

# AURO FOOTPRINTS

## NEWSLETTER

STEM EXPERIENTIAL LEARNING

OUR RESPONSIBILITY TO CHILDREN

ROBOTICS : DYNAMIC TOY FESTIVAL

BRIDGE EDUCATION

RAIN WATER HARVESTING

GREYWATER TREATMENT

SCHOOL KITCHEN GARDEN

AURO INNOVATION CENTRE

WATER BODIES SURVEY



Welcome to Svarnim Puducherry's Monthly Newsletter! With the blessings of Sri Aurobindo and the Mother, Svarnim Puducherry continues to embrace social and environmental responsibility, guided by their vision of harmonious relationships with nature and society.

We greatly value your feedback and reviews, as they help us grow and improve together on this journey. Thank you for being part of our community!

### CONNECT WITH US!

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Puducherry, India

# EDUCATION



Students learning chemical bonding structure

## EXPERIENTIAL STEM LEARNING

The STEM Resource Center brings science to life through hands-on, experiential learning. By utilizing mobile labs in rural schools, the program sparks curiosity and fosters a love for subjects like science, technology, engineering, and mathematics. It's an engaging way to empower young minds with practical knowledge and innovative thinking.



# 203

TOTAL  
BENEFICIARIES

## WANT TO HOLD A STEM SESSION AT YOUR SCHOOL?

Write to us with details about your school:  
[svarnim@aurosociety.org](mailto:svarnim@aurosociety.org),  
with the subject: "STEM Education + School name"

## SCHOOLS PARTICIPATED

### BIOLOGY

VSRG GHSS -MADUCARAI  
GHS - SELLIPET

### CHEMISTRY

SRS GHS-SARAM  
GHS SELLIPET

### PHYSICS

CCGHS- KURUCHIKUPPAM  
SVRGHS - MADUCARAI  
GHS - PILLAIYARKUPPAM  
GHS - SELLIPET

## CONCEPTS THOUGHT

### BIOLOGY

REPRODUCTION IN PLANTS  
SCIENCE EXHIBITION

### CHEMISTRY

CARBON & ITS COMPOUNDS

### PHYSICS

LIGHT  
REFLECTION & REFRACTION

# OUR RESPONSIBILITY TO CHILDREN

The ORC Program focuses on enhancing the mental well-being of students by providing targeted support for life skills development. Through teacher training and specialized camps, the program helps students build essential skills such as decision-making, problem-solving, and stress management. By creating a supportive environment, ORC ensures that children thrive academically and emotionally.

## INDIVIDUAL COUNSELLING CONDUCTED IN

**9**  
**SCHOOLS**

**15**  
**STUDENTS**



8 BOYS



7 GIRLS



Balloon activity promoting unity and diversity among participants



# DYNAMIC TOY FESTIVAL



The event engaged Govt. school students in exploring simple dynamic toys, sparking curiosity about their design, functionality, and the fascinating science behind them. Through hands-on activities and demonstrations, participants delved into the mechanisms and working principles of these toys, uncovering the "science magic" that brings them to life. The festival inspired creativity and problem-solving while nurturing a deeper appreciation for physics, mechanics, and innovation among young learners.

# DYNAMIC TOY FESTIVAL EXPO

NO.OF DAYS : 3

NO OF PARTICIPANTS : 147

**4**  
SCHOOLS

**235**  
STUDENTS

HERE ARE THE KEY STATISTICS FROM  
THE DYNAMIC TOY FESTIVAL:



92 BOYS



143 GIRLS

NO OF ROBOTIC SESSIONS : 6



One standout activity (as shown in the above photo) was exploring DC Motor, students dived into hands-on learning with innovative toys that sparked curiosity and creativity. One standout activity was exploring DC Motor Basics—an engaging introduction to powering motors, controlling their direction, and discovering exciting applications through experimentation!

## TOPICS COVERED



POTENTIOMETER  
CONCEPTS



2 WAY SWITCH  
CONCEPTS



PARALLEL  
CONNECTIONS



NOT  
GATE



DC  
MOTOR



# BRIDGE EDUCATION



As the year concludes, December has been a month dedicated to fostering a love for reading. Our study centres are well-stocked with books, and our young readers are making great progress. Their enthusiasm is evident in the lively discussions and sharing of stories from the books they read. Many students read at the centres, while some borrow books to enjoy at home, tracked through a well-maintained library book issue register.

In addition to reading, students prepared for their periodical tests with revision sessions, frequent tests, dictations, and dedicated doubt-clearing classes.

**PASSIONATE ABOUT TEACHING? EAGER TO SUPPORT CHILDREN IN YOUR LOCALITY WITH THEIR EDUCATION?**

Join the Bridge Education Program as a teacher in your area! Reach out to us at [svarnim@aurosociety.org](mailto:svarnim@aurosociety.org) to make a difference.

## DISCUSSIONS ON THE CONSTITUTION OF INDIA



This month also marked a new initiative: discussions on The Constitution of India. Building on our Constitution Day celebrations in November, students explored the rights and duties enshrined in the constitution of India and reflected on their responsibilities as citizens. The discussions encouraged thoughtful engagement and fostered a deeper understanding of civic values.

### CHILDREN DISCUSSED ABOUT



RIGHTS



DUTIES



CONSTITUTION

# SUSTAINABILITY

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## ROOF TOP RAIN WATER HARVESTING



Rooftop Rainwater Harvesting (RTRWH) is a sustainable practice that captures and stores rainwater from rooftops for purposes like irrigation, gardening, and household use. This approach conserves water resources, reduces dependency on municipal supplies, and aids in recharging groundwater levels. By adopting RTRWH systems, individuals and communities take a meaningful step toward ensuring a more sustainable and water-secure future.



# GREYWATER TREATMENT IN SCHOOLS



INSTALLED GREY WATER TREATMENT IN  
**23** GOVERNMENT  
SCHOOLS

Greywater, the wastewater from activities like dishwashing and handwashing, is a resource that can be treated and reused effectively. Svarnim Puducherry, an initiative of the Sri Aurobindo Society, has installed greywater treatment systems in 23 government schools, paving the way for sustainable water management. This initiative also serves as a practical learning platform for students.



TARGETING A GROUNDWATER RECHARGE OF

**7 CRORE LITERS ANNUALLY**

THROUGH RTRWH & GWT  
SYSTEMS IN **100 SCHOOLS**



# SCHOOL KITCHEN GARDEN

SOWING SEEDS OF SUSTAINABILITY

MODEL KITCHEN GARDEN  
STARTED IN

**14**  
**SCHOOLS**

AROUND PONDICHERRY BIOREGION

## OBJECTIVES

Promote biodiversity  
and conservation

Cultivate indigenous species

Engage students in  
hands-on learning

Foster environmental  
awareness

Provide fresh,  
nutritious produce







## PHASE 1

KNOWLEDGE  
DISSEMINATION  
SESSION ON SOWING  
IN LAND  
& GROW BAGS

## PHASE 2

GERMINATION,  
WEED CLEANING,  
& FLOWERING PHASE



## PHASE 3

### HARVESTING

Chilli Peppers: 2 kg  
Lady's Finger: 2 kg  
(four different types)  
Beans: 1 kg (two types)

Guided by Mr. Salai Sivaprakasam, students learned seed selection, sowing, planting, and germination basics. Native plants and seeds were carefully chosen to create an eco-friendly environment.

### Student Engagement:

Students adopted plants to nurture through their life cycles and were encouraged to start kitchen gardens at home using five seed varieties and natural farming techniques.

### Challenges:

The initiative faced viral diseases affecting lady's finger plants and storm damage to kitchen gardens in several schools.

Despite challenges, the program fosters sustainability and a deeper connection to nature.



# AURO INNOVATION CENTRE



## HARNESSING THE SUN FOR A SUSTAINABLE FUTURE

Imagine a world where fresh, nutritious food is available year-round, even in remote areas. At Svarnim, we are making this vision a reality with our innovative solar dryer, designed with an indirect drying method to ensure quality, hygiene, and sustainability.

Our solar dryer not only preserves food but also minimizes waste, enhances nutrition, and empowers communities with eco-friendly, income-generating solutions. By embracing this cutting-edge technology, we can build a resilient and food-secure future for all.

Join us in pioneering sustainable food preservation!

### BEYOND PRESERVATION



REDUCED FOOD WASTE



IMPROVED NUTRITION

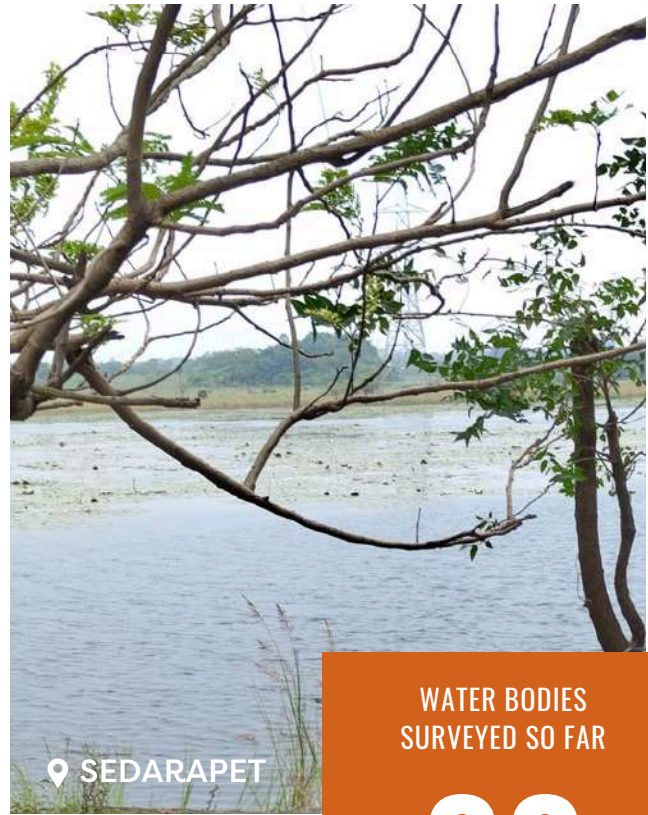


FOOD SECURITY



SUSTAINABILITY

# WATER BODIES SURVEY



WATER BODIES  
SURVEYED SO FAR

33

Svarnim Puducherry has initiated a comprehensive survey of water bodies across all communes in Puducherry.

In the current phase, the survey focuses on the water bodies in Bahour, Villianur, and Nettapakkam communes. It involves analyzing essential water quality parameters such as pH, salinity, electrical conductivity (EC), total dissolved solids (TDS), and oxidation-reduction potential (ORP). These parameters are critical for understanding the water quality in these areas.

In addition to water quality analysis, the survey also evaluates encroachments, pollution sources, and local biodiversity. The goal is to gather scientific data that will guide conservation and restoration efforts, ensuring sustainable water management for the region's ecological and community needs.



# AUROVANAM



## SCHOOL VISIT

38 children and 4 teachers from Veerampattinam Government Primary School and Svarnim's robotics students visited Aurovanam. The children were introduced to various ecological initiatives at Aurovanam, including the Kitchen Garden, Seed Bank, Nakshatra Garden, Navagraha Garden, Butterfly Garden, Nursery, Herbal Garden, and Water Bodies.



**A UNIQUE LEARNING  
EXPERIENCE AWAITS YOUR  
STUDENTS AT AUROVANAM!**

Bring your students to explore our Nature Lab with hands-on learning about ecology and sustainability. A unique opportunity, available for a nominal fee.

[Contact us for details!](#)





## BIOGAS PLANT INSTALLATION

A new biogas unit using anaerobic digester system has been installed at Aurovanam. This installation will serve as an educational tool, demonstrating the process of generating gas from biomass to students.




## GROUNDWATER MONITORING

A borewell has been set up for groundwater monitoring, aiming to track and assess water quality and availability.



*Blessed are those who  
take a leap towards the Future*



## BE A PART OF THE CHANGE: YOUR SUPPORT FUELS OUR VISION!

At Svarnim Puducherry, we believe in the power of collective action to build a sustainable future. Your involvement can amplify our efforts and help us bring meaningful change to communities in need.

## DONATE TO MAKE AN IMPACT:

Every contribution, no matter the size, empowers us to expand our reach and implement initiatives that transform lives. Your support enables us to continue working towards education, environmental conservation, and community development.

## SHARE YOUR IDEAS:

Got an innovative idea or project that aligns with our goals? Let's join forces! We welcome your thoughts and collaborations to create innovative solutions for pressing challenges. Reach out to us to discuss how we can work together for a better tomorrow.