



**ECO SOLUTIONS PVT LTD. ,V/88,ACA BUILDING , PAZHOOKARA,TRICHUR,KERALA 680 731**  
**Ph: 09496137206 Email: [info@theecosolutions.com](mailto:info@theecosolutions.com), [www.theecosolutions.com](http://www.theecosolutions.com)**



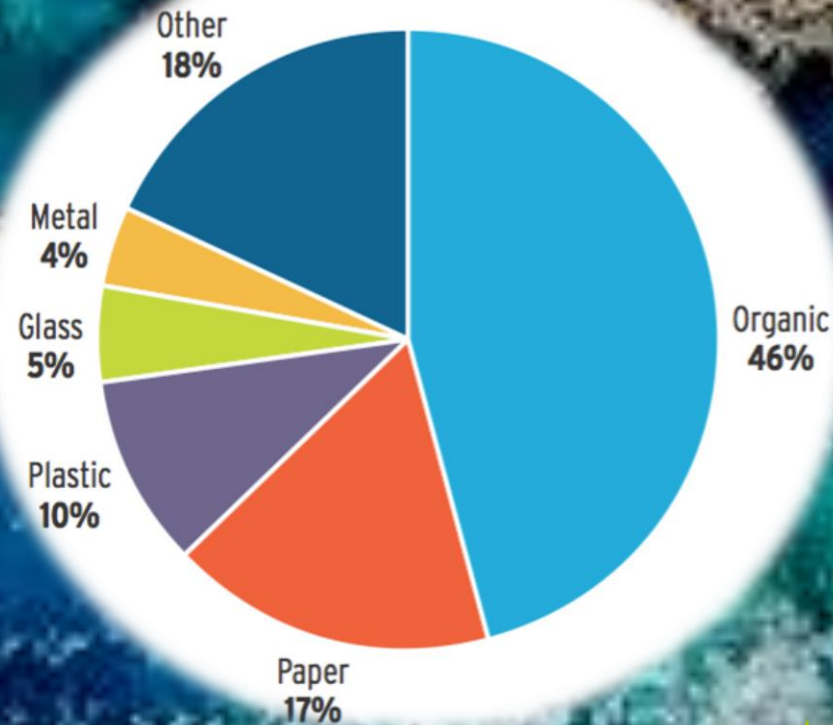
# ***SOLID WASTE MANAGEMENT***

# Issue Caused by Unmanaged Waste

## Waste a Menace



# ***1.2 Trillion Kilograms (approx.) of garbage generated in the World***





# SITTING ON 4 LAKH METRIC TONNE OF GARBAGE

## AIR POLLUTION: JANUARY 2015\*

**100/rcpm**  
Normal value  
(upper limit)

**400-500/rcpm**  
Value recorded in the direction  
in which wind was blowing

**200/rcpm**  
Value recorded against the wind

## WATER POLLUTION\*\*

2013	<b>1276 mg/litre</b> TDS (total dissolved solids)	<b>352 mg/litre</b> Calcium & magnesium levels in water
2015	<b>1994 mg/litre</b> TDS (total dissolved solids)	<b>796 mg/litre</b> Calcium and magnesium

**600mg/litre**  
should be the upper limit of potent water

## TURBIDITY

2013	<b>0.86 NTU</b> Turbidity (suspended solid matter) in water	2015	<b>1.64 NTU</b> Calcium & magnesium levels in water
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**1 NTU**  
Normal level should not cross

\*REPORT BY MPPCB

\*\*COLLECTED FROM TUBE WELL NEAR TRENCHING GROUND, REPORT BY MPPCB



# CHALLENGES

- Foul smell
- Breeding of flies and other insects causing the spread of various contagious diseases
- Leachates coming out of the waste piles contaminating soil and water
- Large tracts of land used up for the waste piles
- Very unpleasant to the eye.



# CONSEQUENCES

- ❑ **The present human life has endangered our future existence. this is the result of unmanaged waste and ignorance.**
- **Global warming /climate change**
- **Water depletion /pollution**
- **Biodiversity depletion**
- **Soil health depletion leading to plant health challenges**
- **Human/animal health impact**



# THE NEED OF WASTE MANAGEMENT

Waste if not properly managed will.....

- Generate foul smell
- Help breed flies and insects which will cause further health hazards
- A lot of space is wasted for land filling
- Contaminate water
- Waste is burnt generating carbon dioxide and other poisonous gases
- Plastic interfere with the water percolation into the soil



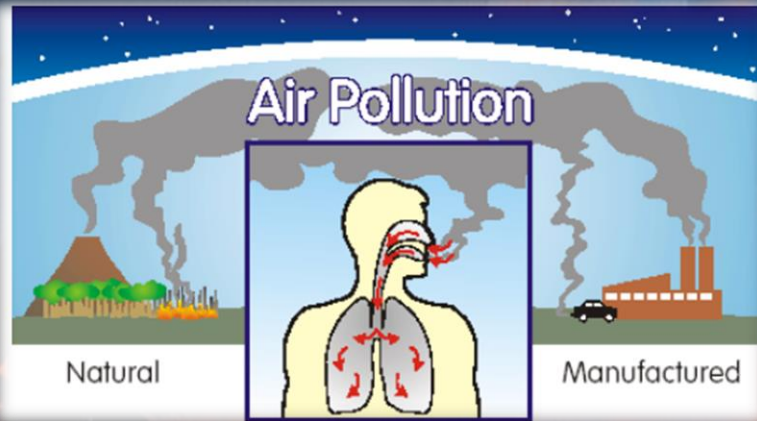


***CHALLENGES FACED BY THE WORLD***

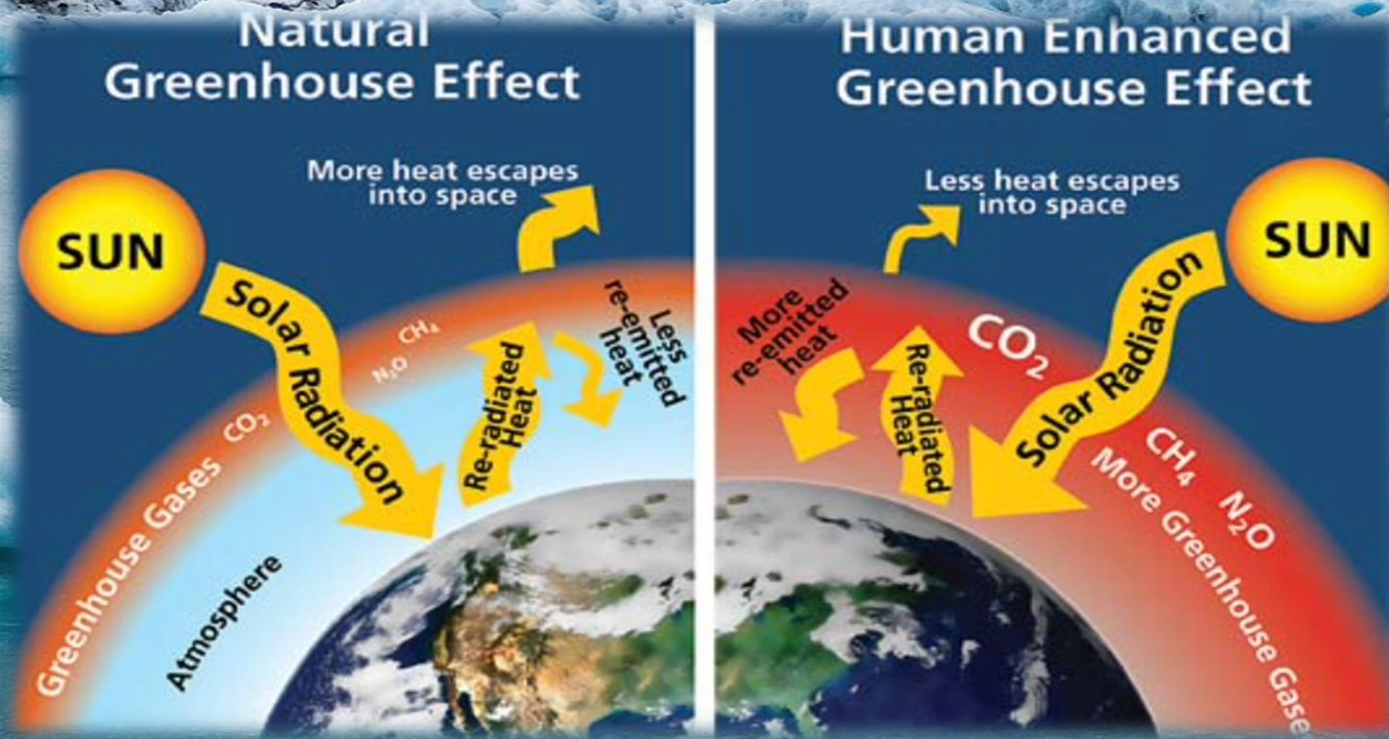
# FOSSIL FUEL BURNING



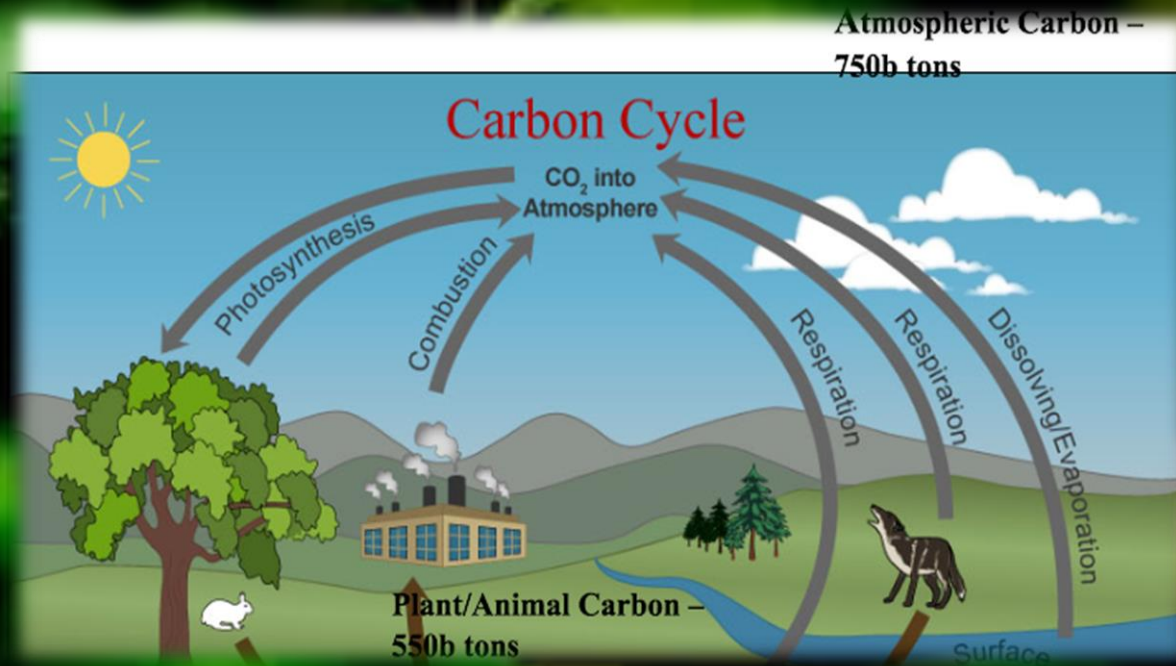
# IT COMES TO US



# GLOBAL WARMING



# Soil Organic Matter ( Organic Carbon is 58% of Organic Matter)



## the carbon footprint



A **carbon footprint** is historically defined as "the total sets of **greenhouse gas** emissions caused by an organization, event, product or individual"

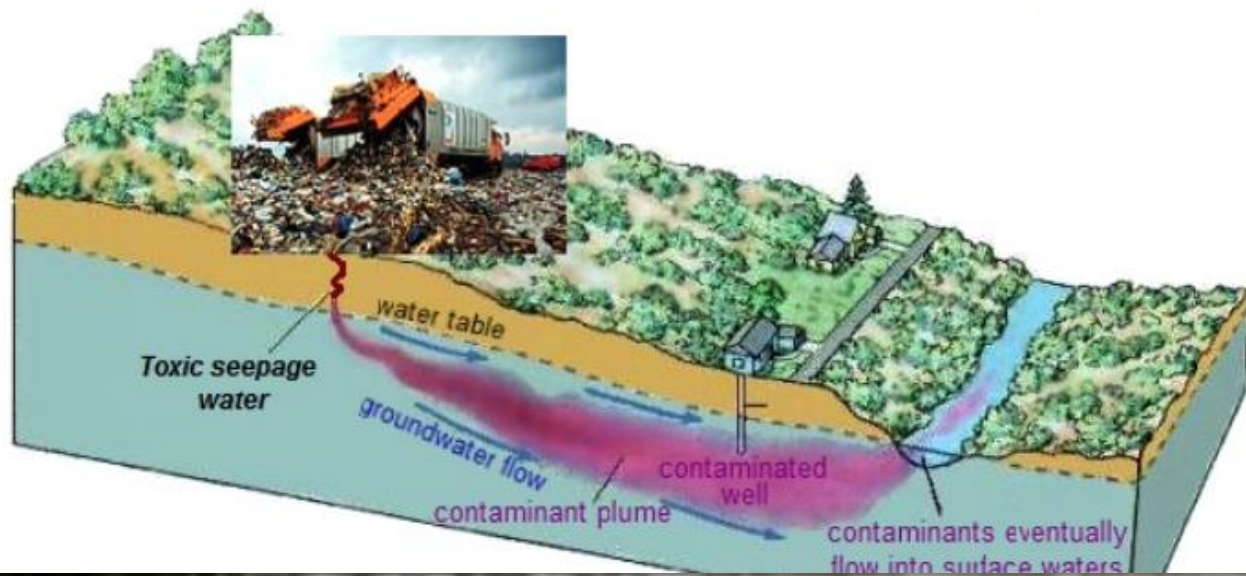
# WATER POLLUTION

- Marine Dumping
- Industrial waste
- Sewage,  
mainly from household



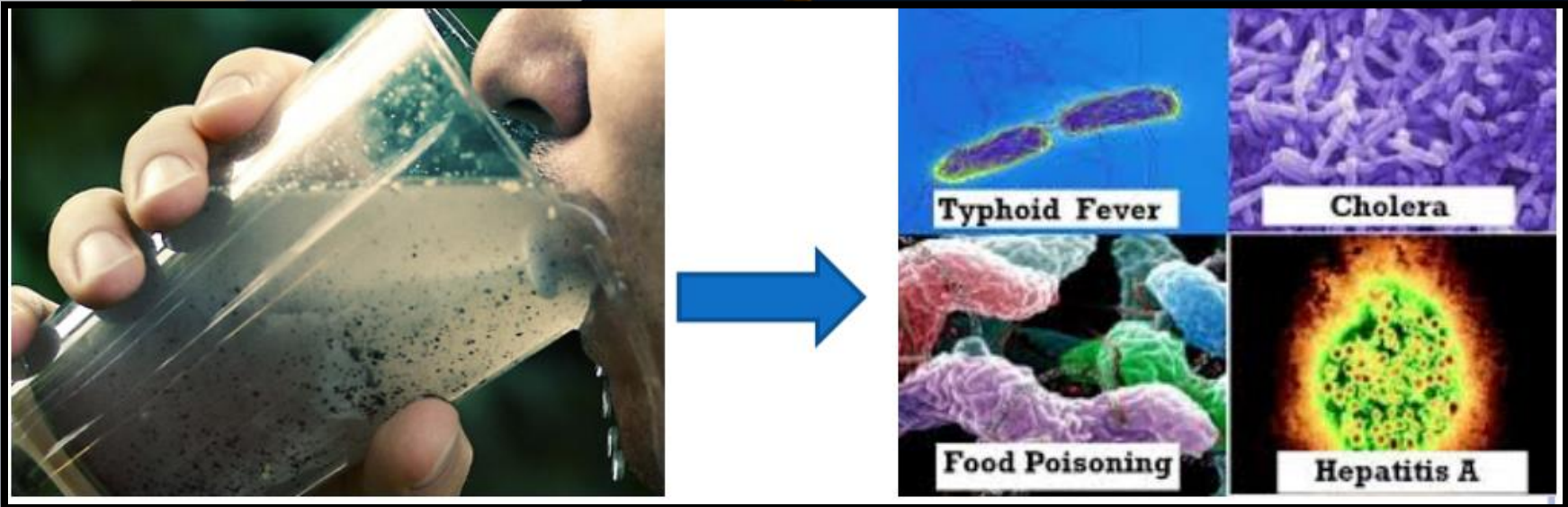
- Seepage from contaminated dumps

**Contamination of groundwater and waters by toxic seepage water of a waste disposal site (dumping site)**





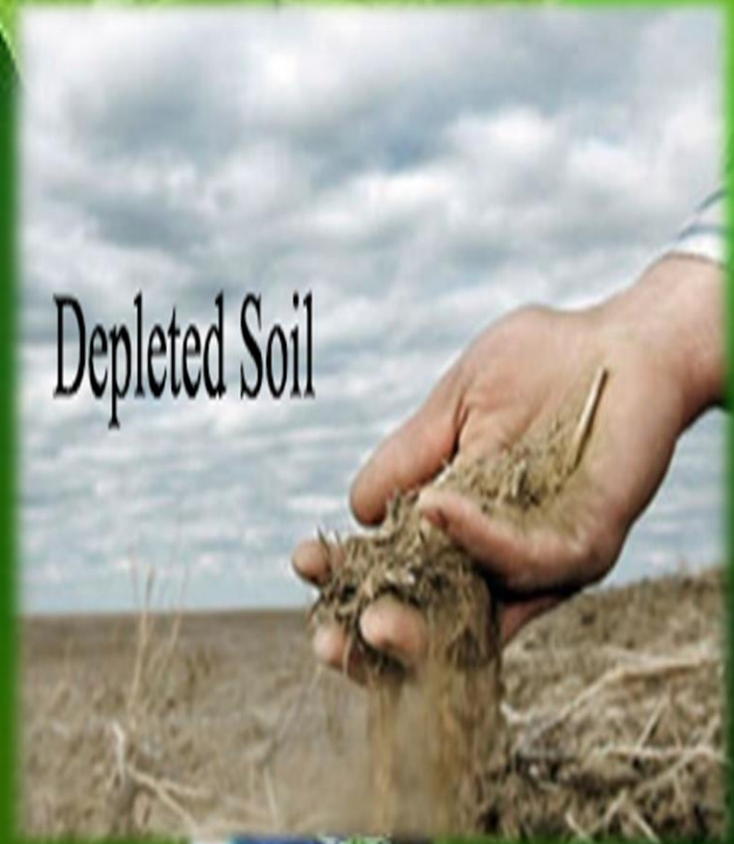
# EFFECT ON PEOPLE



# SOIL POLLUTION



# ORGANIC FERTILITY OF INDIAN SOIL



# DANGEROUS CHEMICALS USED FOR CROP PROTECTION



# ADVERSE EFFECT OF DANGEROUS CHEMICALS ON HUMANS

## *CANCEROUS GROWTH*



# EFFECTS OF ENDOSULFAN ON CHILDREN



# CLIMATE CHANGE CHALLENGES



# PROCESS OF WASTE MANAGEMENT

- Educating clients about segregation at source
- Collection from sources using small vehicles
- Bringing the collected waste to processing site
- Manual sorting where ever needed
- Scientific management of the sorted waste



# **THE DIFFERENT WASTES ARE SEGREGATED**

**The Sorting Generates**

- Various Types Of Plastics  
Which Is Send For Recycling**
- Glass ,Metal Can Be Recycled**
- Biowaste**
- A Small Percentage Of Waste  
Need Incineration**



# WASTE SEGREGATION CHART

Wet Waste



Vegetable & Fruit Peel, Food Remains, Expired Food item, Meat, Bone, Egg Shell, Flower, Tea Bag & Coffee Powder, Coconut Shell & Fibre etc.



Do not Put in Plastic Cover  
They can be composted



Dry Waste



Plastic, Paper, Wood, Glass, Rubber, etc items not having medical or sanitary residues.



Clean and Store.  
Give it to Recyclers



Sanitary Waste



Used Sanitary Napkins, Diaper, Dead Pest, Ear Buds, Dental Floss, Bandage



Do not throw as is. Wrap in Newspaper.  
Mark it with red cross (X) before disposal



Garden Waste



Large Quantity of Leaves, Branches, Dried Plants



Handover Separately to  
MCC Collection Trucks



Hazardous Household Waste



Medicines, Pesticides, Old Paints, Hair Colour, Mosquito Repellent, Syringes, Cosmetics



DO Not Mix with other Waste.  
Store Carefully.  
Hand it over to specific Recyclers



Debris/ Rubbish



Construction Debris, Demolition Waste, Broken Glass, Broken Furniture



Call MCC or  
Other Agencies for Pickup



E-Waste



Tube lights, CD's, Batteries, Computers, Televisions, Mobile phones, Laptops, Printer Cartridges, Cables



DO Not Mix with other Waste.  
Store Carefully.  
Hand it over to specific Recyclers



PLASTIC

PAPER

E-WASTE

HAZARDOUS  
WASTE

WET  
WASTE

INCINERATION

SEGRIGATION  
SPOT



# WASTE WITH WISE

- Wet waste**  
collect, compost, manure, sold, used for agriculture
- Plastic**  
can be cleaned, collected, sold, recycled
- E-waste**  
can be cleaned, collected, sold, recycled
- Paper waste**  
collected, sold
- Hazardous waste**  
collected and destroyed
- Other waste**  
can be incinerated in an un harmful ways



4R Recycling Private Limited					
Price List to VEYENEM dated Dec 2 2015.					
		UOM	Unit	CST @	Unit Rate
Sl.	Particulars		Rate (₹)	5.00%	Total (₹)
1	Electric Choke	KGS	19.05	0.95	20.00
2	Fax	KGS	11.43	0.57	12.00
3	Keyboards	KGS	11.43	0.57	12.00
4	Monitor	KGS	26.67	1.33	28.00
5	Mother board parts	KGS	28.57	1.43	30.00
6	Printers	KGS	13.33	0.67	14.00
7	Telephone	KGS	11.43	0.57	12.00
8	Xerox Machine	KGS	13.33	0.67	14.00
9	Washing machine	KGS	13.33	0.67	14.00
10	Refrigerators	KGS	10.48	0.52	11.00
11	Air coolers	KGS	14.29	0.71	15.00
12	Air conditioners	KGS	23.81	1.19	25.00
13	CRT Monitors	KGS	26.67	1.33	28.00
14	CRT TV	KGS	9.52	0.48	10.00
15	CPU	KGS	23.81	1.19	25.00
16	TFT Monitors	KGS	26.67	1.33	28.00
17	SMPS	KGS	9.52	0.48	10.00
18	Laptop adaptor	KGS	19.05	0.95	20.00
19	Hard Disk	KGS	38.10	1.90	40.00
20	Laptop	KGS	95.24	4.76	100.00
21	Wires and Cables	KGS	23.81	1.19	25.00
22	General E-Waste	KGS	14.29	0.71	15.00
<b>HAZARDOUS WASTE (To be picked against PAYMENT)</b>					
			<b>Negative Purchase</b>		



# IT IS TIME TO THINK ABOUT ALTERNATIVES



ALTERNATIVE INITIATIVE TO PLASTIC AT KOLLAMKODE PANCHAYATH



AVOIDING PLASTIC CARRY BAGS AT PALLARIMANGALAM PANCHAYTH

URING COMPOSTING  
WEEK 1

DURING GROWTH

# OUR SOLUTION FOR MUNICIPAL AND INDUSTRIAL SOLID WASTE

**BIOCLEAN**<sup>TM</sup>  
AEROBIC COMPOSTING MEDIA

A patent pending product

Domestic Waste Chicken Waste Fish Waste

Speedy conversion Of waste without Foul smell

Make excellent Organic Manure, Growing Media from waste

Waste + **BIOCLEAN**

- ✓ Domestic Waste
- ✓ Hotel Waste
- ✓ Chicken Waste
- ✓ Fish Waste

The advertisement features a central graphic with three columns of waste: 'Domestic Waste' (vegetables), 'Chicken Waste' (chicken parts), and 'Fish Waste' (fish). A large grey arrow points from these columns down to a pile of dark, rich compost. To the right of the arrow, a list of waste types is shown with checkmarks. The background of the advertisement is white with green and blue accents.

# WASTE MANAGED AT CATERING HOUSE





# CENTRALISED BIOGAS PLANT



# THUMBOORMUZHI MODEL WITH COMPOSTING MEDIA





# DECENTRALISED WASTEMANAGEMENT



- BIOCOMPOSTER
- DESIGNED FOR FAMILIES
- CAN BE KEPT IN YOUR WORK AREA
- ANYTHING EXCEPT PLASTIC CAN BE ADDED
- CONVERTED TO MANURE IN 20 DAYS
- EASY TO HANDLE
- FREE FROM RATS AND FLIES
- NO FOUL SMELL

# KITCHEN BIN



**VENTILATED BIN**



**COMPOST MEDIUM**

# മാലിന്യം ജൈവവളമായി: ഇനി വിപണിയിലേക്ക്

## മാലിന്യം കുറഞ്ഞു;കുനംകുളത്തു നായ്ക്കളും

കുന്നകുളം • വായലിലെ തള്ളുന്ന മാലിന്യം, ഇനി ജൈവവളമായി വിൽപനയിൽ കയ്യാക്കി പരാമിഡെ മാലിന്യ സംസ്കരണ പ്ലാന്റിൽ പരിഷ്കരിക്കാനുപയോഗിക്കുന്നതിൽ തുടങ്ങിയ ജൈവവള നിർമ്മാണ, വലി വിപണിയിലെ നിലവാരം കടമെടുക്കുകയും, മാലിന്യവും പച്ചക്കറി അവശിഷ്ടങ്ങളും ഇവയ്ക്ക് സംസ്കരിക്കുന്നതിൽ തുടങ്ങിയ ജൈവവള നിർമ്മാണ പ്ലാന്റിൽ നടക്കുന്നത് കൃത്യമായി കൈകാര്യം ചെയ്യാനായിട്ടുണ്ട്.

ഇതുപോലെ തുറൽ കെട്ടിടങ്ങളിൽ സെന്ററിന്റെ (ഐ.ആർ.ടി.സി)

നേതൃത്വത്തിലാണ് ജൈവവള നിർമ്മാണത്തിന് പരിശീലനം നൽകിയത്. സഹായകമായി പലതരം സെന്ററുകളിൽനിന്നും ശേഖരിക്കുന്ന മാലിന്യം, ഇവിടെ വ്യക്തമായ വേർതിരിക്കുന്ന; പച്ചക്കറി ഉൾപ്പെടെയുള്ള മാലിന്യമാണ് ജൈവവള നിർമ്മാണത്തിന് ഉപയോഗിക്കുന്നത്. ഇപ്പോൾ മാലിന്യവും, ഇതോടൊപ്പം സംസ്കരിക്കാൻ കഴിയും. നവംബറിൽ മാലിന്യം, വായലിൽ നിർമ്മാണത്തിന് മാലിന്യം ഉപയോഗിക്കാൻ തുടങ്ങി.

പ്ലാന്റിൽ ഉൾപ്പെടുന്ന മാലിന്യം, തന്മൂലം വേർതിരിക്കപ്പെടുന്നു. പിന്നീട് ഇതിൽ ചെടി വിതയ്ക്കും. ബാക്ടീരിയയും, പേർപ്പട്ടും കൃഷിയിലേക്ക്, ഇങ്ങനെ

പേർപ്പട്ടം വിതയ്ക്കും. ബാക്ടീരിയയും, പേർപ്പട്ടും കൃഷിയിലേക്ക്, ഇങ്ങനെ പേർപ്പട്ടം വിതയ്ക്കും. ബാക്ടീരിയയും, പേർപ്പട്ടും കൃഷിയിലേക്ക്, ഇങ്ങനെ

നഗരത്തിലെ മാലിന്യം, ഐ.ആർ.ടി.സി സഹായം എന്ന് കൃത്യമായി കൈകാര്യം ചെയ്യാനായിട്ടുണ്ട്. മാലിന്യം, വായലിൽ നിർമ്മാണത്തിന് മാലിന്യം ഉപയോഗിക്കാൻ തുടങ്ങി.

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വായലിലെ തള്ളുന്ന മാലിന്യം, ഇനി ജൈവവളമായി വിൽപനയിൽ കയ്യാക്കി പരാമിഡെ മാലിന്യ സംസ്കരണ പ്ലാന്റിൽ പരിഷ്കരിക്കാനുപയോഗിക്കുന്നതിൽ തുടങ്ങിയ ജൈവവള നിർമ്മാണ, വലി വിപണിയിലെ നിലവാരം കടമെടുക്കുകയും, മാലിന്യവും പച്ചക്കറി അവശിഷ്ടങ്ങളും ഇവയ്ക്ക് സംസ്കരിക്കുന്നതിൽ തുടങ്ങിയ ജൈവവള നിർമ്മാണ പ്ലാന്റിൽ നടക്കുന്നത് കൃത്യമായി കൈകാര്യം ചെയ്യാനായിട്ടുണ്ട്.

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ഇതിനായി വീടുകളിൽ ചെറിയ മാലിന്യ സംസ്കരണ പ്ലാന്റുകൾ നിർമ്മിച്ചാൽ മതിയാകും. നഗരം സമാഹരണ സ്ഥാപനങ്ങൾ ഇതോടൊപ്പം പങ്കെടുക്കുമായി തുടരുന്നതായി മാലിന്യ നിർമ്മാണത്തോടൊപ്പം, നഗരവ്യവസ്ഥകളും കയ്യാക്കുന്ന പാതയും.

# BIO BIN COMPOSTER

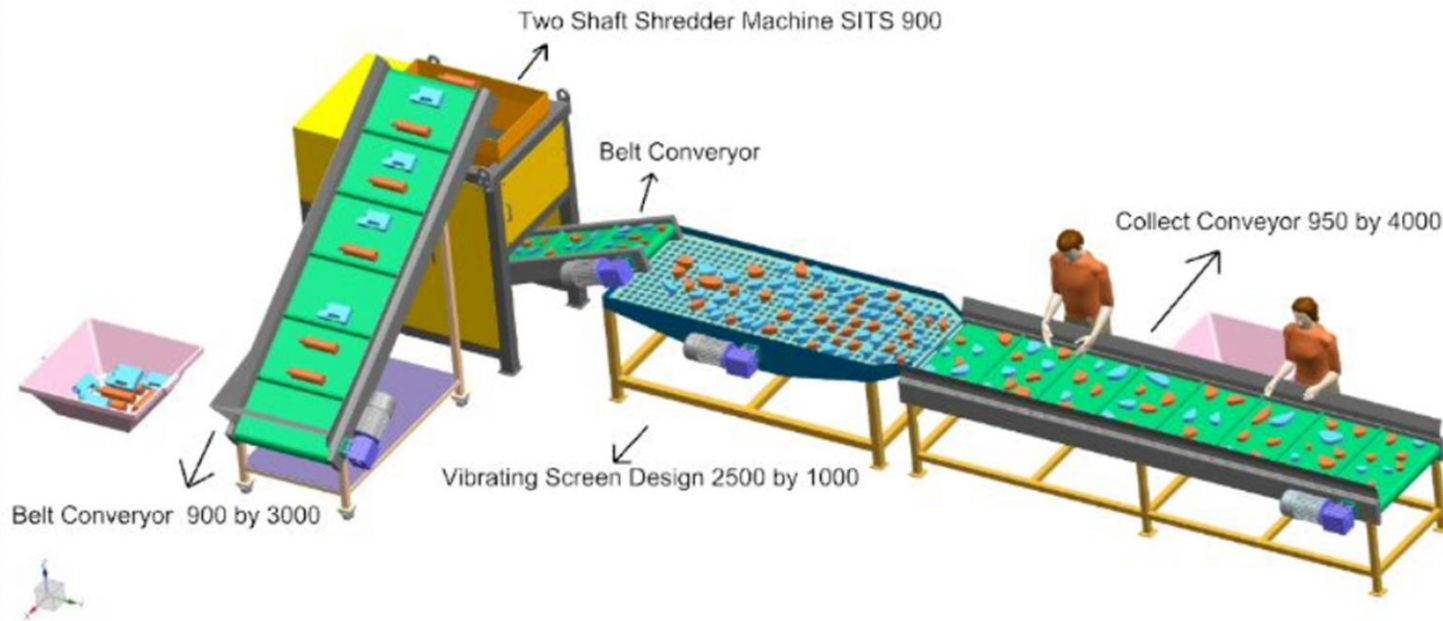


**BIO BIN DISTRIBUTED IN  
CHALAKUDY MUNICIPALITY  
BY HONERABLE MLA SRI  
B.D.DEVASSY**

**BIOCOMPOSTER INSTALLATION  
AT PERINTHALMANNA  
MUNICIPALITY**



# ORGANIC WASTE SHREADING UNIT



Total Lenth = 8937 MM

Total Width 3362 MM

Total Hight 2403 MM

"Shredder India"  
Two Shaft Shredder  
Machine S I T S 900  
Date = 14-2-2017



# ORGANIC WASTE DISPOSER

ABIA FOOD WASTE DISPOSER- Commercial Models



# **KUNNAMKULAM MUNICIPAL TRENCHING GROUND BEFORE**



# KUNNAMKULAM TRENCHING GROUND NOW



# PARAVOOR WASTE MANEGMENT PLANT



# ATHIRAPILLY



# GURUVAYUR



# **ORGANIC MANURE PRODUCTION CENTERS**

- INVEST ON WASTE AND EARN FROM IT
- 40% SUBCIDES ON INVESTEMENTS
- FIVE YEAR TAX EXEMPTION ON MANURE PRODUCED FROM WASTE
- QUALITY MANURE PRODUCED OUT OF VEGETABLE, FISH, AND CHICKEN WASTE
- JOBS GENERATED
- POLLUTION ELIMINATED
- SOCIAL COMMITMENT DONE.

# OUR SOLUTION IN SOLID WET WASTE MANAGEMENT



Grow safe  
& healthy  
Food



**Organic Manure**



**Aerobic Composting**



# COLLECTION FROM SOURCE



# TRANSPORTING THE COLLECTED WASTE TO PROCESSING SITE



# MANUAL SORTING



# ADDING BIO CLEAN



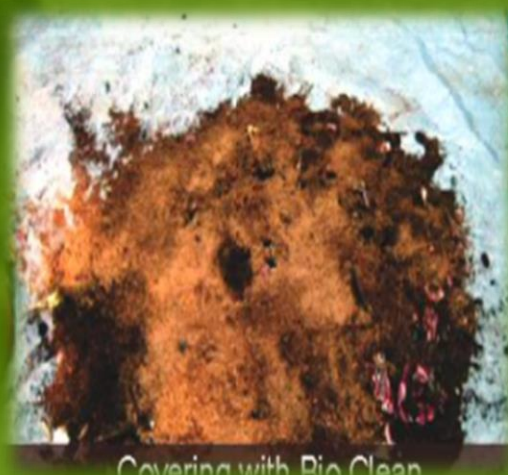
Apply a Layer of Bio Clean



Apply a Layer of Vegetable Waste over the Bio Clean



Apply one more layer of Bio Clean



Covering with Bio Clean


# **ORGANIC MANURE AFTER 20 DAYS FROM THE BIO WASTE**



# **ADVANTAGES OF BIOCLEAN**

- Biodegradation takes place in a very short time using the media.**
- Absolutely no foul smell. A biodegradable waste which generate foul smell when introduced to the composting medium loses the foul smell immediately.**
- No Leachates during the composting process**
- No flies when the moisture is maintained at an optimum level.**
- Frequent turning of the material not required thereby reducing the cost incurred for turning.**
- Frequent watering of the heap not required because the composting media has got excellent water retention qualities.**
- The composting media ensures optimum temperature for most efficient composting.**

- ❑ **The buffering capacity of the media ensures the optimum ph for the most efficient degradation.**
- ❑ **The efficient and complete breakdown of organic material prevents the possibility of evolution of any unwanted gases like Carbon Monoxide, Hydrogen Sulphide etc.**
- ❑ **A hassle free, convenient and odor free composting of organic material permits us to do the composting even in a domestic environment.**
- ❑ **Hardly any capital investment is required to do composting using this medium.**
- ❑ **The output is a high quality organic manure with a pleasant odor and could be handled very conveniently.**
- ❑ **The organic manure generated by this media has a very important role to play in enhancing soil fertility and it is an excellent growing which can be used in home gardens.**

A wooden frame, possibly a picture frame, is shown in the top right corner. A white daisy flower with a yellow center is attached to the frame. The background is a vibrant green, textured surface, possibly grass or a green wall.

If Biodegradable waste is managed and processed well it will generate quality **Organic Manure**.

This **Organic Manure** is the food for the soil.

The biggest crisis agriculture facing today is poor organic matter in soil.



# PRESENT STATUS OF INDIAN SOIL IN TERMS OF ORGANIC FERTILITY

HEALTHY SOIL	DEPLETED SOIL (Based on the studies conducted by Dr.Joshy V.Churian and his team.)
The Organic Matter level approx 2 to 3 %	The Organic Matter level below 0.5% in Most places
Approximately 25 to 30 lakh earth Worms per acre	Approximately 2 to 3 lakhs of earth Worms per acre
Various other soil organisms abundantly available	Few soil organisms are available
Approximately 10 to 15 tons of Microbes present per acre soil	Approximately 3 to 5 tons of microbes Present per acre of soil.

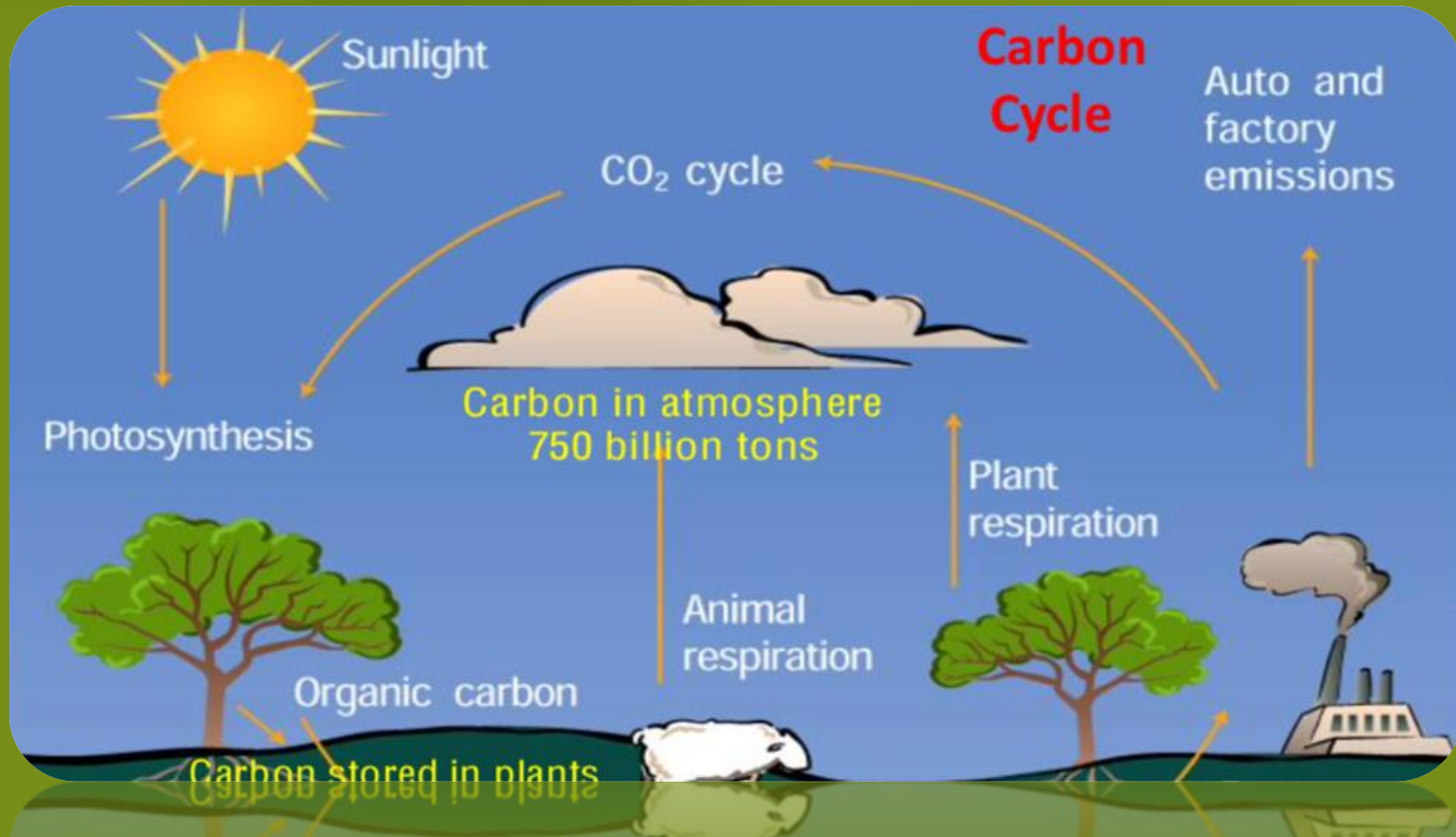


# **BENEFITS OF ORGANIC MANURE**

- Organic manure provides various macro and micro nutrition on a sustainable basis to the plants.
- Organic manure ensures adequate supply of organic carbon which is a source of energy for the soil microbes and insects therefore optimum organic carbon in the soil will ensure a rich population of beneficial microbes and soil organisms.
- It enhances the buffering capacity of the soil.
- It helps maintain an optimum air water balance in the soil.

# SOIL ORGANIC MATTER

(SOIL ORGANIC MATTER IS ROUGHLY 1.72 TIMES THE VALUE OF SOIL ORGANIC CARBON)





# SOIL ORGANIC MATTER

## SOIL ORGANIC MATTER

(a complex and varied mixture of organic substances)

The release of carbon from the soils into the atmosphere is about 62 billion tons/year while only about 60 billion tons of carbon is going back into the soil from the atmosphere via the plant residues. This imbalance of about 2 billion tons of carbon along with about 5 billion tons of carbon released by the burning of fossil fuels every year is added to the atmosphere. Therefore soil organic matter plays a critical role in the global carbon cycle, and there by the climate change

Environmental benefits...

- Aerobic composting is a well accepted CDM practice which attracts carbon credit
- Our technology helps to reduce Nitrous Oxide release which is a very potent green house gas

Studies have clearly shown that increased chemical Nitrogen fertilizer use over the past 50 years is responsible for dramatic rise in atmospheric Nitrous oxide which is 300 times more potent than Carbon dioxide as a green house gas.

The organic manure generated by our process by converting various nitrogen rich bio waste like slaughter waste, fish waste etc helps to replace chemical Nitrogen fertilizer application in a big way. Therefore this

## Environmental benefits...

- The organic manure generated by this process helps to improve the soil organic matter thereby improving the soil health
- Healthy soil will ensure healthy plants
- Healthy plants require less poisonous chemicals for protecting the plants therefore less harmful residue in the environment, food and water

- Organic manure helps save water
- Provides balanced macro and micro nutrients to the crop
- Improves the biodiversity
- Provides perfect air-water balance at root zone
- Retain physical properties of soil for a long time

• Retain physical properties of soil for a long time

• Provides balanced macro and micro nutrients to the crop



Environmental benefits...

- Ability to retain nutrients by adsorption
- Maintains optimum media/ **soil temperature**
- Provides more quality yield and growth
- Supports very high population of beneficial microbes in the root zone.

## Social benefits...

- The BIOCLEAN can be used to convert different types of bio-degradable waste generated locally like domestic waste, fish waste, chicken waste, hotel waste etc into organic manure. Thereby ensuring a **clean odor free environment**
- The organic manure generated will be used for producing safe / organic vegetables, flowers and mushrooms where ever the manure is generated. This is will ensure a healthy human and animal population
- This project can generate employment at various levels

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# OMEGA ECOTECH PRODUCTS INDIA PVT LTD

•**OMEGA ECOTECH PRODUCTS INDIA PRIVATE LIMITED** came into existence in the year**1999** at **Coimbatore, Tamil Nadu (India)**. We are engaged in **manufacturing, supplying and exporting** a comprehensive gamut of **Bio Fertilizers, Bio Fungicides, Bio Pesticides, Organic Manures, Growth Promoters and Processed Coco Peat**. This company is promoted by a team of Environmental and Agricultural scientists with rich experience in **Biotechnology, Horticulture, Waste Land Development, Solid Waste Management and Organic Agriculture**.



## Dr. Joshy V Cherian

**Ph.D., Environmental Science**

Area of Specialization - Natural Resource Management, Organic Agriculture and Solid Waste Management

**Managing Director**

Omega Ecotech Products India Pvt Ltd, Coimbatore

**Founding Chairman**

Indian Organic Farmers Producer Company Limited, Aluva, Cochin

**Co-ordinator**

Farmers Self Help Group

**Consultant**

Sustainable Agriculture & Solid Waste Management



## Dr. P. Thamizhchelvan

**Ph.D., Microbiology**

**Technical Director**

Omega Ecotech Products India Pvt Ltd, Coimbatore

**Consultant**

Sustainable Agriculture & Solid Waste Management



## Dr. D. Purusothaman

**Ph.D., Microbiology**

**Former Head of the Department**

Department of Microbiology

Tamilnadu Agricultural University (TNAU), Coimbatore

**Technical Advisor**

Omega Ecotech Products India (P) Ltd



THANK YOU



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