Sustainable Solid Waste Management

WITH

Waste Warriors is registered under the Societies Registration Act 1860 (India) - Number 62/2018-2019
Who we Are

- **Dharamsala, Himachal Pradesh since 2009**
- **Dehradun, Uttarakhand since 2012**
- **in the Corbett Landscape, Uttarakhand since 2013**
Why Corbett?
It needs the attention!
What we do

Provide sustainable Solid Waste Management solutions

Direct action
Liaison
Education
Awareness raising
Waste Warriors Corbett Project

Seeks to introduce a system of Solid Waste Management in an area covering over 150 villages across 100 kms, around the periphery of Corbett Tiger Reserve, where no system exists. So far the Project has spread to 48 rural locations in Panchayat & forest areas around the Corbett Landscape.
Awareness Raising

Awareness Raising & Education
Presentation on types of waste
Community Clean-ups
Event Waste Management
Training session at a hotel
Awareness Raising with Community Members
Fund Raising Outreach
Signboards, Banners and Public Dustbins
Sustainable SWM Solutions

We have reached to 48 locations, including:
- 37 Villages
- 73 Schools
- 6 Forest Rest House complexes,
- 2 PWD bungalows,
- A Forest office compound,
- An Eco Tourism Centre,
- Entry gates of the Corbett Tiger Reserve, and
- An Ayurvedic medicine factory area.
Until March 2017, the team collected, processed, transported, stored & disposed approx. 10,000 kg of waste per month from over 2900 members, including homes, shops & schools.

The work we do, helps not only the community around Corbett Tiger Reserve but also the 5,000,000 tourists who visit the park annually.

Needless to say, the scores of silent inhabitants of Corbett Tiger Reserve, will be forever grateful.
Improving Living Standards

- Reduced man-animal conflict
- School Waste Collection
- Distribution of dustbins to schools
- Distribution of Water Filters to Schools
Increasing Livelihood Options

Employment for locals

Livelihood for local women

Training local community members in upcycling waste

Upcycled items
Know About Waste

- What is waste
- How much do we waste
- What happens to it
- Impacts of poor waste management
India generates 1,33,760 tonnes per day of Municipal Solid Waste.

68% of this gets collected

Of which

ONLY

28% is treated

Management of municipal solid waste in Delhi. CPCB (Central Pollution Control Board), 2000.
JOURNEY OF WASTE IN INDIA

1. Household dustbin of mixed waste
2. Collection of mixed waste
3. Segregation of recyclables from mixed waste
4. Dumping of remaining waste in a dumping ground
Effects of Poor Waste Management

Health Hazards

Environment Pollution

Space Constraints
What you can do

3 STEPS TOWARDS SUSTAINABLE SOLID WASTE MANAGEMENT

1. Do not Litter. Always use a dustbin
2. Do not burn or dump garbage. Manage it responsibly
3. Sort & dispose waste into the correct dustbin
Waste Hierarchy

- Avoid
- Reduce
- Reuse
- Recycle
- Recover
- Treat
- Dispose

Most Preferred

Least Preferred
Segregation Of Waste To Maximize Recycling

- **Wet | Food Waste**: Organic, Horticulture & Food Waste
- **Dry | Recyclable Waste**: Reusable & Saleable Waste
- **Dry | Non-Recyclable Waste**: Sanitary & Reject Waste
Food and Horticulture Waste

- Fresh grass clippings and garden trimmings
- Leftover food (cooked & uncooked)
  Vegetable and fruit peels
- Manure (chicken, horse, rabbit, or cow)
- Fish & meat bones
- Egg shells
- Coffee grounds, filters, and tea bags
- Dry grass and leaves
- Dry twigs, branches, straw and sawdust
- Hair clumps and nails
- Food stained paper
- Floor sweepings and dust
Dry Recyclable Waste

Electronics Waste
- Fused bulbs, tube lights, batteries
- Broken electronics

Other Recyclables
- Old/torn clothes
- Aluminum, tin & metals
- Newspaper
- Plastic bottles & containers
- Paper & cardboard
- Chips, chocolate, biscuits wrappers
- Glass bottles
- Tetra PAK
- Plastic bags & milk packets
- Rubber
- Cigarette butts
- Broken glass
- Fused bulbs, tube lights, batteries
- Batteries
Dry Non-recyclable Waste

SANITARY WASTE

USED TISSUES

SOILED CLOTH/POLYTHENE

Medical Waste
What To Do With Wet Waste

Composting Bin

Enclosed Composting

Khamba Composter

Put in waste

Cover with remix daily

Container or Drum Composting
What To Do With Dry Waste

* Reuse at Home
* Sell to Recycle
* Donate to Upcycle

* Scientific Landfill
* Approved Incineration
Tips

**REDUCE**
- Say no to plastic
- Reusable water bottle
- Rechargeable batteries

**REUSE**
- Reused glass jars
- Decorative upcycled bowl
- Repurposed tire

**RECYCLE**
- Recycle symbol
- Pile of recyclable materials
MAIN EXPENSE HEADS FOR SOLID WASTE MANAGEMENT

1. MANPOWER
Includes wages for managers, trainers, awareness staff, administration, waste handlers and drivers

2. EQUIPMENT
Includes cost of gloves, bags, bins, labels, litter-pickers, record keeping stationery, uniform and shoes, composting material, awareness (IEC) material, etc.

3. TRANSPORT
Includes cost of conveyance & travel for workers to & from work location, transport of waste to store, to scrap dealer or to the dumping ground

4. SPACE
Includes cost of store room, space for segregation, composting, office space, etc.
How Long Does Trash Last?

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

Waste Management
Yesterday......

Waste Management
Today......
Waste Warriors Corbett Project

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