



पर्यावरण  
संरक्षण

Harit Campus



# Need for Harit Campus (needs to be simple)

Educational Institutions play a significant role in forming the path to a sustainable future. They are training present & tomorrow's leaders.

The Harit Campus Program provides -

- A means to promote **environmental awareness in next generation.**
- Links to everyday activities and study, and ties in with the operational requirements of a complex multi-use facility.
- Harit Campus is holistic aiming to make environmental awareness and action an essential part of the life and ethos of educational facilities.



# Objectives of making a Harit Campus

There are three main objectives of making an Harit Campus-

- To aware students about Environment & build an **ATTITUDE** for understanding it.
- To produce **EMPATHY** among students for environment conservation.
- To promote & develop an Eco-friendly **LIFESTYLE** among students.

दृष्टिकोण - संवेदनशीलता- आचरण  
(Attitude - Empathy - LIFE STYLE)



# Harit Campus - 54321 E- Formula

To make any existing camps a Harit Campus, 54321 Formula is given.

**5 - Environmental Conservation Methods**

**4 - Environmental Awareness Programmes & Social Responsibilities**

**3 - Environmental Research Initiatives / Innovations Cell**

**2 - Environmental Administration System of Campus**

**1 - Environmental Status Report (ESR) of Campus**



## 5 - Environmental Conservation Methods

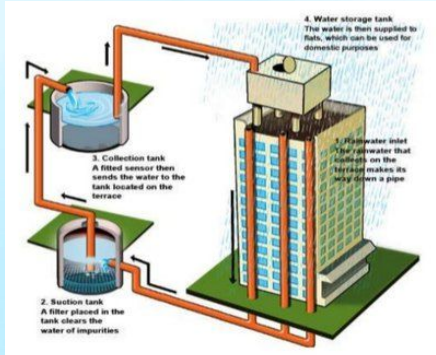
The first step in converting any existing campus into Harit campus is to implement 5 Conservation methods in their campus.

These methods are-

- Water Conservation
- Land Conservation
- Forests / Trees Conservation
- Energy Conservation
- Biodiversity Conservation

Each method in detail is given in the further slides-

# 5.1 Water Conservation in Campus-



## Rainwater Harvesting



## Sewage Treatment Plant

A terrace of 1000 sq. ft. area can give about 1,00,000 litres of drinking water. This can be achieved by installing a **Rooftop Rainwater Harvesting System**. The water that is collected from this system can then be utilized in the campus premises for various purposes.

The sewage (Wastewater) coming from Toilets, Hostel premises, Hostel kitchens can be fully **Recycled and Reused** for purposes like gardening, cleaning, etc. A very recent technology of using Plants for recycling sewage is also very efficient.



Water Aerators save **60%** of tap Water. It is very affordable and can be attached to any taps.

## 5.2 Land Conservation in Campus-



### Waste Segregation

The first step in Waste Management is the segregation of Waste into three types (According to SWM Rules, 2016). Three types are- Wet Waste, Dry Waste, Domestic Hazardous Waste.



### Eco Bricks

Dry Waste includes 50% of Polythene waste or Single-use plastics using them Eco-bricks can be made. An ecobrick is a plastic bottle packed solid with clean and dry polythene waste. **1 litre plastic bottle can contain 350 gms of polythene waste and can save 100 sq. ft. of land from getting polluted.**



### Composting

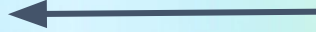
Wet Waste from Hostel Mess/College Canteen can be converted into Compost.

**100 kgs of wet waste can give 30 to 40 kgs of nutrient-rich compost.** This compost can be used in Gardening and for the maintenance of Campus Trees.

## 5.3 Forests/Trees Conservation in Campus-



**Dense Forest**



**Medicinal Herbs  
Garden**



**Seed Bank**



## 5.4 Energy Conservation in Campus-



### Use of LED Lights in Campus

LEDs normally use less power for a given application compared to traditional halogen and fluorescent sources. As such, the overall kW/hr consumption per year is less, this helps reduce the overall CO<sub>2</sub> emissions.



### Use of Renewable Energy Sources

Renewable energy sources are eco-friendly, self-replenishing, and non-polluting sources of energy. Solar energy is the best alternative among them all. A typical solar panel produces 300 watts of energy in one hour

## 5.5 Biodiversity Conservation in Campus-



**Water pots for Birds/Animals**



**Bird feeders on the Trees**

**Every 20 minutes a species is becoming extinct** in the world, the next maybe from India. To save these species we can take the above steps to conserve our regional biodiversity.

# 4 - Environmental Awareness & Social Responsibilities



Awareness programmes to be carried out by campus are-

**4.1 Tree Plantation** (July Onwards)

**4.2 “One Week For Nation”** (15 Aug. to 22 Aug.)

**4.3 “Environment Youth Fourm”** (12 Jan Vivekanad Jayanti to 23 Jan Subhas Jayanti/ Paryavaran Saptah/ One Week for Env)

**4.4 Adoption** of nearby Lakes/Water bodies / Park / Village & its restoration, rejuvenation,

cl **Objective-** These programs will help in building a sense of Responsibility of students towards Environment as well as Society



### 3 - Environmental Research Initiatives/ Innovations Cell

Research/ Innovative Models to be designed for Local problems related to three focus areas-

- Water Conservation
- Land Conservation (Waste Management)
- Energy Conservation

#### Objective-

- To nurture a research culture in college and develop models & techniques which can be directly applicable in solving **local environment problems**.
- To motivate students to begin **Start-ups** in this sector.

## 2 - Environmental Administration System of Campus



### 2.1 Environmental Nodal Officer (ENO)

- Every university/school/college will appoint an ENO.
- Effective Implementation of Harit Campus will be looked after by an ENO.

### 2.2 Eco-Clubs

- ENO along with other faculty will form an **Eco-club of students.**

| Structure of Eco-Clubs                         |     |
|------------------------------------------------|-----|
| Type of Member                                 | No. |
| Pramukh, Sah Pramukh                           | 2   |
| Social Media Pramukh                           | 1   |
| Documentation Pramukh                          | 1   |
| Water Conservation (Pramukh, SahPramukh)       | 2   |
| Land Conservation (Pramukh, SahPramukh)        | 2   |
| Forest Conservation (Pramukh, SahPramukh)      | 2   |
| Biodiversity Conservation Pramukh, SahPramukh  | 2   |
| Energy Conservation (Pramukh, SahPramukh)      | 2   |
| Harit Campus, Harit Ghar (Pramukh, SahPramukh) | 2   |
| Total                                          | 16  |

# 1 - Environmental Status Report (ESR) of Campus



As a follow up, every campus should prepare Status Report. It should include-

- Water Management
- Waste Management
- Energy Management
- Biodiversity Status
- Social - Awareness and behavioural aspects for environment

ESR should be made annually according to the given format (on next slide).

## **Objective-**

- To evaluate the contribution made in Environment Conservation.
- To track the activities for the record.

# Format of ESR



Every ESR must include following points-

- **Water management** - Total water demand , Leakage/ spillage / Check up of wastage of water, Use of **Aerator**, Rainwater harvesting potential, groundwater recharge. Best practices of reduce, reuse and recycling of water.
- **Waste management** - Waste reduction strategies , waste diversion rate through reduce, reuse (How many **Ecobricks** made) and recycling practices for waste management.
- **Energy Management** - Total energy demand, energy saving practices by replacing tubelights/bulbs by **LED** and by using **Solar Energy**.

(cont.)

# Format of ESR



Every ESR must include following points-

- **Biodiversity status** - List of flora and fauna, biodiversity conservation practices- Dense Forest, Seed Bank, Medicinal Plants.
- **Social** - Efforts for environmental awareness, behavioural aspects (inventory analysis - Sustainable practices - Green purchasing), Use of Recycle Paper, Adaptation of nearby lake/ park/religious place/ village and making it eco-friendly.

| Harit Campus Evaluation Chart |                    |   |                   |   |                    |   |                     |   |                           |   |                       |
|-------------------------------|--------------------|---|-------------------|---|--------------------|---|---------------------|---|---------------------------|---|-----------------------|
|                               | Task 1             |   | Task 2            |   | Task 3             |   | Task 4              |   | Task 5                    |   | Points Obtained       |
| 5                             | Water Conservation | ✓ | Land Conservation | ✓ | Trees Conservation | ✓ | Energy Conservation | ✓ | Biodiversity Conservation | ✓ |                       |
| 4                             | Tree Plantation    | ✓ | 1 week for Nation | ✓ | Swachhta Abhiyan   | ✓ | Adoption of nearby  | ✓ |                           |   |                       |
| 3                             | Research in Water  | ✓ | Research in Waste | ✓ | Research in Energy | ✓ |                     |   |                           |   |                       |
| 2                             | ENO                | ✓ | Eco-Club          | ✓ |                    |   |                     |   |                           |   |                       |
| 1                             | ESR                | ✓ |                   |   |                    |   |                     |   |                           |   |                       |
| Total Points (15)             |                    | 5 |                   | 4 |                    | 3 |                     | 2 |                           | 1 | Total Points Obtained |



# Levels of Harit Campus based on Evaluation

|                                                                                  |                                                     |
|----------------------------------------------------------------------------------|-----------------------------------------------------|
| If a University/college/school completes<br><u>Any 5 tasks</u> in their campus-  | <u>Bronze level Harit Ghar (Bronze Certificate)</u> |
| If a University/college/school completes<br><u>Any 10 tasks</u> in their campus- | <u>Silver level Harit Ghar (Silver Certificate)</u> |
| If a University/college/school completes<br><u>Any 15 tasks</u> in their campus- | <u>Gold level Harit Ghar (Gold Certificate)</u>     |