

Empowering Tomorrow's Nature Stewards

Transforming public schools in aspirational districts into Green Schools and Living Laboratories, ensuring every child has access to quality, experiential, and sustainability-focused education.



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Every child deserves to experience science, not just read about it.



**Talent is
Universal.
Opportunities
Are Not.**

My Mission

To build learning experiences that empower every child to become a scientist, an innovator, an environmental steward, and a responsible global citizen.

My Vision

I envision a future where every school is a Living Laboratory, every teacher nurtures curiosity and scientific inquiry, and every child grows into a compassionate environmental leader committed to building a sustainable world.

Challenges

Before

Textbook-Based Learning



- Environmental science was taught primarily through textbooks and lectures.
- Students memorised concepts to pass examinations.
- Learning remained confined within the four walls of the classroom.
- Scientific concepts were rarely connected to students' local environment.
- Practical work was limited to laboratory demonstrations.
- Environmental issues were discussed theoretically.

After

Living Laboratory Learning



- Environmental science is learned through real-world observation, investigation, and field experiences.
- Students investigate environmental issues, collect evidence, and develop practical solutions.
- The classroom extends into farms, forests, wetlands, community ponds, villages, and biodiversity sites.
 - Students explore local ecosystems and relate scientific concepts to their own communities.
- Students conduct soil testing, water quality analysis, biodiversity mapping, carbon footprint assessment, and climate studies.
- Students identify real environmental challenges and design community-based solutions.

The Living Laboratory Model

My Innovation



At our school, environmental education is woven into the fabric of everyday learning. Classrooms evolve into living laboratories that span fields, forests, farms, wetlands, laboratories, and villages, enabling students to investigate real-world challenges through inquiry, research, innovation, and service.

A single idea connects five forces of change into one school-wide ecosystem.

Learning Framework

Four Pillars of the Classroom



Research-Based

- Framing research questions
- Soil & water quality testing
- Biodiversity mapping
 - Carbon footprint assessment
 - Data collection & analysis
- Research reports and presentations



Nature-Based

- Field visits to forests, farms, wetlands & ponds
 - Plant identification walks
- Biodiversity surveys
- Climate observation
 - Habitat studies



Activity-Based

- Toy-based learning
- Best-out-of-waste models
- Composting & Kitchen Garden
- Rainwater harvesting models
- Science games & role plays
- Project-Based Learning



Digital Learning

- QR-coded plant identification
- Digital biodiversity documentation
 - Photography & videography
- Online research and presentations
- Digital environmental records

A School Campus Built to Teach Sustainability



पीएम श्री राजकीय वरिष्ठ माध्यमिक विद्यालय, पाठखोरी, फिरोजपुर झिरका, नूह (Green School)

ईको क्लब की अभिनव पहल

बीज से भविष्य तक

पर्यावरण शिक्षा – बीज, समुद्रों और सुधारों

आज हमारे निवासियों ने बीज, अनाज एवं सब्जियों (बीजिंग) के बीज एकत्रित किए और ईको क्लब के माध्यम से सीड बैंक (बीज बैंक) तैयार की। यह एक छोटा प्रयास है, जो बड़े बदलाव की ओर एक कदम है।

इस गतिविधि से विद्यार्थियों ने सीखा –

- संरक्षित एवं देशी पौधों का महत्व
- बीज विविधता संरक्षण
- वर्षा ऋतु में अधिकतमिक प्लांटिंग की आवश्यकता
- अनुभवजन्य एवं गतिविधि-आधारित शिक्षा
- प्रकृति के प्रति जिम्मेदारी एवं सतत विकास

बीज एकत्रित करते हुए **सीड बैंक बनाते हुए** **तैयार सीड बैंक**



पीएमश्री राजकीय वरिष्ठ माध्यमिक विद्यालय, पाठखोरी, फिरोजपुर झिरका, नूह (हरियाणा)

ऊर्जा संरक्षण और sustainability के लिए

ऊर्जा क्लब गठन

ऊर्जा बचाएँ – भविष्य बचाएँ

हमारा संकल्प – ऊर्जा का विवेकपूर्ण उपयोग, संसाधनों का संरक्षण और हरित एवं सतत, समृद्ध विद्यालय का निर्माण।

हम सब मिलकर बनाएँगे – ऊर्जा बचा, पर्यावरण अनुकूल और प्रेरणादायक हरित विद्यालय

सहभागिता

- इको क्लब
- मिशन LIFE
- राष्ट्रीय सेवा योजना (NSR)
- संयुक्त संसदीय और सांस्कृतिक

हमारी प्राथमिकताएँ

- ऊर्जा की बचत और कुशल उपयोग
- बीज ऊर्जा एवं पर्यावरणीय शक्ति को बढ़ावा
- विद्युत उपयोग और प्रतिक्रिया बचत
- जल संयोजन, और आरंभिक प्रयोग
- आवृत्तता अभिमान और जल सहायक

छोटा कदम – बड़ा बदलाव, हम सब मिलकर करें ऊर्जा का सदुपयोग।

- आवृत्तता विजनी में करें
- बीज ऊर्जा अपनाएँ
- जल का संयोजन करें
- बुझा लगेगी जीवन बचाएँ
- समयवृत्त बचाएँ, पर्यावरण बचाएँ

एक हरित विद्यालय – एक उज्ज्वल भविष्य

Our school campus is designed as a Living Laboratory where sustainability is part of everyday learning. Students gain practical experience through kitchen gardens, biodiversity conservation, waste management, composting, rainwater harvesting, and tree planting. These hands-on experiences connect classroom knowledge with real-world action, fostering scientific curiosity, environmental responsibility, and sustainable habits. The campus empowers every learner to become an active contributor to a greener and more sustainable future.

From a Question to Community Action



150+

Student research
projects mentored

20+

State-Level
NCSC projects

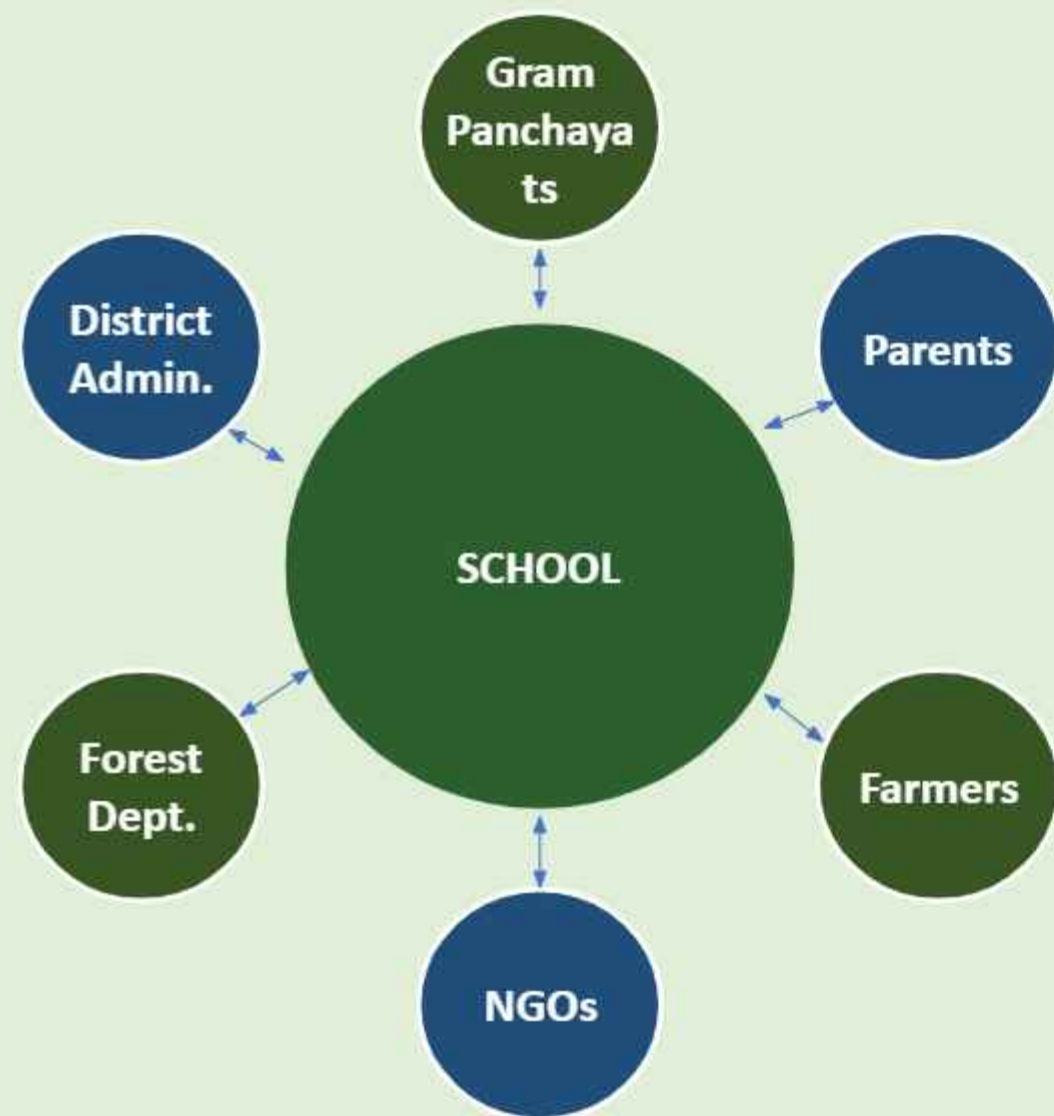
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National-Level
NCSC projects

4

INSPIRE-MANAK
Awardees

Community Engagement



COMMUNITY-LEVEL INITIATIVES

- Household composting & kitchen gardening
- Water conservation & plastic-free campaigns
- Biodiversity surveys & tree plantation
- Waste segregation drives
- Sustainable agriculture awareness workshops

Impact at a Glance:

Key Performance Indicators Demonstrating Scale, Innovation, and Systemic

Change

	KPI	Quantitative Impact	Qualitative Impact
	Teacher Capacity Building	100+ teachers mentored through workshops, classroom observations, and on-site coaching.	Teachers shifted from lecture-based instruction to inquiry-driven, experiential pedagogy, integrating environmental science into everyday teaching.
	Green School Transformation	15+ Green Schools developed and supported.	Schools adopted sustainable practices such as waste segregation, biodiversity conservation, kitchen gardens, and water conservation as part of school culture.
	Student Leadership Development	2000+ students trained in climate literacy, biodiversity, waste management, sustainable agriculture, and Project-Based Learning.	Students developed scientific temper, leadership, collaboration, communication, and problem-solving skills.
	District EcoFest Leadership	200+ students enabled to participate in district-level EcoFest competitions.	Students confidently presented research, prototypes, and environmental innovations, improving confidence and public speaking.
	Innovation & Research	100+ student-led research projects and science models developed.	Students learned to identify local environmental challenges, conduct investigations, analyse data, and develop evidence-based solutions.
	School Sustainability Solutions	60+ sustainability solutions implemented across schools (Kitchen Gardens, Composting Units, Rainwater Harvesting Systems, Waste Segregation, Biodiversity Parks, Herbal Gardens).	School campuses became Living Laboratories where sustainability is practiced daily rather than taught only in classrooms.
	Living Laboratory Model	50+ schools transformed into Living Laboratory campuses.	Students learned through direct observation, experimentation, field studies, and community engagement instead of rote memorization.
	Eco-Club Strengthening	60+ Eco-Clubs established or revitalised.	Students took ownership of environmental campaigns, peer learning, and school sustainability initiatives.
	Science Van Outreach	50+ schools reached and 2500+ students benefited through mobile science laboratory activities.	Rural students gained hands-on exposure to scientific experiments and STEM learning opportunities.
	Community Engagement	5000+ parents, PRI members, teachers, and community members participated in awareness programmes.	Strengthened partnerships between schools and communities, encouraging collective environmental action.
	Biodiversity Conservation	12000+ trees planted, 10+ species documented, five biodiversity surveys completed.	Students became custodians of local biodiversity and developed respect for ecosystems.
	Climate Literacy	50+ climate awareness campaigns conducted across schools.	Students adopted sustainable behaviours and became climate ambassadors within their families and communities.
	District Leadership & System Strengthening	Collaborated with district administration, education department, and school leaders across 60 schools.	Integrated environmental education into district-level planning and strengthened institutional partnerships.

Leadership Beyond School

KPI	Impact
100+ Teachers Mentored	Built teachers' capacity in environmental science, inquiry-based learning, and experiential pedagogy.
15+ Green Schools Developed	Guided schools in adopting sustainable practices through the Green School Programme.
Science Van Outreach	Enabled hands-on science learning through mobile laboratories, demonstrations, and STEM activities in rural schools.
District Leadership	Collaborated with district administration, education officials, and school leaders to strengthen environmental education at scale.
Community Engagement	Mobilized students, teachers, and local communities through plantation drives, biodiversity conservation, and sustainability campaigns.
Living Laboratory Model	Transformed the school into a model where environmental science is learned through research, fieldwork, and innovation.



National and International Reward



6th

Rank in the National Green
School Ranking (2025) presented in UN
General Assembly, New York



11th

Cohort, Invitation Programme
for Teachers from India, Japan



2021

Atal Bihari Vajpayee Good
Governance Award, Haryana



15

Schools with Green
School Certification



60

Schools with scaled
sustainability practices



4

INSPIRE-MANAK
Awardees mentored

Change Story



Four students from our rural classroom, Saburna, Kanchan, Manisha, and Jyoti, noticed an environmental problem affecting their community and decided to find a solution rather than simply accept it. Guided by our Living Laboratory approach, they researched the issue, conducted experiments, and developed an innovative science model using locally available resources. Through inquiry, teamwork, and scientific thinking, they transformed a local challenge into a practical solution. Their innovation earned them the prestigious INSPIRE-MANAK Award from the Department of Science and Technology, Government of India, bringing national recognition to their work. More importantly, their journey inspired other students to believe that meaningful scientific innovation can emerge from rural classrooms when curiosity is nurtured and opportunities are provided.

Vision

2026

Living Laboratory Schools
Network

Create a network of government schools where campuses become Living Laboratories, enabling experiential environmental learning, research, and innovation while sharing best practices across schools.

2027

Digital Herbarium &
Biodiversity Repository

Develop a digital repository of local flora using QR codes, geotagging, photographs, and scientific documentation to support biodiversity education and citizen science.

2028

Teacher Capacity Building
Programme

Build teachers' capacity through continuous professional development in inquiry-based pedagogy, Project-Based Learning (PBL), environmental research, and the effective use of digital tools.

2029

Climate Literacy
Curriculum

Equip students with the knowledge, skills, and values to understand climate change, promote sustainable lifestyles, and design local solutions aligned with the Sustainable Development Goals (SDGs) and Mission LiFE.

2030

A Sustainable, Climate-
Ready Generation

Empowering young people with the knowledge, skills, values, and leadership to build resilient communities and create a sustainable future.

My vision is to build a network of Living Laboratory Schools where every teacher inspires inquiry, every student becomes an environmental leader, and every school contributes to a sustainable future.

Media and Communication




GREEN MENTORS
 Promoted by United Nations
 Special Consultative Status with the
 Economic and Social Council of United Nations from 2023
 proudly
Congratulates

PM SHRI GOVERNMENT SENIOR SECONDARY SCHOOL
 Nuh, Haryana, INDIA

for securing the **6TH RANK** in the
NATIONAL GREEN SCHOOL RANKING 2025
 This achievement paves the way for your school's journey to the
9TH NYC
GREEN SCHOOL
CONFERENCE-2025
 23-24 September, 2025 New York

held during the United Nations General Assembly and Climate Week NYC.

From your classrooms to the world stage — we look forward to
 Presenting your Leadership in Greening Education to a Global Audience.

हर व्यक्ति पर्यावरण संरक्षण के लिए संकल्प ले तथा पर्यावरण को स्वच्छ रखने में अपना योगदान दे : परमजीत चहल



अध्यक्ष मन्त्र-अभिप्रेत श्री परमजीत चहल ने हर व्यक्ति को पर्यावरण संरक्षण के लिए संकल्प लेना और पर्यावरण को स्वच्छ रखने में अपना योगदान देना चाहिए। उन्होंने कहा कि पर्यावरण हमारे जीवन का आधार है और हमें इसे संभालना चाहिए। उन्होंने कहा कि पर्यावरण संरक्षण के लिए हमें एक साथ आना चाहिए और एक-दूसरे को प्रेरित करना चाहिए। उन्होंने कहा कि पर्यावरण संरक्षण के लिए हमें एक ही संदेश देना चाहिए कि पर्यावरण हमारे जीवन का आधार है और हमें इसे संभालना चाहिए।

अध्यापक मॉडल मेकिंग प्रशिक्षण प्राप्त कर विद्यालयों में विज्ञान को बनाएंगे रोचक: पवन यादव

फिरोजपुर जिला (शंकोन कोटला)

शंकोन कोटला में पवन यादव ने अध्यापकों को मॉडल मेकिंग प्रशिक्षण दिया। उन्होंने कहा कि मॉडल मेकिंग विज्ञान को रोचक बनाएगी और विद्यार्थियों में विज्ञान के प्रति रुचि बढ़ाएगी। उन्होंने कहा कि मॉडल मेकिंग विज्ञान को रोचक बनाएगी और विद्यार्थियों में विज्ञान के प्रति रुचि बढ़ाएगी।

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Thank You

For the opportunity to share this journey and the belief that every rural classroom can become a Living Laboratory.

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