

Ellennvee Group

Ellennvee Enviro Engineers

Ellenvipro Enviro Equipments Pvt.Ltd.



Ellennvee

Technology approved by National Green Tribunal (NGT)
and Ministry of Housing and Urban Affairs

**ORGANIC
WET WASTE
COMPOSTERS**

**WASTE WATER
TREATMENT
PLANTS**



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About Us:

Ellenvvee Group., is a 14 year old Bengaluru based company, engaged in Design, Consultancy, Engineering and Manufacturing of Waste Water Treatment Plants, Effluent Treatment Plants and Ellenvipro Organic Wet Waste Composting machineries, with professionals, specialists and engineers who have more than 33 years of experience in the environmental field, catering the needs of Industries, Hospitals, star hotels, resorts, group housing and community requirements under one roof for all environmental needs like water and waste water reclamation and re-use, organic composting etc.,. We have designed, installed and commissioned more than 250 enviro friendly projects over last 33 years, for various categories of organizations which are successfully functioning.

We offer turnkey solution from concept to final commissioning. Solutions provided by Ellenvvee Group are custom designed and have been helping a host of industries and organisations, not only to meet Pollution Control Norms but also save money through re-use of water and bring an Eco-friendly awareness in the society. We also help in rectifying defunct STP's and bring it back to the required standards of functioning.

Director's Profile

Mr. V MOHANKRISHNA B.Sc., B.E

Chief Executive Officer

Science & Engineering graduate from Bangalore University.

Having more than 33 Years of professional experience in the field of waste water treatment, having started his career in 1986 he has worked with various organisations as a design/production engineer, Projects Engineer etc. He has designed and executed more than 250 waste water treatment plants to date, his specialization spans across designing and executing waste water treatment plants, effluent treatment plants and composting machineries, his design focus also moves beyond STP's with designing and manufacturing Filters, Clarifiers, Clariflocators and other equipments related to waste water treatment plants. His overall experience has helped clients in getting the best of solutions with utmost quality; he has helped several clients set right their STP's which were unscientifically designed and defunct, which are currently working to the required standards.

Mr. Naveen Bhargav B K MBA

Director

Management Graduate from Kuvempu University

Having more than 12 years of experience in Resource management and administration, currently heads Ellenvipro, was earlier associated with IT companies in the role of Human Resources, Professional services and Resource Management, have been actively involved in setting up complete recruitment and human resources life cycle for startups.

Features of Ellenvipro Organic Wet Waste Composter

Ellenvipro OWWC is a time based automated machine which converts the biodegradable domestic solid waste (BDSW) into useful compost over a period of 15-18 days.

- Capability of Manufacturing 50Kgs - 1.5 Tons per day capacity composter in intervals of every 50 Kgs and 100 kgs.
- Approx. 40% - 60% of input is taken out as compost and the same can be used or resold for agricultural and horticultural requirements.
- Requires 50% less power to operate compared to all other existing fully automatic waste composters which in turn saves on running cost.
- Indigenous make with dedicated manufacturing facility in Bengaluru.
- All spares are locally available making its maintenance hassle free.
- Requires less space.
- No odour and insect nuisance.
- Less maintenance, easily operated by unskilled operators.
- Takes organic waste including coconut shells, Baked Bones/Mutton/Chicken/Fish pieces, corn cobs and small twigs.
- Automated time based machine reduces manual intervention and requires less labour.
- Least environmental impacts.
- Scalable modular expansions and easy to relocate.

Models

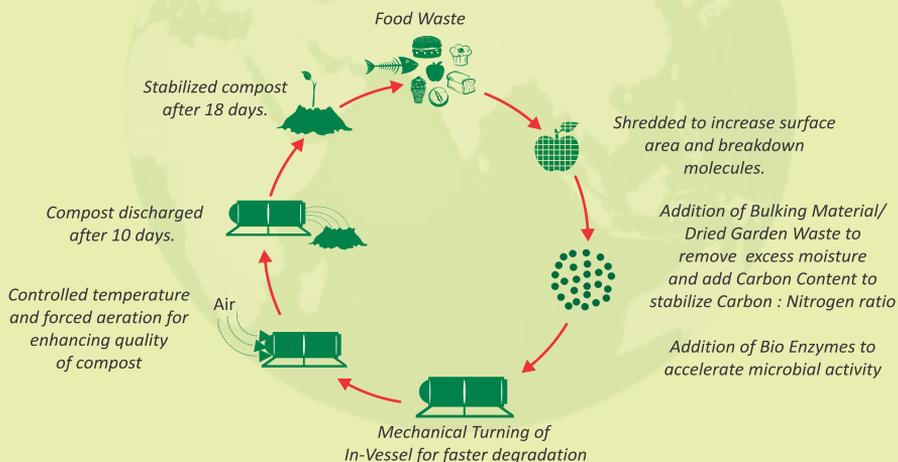


Apart from the above models, machines can be customized in intervals of every 50 & 100Kgs starting from 50Kgs/day to 1500Kgs/day

Other Waste Convertors Vs Ellenvipro In-Vessel Composter Comparison

Parameter	Rack & Crate System	24Hrs Converter	Ellenvipro In-Vessel Composter
Technology	Built on Manual Rack & Crate Methodology	Built on direct heating & Incineration Technology	Built on worldwide proven In-Vessel Technology
Space Requirement	More	Moderate	Moderate
Power Consumption	Less	Very High	Medium
Type of System	Conventional	Modern	Advanced
Man-Power Requirement	3 Person	1 Person	1 Person
Time Taken for Curing	15-18 Days	1 Day through direct heating	10 days continuous process & 5 - 7 days stabilization under controlled air, temperature & bio enzyme loading
Process Type	Batch Process	Continuous but cannot overload	Continuous and can overload
Influence of external environment on the composting cycle	High	None	None
Noise during operation	Moderate	Moderate	Moderate
Odour problems (If left unattended)	High	High	Almost nil
Possibility of expansion of curing system	Possible	Not possible	Modular expansion possible
Compost Turning	Manual	Mechanical	Mechanical
Quality of Compost	Good	Poor as heating removes most of the nutrients	Excellent – Meets norms of CPCB & MOEF
Compost Output	40 – 60% as it is manually treated	Only 10% as most of the waste is burnt and remaining 10% is Carbon Ash	40 – 60% as it is digested and treated to produce quality compost
Type of waste processing	Cannot take in hard organic substances	Cannot take in hard organic substances	Can take all hard organic substances including dried garden waste

Composting Process Flow



The above automated process takes off almost 15 days from the conventional or natural composting process, which is how our compost is ready in 15 – 18 days.



1. Precautionary segregation

**Government of Karnataka
Department of Horticulture**

Bile-centre, P.O.Box 7648, Hulimavu, Bangalore-76
Phone (080) 6362784, 6362733, Fax: (080) 6384996

No.DR: Bcechd: SADRPN: APO: 2/2018-19

ANALYTICAL RESULT OF ORGANIC MANURE

Date of receipt: 07-09-2018 Date of report: 25-09-2018

1. Name of the manufacturer : Elmervigen Biovo Equipments Pvt.Ltd. Bangalore

2. Sample sent by : _____

3. Name of the Sample : Compost (Sample-2)

4. Sample number : 107

Sl.No.	Tests Parameter	Requirements Standard	Results
1	Colour	Brown to Black	Brown
2	Odour	Absence of Foul Odour	No Foul odour
3	Moisture % by weight Maximum	25.0	19.7
4	pH	6.5 – 7.5	7.03
5	Conductivity (as dec.) not more than	4	3.18
6	Total Organic carbon (%) by weight, minimum	14.0	26.14
7	Total Nitrogen (as N) % by weight, minimum	0.3	1.56
8	Total Phosphorus (as P ₂ O ₅) % by weight, minimum	0.5	1.71
9	Total Potash (as K ₂ O) % by weight, minimum	0.5	0.81
10	C/N ratio	<20	18.4
11	Bulk density minimum	>3	0.89
12	Particle size after passing through 4mm IS sieve inch	Not less than 75%	96%
13	Pathogen	Nil	-
14	Iron (mg/kg)	-	701.8
	Manganese (mg/kg)	-	436.7
	Copper (mg/kg), Max	300.00	49.7
	Zinc (mg/kg), Max	1000.00	125.6
	Lead (mg/kg), Max	100.00	14.9
	Calcium (mg/kg), Max	5.0	3.1
	Chromium (mg/kg), Max	50.0	21.4
	Nickel (mg/kg), Max	50.0	16.8
	Calcium % by weight	-	0.36
	Magnesium % by weight	-	0.24

Remarks: Sample meets quality standards fixed by the department.

Senior Assistant Director of Horticulture
(Plant Nutrition)
Hulimavu, Bangalore - 560 076



2. Segregated waste ready to be loaded



STP - Services offered

- *Design & Installation of Sewage Treatment Plants & Effluent Treatment Plants.*
- *Operation & Maintenance Contracts.*
- *Rectification of Sewage Treatment Plants & Effluent Treatment Plants.*
- *Audit and Consultancy of Sewage Treatment Plants & Effluent Treatment Plants.*

Waste Water Treatment Technologies we work on

- *Extended aeration and Activated Sludge Process (EA – AS)*
- *Sequential Batch Reactor (SBR)*
- *Moving Bed Bio Reactor (MBBR)*

Each technology has its own pros and cons with our varied experience of designing STP's across industry lines, the time tested and proven (EA – AS) technology is highly recommended from our end.

Project Profiles



Ananda Valmark – 100KLD



Tesco – 200KLD



Nandi Citadel - 750KLD



Nandi Woods – 425KLD



St Johns –500KLD

We also Manufacture and Supply



Bar Screen



*Primary, Secondary Clarifiers
& Clariflocculator*



*Pressure Sand Filters &
Activated Carbon Filters*



Retrievable fine pore Diffusers

Operation & Maintenance

- *More than 14 Years of experience in Operating & Maintaining Waste Water Treatment Plants, working with Multinational Companies, Apartments, Industries & Hospitals.*
- *In-house strength of more than 50 employees which include Welders, Fitters, Electricians and Supervisors covered under all statutory norms.*
- *In-house facility to rectify and repair pumps, motors, Air Blowers & other STP related equipments.*
- *Employees are provided with minimum wages as per the current pay rate, all operators are verified for their background and deputed to site only after having valid ESI and PF cards.*
- *Assured reuse of water for Gardening, Flushing, common area washing and other non-potable uses.*

Clients



Ashed Valmark



Recipient of National Industrial Excellence Award and Ujwala Udyami Prashasti



Clean India Green India....



Swachh Bharat



एक कदम स्वच्छता की ओर

design & print @chethanravi@gmail.com



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