size and activity of microbial populations.*

Composting Basics:-

- *Feedstock & Nutrient balance*
- *Particle Size*
- *Moisture Level*
- *Oxygen Flow*
- *Temperature*

Our Business:-

Services In:-

- *Consultancy for Organic Waste Management*
- *Biological support for composting*
- *Micro-organisms fermentation*
- *Consultancy for “ZERO” Waste Management*

Products –

- (1) *Fully Automatic Composting Machine*
- (2) *Organic Waste Converter*
- (3) *ECOFRIEND – Automatic Composting Machine*
- (4) *ECOFRIEND (S) – Heavy duty composting machine*
- (5) *Organic Waste Shredders*
- (6) *Micro-organisms & Bio-culture*

Organic Waste Converter

Solution:-

It will be three step process.

(1) Shredding (2) Mixing (3) Composting

- Shredder will be responsible to shred waste in to small pieces.
- Shredded waste will be added in to main machine.
- Composting machine will mix through mixing blade for 20 minutes.
- Show dust and micro-organisms needs to added during mixing process.
- Raw material of waste should be collected by plastic caret.
- Collected material in plastic caret should be place for 7 to 10 days.

Equipment Require:-

- (1) External Shredder
- (2) Composting Machine
- (2) Racking system with caret

Waste to compost within 10 days





Silent Features



- *Organic Waste converter is based on composting basics to convert waste in to compost.*
- *It consume very less electricity to process waste material*
- *Working hours of machine is very limited.*
- *Batch system can be helpful to increase handling capacity of machine.*
- *No need to invest daily for additional micro-organisms*
- *Organic fertilizer produce with good amount of nutrition value inside*
- *Only 30 -35 % volume reduction within 10 days of curing period.*

Fully Automatic Composting Machine:-

We as an organization believe to provide customized and appropriate solutions to our customers. As per our experience different customers are looking for different solution and benefits from this equipment.

This technology and solution based on heating mechanism for volume reduction and de-composting though “thermophilic” enzymes.

Why ECO-

- *Fully Automatic operation for Nil labour & process handling*
- *Maximum volume reduction*
- *Very less compost generation due to lacking of garden and horticulture area to use.*
- *Very good aesthetics*
- *Solution for all type waste specially non-veg*

Solutions-

Up to 80% Volume reduction within 24 Hrs.

- *In – built shredder can be handle all type of waste including of bones.*
- *Low Floor space/ Compact*
- *Remove output once in every 2-3 days*
- *Low Noise*
- *Easy to handle and operate*









Silent Features:-



- *Developed on the principal of providing complete composting system in a single machine.*
- *Both the shredding & composting take place in a machine employing thermophilic micro-organisms to convert the shredder organic waste in to compost.*
- *The temperature required to avoid unwanted moisture is achieved through heating mechanism installed inside the machine.*
- *The input is first fed to a in built shredder which reduce the waste material size to maximize surface area available for uniform heating & contact with micro-organisms to achieve quick composting.*
- *Aerobic composting being exothermic reaction generated heat which further helps in removing the moisture by evaporation and renders dry, ready to use compost in a few days.*
- *All the material contact parts are in SS-304 to ensure maximum life of machine.*
- *Easy to operate & maintain as there is no manpower required for shifting of raw compost to curing system.*

Our New Product “ ECOFRIEND”



Patented By ENViCare :- 201721031055 (Patent Number)

- ✓ Being Organic waste management company we are passionate towards composting solutions and developments.*
- ✓ We have developed this product which covert all disadvantage of fully automatic composting machine & organic waste converter in to advantage.*

Special Features:-

- Economical in price*
- In-built curing*
- Automatic mode*
- ZERO manpower requirement*
- Quality compost*
- Easy for handling*
- ZERO maintenance*

Product:-

Our balanced & open-architecture model is reduce cost of machine and allow aerobic composting process. The floor and walls made by stainless steel or MS sheet with hot dip galvanizing to provide a long service life and reduce corrosion. ECOFRIEND includes the same automated auger mixing systems with positive aeration and ventilation systems for odour control



ECOFRIEND (Installed Images)



Mixing blades



Control Panel



ECOFRIEND Process :-

ECOFRIEND Composting Systems can be operated as either batch or a continuous composting systems:



- **Batch Process:** *the system is fully loaded with material. These materials are composted as a batch and then fully discharged. This approach works well for materials such as agro waste, cow dung and horticulture waste.*

- **Continues Flow Process:-**

- ✓ *It's start with Pair*
- ✓ *Two material holding tanks are responsible for daily generated waste with approx 25 days curing.*
- ✓ *Use needs to start with first tank which allows to feed daily waste from 1st to 20 days after that second tank will be using for feeding waste for another 20 days.*
- ✓ *Mixing system will operate automatically every 3 hours in a day*
- ✓ *First batch of compost will be ready on 40th day from the date of start using.*
- ✓ *Second and other continue batch of compost will be ready within 3 week.*

Compost Process :- *Advance aerobic composting technology introduced which convert waste in to compost within 20 days. This technology based on enhanced compost nutrition value through micro organisms based composting method.*

Features & Benefits:-

FEATURES

Turner has an integrated mixing system that allows the compost to be mixed on a daily basis (2-3 hours per day). Mixing system technology provides optimum conditions for food waste composting with six distinct operating functions:

Shred – *The mixer tears up food waste clumps as they cook to reduce particle size and increase available surface area, making the particles more available to the microbes.*

Mix – *Blade & shaft mixes material by folding food waste into bulking agent.*

Aerate – *The mixer continually fluffs the compost to add oxygen to the matrix.*

Distribute Moisture – *The mixer sweeps up wet material from the base of the pile and elevates it to the surface. This maintains an even distribution of moisture throughout the pile.*

Homogenize – *The auger homogenizes food waste with bulking agent for an even distribution of nutrients.*

Stack – *As compost reduces in volume, the mixer continually stacks the material toward the back to maximize utilization of the space.*



BENEFITS



Superior Compost Quality – The inclined/vertical mixer combines with the positive aeration system to produce an extremely rich, light, homogeneous, oxygenated compost.

Cost Effectiveness – For its size and capability, the turner is the most cost effective aerobic composting system on the market today.

Small Footprint – When space is restricted, Our turner is ideal because it maximizes the amount of composting that can be done on its very modest footprint.

Complete Control – ENViCare turner gives you complete control of your composting process, allowing you to control temperature, moisture content by adjusting patterns for mixing, aeration and moisture addition.

Biggest Challenge in Indian Organic Waste Management – Moisture Level in garbage

Mechanical Solutions:-

(1) Heating

(2) Compressing

We would like to present you our latest solution for bulk waste generators

Model :- ECOFRIEND(S)

Capacity:- 250 Kg/Hr. To 1000 Kg/Hr.

About ECOFRIEND (S)

- ***ECOFRIEND(S) based on an aerobic composting method and follow all important basis of aerobic composting***

- ***It work on three step process***

(1) Shredding

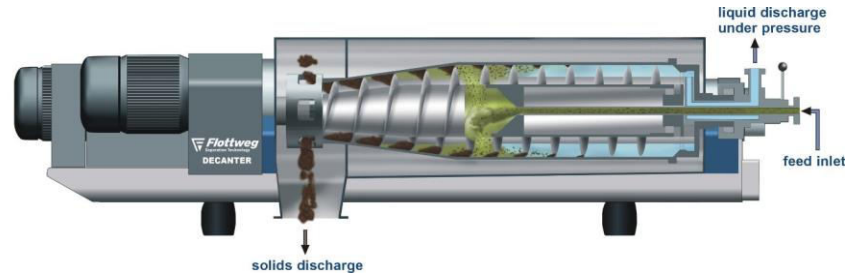
(2) Dewatering

(3) Curing

We have achieved 50 % of volume reduction on first two step process and another 25 % of volume reduction will be happen during curing process.

ECOFRIEND(S) will make quality compost with good amount of nutritional value and final product can be sellable

Reference Images



Waste Shredder

We are specialized for shredder machine which is responsible for reduce waste size. Shredder is a machine used for reducing the size of all kinds of material. We are manufacture 2 shaft & 4 shaft shredder machines with SS shafts & blades. Shredder has semi blunt blades that are used to break down small pieces of waste material.

Our product range of shredders include organic waste, agriculture waste, industrial waste, textile waste and more. Shredded particle size can be achieved to 1 mm to 10mm as per requirement.





Product Range						
Model	ENVI - 01	ENVI -02	ENVI -03	ENVI -05	ENVI - 10	ENVI -15
Motor Capacity	1 HP	2 HP	3 HP	5 HP	10 HP	15 HP
Electrical Type	3 Ph	3 Ph	3 Ph	3 Ph	3 Ph	3 Ph
No. Of Motors	1	1	1	1	2	2
Capacity	100 -125 Kg/Hr	200 -225 Kg/Hr	400 -450 Kg/Hr.	500 -600 Kg/Hr.	1 ton per hour	2 ton per hour
Blade	WPS/OHNS	WPS/OHNS	WPS/OHNS	WPS/OHNS	WPS/OHNS	WPS/OHNS
Forward/Reverse	Yes	Yes	Yes	Yes	Yes	Yes
Maintenance	Regular Cleaning and periodic oiling for gears and chain couplings	Regular Cleaning and periodic oiling for gears and chain couplings	Regular Cleaning and periodic oiling for gears and chain couplings	Regular Cleaning and periodic oiling for gears and chain couplings	Regular Cleaning and periodic oiling for gears and chain couplings	Regular Cleaning and periodic oiling for gears and chain couplings
Floor Space	6 Sq. Feet	6 Sq. Feet	9 Sq. Feet	12 Sq. Feet	22 Sq. Feet	30 Sq. Feet
Output Size	5 -10 mm	5 -10 mm	5 -10 mm	5 -10 mm	5 -10 mm	5 -10 mm

Our Valuable Clients



Sr. No.	Name	Location	Machine Type
1	Awatech Engineering (I) Pvt. Ltd	Ahmedabad	Automatic Composting Machine(ECO-50)
2	Raghuveer saffron	Surat	Automatic Composting Machine(ECO-75)
3	India Navvy(Coastal Guard HQ)	Porbandar	OWC-125
4	Advance Renewable Energy	Nasik	Heavy Duty Waste Shredder(1 Tone/Hr)
5	PAN Construction	Surat	Automatic Composting Machine(ECO-100)
6	Paradise Environnemental Services Pvt. Ltd.	Surat	Automatic Composting Machine(ECO-75)
7	Finish Society	Rajasthan	OWC-50
8	Shree Ram Machinery	Rajasthan	Plastic Waste Shredder
9	Sintex Limited	Gujarat	OWC-50
10	Paramount Pilatus Apartment	Bangalore	OWC-200
11	Vocational Training Center	Valsad	Automatic Composting Machine(ECO-30)
12	Raghuveer Shell	Surat	Automatic Composting Machine(ECO-75)
13	Individual User	Kerala	Compost Mixing Machine (50kg/day)

Sr. No.	Name	Location	Machine Type
14	National Academy of Indian Railway	Vadodara	Automatic Composting Machine (ECO-30)
15	Neonz Resort	Anand	ENVI-OWC-250
16	Apple Hospital	Indore	Automatic Composting Machine (ECO-100)
17	Medicare Hospital	Indore	Automatic Composting Machine (ECO-40)
18	Cadila Pharmaceuticals Limited	Ahmedabad	ENVI-OWC-100
19	R.M.Chemicals Pvt. Ltd.	Solan (Himachal Pradesh)	ENVI-OWC-75
20	Girdhar Mahal (Marriage Hall)	Indore	ECOFRIEND-100
21	Labh Ganga Garden (Marriage Hall)	Indore	ECOFRIEND-50
22	NIFT	Gandhinagar	ENVI-OWC-100
23	Hotel D- Imperia	New Delhi	ECO-100
24	Hotel Fern	Jaipur	ECO-100

Sr. No.	Name	Location	Machine Type
25	AKSHARDHAM Temple	Gandhinagar	Automatic Composting Machine (ECO-750)
26	Hotel Client	Ranchi	Automatic Composting Machine (ECO-500)
27	Gwalior Alcobrew Pvt. Ltd.	Gwalior	ENVI-OWC-100
28	Hotel County INN	New Delhi	ECO-50
29	Bundi Nagar Nigam	Bundi(Rajashtan)	ECOFRIEND-75
30	Shahganj Nagar Nigam	Shahganj (MP)	ECO-50
31	GSFC	Vadodara	ENVI-OWC-200
32	DIC Fine Chem Pvt. Ltd.	Dahej	ECO-30
33	National Building Construction Co-optation Ltd.	Kandla (Kutchh)	ENVI-OWC-100
34	Indian Army	Vadodara	ECO-75
35	Vasukamal CHS LTD. (Society)	Mumbai	ECOFRIEND-50
36	Jaswanti Garden CHS LTD. (Society)	Mumbai	ECOFRIEND-100

Sr. No.	Name	Location	Machine Type
37	Himachal Environment & Sustainable Development	Kullu (Himachal Pradesh)	Automatic Composting Machine (ECO-100)
38	Indian Navy	Puducherry	ENVI-OWC-100
39	R.M Chemicals Pvt. Ltd.	Dhuliya	ENVI-OWC-75
40	Kamdhenu Builders	Mumbai	Automatic Composting Machine (ECO-50)
41	Hotel Silver Leaf	Vapi	Automatic Composting Machine (ECO-30)
42	Composting Plant (Capacity – 5000kg/day)	Daman	ECOFRIEND(S) - 500
43	Medical Collage	Lucknow	Automatic Composting Machine (ECO-100)
44	Radhika Beach Resort	DIU	Automatic Composting Machine (ECO-100)
45	Apana Hotel	DIU	Automatic Composting Machine (ECO-100)
46	ISRO (Unit of Department of Space)	Ahmedabad	Automatic Composting Machine (ECO-100)

*Let's Make India Clean & Green
Let us Know If you can Participate*



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