WASTE. Why bother?

#WARRIORWEBINAR

22nd May 2020
WHAT IS WASTE?

WASTE is any **unwanted or unusable material** which is **discarded after primary use** as WE now find it worthless, defective and of no use.

WASTE also means **to use or expend carelessly, extravagantly, or to no purpose**
WHO IS \textit{WASTE WARRIORS}?

A non-profit organisation and a registered society with a mission to provide sustainable Solid Waste Management solutions to improve our Environment, Health and Quality of life.

\textit{\footnotesize~BY WORKING SINCE 2009, THROUGH~}

1. Direct Action
2. Awareness-Raising
3. School Education
4. Community Empowerment
5. Policy Advocacy
6. Government & CSR Partnerships
Dehradun + Dharamsala + Corbett

- 99 Field and Office Staff
- 460+ Schools Engaged
- 450+ events & meetings with Govt.
- 1000+ cleanups & transformations
- 11,300+ homes & businesses supported
- 4000+ tonnes of waste segregated
- 460+ awareness sessions/trainings
- 1100+ awareness sessions/trainings
So, why bother about your waste?
Because it's slowly killing you!

And everyone else around YOU!

They need your attention!

(Image: Otara Foundation)
We are all dying from plastic ingestion.
A cleanup by Waste Warriors Dharamsala team at Triund, a popular trekking site
Piles of dumped waste burning along forests, human dwellings and pretty much the entire country, are disturbingly familiar sights.
Current journey of waste, in India

Household dustbins with mixed waste

Collection of mixed waste

Segregation of recyclables from mixed waste

Dumping of remaining waste in an unscientific dumping ground
Effects of poor SWM - Solid Waste Management

- Litter
- Plastic in forests
- Waste in Water Bodies
- Garbage heaps
- Animals vs. plastic
- Human-animal conflict
India now generates, **every day**, **62 million tons** (that is **62,000,000,000 kgs**) of **municipal solid waste**.

Around 70% is collected, but less than 25% is actually processed. And this is only **municipal** solid waste (covering only about **30% of India**) that we are talking about right now!

Source May 2019

Out of 1.21 billion Indians (2011), 68% (83.3 million) live in rural areas.

Rural Solid Waste = 0.3 to 0.5kg (per person, per day)

Generating, 4.8 Million Tonnes EVERY YEAR

At current rates, rural India will need 100 acres of landfill space, 1 metre high, EVERY DAY!

That’s about 12% of Corbett Tiger Reserve, EACH YEAR!

*Source: Solid Waste Management in Rural Areas: A Step-by-Step Guide for Gram Panchayats & 70% Indians live in rural areas: Census by Business standard
The time to ACT is NOW!

(Image: Ricky Patel)
EDUCATE YOURSELF and start managing your waste properly. Be a conscious consumer. This will also reduce your carbon footprint and make your life/business more profitable.

To sum, be the change you want to see - Mahatma Gandhi
What can you do?

INVOLVE THE COMMUNITY to keep 10m around you clean. Work together and introduce low-cost techniques to create micro processing centres for better health, sanitation & livelihood generation.
What can you do?

SPREAD AWARENESS by talking about your experience and encourage others to follow. Sensitise your family, your staff, your guests, local authorities, visiting drivers/guides and other travellers.
WHAT CAN YOU DO?

To summarise...

1. Start with yourself
2. Keep 10m around you clean
3. Spread awareness
The 6 R’s of a conscious consumer

**Refuse**
what you do not need

**Reduce**
what you do need

**Reuse**
what you consume

**Recycle**
what you cannot refuse, reduce, or reuse

**Rot**
(compost) the rest

Respect

to waste workers
REFUSE WHAT YOU DO NOT NEED

- To reduce your trash, learn to refuse what is given to you for free.
- Refuse single-use plastics, like disposable coffee cups, plastic spoons and straws.
- Keep reusable items with you, at home or at your office, like a steel water bottle, steel spoon/fork, cloth bags, tea/coffee cups.
REDUCE WHAT YOU DO NEED

- Use reusable cloth bags when shopping.
- Avoid individually wrapped items, snack packs, and single-serve containers.
- Reduce the amount of unwanted mail you receive by post. Opt for email instead. Buy local instead of ordering online.
- Do not print receipts at ATM’s / Use both sides of printer paper.
- Use refill water bottles. Avoid buying drinking water/beverages in plastic bottles, Tetra Pak.
- Do not use disposable plates, cups and cutlery.
- Use rechargeable batteries.
REUSE WHAT YOU CONSUME

- Cleaning glass jars and small pots to use them as small containers to store items.
- Donate old clothes and books to charity.
- Donate old electrical equipment to schools or community centers so that others can reuse them.
- Don’t throw away large plastic bottles; they can be made into pots for herbs.
- Use your creativity and reuse waste.
• Give newspapers, papers, cardboard, tetra pak, plastic bottles and cups, glass bottles, broken glass, aluminum and tins cans to your local scrap dealer (LONG LIVE the kabaadi-wallas!) or rag-pickers.
• Collect all low-micron plastic and give it to Waste Warriors!
Compost your food waste to stop it from going to the landfill.
Compost creates healthy nutritious soil for your plants.
Compost at home helps reduce greenhouse gases at the landfill.
Compost saves you from buying fertilizers for your plants.
They are the real heroes.
They clean the mess that WE create.
We are the “kachra-walas, not them.
Next time a worker cleans your mess, please say “Thank You!”
SEGREGATE SOLID WASTE
AT PRIMARY SOURCE

- Organic, Horticulture & Food Waste
- Reusable & Saleable Waste
- Sanitary & dirty / unusable recyclables

USE LABELLED DUSTBINS
## Food and Horticulture Waste

<table>
<thead>
<tr>
<th>Waste Type</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh grass clipping and garden trimmings</td>
<td></td>
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<tr>
<td>Leftover food, vegetable and fruit peels</td>
<td></td>
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<tr>
<td>Manure (chicken, horse, rabbit or cow)</td>
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<tr>
<td>Fish &amp; meat bones</td>
<td>Egg shells</td>
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<tr>
<td>Coffee grounds, filters and tea bags</td>
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<tr>
<td>Dry grass and leaves</td>
<td></td>
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<tr>
<td>Dry twigs, branches, straw and sawdust</td>
<td></td>
</tr>
<tr>
<td>Hair clumps and nails</td>
<td></td>
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<tr>
<td>Food stained paper or napkins</td>
<td></td>
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<tr>
<td>Floor sweepings and dust</td>
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</tbody>
</table>
**Dry Recyclable Waste**

- Plastic Bottles and Containers
- Newspapers
- Fused Bulbs, Tube Lights, Batteries
- Broken Electronics
- Chips, Chocolate Wrappers & Tetra Pak
- Cardboard, Thermocol and Styrofoam
- Aluminium, Tin and Metals
- Old/torn Clothes
- Broken Glass and Glass Bottles
- Cigarette Butts, Tyres and Rubber
- Plastic Bags and Milk Packets
**Dry Non-recyclable Waste**

- **Used Tissue Paper or Cloth with sanitary waste, blood, puss, snot or any other human discard.**
- **Dirty, old or unusable recyclables**
- **Medical Waste**
- **Soiled Diapers/Pads or any other type of sanitary waste**
What To Do With Dry Waste?

**Dry | Recyclable Waste**
- *Reuse at Home*
- *Sell to Recycle*
- *Up-cycle*

**Dry | Non-Recyclable Waste**
- *Scientific Landfill*
- *Approved Incineration*
What To Do With Wet Waste?

Composting Bin

Khamba Composter

Enclosed Composting

Container or Drum Composting
1. AWARENESS RAISING (IEC): includes awareness resource materials for like leaflets, signboards, posters, books, props, etc.

2. MANPOWER: includes wages for managers, trainers, awareness staff, administration, waste handlers, drivers, etc.

3. EQUIPMENT: includes costs of gloves, bags, bins, labels, litter-pickers, record-keeping stationery, uniforms, shoes, composting materials, etc.

4. TRANSPORT: includes cost of travel & conveyance for workers to/from work locations, transport of waste to stores, to scrap dealers, or to the dumping ground, etc.

5. STORAGE: includes costs of store rooms, space for segregation, composting, office space, etc.
How Long Does It Take To Decompose?

- Banana Peel: 3 weeks
- Apple Core: 2 months
- Aluminium Cans: 80-200 years
- Tetra Pak: 500 years
- Glass Bottles: 1000+ years
- Newspaper: 1-2 months
- Cigarette Butts: 1-5 years
- Plastic Bottles: 450 years
- Baby Diapers: 500 years
- Thermocol: Never
The Best Time To Start Is Now!

Waste Management
Yesterday......

Waste Management Today......

Dry Recyclable Waste
Dry Non-Recyclable Waste
Food Waste

The Best Time To Start Is Now!