ROTARY INDIA ENVIRONMENT MISSION

SOLID WASTE MANAGEMENT

R/IND/RIEM1

S – *Solid Waste Management*

T – Tree Plantation

A – Awareness

R – Renewable Energy

SOLID WASTE MANAGEMENT

Wet Waste & Dry Waste

INTRODUCTION :

- The urban population of total 44 cr people living in India generate 62 million tonnes of waste every day.

- Of the total, only 70% is collected, the remaining 30% again goes in the environment.

- The solid waste is the biggest polluter of the environment.

- The solid waste management consists of collection, segregation, reuse/recycle, transportation, processing and disposal in landfill sites in a scientific manner.

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WASTE – FACTS:

1. **Biodegradable** **51%** : Kitchen waste, green waste and paper waste : **compost**

2. **Recyclable** **17.5%** : Polyethylene : road construction and fuels
   : Tin, glass, bottles cans, plastics : **Recycled products**

3. **Inert materials** **31%** : Dirt debris and Construction & Demolition : **Building materials**

   a. Composite waste : Clothing, tetra packs, plastics, toys etc; Recycled products or burning in thermal plants and residual derived fuel.

   b. Remaining soil and sand for roads and other construction works.

   c. Medical and hazardous waste : e waste, chemicals, paints, pesticides, batteries etc : special scientific treatment for recycling and disposal Is required.

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SOLID WASTE MANAGEMENT
WHAT CLUBS CAN DO

- Segregation of Waste at Source

- Use Organic Waste to make Compost

- Say No to Plastic

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SEGREGATION OF WASTE :

- The segregation of waste at source is the basic need for proper waste management.

- Clubs can help households in urban & rural areas to segregate & manage waste locally.

- Rotary clubs should create awareness about ill effects of solid waste and how to manage it.

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DUSTBIN DISTRIBUTION

Dustbin
Distribution
For segregation

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CREATE COMPOST:

- Household Compost

- Community Composting

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COMPOST CREATION AT HOME

COMMUNITY COMPOSTING

Composting Site

Composting Pits

Inaugration

Composting Tumblers

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COMMUNITY COMPOSTING

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COMMUNITY COMPOSTING

SAY NO TO PLASTIC

WHY ARE PLASTICS BAGS A PROBLEM?

- Harmful to the environment

- Takes 1000 years to decompose

- Kills Animals & sea life

- Reduces Rain Water percolation

- Drop in Water Table

- The list is endless

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THE VARIOUS OTHER ALTERNATIVES

- Use biodegradable items;

- Carry a cloth/jute bag Personal Water Bottle

- Recycle / Reuse Plastic

- Encourage alternate material products, ex. Glass Bottles, Metal Containers

PLASTIC PET BOTTLE MENACE

- Pet Bottle crushing machine can be installed in Railway and other prominent public places, the bottle crushed is used for recycling and has commercial value to it.

GOALS BY 2025

- 3,500 Villages to have Waste Management & Composting by 2025

- 5,000 Community Composting in Urban Parks

- 7,000 Plastic Bottle Crushing / Shredding Machines Pan India

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COST

- Waste Management and composting in 1 village – Rs. 10 to 15 lakh

- Bottle crushing/Shredding machine – 1.25 to 1.5 lakh per machine

- Community Composting in urban parks – 2.5 lakh each park (depending on size and capacity of the park)

S – Solid Waste Management

T – *Tree Plantation*

A – Awareness

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GOAL

- Mission – Plant More Trees

- India Goal 30 Crore Trees in 6 years

- India Goal 20-21 = 5 Crore Trees

- Your District Goal = 15 Lakh Trees per year

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WHERE TO PLANT

- Identify location for Mass planting

- Land areas in Schools, Colleges, Hospitals, Factories and free urban areas

- Traffic Islands, River Banks, Road sides, City Parks, Home gardens & Govt. land

- Cost Rs.100/- per Tree for 3 years(use MGNREGA)

WHAT & HOW TO PLANT

- Identify type of Trees to be planted

    i.   Shade Trees,

    ii.   Fast Growing Trees,

    iii. Medicinal Trees,

    iv.   Fruit Bearing Trees etc.

- Use Saplings of 3' and above in height

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WHAT & HOW TO PLANT

- Tree Saplings available with Govt. Department – Forest, Agriculture etc. – 1 year advance order to be placed

- Ensure maintenance & sustainability - Ex. Each School child to adopt 5/10 trees

- Latest technology may be adopted Miyawaki Method

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MINI FOREST WITH MIYAWAKI METHOD

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PROMOTE TREE PLANTATION

- Distribute at Weddings, Social Functions & Festivals

- Distribute through Religious Places

- Instead of Bouquets at Functions / Meetings give Plants

- Inculcate importance of Trees in Schools/Colleges

- Arrange field trips for Students

- Involve & utilize Rotaractors & Interactors

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Before

After

Forest created in an apartment complex in Bangalore.

Before

After

Banglore Airport. Barren to Forest in 4 months

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If you want to hear the
Sound of the bird, don't buy a cage.
PLANT A TREE

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'TREES PERMIT HUMAN BEINGS TO EXIST –   THEY ARE MIRACLES OF SCIENCE, AND OF ART'

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YOUR GOAL – 15 LAKH TREES

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AWARENESS

"IF YOU WANT TO CHANGE **ATTITUDE** START WITH CREATING **AWARENESS**"

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S – Solid Waste Management

T – Tree Plantation

A – *Awareness*

R – Renewable Energy

Awareness – Youth

- Involve Schools

- Colleges

- Local Citizen Bodies

- Interact

- Rotaract

- Religious Institutions

Awareness - Youth - I

- E-Learning / Animation

- Illustrated Comic Books

- Messages on School Groups.

- Essay / Painting / Elocution / Debates / Quiz Contests, Etc

- Setting up Nature Clubs

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Awareness – Youth –II

- Use of Street Plays / Flash Mobs /Theme Songs / Dance / Videos, etc.

- Nature Camps

- Thematic RYLAs on Environment Topic

- Earth Day, Environment Day etc. - India Wide Event

Awareness - Adults

- Campaigns / Seminars

- Social Media

- Media - Press / Television / Hoardings

- Car Stickers / Flyers

- Messages on City Entrances etc.

- Use Adult Literacy Primers

- Paper Less Rotary Communication

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Yearly District Goals

- 500 Schools – Comprehensive Awareness Campaign

- 10000 Car Stickers

- 10 Environment RYLAs

- 50 Nature Camps

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RENEWABLE ENERGY

S – **Solid Waste Management**

T – **Tree Plantation**

A – **Awareness**

R – *Renewable Energy*

WHAT IS RENEWABLE ENERGY?

Renewable Energy is Energy Generated from Natural Resources such as Sunlight, Wind, Tides, etc

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OUR FOCUS – SOLAR ENERGY

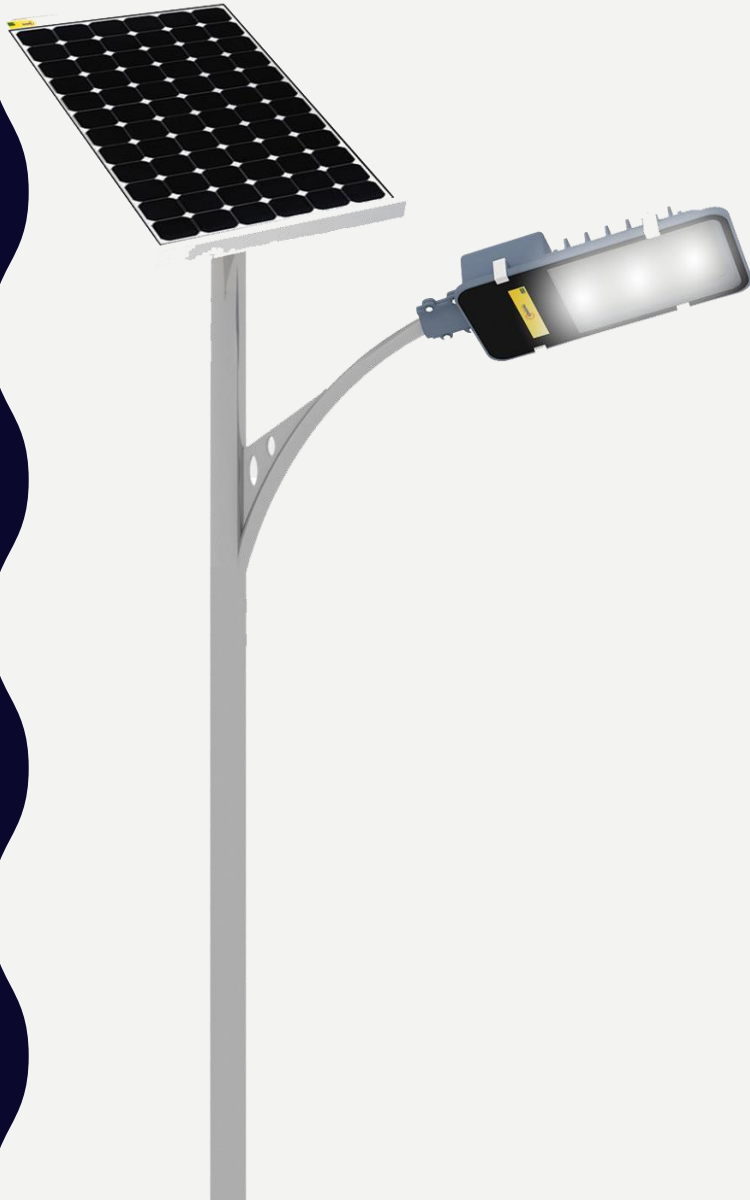# WHY SOLAR ENERGY

- Abundance of Sunshine availability

- Reduces Carbon Emission

- Relatively Economical

- Non-Hazardous

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WHERE SOLAR ENERGY

- Light up village household without electricity

- Light up Slums

- Rural Schools

COST - SOLAR ENERGY

- Promote Solar Energy in the remote areas

- Cost for a Portable Solar Lantern with built-in Charging Point – Rs. 1,000

- Avail Government Subsidies

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WHAT CLUBS CAN DO

- Identify the areas where Solar Panels are required and act accordingly

- Identify States which are supporting Solar Energy and those who are not and act accordingly

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