



# WELHAM GIRLS' SCHOOL

## DEHRADUN



1957  
Welham Girls' School

**Address:** 19, Municipal Rd, Dalanwala  
Dehradun, Uttarakhand - 248001

SUSTAINABILITY PROJECTS 2024-25



# INDEX

PROJECT 1: GREEN YOUR SCHOOL -2024

PROJECT 2: ECOTADPOLE - ZERO WASTE  
CAMPUS INITIATIVE 2024



# PROJECT 1

# GREEN YOUR SCHOOL PROGRAM - 2024

# GREEN YOUR SCHOOL TEAM

MANINI  
YADAV

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Grade 11



NAVYA  
VERMA

---

Grade 11



ANJANEE  
SODHI

---

Grade 10



MRS. VANSHREE  
SCOTT

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Teacher Mentor





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# 10 SUSTAINABLE IDEAS:

## PROPOSED & IMPLEMENTED

Student Teams engage in Survey, Research, Planning, Budgeting & Executing

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# BUDGET PROPOSAL & TIMELINE

S.No.	Proposed Idea	Approximate Cost	Timeline
1	Renewable Energy Gym	Rs. 2.5 lakh	1 year
2	Sustainable Food	Rs. 20,000/-	5 months
3	Mosquito Repellant Plants	Rs. 2000/-	4 months
4	Upcycling Clothes	Rs. 8000/-	5 months
5	Pollinator Conservation Project	Rs. 1000/-	5 months
6	Aquaponics	Rs, 7000/-	2 months
7	Radiant Barrier	Rs.1 lakh/roof aprox	2 year
8	Leaf Shredder	Rs. 20,000/-	1 month
9	Books & Stationary Inventory	-	1 month
10	Sewage Treatment Plant	Rs. 4 lakh	3 years

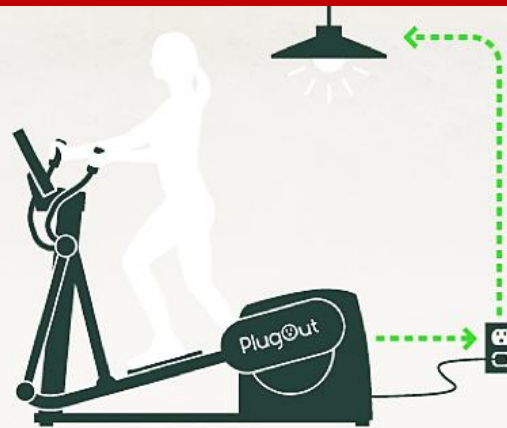
**Total Budget:** Rs. 8.08 lakh approximately

# SUSTAINABLE FITNESS- Renewable Energy Gym



*Make*  
electricity  
while you  
work out.

[Learn](#)



- 1 Plug into any standard wall outlet and work out like normal.
- 2 Electricity generated by your workout goes back to the grid.

- ❖ Sustainability
- ❖ Energy Efficiency
- ❖ Cost Savings
- ❖ Green Energy
- ❖ Reduced Carbon Footprint
- ❖ Community Engagement
- ❖ Renewable Energy
- ❖ Fitness Incentive

## How It Works!

Watts generated through exercise are converted to AC power and sent back through your facilities power grid to offset energy consumption



HUMAN ENERGY

GENERATOR

MICRO INVERTER

AC PLUG



## Powering UP

A single bike with a generator can produce about 220 kWh per year, while a full gym could be in the 4.400kWh range, enough power to run for a year:

- 22 energy efficient dishwashers
- 18 energy efficient fridges
- 150 light bulbs (20W CFL) for 4 hours per day
- 88 standard laptops for 7 hours per day



**Budget: 2.5Lakh/-**

Making energy while working out!

- ❖ 200 Watt electricity generation per set up
- ❖ Power generated while working out can light up bulbs, fans and music system
- ❖ Saves cost of electricity and produces green energy

## Non-Motorised Treadmill



- ❖ Each set up contains a Dynamo + Battery 7.2 AH, DC Power controller cum charger, DC to AC converter to connect fan and bulb 220 VAC

## Normal Bicycle



- ❖ Students were taught how to put together the components by experts

## Gym Bicycle





# Sustainable Food – Air Friers & Juice Dispensers



- ❖ Healthy Food
- ❖ Student run canteen – **Social Service**: Sharing with less privileged
- ❖ Tuck-money saving for 550 students per week
- ❖ Hygienic cooking environment
- ❖ No generation of plastic bottle waste
- ❖ Less load on landfills



**ZAIKA:** Cafeteria



**Budget:** 20,000/-

# AIR FRIERS & JUICE DISPENSERS

# PROJECT REPORT

## Student-run canteen



- ❖ Students don't have to rely on fast-food orders from outside which is not healthy. Instead, they use the air friers and cold drink dispensers



- ❖ **550 students stop ordering unhealthy tuck and cold drinks**
- ❖ Reduced burden on landfills
- ❖ No generation of plastic waste on campus

## Social Service



- ❖ Hygienic cooking environment without the need for deep frying

## Home Science Lab



# Environmental Health – Mosquito Repellant Plants

## **BENEFITS**

- ❖ **Safety from exposure to neurotoxins due to Mosquito fogging**
- ❖ **Protecting Beneficiary Insect pollinators**

**Budget: 2000/-**



**Rosemary**



**Lemon Balm**



**Marigold**



**Basil**



**Lemon Grass**



**Citronella Grass**



**Garlic**



**Catnip**



**Lavender**



**Mint**

# MOSQUITO REPELLENT PLANTS

# PROJECT REPORT

## Student-run Campaign

- ❖ **Safety from exposure to neurotoxins due to Mosquito fogging on campus**
- ❖ Reduced health risk due to insecticide poisoning
- ❖ Protection of beneficiary insect pollinators
- ❖ Reduction of biomagnification of carcinogenic toxins

## Awareness drive to stop usage of insecticides



## Using Recycled bottles for growing plants



- ❖ Students engage in planting of Mosquito Repellent Plants on campus e.g Basil, Thyme, Rosemary, Lemongrass, Citronella, Mint, Garlic

# UPCYCLING: Giving Clothes a Conscience



## RECYCLE - REPURPOSE - REINVENT Old Clothes

Joining Hands with **Project Purukul**

**DIRECTOR:** Ms. Amrit Burrett



- ❖ Keeps clothes out of Landfills
- ❖ Promotes **Circular Economy**
- ❖ Empowers local communities
- ❖ Handmade & Sustainable
- ❖ Promotes Aesthetics and Creativity
- ❖ Turn scraps into products: **Crazy Patch Technique**
- ❖ Empowers individuals and communities - Uplift underprivileged segments of society
- ❖ Providing opportunities for Skill Development and Entrepreneurship
- ❖ **Women Empowerment** - Independent and self-sufficient individuals
- ❖ Old clothes upcycled into **Memory Quilts** : Tangible connections to our past- Capture cherished moments and transform them into beautiful keepsakes. Treasure your old clothes when they have well passed their utility
- ❖ Sale of upcycled products for **fund raising** for a social cause

**Budget:** 8,000/-



# UPCYCLING

# PROJECT REPORT

**Giving clothes a conscience**

**Reduce burden on landfills**

**Entrepreneurship**

- ❖ Students present Upcycled articles during the Founders' Day Exhibition



❖ **Students Recycle, Repurpose and Reinvent Old Clothes**

- ❖ Old clothes donation drive was carried out on 2<sup>nd</sup> October by students
- ❖ Old clothes were used to make book covers, tote bags, wash bags, ear-rings, hair-bands, pencil pouches, dream-catchers etc
- ❖ DIY Best out of waste competition was held in school

**Upcycling workshop for students**



**DIY - Trash to Treasure**





# BEE-FRIEND YOUR GARDEN: POLLINATOR CONSERVATION PROJECT



## PHASE 1 Campus Survey

- ❖ A campus survey of the species of butterflies and bees that usually visit the plants in the campus.
- ❖ The species to be identified using a field guide – Butterflies of India by Anil Joshi, or alternatively by installing apps like citizen science or ibutterflies on the teachers' phone.

## PHASE 2 Documentation of the identified species

Once the species are identified, the students will create a chart/ checklist of all the identified species visiting the campus.

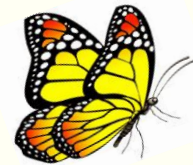


In Collaboration with **Maria's Public School, Guwahati**

**GUIDE:** Dr. Biswajit De



**Budget:**  
Rs. 1000/-



## PHASE 3 Making a BLUEPRINT DESIGN of the pollinator garden

- ❖ Depending upon the identified species, a blueprint of the design of the pollinator garden will be planned.
- ❖ A spot/ area in the school campus will be allocated which is undisturbed/ less crowded.
- ❖ Two small plots will be allotted for the pollinator garden
  - Patch 1:** For the nectar plants that provide for feeding of the pollinators
  - Patch 2:** For the host plants where the pollinators would lay their eggs.

## BENEFITS

- |                         |                                  |
|-------------------------|----------------------------------|
| ● Biodiversity support  | ● Carbon sequestration potential |
| ● Crop pollination      | ● Support for other wildlife     |
| ● Ecosystem health      | ● Climate resilience             |
| ● Food production       | ● Erosion control                |
| ● Habitat restoration   | ● Natural pest control           |
| ● Reduced pesticide use | ● Environment Awareness          |



# POLLINATION CONSERVATION PROJECT



- ❖ Phase 1 – Campus survey & Usage of Apps e.g, citizen science/ibutterflies to identify butterflies and bees
- ❖ Phase 2 – Documentation of identified species
- ❖ Phase 3 – Making a blueprint design of the pollinator garden
- ❖ Phase 4 – Two small plots were allotted for the pollinator garden - one patch for the nectar plants that provide for feeding of the pollinators and the other patch for the host plants where the pollinators would lay their eggs.



**Students preparing food material to attract pollinators**

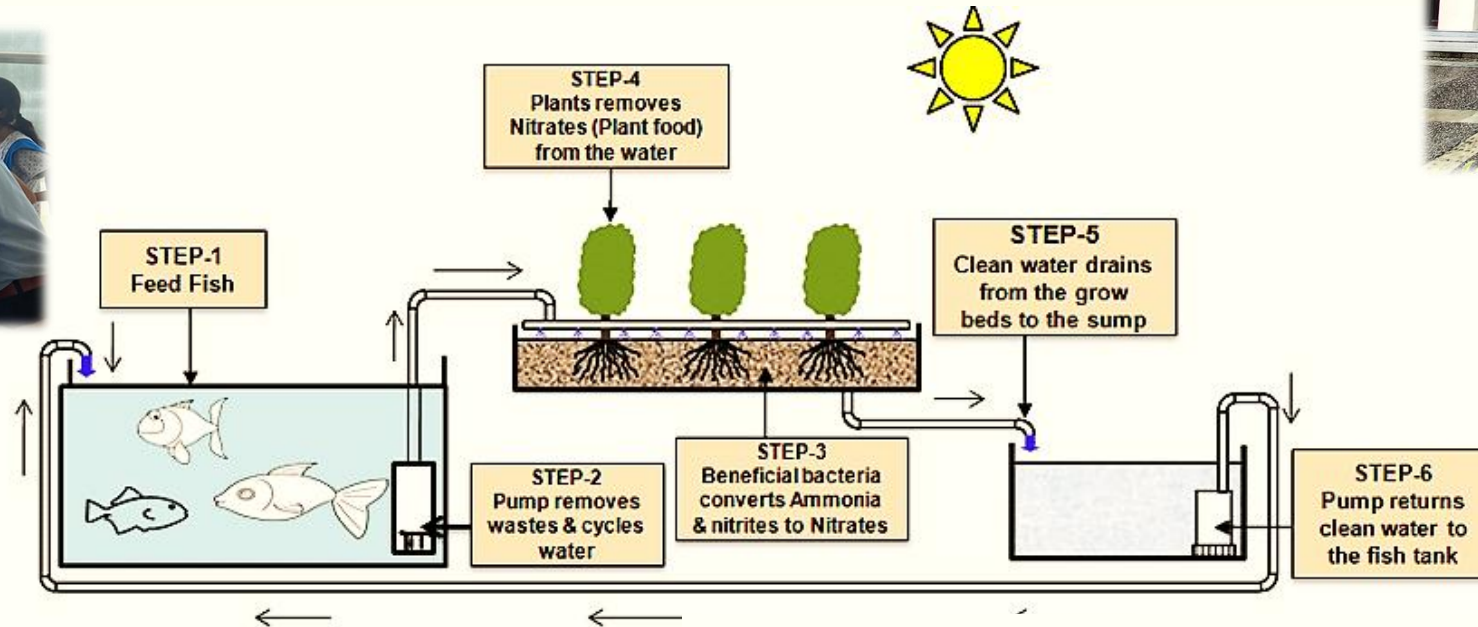
# PROJECT REPORT



# AQUAPONICS



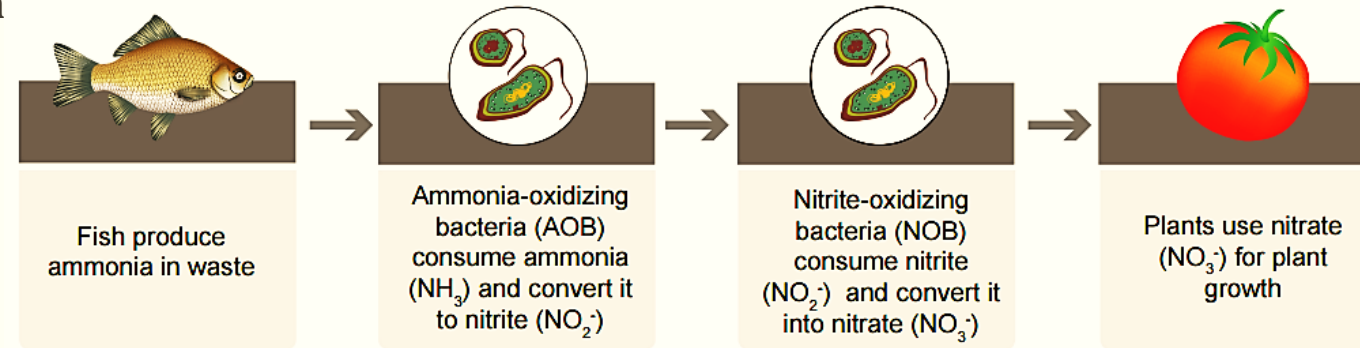
Welhamites at Work



Selected Site



- Food Security & Small Footprint with Soil-Free Growth
- Water Conservation
- Controlled Micro-Climate
- No usage of Chemical Pesticides
- Faster Crop Growth
- Efficient Land Use Management
- High Yields with round the year cultivation
- Less expenditure for the School Mess : Lettuce, Spinach, Tomatoes, Cucumbers, Peppers, Herbs, Radishes, Beans, Kale



**Budget: 7,000/-**

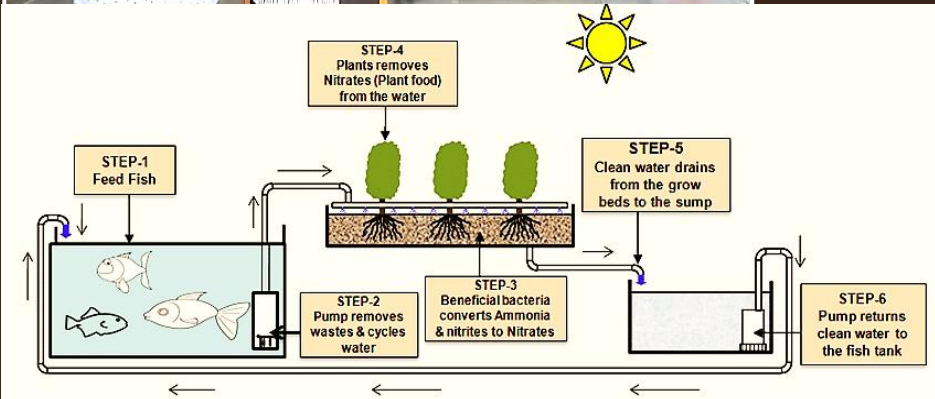
# AQUAPONICS

# PROJECT REPORT



Student explaining the working of the set-up

Students preparing the Hydroponic beds



- Food Security & Small Footprint with Soil-Free Growth
- Cultivating Lettuce, Spinach, Tomatoes, Cucumbers, Peppers, Herbs, Radishes, Beans, Kale
- Fish waste provide nitrate for plant growth avoiding using synthetic fertilizers

# VERMI-COMPOSTING & LEAF SHREDDER

## **BENEFITS of Vermi-Composting**

- Nutrient-Rich Compost
- Avoid usage of incinerator
- Environment Friendly method of handling leaf litter
- Improved Soil aeration, texture & tilth
- Enhanced Plant Growth
- Attracts beneficial soil-organisms
- Helps water absorption
- Odor Reduction

**Budget**  
Rs. 20,000/-

## **BENEFITS of a Leaf Shredder Machine**

- Reduced Landfill Waste
- Reduces daily bulk of leaf litter
- Quick production of mulch
- Low Maintenance
- Easy Handling
- Sustainable Campus



# VERMICOMPOSTING & LEAF SHREDDER MACHINE

# PROJECT REPORT

## Workshop

- ❖ Students learn the process of Vermicomposting from an expert
- ❖ Compost attracts beneficial soil organisms and & improves soil aeration, texture & tilth



- ❖ Students design a steel leaf shredder with expert help- 2HP / 3 Phase motor; Belt & Pulley with forward and reverse switch.
- ❖ Helps to reduce daily bulk of leaf litter generated on campus, avoiding use of incinerator.
- ❖ Quick production of mulch facilitated + Low maintenance
- ❖ Reduces landfill waste

## Nutrient-rich Vermicompost put in bags for sale



## Leaf-Shredder Machine



# Books & Stationary Inventory



## Reuse Textbooks – Repurpose Knowledge

- ❖ During the Final Term Examination, **Text Book & Stationary bins, booths & boxes** to be placed outside each classroom with respective subject labels.
- ❖ An Inventory will be created for books and stationary items by the student's in-charge.
- ❖ Textbooks handed down to be reused by the incoming students.
- ❖ Books to be handed down to the next class so that they are reused. Stationary items can be picked up from a room whenever students need them.
- ❖ If there is a change of text book, then those text books can be donated to another school with students from less privileged backgrounds.



## WASTE PAPER RECYCLING

Student volunteers will recycle the waste paper generated in the school office and classrooms. They will use the school **paper shredder** and create their own **deckle and mould** for the process. The recycled paper will then be used to make Welham Carry Bags, postcards and chart papers for projects.

## BEING A PAPER SMART SCHOOL!

### DID YOU KNOW?

- ❖ It takes one tree to make 25 books.
- ❖ It takes 24 trees to make one ton of paper, which is about 200,000 sheets.
- ❖ You may use a piece of paper one or two times, but it can be recycled 5 - 7 times. Recycling one ton of paper saves 17 trees. If it's recycled seven times, it saves 117 trees.



Students using recycled paper to make carry bags

### BENEFITS

- Reduce Paper Wastage
- Reduce load on landfills
- Save trees
- Conserve Resource
- Save Expenditure
- Increases Environment Responsibility
- Each ton of recycled paper will save 17 trees and 7,000 gallons of water.



# WASTE PAPER RECYCLING

# PROJECT REPORT

- ❖ Student volunteers recycle the waste - paper generated in the school office and classrooms.
- ❖ They use the school paper shredder and create their own deckle and mould for the process.
- ❖ The recycled paper is then used to make Welham Carry Bags, folders, gift wrapping sheets and chart papers for projects.
- ❖ Notebooks, old textbooks, and old stationary gifted to less privileged local schools.

## BECOMING A PAPER SMART SCHOOL!

### Students at the Workshop



### Student Volunteers

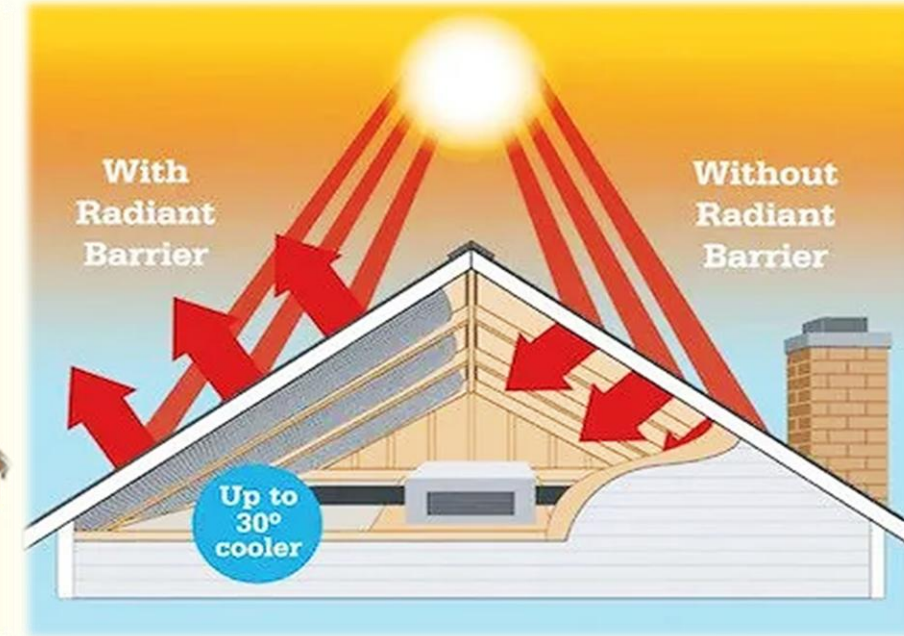
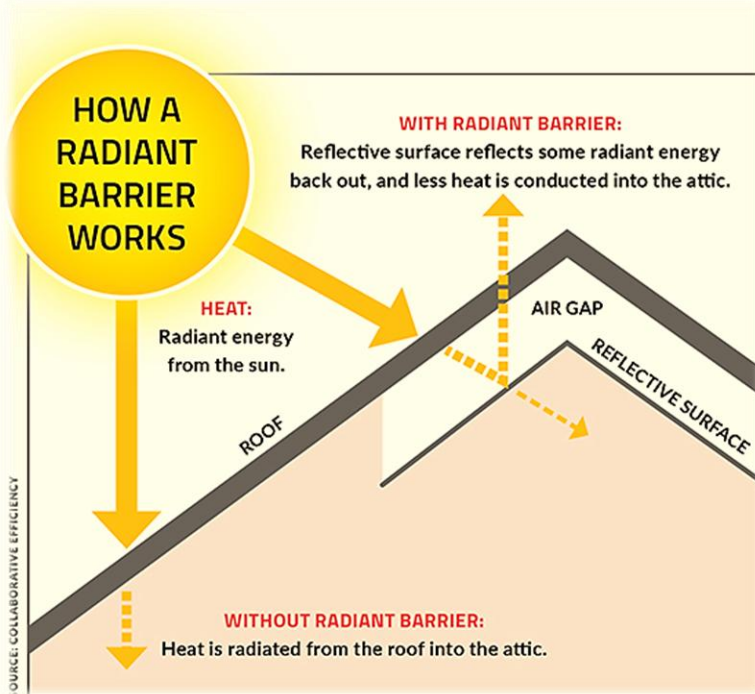


### Recycled Products



# ENERGY EFFICIENT BUILDING - Radiant Barriers

A radiant barrier is a reflective material that reduces heat transfer by reflecting radiant heat energy, often used in insulation applications. A true radiant barrier must have a rating of 0.9, which means it radiates back 90 percent of the heat it comes in contact with.

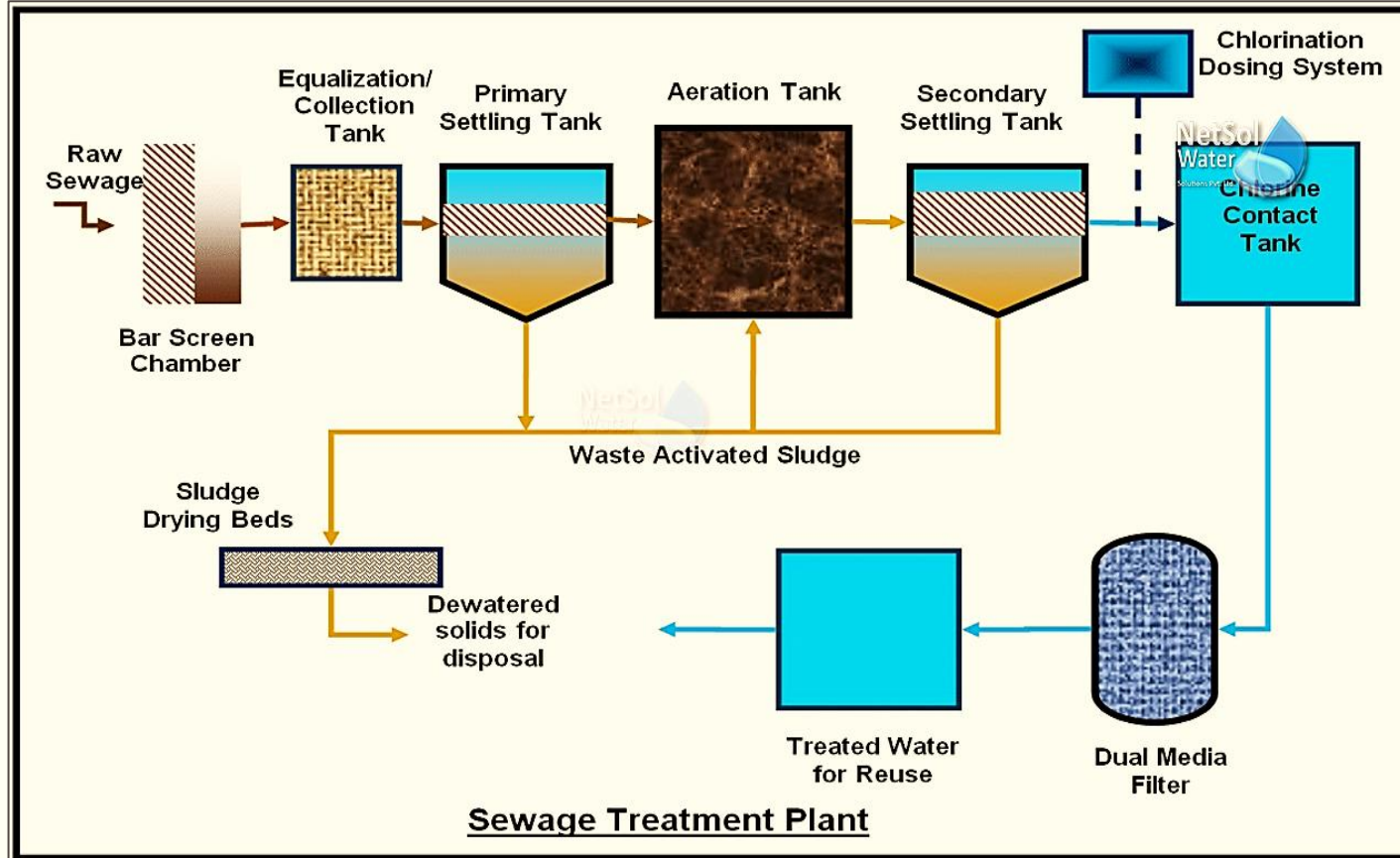


- ❖ Reduces summer heat gain
- ❖ Reduces cooling costs
- ❖ Increases efficiency of air conditioning systems
- ❖ Reduces heat loss during winters
- ❖ Reduce energy consumption and GHG emissions
- ❖ Decreases strain on electricity grids
- ❖ Reduces thermal stress on roof reducing its life span

energy  saver

**Budget:** Rs. 140 per square meter

# Sewage Treatment Plant



## BENEFITS

- ❖ Preserves natural environment against pollution
- ❖ Meets standards for emission of pollutants by the Government
- ❖ Simple and easy installation, low operation and maintenance of plant
- ❖ Reduces risk to public health and environment
- ❖ Saves money
- ❖ Helps keep gardens green
- ❖ Recycles water

**Budget:** 4 lakh approximately

# PROJECT IMPLEMENTATION 2024

1	Renewable Energy Gym
2	Air Friers
3	Mosquito Repellant Plants
4	Upcycling
5	AQUAPONICS
6	Leaf Shredder
7	Paper Recycling
8	Mosquito Repellant Plants





WINNERS

IGBC – GREEN YOUR SPACE GRANT

2024



# PROJECT 2

# ECOTADPOLE ZERO-WASTE CAMPUS CAMPAIGN 2024



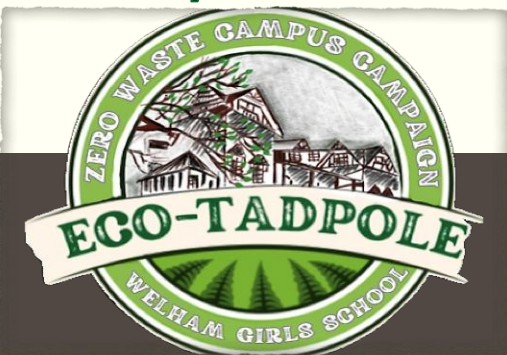
# VISION STATEMENT

To become a model of environmental stewardship, where every member of the Welham community actively contributes to a zero-waste, sustainable future. By integrating eco-friendly practices into daily life, we envision a campus that not only minimizes its environmental impact but also inspires global change towards sustainability and responsible resource management.



# MISSION STATEMENT

Eco Tadpole is dedicated to transforming Welham Girls' School into a zero-waste, eco-friendly, and sustainable campus. Through innovative waste management practices, environmental education, and sustainable living initiatives, we aim to create a green and mindful community. Our mission is to inspire responsible stewardship of resources, harness the entrepreneurial spirit, reduce our environmental footprint, and foster a culture of sustainability for future generations.



# SDGS IMPACTED



**1** NO  
POVERTY



**3** GOOD HEALTH  
AND WELL-BEING



**8** DECENT WORK AND  
ECONOMIC GROWTH



**11** SUSTAINABLE CITIES  
AND COMMUNITIES

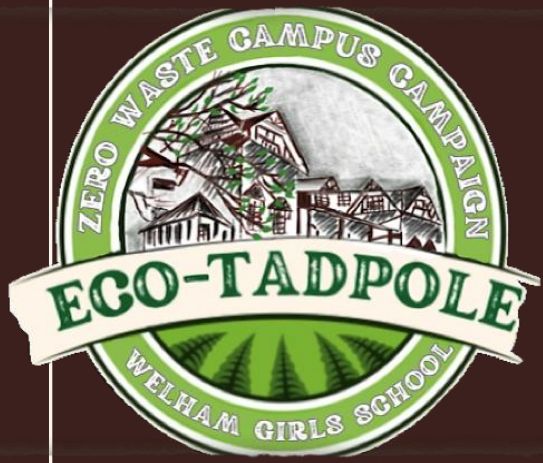


**12** RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



**13** CLIMATE  
ACTION





# ECOTADPOLE TEAM

NIRJA  
KARNANI

DEVANSHI  
AGARWAL

RIAANA  
CHOPRA

ESTHER  
THONGAM

ARSHIA  
ANEJA



Grade 11



Grade 11



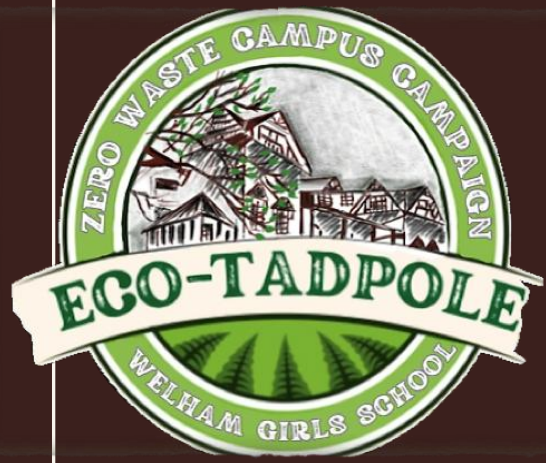
Grade 10



Grade 10



Grade 9



# INSPIRATION

## Plastics & Health Workshop



NATURE  
SCIENCE  
INITIATIVE



# AWARENESS DRIVE ACTIVITIES

## WASTE SCAVENGER HUNT



## CATEGORISING CAMPUS WASTE



## CAMPUS SURVEY



## SIGNIFICANCE OF SEGREGATION

### PART 1 : WASTE MATCHING EXERCISE: INSTRUCTIONS

- STEP 1:** Complete the waste matching exercise given in the worksheet below by matching the waste in column A with the waste categories given in column B.
- STEP 2:** Once you have finished the matching exercise think of one more waste item that fits in each category. For example pesticides are a type of hazardous waste while a cardboard box is a form of recyclable dry waste.

### WASTE MATCHING EXERCISE: WORKSHEET

COLUMN A (WASTE ITEMS)	COLUMN B (TYPE OF WASTE)
 Plastic Bags	Electronic Waste or E-Waste
 Broken Tiles	Dry / Recyclable Waste
 Used Mobile Chargers	Wet / Biodegradable Waste
 Used Tea Leaves	Biomedical Waste
 Cleaning Fluid (Phenyl)	Construction / Demolition Waste
 Used Bandage	Hazardous (Chemical) Waste

### THE CURRENT WASTE MANAGEMENT IN OUR SCHOOL IS IT EFFICIENT?

Our school's waste management is partially effective but has challenges. We struggle with consistent segregation of biodegradable, recyclable, and non-recyclable waste, particularly in areas like dormitories, the hospital, mess, and offices. Improving this would enhance recycling and waste reduction efforts.

### WHERE DOES WASTE ACTUALLY END UP FROM OUR SCHOOL BIN?

Waste collected from our school bins is sorted into various categories before being sent to appropriate disposal or recycling facilities. This ensures that recyclable materials are processed correctly, while non-recyclables are handled in a manner that minimizes environmental impact.

### WHY DO WE HAVE WASTE DUMPS IN CITIES?

Waste dumps are necessary for managing the large quantities of waste generated in urban areas. As cities grow, so does the amount of waste produced, necessitating designated sites for disposal to prevent overflow and environmental hazards in populated areas.

### WHERE ARE WASTE DUMPS USUALLY LOCATED?

Waste dumps are typically located on the peripheral parts of cities to minimize their impact on residential areas. However, their proximity can still affect neighboring communities through issues such as odor, pollution, and potential health risks.

### WHAT HAPPENS WHEN DUMPS OR LANDFILLS ARE FULL?

When existing dumps or landfills reach capacity, new sites must be constructed to replace them. This process can trigger pollution and overflowing waste from full landfills spreads into clean areas, and burning it releases harmful gases like methane, contributing to air pollution. Nearby residents face unpleasant odors, disease risks, and environmental harm.

### WHAT ISSUES DO CURRENT MUNICIPAL WASTE MANAGEMENT SYSTEMS FACE?

Present municipal waste management systems are burdened by several issues, including overcrowded landfills, low recycling rates, and a range of environmental problems that raise significant health concerns for local populations.

### IS OUR WASTE MANAGEMENT SYSTEM LINEAR OR CIRCULAR?

The existing waste management system is essentially linear, moving waste from production to disposal. This approach fails to optimize resource reutilization and misses opportunities for recycling and recovery, which are critical for sustainability.

### WHY IS WASTE MANAGED THIS WAY TODAY?

The current management of waste can largely be attributed to outdated habits, widespread ignorance about sustainable practices, and inadequate infrastructure. These factors contribute to a lack of innovation and adaptability in waste management strategies.

# BRAINSTORMING SESSIONS

**BECOMING A ZERO WASTE SCHOOL JUST SEGREGATING WASTE INTO DIFFERENT BINS WOULD SUFFICE? WHY OR WHY NOT?**

No, simply segregating waste isn't enough for a zero-waste school. In addition to proper segregation, it's crucial to reduce overall waste, compost organic materials, and ensure effective recycling. Alternatives include reusing items, upcycling, promoting the use of reusables, and educating students about sustainable practices to minimize waste generation.

**WHY MUST WE FOLLOW ALL THE 'R'S OF WASTE?**  
All the 'R's-Reduce, Reuse, Recycle, Repair and Recover wastes, conserve resources, reduce pollution, and sustain a healthy environment.

**REFLECT ON HOW YOUR SCHOOL CAN BE A ZERO WASTE SCHOOL.**  
Our school can take a Zero Waste approach by assuming comprehensive waste segregation, encouraging recycling initiatives, organizing composting programs, reducing single-use plastics, and adopting an ethos of reuse and repair.

**THE R'S OF WASTE FOR A ZERO WASTE SCHOOL**

**DO YOU RE-USE EVERYTHING YOU RECYCLE?**  
No, there are times materials are downcycled or not reused. Components are not efficiently used, hence, not repurposed.

**CONSIDERING THE VIDEO ON AN OFFICE THAT WILL TRY TO ACHIEVE ZERO WASTE. HOW MANY OF THE R'S WERE THE OFFICE BUSINESS ADHERING TO, AND WHAT NUMBER CAN YOU APPLY IN YOUR LIFE?**  
The office probably adopts many R's - the reduction of paper use, reuse of items, and recycling of waste. These are just some examples of everyday practices that i can enact in my own life, like using digital documents, carrying reusable bags, and recycling material.



**ARE "ECOFRIENDLY" OR "GREEN" PRODUCTS ALWAYS HEALTHIER FOR THE ENVIRONMENT? EXPLAIN WHY.**  
No. Green products are made to cause minimal harm to the environment. But that depends on many factors: how they are produced, their lifecycle, and how they end. Some may cause harm or use up resources in unsustainable manners.



# THEN vs NOW

**Interviews to understand changing festivals & traditions with time & their environmental impact**

## **FESTIVALS NOW :**

**A Conversation With The School Captain Vanshi Agarwal On Celebrations Then And Now**

**INTERVIEW LINK :** [Elective Activity 1 NOW.mp4](#)

## **FESTIVALS THEN :**

**Insights from the Head of the Science Department Mrs. Richa Joshi Pant on Traditions Then and Now**

**INTERVIEW LINK :** [Elective Activity 1 THEN.mp4](#)

# INTERVIEW SUMMARY





# BE THE CHANGE

*‘EcoTadpole inspires young leaders to embody sustainability—turning waste into resources & empowering them as champions of ecological stewardship. 550 Welhamites are not just learning environmental responsibility—they’re living it, forging a resilient, eco-conscious future.’*

wipro earthian

प्रतिष्ठापक



PARTNERSHIP & COLLABORATION  
INNOVATE – INITIATE - IMPLEMENT

# LAUNCH OF THE CAMPAIGN



School Pledge to ban plastic usage

# KHOOB SURAT

A film on Surat Waste Management Workers: The Unsung Heroes as catalysts of change

Movie Link:

[Welham Girls' School Khoobsurat Reel to Real.mov - Google Drive](#)

**Three students discovered a hidden story close to home: Surat's innovative waste management project. This city in Gujarat became the heart of their film as they embarked on a journey tracing the enormous and exemplary waste management system of the Surat Municipal Corporation which required perseverance, teamwork and creative filming.**

**The film "KhoobSURAT" tells the story of a sanitary worker in Surat, whose life was shattered by the plague. The film explores the hardships she faced while living in the midst of a city stricken by the plague. On the verge of giving up, she found the strength to continue, making small but impactful contributions along with many unsung heroes that helped transform Surat into the clean and vibrant city it is today.**

# ECOTADPOLE INITIATIVES

- 1. EcoEarth:** Nature's Recycling Hub – Where waste becomes wonder – A Vermicomposting initiative
- 2. Welmush:** Cultivation of Oyster Mushrooms in waste Coconut shells
- 3. Floresco:** Sustainable and Edible Skin Care Products like Body wash, Shampoos, Deodorants, Face Scrubs and Lip Balms
- 4. DIY:** Trash to Treasure Initiative – Using waste generated on campus to create articles of use
- 5. Mosquifree:** Growing of Mosquito Repellent plants like Lemon Grass, Rosemary, Basil, Thyme, Parsely, Marigold etc. in recycled plastic bottles.
- 6. EcoScribe:** Paper Recycling Initiative
- 7. Vastra Ajasra:** Upcycling initiative – Giving clothes a conscience. Recycle, Repurpose and Reinvent innovative items out of textile waste into functional and unique accessories.
- 8. Chirp:** A Birding Club where creativity meets conservation. Students craft Bird Nests from plywood waste inspiring sustainability and passion for nature.
- 9. Litre of Light:** Using plastic water bottle waste to create LED light bulbs for poor village communities.
- 10. Green Architecture:** Making small tables and stools from plastic waste

SCHOOL COMMUNITY PARTICIPATION;

CREATION OF BRANDS;

SALE OF PRODUCTS



# FLORESCO - GREEN COSMETICS

Sustainable and Edible Skin Care Products like Body wash, Sanitisers, Shampoos, Deodorants, Face Scrubs and Lip Balms from fruit peels, seeds etc.



**No Additives**

**Eco-friendly kitchen source**

**Promotes circular economy**

# PROJECT REPORT



# PROJECT REPORT

# Fluresco

## FOUNDERS' DAY SALE

**Fluresco PRICES**

Body Cleanser:	Rs 300/-
Body Scrub:	Rs 350/-
Lip Balm:	Rs 250/-
Sanitizer:	Rs 100/-
Solid Perfume:	Rs 100/-





# AN UPCYCLING INITIATIVE

**Giving clothes a conscience. Ethical Consumption**  
**Recycle, Repurpose** and **Reinvent** innovative items out of  
textile waste into functional and unique accessories.



**TEAM VASTRA AJASRA**

**Artisan skill building**

**Reduced burden on landfills**

**Promotes circular economy**





· VASTRA AJASRA ·



# AN UPCYCLING INITIATIVE





# ECOSCRIBE – PAPER RECYCLING INITIATIVE

## Reduce, Reuse, Recycle

- ❖ Recycling one ton of paper saves around 4,000 kWh of energy
- ❖ Recycling one ton of paper can save up to 17 trees, ~7,000 gallons of water, and significant amounts of oil



**TEAM ECOSCRIBE**



**Prevents Deforestation**

**Reduced burden on landfills**

**Supports circular economy**

# ECOSCRIBE – PAPER RECYCLING INITIATIVE



**RECYCLE - REUSE**





# DIY - A TRASH TO TREASURE INITIATIVE

**Using waste generated on campus to create articles of use**

- ❖ Ice-cream sticks, pinecones, glass bottles, paper cups, Nutella bottles, bajri, used papers and charts, parcel packaging, broken articles, bangles, CDs etc



**TEAM DIY**

**Waste Reduction**

**Conservation of natural resources**

**Preserves cultural heritage**





# DIY - A TRASH TO TREASURE INITIATIVE



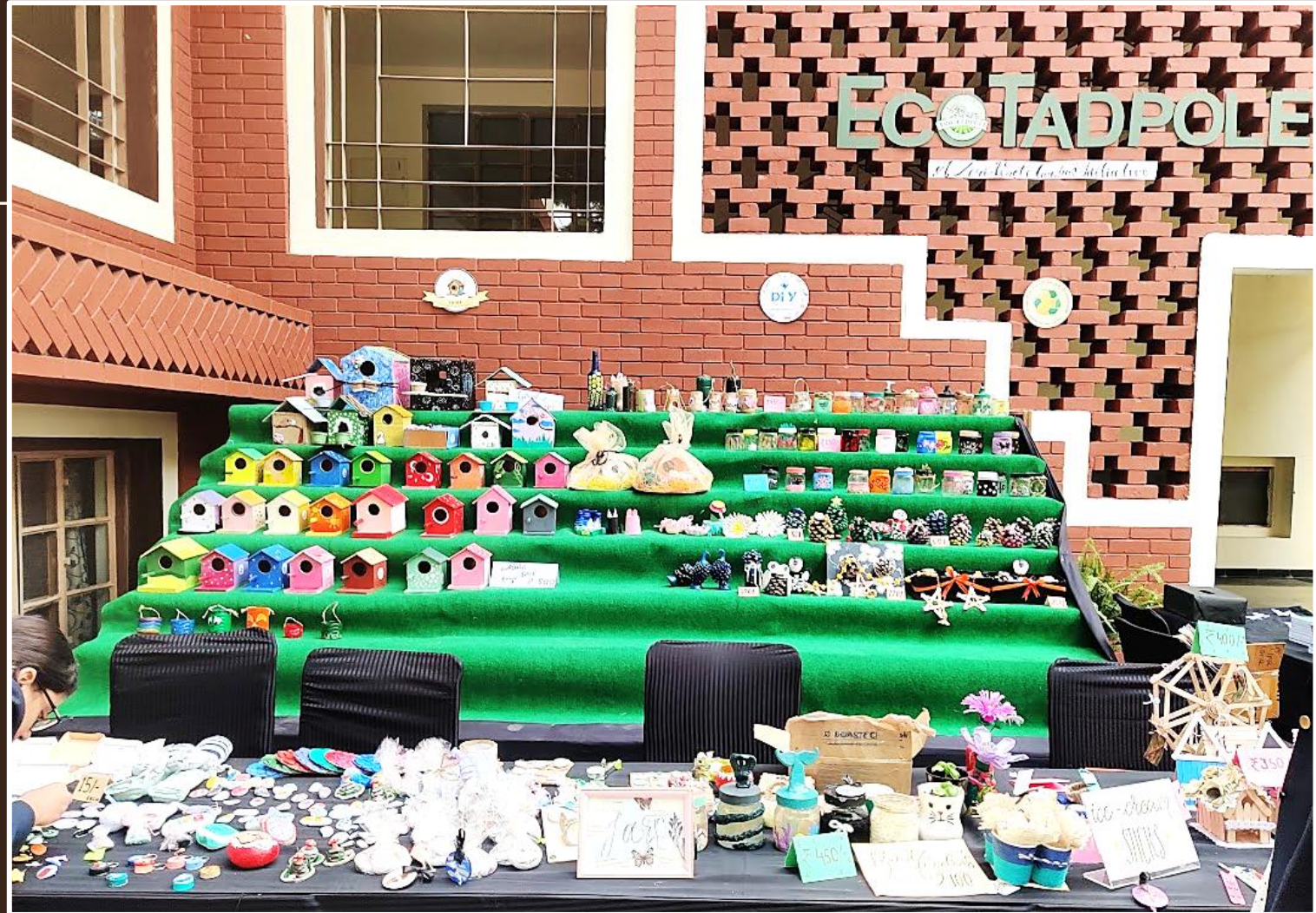


# DIY - A TRASH TO TREASURE INITIATIVE





# DIY - FOUNDERS' DAY SALE





# OYSTER MUSHROOM CULTIVATION

**Using coconut shell waste generated in the school kitchen**

Food Security; Local Sustainability; Community Engagement;  
Circular resource use



**TEAM WELMUSH**

**Waste Reduction**

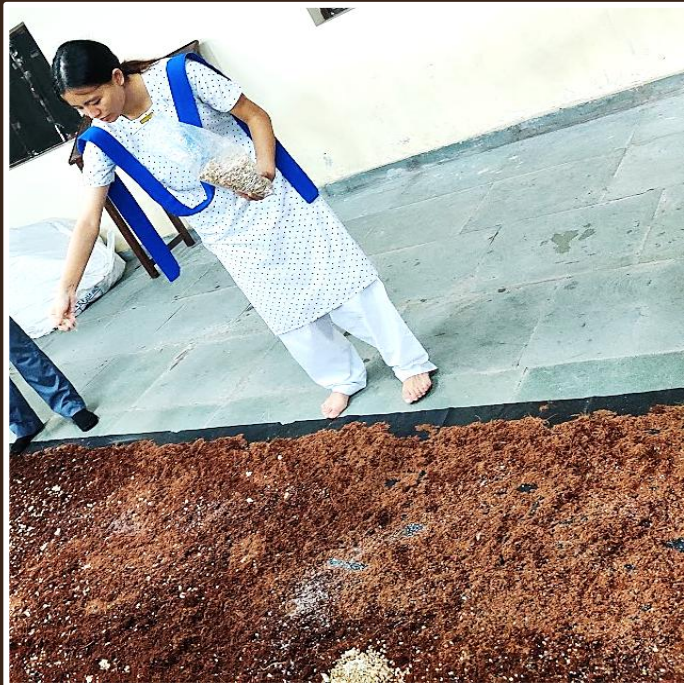
**Ecological Education & Innovation**



**Creating Compost bombs**



# OYSTER MUSHROOM CULTIVATION





# OYSTER MUSHROOM CULTIVATION

**Budding Mycologists become pioneers!**





**VERMICOMPOST**

# ECO-EARTH : VERMICOMPOST

**Nature's Recycling Hub Where Waste Becomes Wonder**

Using Earthworms found on campus to decompose kitchen wet waste & garden waste/dry leaves



**TEAM ECO-EARTH**



**Microbial Biodiversity**

**Supports Carbon Sequestration**

**Promotes Circular Resource Cycles**

# ECO-EARTH - VERMICOMPOST

## Founders' Day Sale



**VERMICOMPOST**





# CHIRP - A BIRDING CLUB

**Where Creativity Meets Conservation**

Students craft Bird Nests from **plywood waste** inspiring sustainability and passion for nature.

TEAM  
CHIRP



**Resource Conservation**

**Wildlife Habitat Restoration**

**Promotes Circular Resource Cycles**



# CHIRP - A BIRDING CLUB

**Where Creativity Meets Conservation**





# MOSQUIFREE

## Growing Mosquito Repellant Plants

Growing Lemon Grass, Rosemary, Basil, Thyme, Parsely, Marigold etc. in recycled plastic bottles.



**Human & Ecological health**

**Non-toxic pest control**

**Sustainable & cost effective**

# LITRE OF LIGHT

# PROJECT REPORT

- ❖ Transforming waste **Plastic Bottles** into solar-powered rechargeable LED bulbs
- ❖ Affordable, sustainable lighting solution for underprivileged societies



**Thakurpur Village**

# GREEN ARCHITECTURE

# PROJECT REPORT

- ❖ Creating **Sustainable Furniture** – coffee table/stools from eco-bricks made of plastic waste
- ❖ **Aesthetic and Functional Furniture**: durable and visually appealing
- ❖ **Environmental Impact**: This project prevented a significant amount of plastic from entering landfills and waterways
- ❖ **Learning Experience**: Waste management, recycling, and sustainable design principles.



EVS

WELHAM GIRLS SCHOOL

# ECO-TADPOLE EXHIBITION 2024



Join the eco-revolution at Founders on 27th October by our EcoTadpole stalls to see how we're turning the tide on waste and making sustainability exciting! Don't miss out!

Sunday

27th October 2024

9AM

Outside Art Block

EcoTadpole: A Zero Waste Campus Initiative



*'I would really like my team to visit Welham Girls' School and learn the art of **Repurposing and Reinventing** from these young students.'*

**Ms. Shloka Nath**

**CEO INDIA CLIMATE COLLABORATIVE**

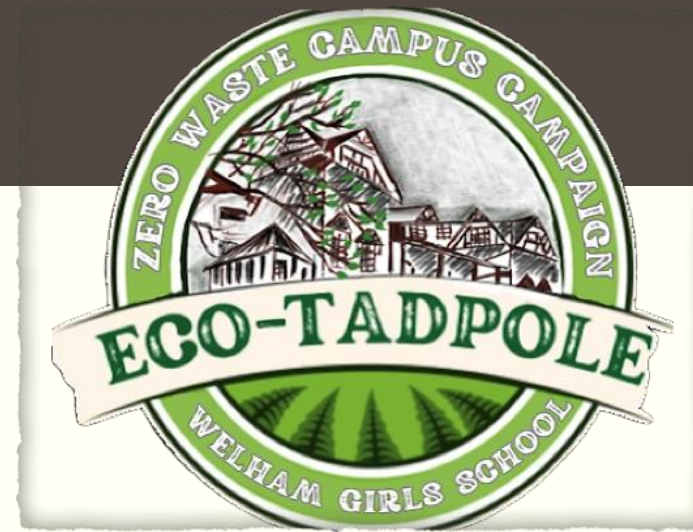
**Our Distinguished Chief Guest During Our 67th Founders Day**



# WINNERS

WIPRO  
EARTHIAN  
REGIONAL  
AWARD 2024





***“EcoTadpole empowers students and communities to be the architects of change, turning sustainable actions into a powerful movement for a better future”***

**MOVIE LINK :** [EcoTadpole Initiatives.mov](http://EcoTadpoleInitiatives.mov)



# EXISTING GREEN FEATURES IN SCHOOL

Ongoing Sustainable Programs



# GREEN Campus Initiatives

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Native Species Diversity



Underground Water Reservoir



LED Lights



Solar Panels

# GREEN Campus Initiatives

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Green Cover

Water taps with sensors

BAJRI – Soil Mulch

Frangipani  
Temple Tree  
Golechin; Champa  
(Plumeria rubra)

Tree Labels



Recharge – Trenches



Bore-well



Dual Flush System

# GREEN Campus Initiatives



Underground Reservoir  
4.41 lakh litres of rainwater storage



Watershed – Catchment Area

Total Rainwater  
storage capacity  
on campus:  
**6 lakh litres**



Bird House  
Bird Bath

Rich Biodiversity



# REACHING OUT - COMMUNITY SERVICE



**RAPHAEL**  
Learning Disability Centre



**LATIKA ROY FOUNDATION**  
For Children With Special Needs



**CHESHIRE HOME**  
Welfare of Physically Challenged

**PREM DHAM**  
Old People's Home

# HESCO - Himalayan Environmental Studies and Conservation Organization

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**Building a Water Retention Wall**



**Biogas Digester Plant**



**Building Public Toilets in Villages**



**Toiling Hard**

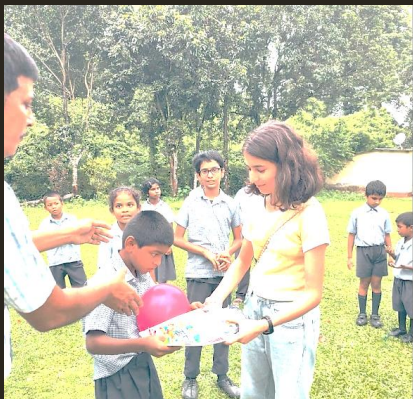


**Experiencing Humble Living**

# SOCIAL INITIATIVES



<https://instagram.com/project.unnati?igshid=MzRIODBiNWFIZA==>



Grade 9 & 10 students reach out to make society more equitable by helping those who have less, spend time with orphans, elderly, visit juvenile jails, schools for blind children and centers for kids with special needs. Volunteers organize book drives, donate blood and assist elderly people in nursing homes.



<https://www.reduceate.in/home>



Reduceate (Red + Educate) aims to provide a holistic approach to menstrual education, addresses various aspects of menstruation including the science behind menstruation, various products that are available and eco-friendly/sustainable ones, and the importance of menstrual health.



<https://jivishakalra09.wixsite.com/nayakadam>



The organization raises funds for people suffering in mental hospitals and provide community service for the women and the children in their hometown. The objective is to provide a better place for the unprivileged and spread awareness to address the major social problems and hardships faced by the unprivileged communities of the country.



A Youth Leader team devoted to spread awareness about generic medicines so that all segments of society can make informed decisions about medication choices in consultation with healthcare providers. The students are in the process of developing a website and an app which will help people to locate the nearest generic medicine store.

# YOUTH LEADER INITIATIVES

## ROOH

Becoming Responsible Global Citizens



A social service project which is collaboration between Welham Girls' School, Welham Boys' School, and The Doon School for dedicated community service, social activism, and charity. Two projects - Rimjhim and Sawan address critical social issues and make a positive impact in the community.

## REABLE

<https://www.reable.co.in/>



Disability Awareness Campaign which spreads awareness about different types of disabilities and how to address them, creating an inclusive society. Students learn sign language from Bajaj Institute of Learning for the deaf and teach the same to the entire school community.

## WISE₹

[https://www.instagram.com/wiser.org.in/p/DA6Ep\\_uObJn/](https://www.instagram.com/wiser.org.in/p/DA6Ep_uObJn/)

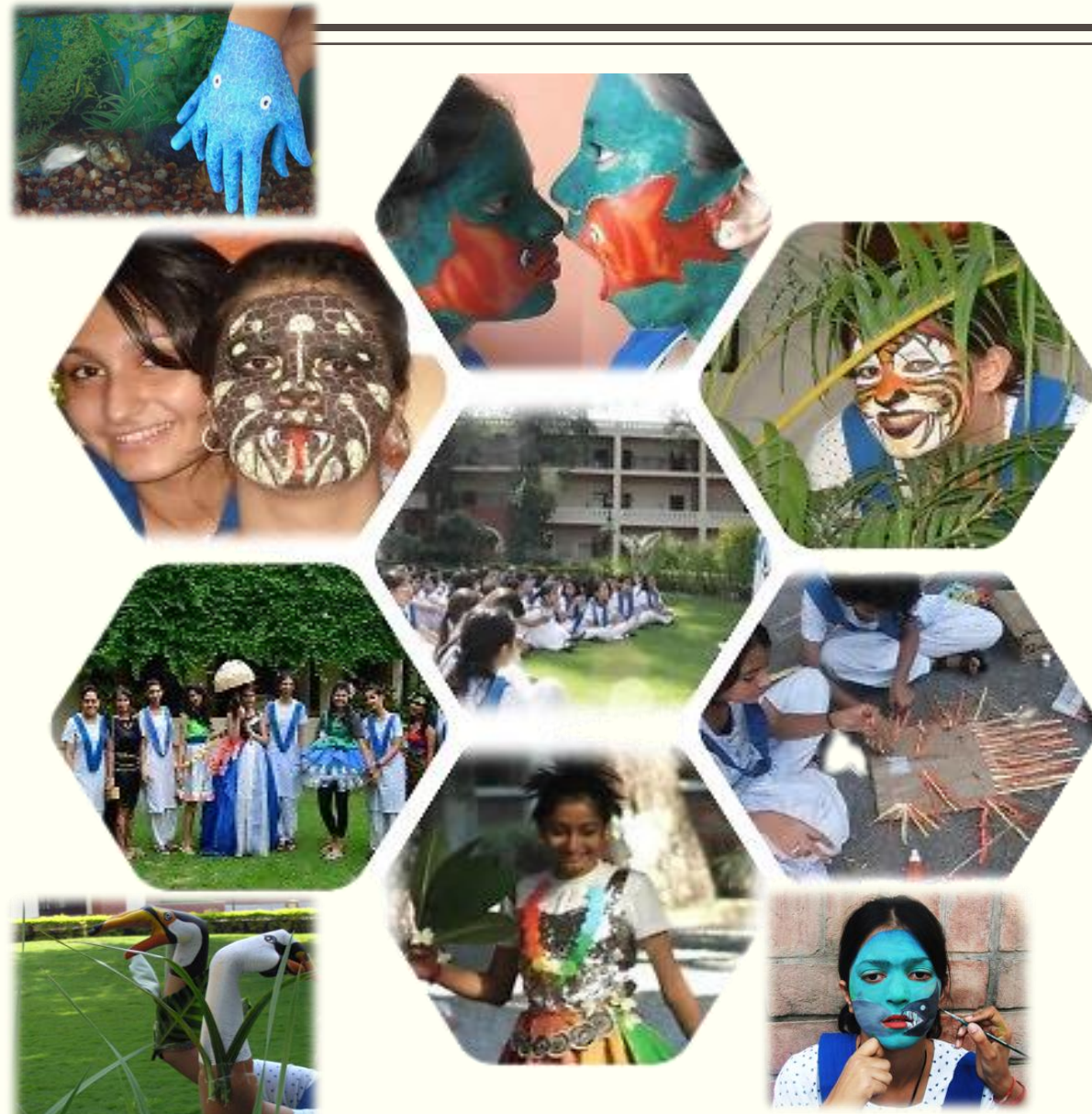


Wise₹ is a student led financial literacy campaign, striving to spread basic financial knowledge to students and women, especially in the underserved communities. Wise₹ hopes to bridge the gap between financial awareness and ignorance, through a network of student volunteers and the assistance of financial experts.

## URJA

A social initiative with the aim to make Earth safer and give it a much more sustainable and brighter future. Students sold sustainable and earth-friendly items made out of organic materials or reused old clothes found around the school campus. They were able to raise almost one lakh rupees in one day which was donated to a medical program for the residents of Prem Dham, an old age home with the hope that they will be able to have a bright and jolly Christmas. Around 500 books collected in a Donation drive: With Love From Welham, were donated to the libraries of the Aasraa Trust, John Martyn Memorial School and Prem Dham Old Age Home, Dehradun.

# WILDLIFE WEEK CELEBRATIONS & ENVIRONMENT AWARENESS



Clean up drive in the City



BIRD WATCHING



Building Our Own FUNGARIUM

VISIONARIES  
AT  
OxfordMUN  
INDIA 2024

FLAME  
UNIVERSITY



TITLE PARTNER  
ALLEN  
GLOBAL  
PREMIER STUDY AIRGAD PLATFORM

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

INFLUENCE  
AT  
OxfordMUN





# WELHAM GIRLS' SCHOOL

## Youth4Himalaya



April 2025

# APPRECIATING BIODIVERSITY

## CAMPUS BIRD COUNT

February 2024



## NATURE TRAIL

March 2024



## FLOWER TAGGING

April 2024



## OYSTER MUSHROOM CULTIVATION

October 2024





# HIGHLIGHTS 2024

Video Links

[Oyster Mushroom Cultivation 2024.mp4](#)

[DIY Trash to Treasure 2024.mp4](#)

[WelhamGirlsSchool YouthLeader Wiser.mp4](#)

[Bird Appreciation 2024.mp4](#)

[Campus Bird Count 2024.mp4](#)

[Flower Tagging - A Spring to Remember 2024.mp4](#)

[Nest Building Workshop 2024.mp4](#)

[Ant Tracking & Squirrel Watch 2024.mp4](#)

# PARTNERS



International Coalition of Girls' Schools  
**icgs**  
Advancing Girls' Education Globally

International Foundation  
for Sustainable Peace  
and Development



WORLD LEADING  
SCHOOLS ASSOCIATION



THE GLOBAL  
EDUCATION & LEADERSHIP  
FOUNDATION



NATURE  
SCIENCE  
INITIATIVE



@ecovigyan



**THANK YOU**