MY WASTE, MY RESPONSIBILITY – ADVANCING A GREENER PLANET

Presented by Pinegrove School, Subathu

BECOMING A ZERO WASTE SCHOOL

Pinegrove School, Subathu
Eco Club Initiative | 2024–25

WHAT IS ZERO WASTE?

- A philosophy that encourages rethinking resource life cycles.
- Aims for no trash sent to landfills or incinerators.
- Prioritizes prevention, reuse, and recovery.

Importance of Zero Waste in Schools

- Builds lifelong eco-responsibility among students.
- Reduces carbon and ecological footprint.
- Teaches real-world sustainability practices.

Our Motto “Go Green, Breathe Clean”

- Reflects our commitment to eco-friendly practices.
- Reminds us that clean habits lead to a healthy future.

Vision of the Eco Club

- Cultivate environmental stewardship.
- Empower students through leadership roles.
- Make sustainability part of school culture.

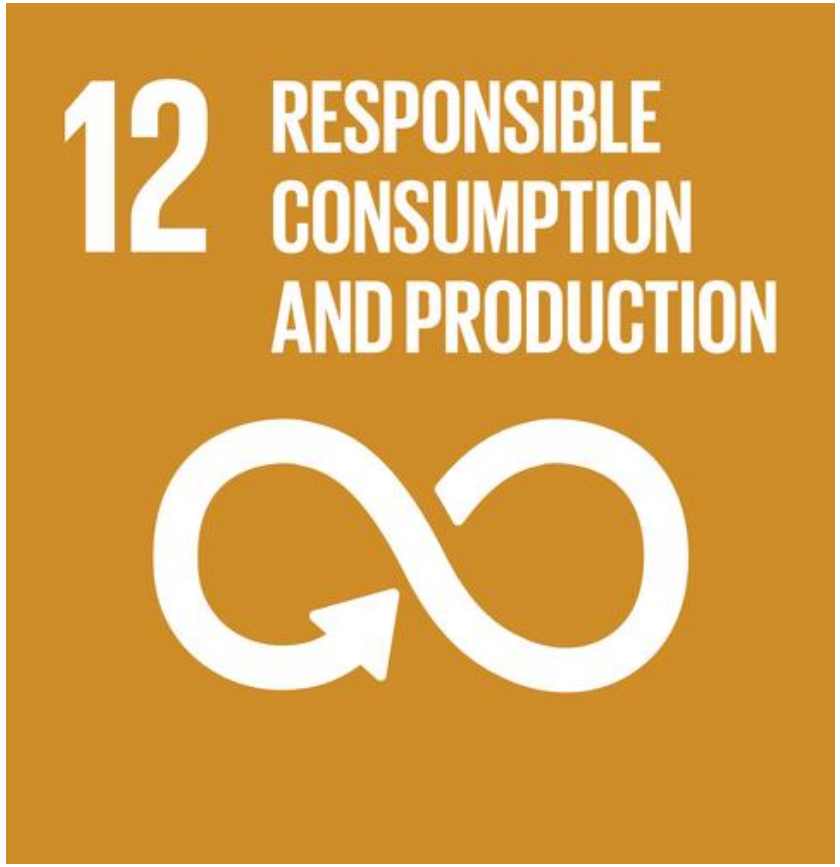
Aligning Our Mission with Global Goals

- **SDG 6: Clean Water and Sanitation**– Use of STP and recycled water.
- **SDG 12: Responsible Consumption** – Waste segregation, upcycling, composting.
- **SDG 13: Climate Action** – Tree plantation, clean energy use (solar panels).
- **SDG 15: Life on Land** – Garden biodiversity, butterfly park, clean-up drives.

Pinegrove's Commitment to SDG 12

Responsible Consumption Starts Here -

- Eliminated single-use plastic through awareness drives.
- Cloth and paper bag campaigns by students.
- Composting and upcycling integrated into learning and activities.
- Created a sustainable model for other schools to follow.



SMART Goal for 2024–25 Reduce school wasteto landfill by 90%

Key Focus Areas

- Waste reduction
- Segregation and recycling
- Composting
- Upcycling and reuse

Strengthening Sustainability & Student Involvement

Formation of Key Student-Led Committees & Clubs

Constructed/Established:

- 🟢 **School Eco Club**
  Drives environmental awareness and green campus initiatives.
- ❤️ **Social Service Club**
  Encourages compassion and community outreach among students.
- ♻️ **Garbology Committee**
  Focuses on waste management, recycling, and zero-waste strategies.
- 🍽️ **Food Committee**
  Promotes healthy eating, food waste reduction, and nutrition education.

Student Involvement

- Appointment of Student Coordinators for Eco Club, Social Service Club, Garbology Committee
- Participation of Students and staff in segregation at source (in dormitories, mess and accomodation)
- Roles in planning, awareness, and implementation
- Conducting awareness programs for students, support staff and adjoining communities about segregation of waste at their homes
- Promotes responsibility and innovation

Baseline Assessment

- Surveyed existing waste patterns
- Classified waste into: biodegradable, non-biodegradable, sanitary, saleable and E-waste
- Identified key areas for intervention

Waste Management Facilities

- **Separate bins –** for segregation of waste at the grass root level
- **AAGAS**: On-campus composting
- **STP –** for treating sewage water to reduce pressure on local water sources
- **Incinerator**: For sanitary waste
- **Ambuja Partnership**: Safe disposal of unrecyclable waste
- **E-waste** – Partnership with Shivalik Industries to dispose off E-waste

Composting with AAGAS

- Uses food waste + microbes + cocopeat
- Converts into nutrient-rich organic manure
- Fund raising by donating green manure

Sanitary Waste Disposal

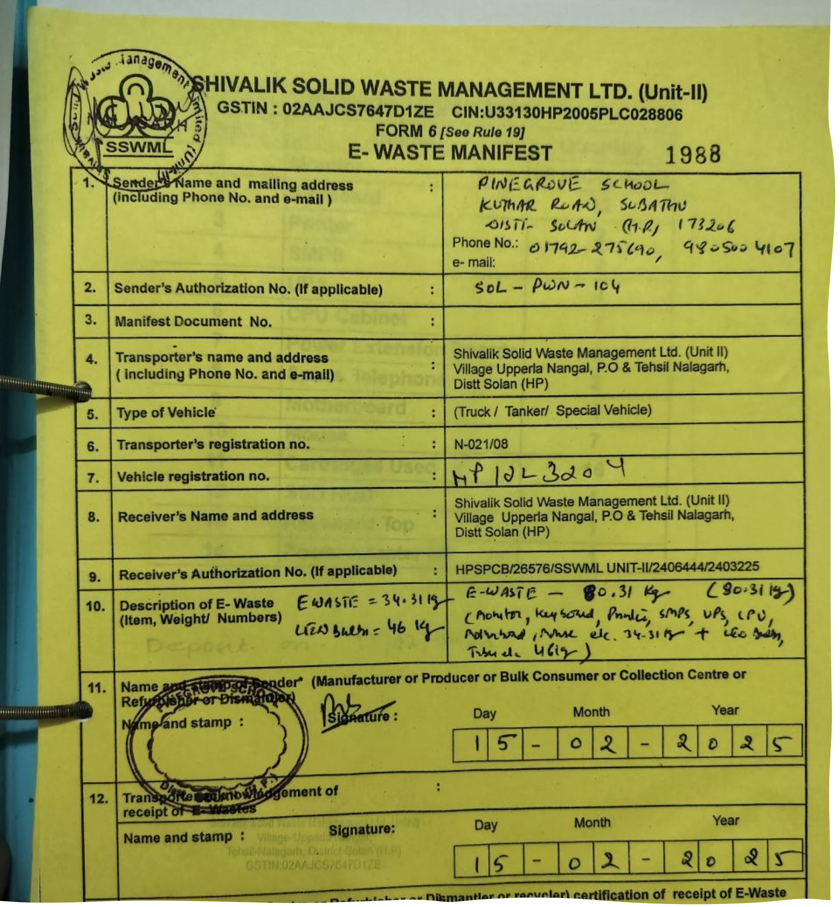
- Special incinerator installed
- Hygienic and environment-safe burning
- Reduced health risks and landfill pressure

Waste Sent to Ambuja Factory

- Non-recyclables incinerated at high temperatures
- Heat used to generate electricity
- Industrial support for sustainability

Campus Waste Segregation

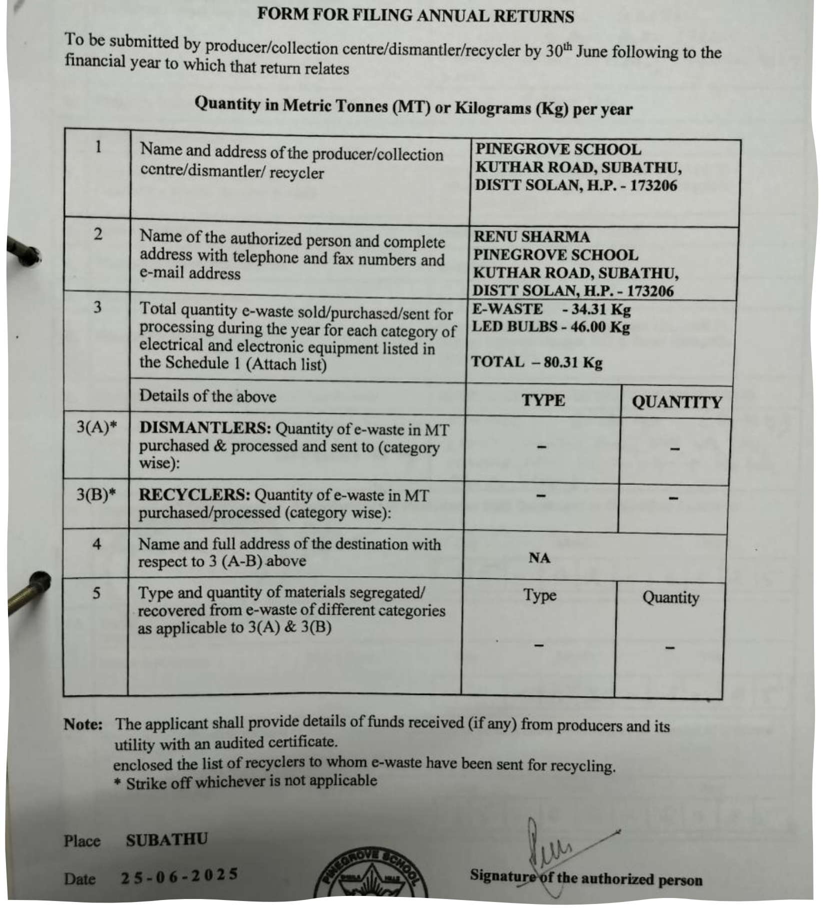
- Colour-coded bins across school
- Labels for easy student understanding
- Encourages source-level responsibility



SHIVALIK SOLID WASTE MANAGEMENT LTD. (Unit-II)
GSTIN : 02AAJCS7647D1ZE CIN:U33130HP2005PLC028806
FORM 6 [See Rule 19]
E- WASTE MANIFEST 1988

1.	Sender's Name and mailing address (including Phone No. and e-mail)	:	PINEGROVE SCHOOL KUTHAR ROAD, SUBATHU DISTT- SOLAN (H.P.) 173206 Phone No.: 01792-275690, 9805004107 e- mail:
2.	Sender's Authorization No. (If applicable)	:	SOL - PWN - 104
3.	Manifest Document No.	:	
4.	Transporter's name and address (including Phone No. and e-mail)	:	Shivalik Solid Waste Management Ltd. (Unit II) Village Upperla Nangal, P.O & Tehsil Nalagarh, Distt Solan (HP)
5.	Type of Vehicle	:	(Truck / Tanker/ Special Vehicle)
6.	Transporter's registration no.	:	N-021/08
7.	Vehicle registration no.	:	HP 12L 3204
8.	Receiver's Name and address	:	Shivalik Solid Waste Management Ltd. (Unit II) Village Upperla Nangal, P.O & Tehsil Nalagarh, Distt Solan (HP)
9.	Receiver's Authorization No. (If applicable)	:	HPSPCB/26576/SSWML UNIT-II/2406444/2403225
10.	Description of E- Waste (Item, Weight/ Numbers)	EWASTE = 34.31 kg LED Bulbs = 46 kg	E-WASTE — 80.31 kg (80.31 kg) (Monitor, Keyboard, Printer, SMPS, UPS, CPU, Motherboard, Mouse etc. 34.31 kg + LED Bulbs Tube etc. 46 kg)
11.	Name and stamp of Sender* (Manufacturer or Producer or Bulk Consumer or Collection Centre or Refurbisher or Dismantler) Name and stamp :	Signature :	Day Month Year 15 - 02 - 2025
12.	Transporter's acknowledgement of receipt of E-Wastes Name and stamp :	Signature:	Day Month Year 15 - 02 - 2025

...Dismantler or recycler) certification of receipt of E-Waste



FORM FOR FILING ANNUAL RETURNS

To be submitted by producer/collection centre/dismantler/recycler by 30th June following to the financial year to which that return relates

Quantity in Metric Tonnes (MT) or Kilograms (Kg) per year

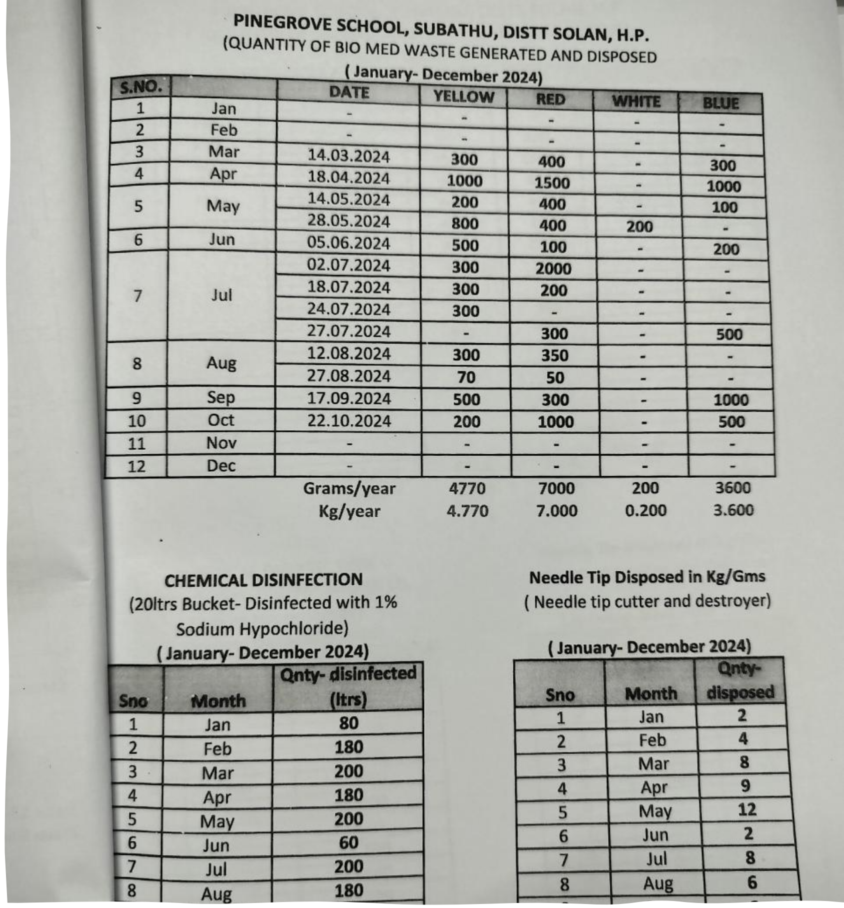
1	Name and address of the producer/collection centre/dismantler/ recycler	PINEGROVE SCHOOL KUTHAR ROAD, SUBATHU, DISTT SOLAN, H.P. - 173206	
2	Name of the authorized person and complete address with telephone and fax numbers and e-mail address	RENU SHARMA PINEGROVE SCHOOL KUTHAR ROAD, SUBATHU, DISTT SOLAN, H.P. - 173206	
3	Total quantity e-waste sold/purchased/sent for processing during the year for each category of electrical and electronic equipment listed in the Schedule 1 (Attach list)	E-WASTE - 34.31 Kg LED BULBS - 46.00 Kg TOTAL – 80.31 Kg	
	Details of the above	TYPE	QUANTITY
3(A)*	**DISMANTLERS:** Quantity of e-waste in MT purchased & processed and sent to (category wise):	-	-
3(B)*	**RECYCLERS:** Quantity of e-waste in MT purchased/processed (category wise):	-	-
4	Name and full address of the destination with respect to 3 (A-B) above	NA	
5	Type and quantity of materials segregated/ recovered from e-waste of different categories as applicable to 3(A) & 3(B)	Type -	Quantity -

Note: The applicant shall provide details of funds received (if any) from producers and its utility with an audited certificate.
enclosed the list of recyclers to whom e-waste have been sent for recycling.
* Strike off whichever is not applicable

Place SUBATHU

Date 25-06-2025

Signature of the authorized person



PINEGROVE SCHOOL, SUBATHU, DISTT SOLAN, H.P.
(QUANTITY OF BIO MED WASTE GENERATED AND DISPOSED
(January- December 2024)

S.NO.		DATE	YELLOW	RED	WHITE	BLUE
1	Jan	-	-	-	-	-
2	Feb	-	-	-	-	-
3	Mar	14.03.2024	300	400	-	300
4	Apr	18.04.2024	1000	1500	-	1000
5	May	14.05.2024	200	400	-	100
		28.05.2024	800	400	200	-
6	Jun	05.06.2024	500	100	-	200
7	Jul	02.07.2024	300	2000	-	-
		18.07.2024	300	200	-	-
		24.07.2024	300	-	-	-
		27.07.2024	-	300	-	500
8	Aug	12.08.2024	300	350	-	-
		27.08.2024	70	50	-	-
9	Sep	17.09.2024	500	300	-	1000
10	Oct	22.10.2024	200	1000	-	500
11	Nov	-	-	-	-	-
12	Dec	-	-	-	-	-
		Grams/year	4770	7000	200	3600
		Kg/year	4.770	7.000	0.200	3.600

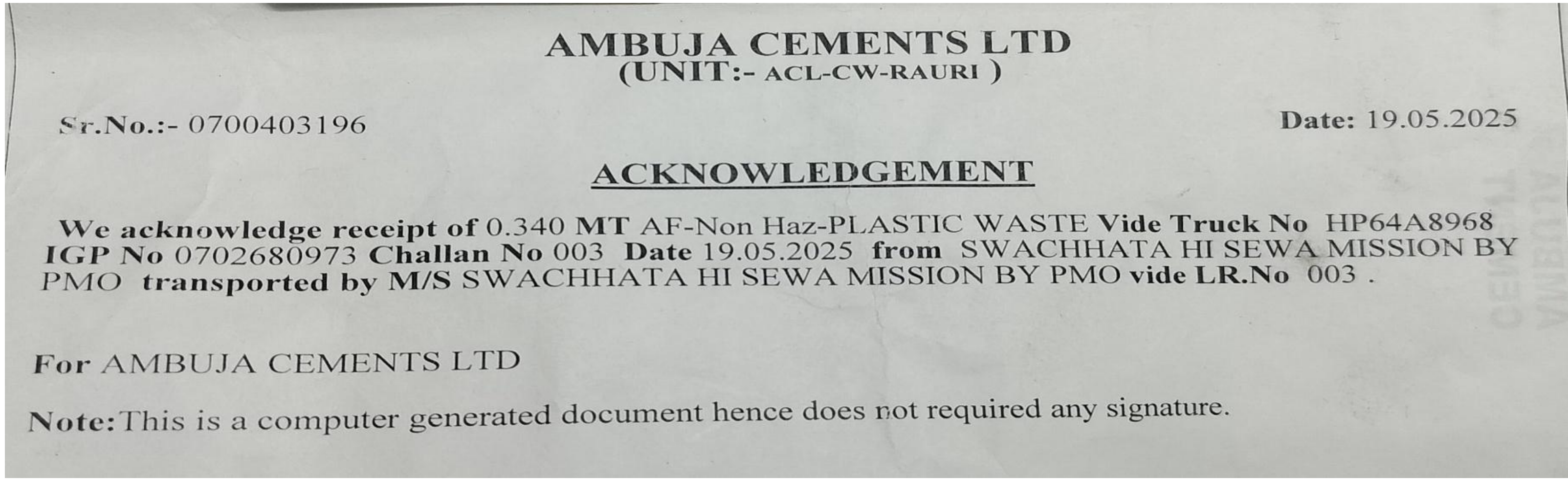
CHEMICAL DISINFECTION
(20ltrs Bucket- Disinfected with 1% Sodium Hypochloride)
(January- December 2024)

Sno	Month	Qnty- disinfected (ltrs)
1	Jan	80
2	Feb	180
3	Mar	200
4	Apr	180
5	May	200
6	Jun	60
7	Jul	200
8	Aug	180

Needle Tip Disposed in Kg/Gms
(Needle tip cutter and destroyer)
(January- December 2024)

Sno	Month	Qnty- disposed
1	Jan	2
2	Feb	4
3	Mar	8
4	Apr	9
5	May	12
6	Jun	2
7	Jul	8
8	Aug	6

- a) E-waste
- b) Bio-medical waste
- c) Multi Layer Plastic Waste sent to Ambuja



AMBUJA CEMENTS LTD
(UNIT:- ACL-CW-RAURI)

Sr.No.:- 0700403196 **Date:** 19.05.2025

ACKNOWLEDGEMENT

We acknowledge receipt of 0.340 MT AF-Non Haz-PLASTIC WASTE **Vide Truck No** HP64A8968 **IGP No** 0702680973 **Challan No** 003 **Date** 19.05.2025 **from** SWACHHATA HI SEWA MISSION BY PMO **transported by M/S** SWACHHATA HI SEWA MISSION BY PMO **vide LR.No** 003 .

For AMBUJA CEMENTS LTD

Note: This is a computer generated document hence does not required any signature.

Eco-Awareness Assemblies

- Weekly topics on environment
- Led by students
- Includes talks, pledges, and videos

Turning Trash into Treasure

- Students of the Craft and Eco Club created useful and decorative items from waste materials.
- These eco-friendly articles were displayed during school events, encouraging voluntary contributions from visitors.
- The collected funds are being used for meaningful social service activities by the Social Service Club.
- The initiative fosters creativity, sustainability, and a deep sense of social responsibility among students.

Monthly Waste Audits

- Track quantity and type of waste
- Helps monitor reduction progress
- Provides data for strategic changes

Data of Wet Waste Generated from the Mess		
Sr. No.	Month	Quantity of Wet Waste Generated (in kgs)
1	April - 2024	1730
2	May - 2024	1890
3	June - 2024	692
4	July - 2024	1460
5	Aug. - 2024	1680
6	Sept. - 2024	1570
7	Oct. - 2024	950
8	Nov. - 2024	1514
9	Dec. - 2024	1253
10	Jan. - 2025	229
11	Feb. - 2025	971
12	March - 2025	1183

Integrating with Curriculum

- **Science**: Environmental studies, climate, recycling
- **Art**: Poster and upcycling competitions
- **Social Studies**: Sustainable development and policies
- **Inter House Science Fair** – Themed on “Sustainable Solutions: Science for a Greener Tomorrow”

Upcycling Activities

- Cloth bags from old T-shirts
- Decorated compost pouches
- Blank pages from discarded notebooks retrieved and upscaled into rough registers by students
- Craft Work – Best out of waste
- Campus beautification – using discarded materials

Clean-Up Drives

- School campus and nearby areas
- Encourage community cleanliness
- Foster sense of civic pride
- Donating Old Books

Eco-friendly Holi Celebration

- Used natural colors from flowers
- Reused packaging materials
- Promoted green festivals

Paper Bag Day Workshops

- Students created their own paper bags
- Encouraged usage in homes and community
- Reinforced message of biodegradable choices

Rally in Subathu Market

- Students marched with eco slogans
- Performed street play on plastic pollution
- Engaged and educated the public

Poster & Slogan Competitions

- Topics: Water, Pollution, Zero Waste
- Winners honored in assemblies
- Posters displayed around school

Go Sharpener Workshop

- Platform to track green actions
- Digital scorecards for student initiatives
- Encouraged consistency in sustainability

LOHUM Workshop

- Students learned about 3 pillars of sustainability: social, economic, and environmental
- Practical group activities
- Inspired responsible decision-making

Reducing Power Consumption

- **Switching to CFLs and LED Lights -** Replacing conventional bulbs with CFLs/LEDs drastically cuts down electricity usage.
- **Turning Off When Not in Use -** Students and staff are encouraged to turn off fans, lights, and projectors when not in use.
- **Energy Monitoring -** Monthly checks of classroom energy use help identify ways to save more.

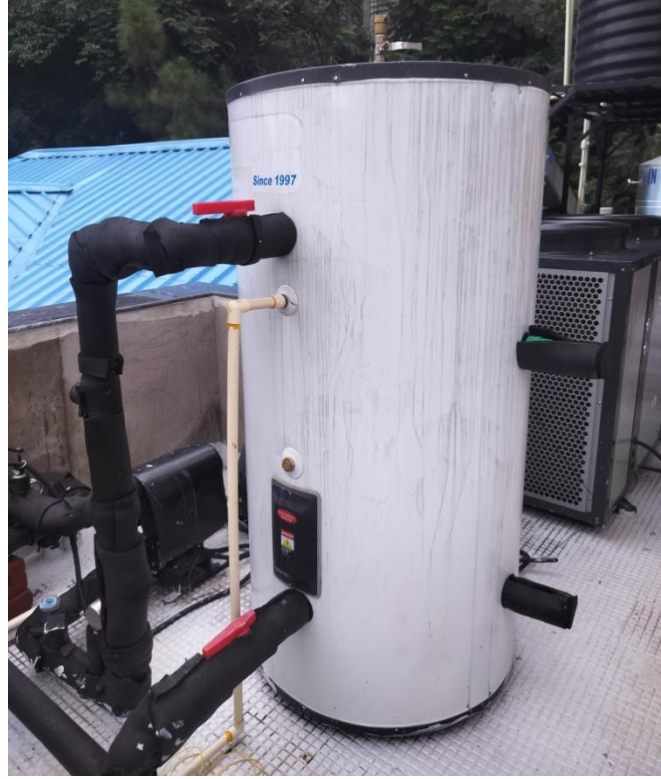
Solar Initiatives on Campus

- **Solar Power Panels Installed -**
  Parts of the school now operate on clean, renewable solar energy, reducing dependency on grid electricity.
- **Solar Power Panels Capacity -** 50 KW
- **Impact -**
  These initiatives help reduce the school's carbon footprint and serve as live models of sustainability for students.

Installation of Solar Heat Pumps in Dormitories

Towards Energy Efficiency & Sustainability -

- **Energy Savings:** Significant reduction in electricity bills by utilizing renewable solar power.
- **Eco-Friendly:** Reduces carbon footprint, contributing to a greener campus.
- **Low Maintenance:** Long lifespan and minimal operational costs.
- **Round-the-Year Utility:** Works efficiently even in colder months with heat pump technology.
- **Supports SDG 7 & SDG 13:** Clean energy and climate action initiatives.



STP on Campus

- Pinegrove School has installed an on-campus **Sewage Treatment Plant (STP)**.
- Treats grey and black water from hostels, washrooms, and kitchens.
- Uses **biological filtration and sedimentation** to purify wastewater.
- Promotes the idea of a **self-sustaining water cycle** within campus.

Reuse of Treated Water

- Treated water is used for:
  - **Gardening and irrigation** of school lawns, playgrounds, and green belts.
  - **Cleaning driveways and toilets**, reducing potable water demand.
- Reduces pressure on local water resources and **supports groundwater recharge**.
- Ensures water is used **efficiently and responsibly**.

Benefits of Installing STP

- **Environmental Benefit**: Prevents untreated wastewater discharge into the ecosystem.
- **Economic Benefit**: Cuts down water bills by reusing recycled water.
- **Educational Value**: Acts as a **live learning model** for environmental science.
- **Community Impact**: Demonstrates responsible citizenship and sustainability leadership.

Monitoring & Feedback

- Monthly Eco Club meetings
- Feedback loop from staff and students
- Flexibility to adapt strategies

Future Goals

- Sustainability to become part of daily lessons
- Create student mentors for continuity
- Partnerships with more eco-NGOs

Creating Global Citizens

- Teaching Sustainability, Living Sustainability -
  - Students actively connect classroom learning to global challenges.
  - Hands-on eco activities promote civic responsibility and critical thinking.
  - Pinegrove empowers students to be **SDG ambassadors** in their homes and communities.

Final Call to Action

- **“Think Before You Trash It”**
- Every student has a role
- Let’s pledge: Pinegrove will stay Zero Waste!
- **Our Earth, Our Habitat, Our Home**