

what our oceans actually look like

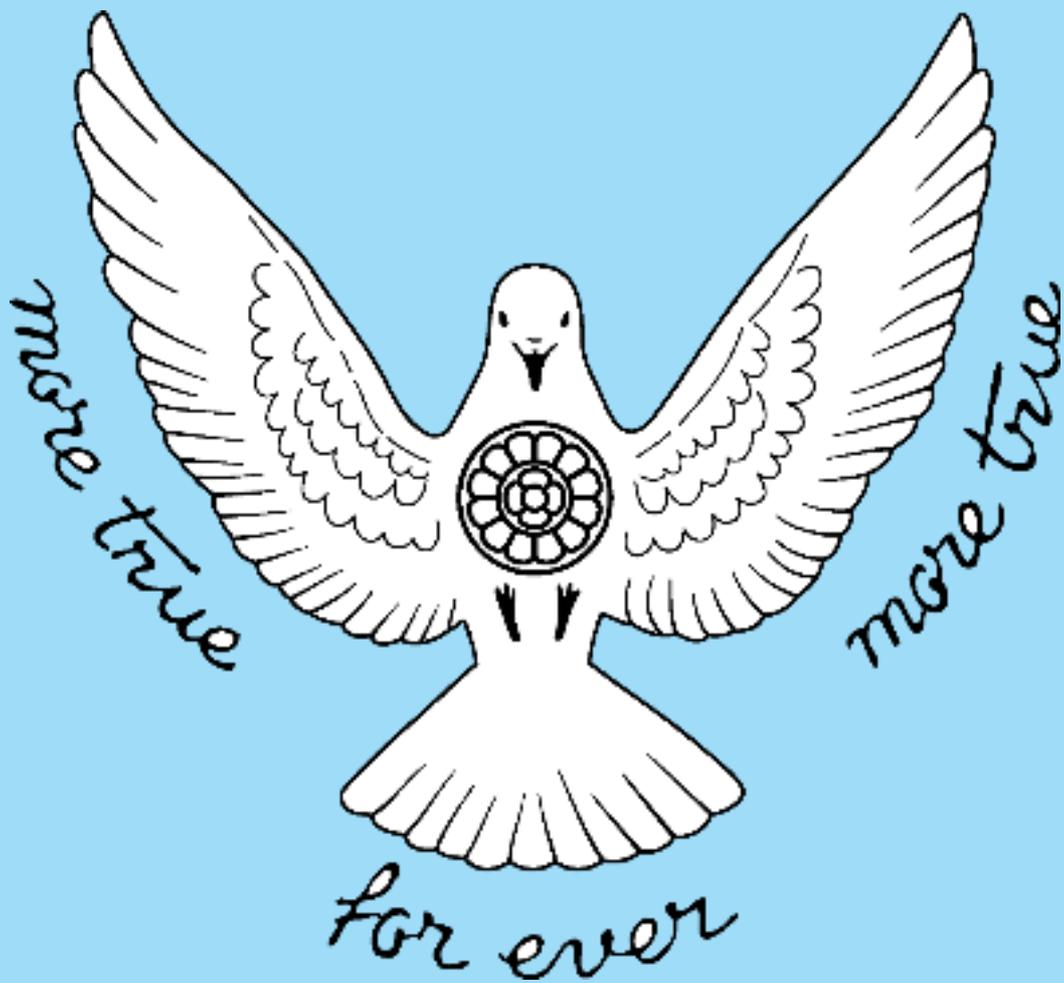
PRAKRITI

2022



This digital poster depicts the importance of reducing the consumption of plastics in day-to-day life, it portrays how single-use plastic gets accumulated and does not decompose instead turns into debris and sinks to the bottom of our oceans directly harming marine life.

Bhavna Jain X-C



"One of the first conditions of happiness is that the link between man and nature shall not be broken."

- Leo Tolstoy

Our Inspiration



Tara Didi
(Padma Shri)

"Being in Nature has always filled me with a deep joy, and over my many years of being around people of all ages and of all countries, I know this is true for each one of us.

I wish that every person, especially the youth, forms their own way of connecting with Nature and keeping it alive all their lives.

As the Mother has told us "Flowers teach us the charm of silence and also a self-giving that demands nothing in return."

My prayers for all the children to connect with Nature, and through that, with their souls."

Bliss

Tara Didi

Principal's Message

Heartfelt good wishes to the young green brigade and the editorial team of Prakriti for their sincere contribution in bringing out the much-awaited second edition of the annual magazine of the Environment Club of MIS!

This year, we celebrate 50 years of Stockholm Conference, the first global conference that focused on environment. The message “Only one Earth” resonates the urgency of the concern and the need to live sustainably in harmony with nature. The choices made today will decide the course of future. Environmental and ecological protection requires immediate attention and concrete action like never before.

The School nurtures environmental awareness through a carefully designed curriculum. Students, teachers and parents of the School collaboratively contribute toward its success. Water-harvesting; solar panels for electric supply; being a zero-garbage zone; plantation-drives; enhancing awareness of flora and fauna; use of only eco-friendly material on the campus; the three-Rs of reduce, reuse and recycle as the mainstay of all policy decisions, are some of our green initiatives and practices. More needs to be done at both the individual and collective levels!

There is only one Earth. Conservation and preservation must pave the way forward!

Milan Mala Sarin

Mentor speaks ...

Let me congratulate the editorial team of "Prakriti" for bringing out the second edition of our environmental webzine. I have had an enriching experience working with the team members of "Prakriti".

I have always believed that the learning process is reciprocal, and there are many takeaways for me whenever I interact with students. On the one hand, students infuse new energy into you with their fresh ideas and revitalise with their de-novo approaches, while on the other hand, they are ready to learn from your experience. Through this entire journey, we not only shared our ideas and brainstormed to plan the strategies and content for the e-magazine but also laughed our hearts out together on silly things.

Last but not least, I would like to say that, my dear students: you should never inhibit your imaginations and thoughts. Never hesitate, even if they are unclear and unrefined. Take bold decisions, and be ready to discuss and adopt new ideas.

Jyoti Nema

Editorial Board



Parul

Athar**R**v Anand



M**A**nan Sharma

Pranav **K**apoor

Dh**R**uv Chhabra



Shreeya S**I**nha

Adi **T**ya Nandan

MIS



Expressions...

I feel proud to be a member of the Environment Club and its initiative of spreading awareness to all the teachers and students of our school. I had a lot of fun and have learnt a lot during the process.

Atharv Anand

We should feel proud that our school has taken this initiative on such an important topic. Compiling diverse information and making the fun trivia was an enjoyable experience.

Parul Rathore

“What we save, saves us.” These words are the basis of ‘Prakriti’ that I am immensely grateful for having a hand in making. The magazine aims to implement ingenious thoughts and ideas into actions to heal the planet. I sincerely hope this edition and future editions help carve out the path to this goal.

Shreeya Sinha

This magazine or rather this piece of work is an expression of our musings and our beliefs, that ‘even though the world is driven by noble pursuits of money and business; nature, art, poetry, virtues; these are what we stay alive for.’ Through the magazine, we are trying to contribute in our own little ways to protect the environment. While it may seem small, the rippling effect of small things is extraordinary.

Dhruv Chhabra

I feel honoured to be part of the Prakriti magazine. My time spent with the environment club was joyful and I learnt a lot during the process.

Aditya Nandan

It is a pleasure to spread awareness about such a good cause. My time spent helping to create this magazine had been fruitful and I have had a wonderful experience.

Manan Sharma



Making of the e-Magazine



Survivors

Three years ago, I had never thought that a year later, the world would come to a complete standstill. That monochromes of grief, loss, and sadness would prevail everywhere. However, now that things are a bit mellow, we can look back and see that the things we have seen, heard and experienced in the last two years tell us a story. A story that is tragic but uplifting, obscure but expressive, and silent but has so many voices. The things we have learned might be full of grief, but they also give us hope. Hope that the world survived, and will continue to survive and thrive. Changing our perspective from being victims to survivors will help us go on rather than stay stuck in the past, afraid of moving forward. Life goes on, and we must too. On this note of change, learning and eternal hope, the editors and Environment club are proud to present the second edition of the school's annual e-magazine, 'Prakriti'. With more, better and thought-provoking content, we are determined for 'Prakriti' to be a collection and anecdotal evidence of the time we spent and the things we did for the environment. The e-magazine has strived to capture the lives of trees, flowers, plants, humans and animals throughout these two years, and how they didn't fail to blossom throughout the grief and loss. How they are survivors.

We spend our entire life learning about life.

Sometimes we learn a lot together.

And then we bloom.

Shreeya Sinha

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Trivia Time

Every three months, Americans throw enough aluminium in the landfills to build our nation's entire commercial air fleet.

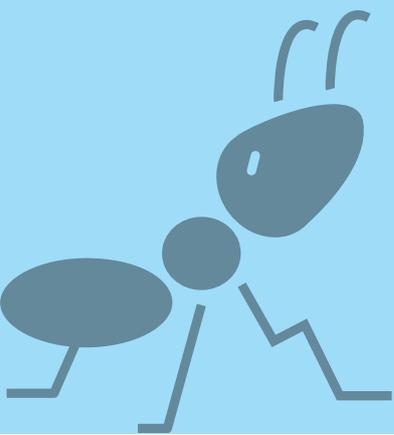
If one ton of paper is recycled, 20 trees and more than 32000 litres of water can be saved. Not only this, the electricity that will be saved from this can light up the house for 6 months.

Twelve of the world's top twenty most polluted cities are in India. From least polluted to the most, they include Khanna, Agra, Allahabad, Ludhiana, Amritsar, Kanpur, Firozabad, Lucknow, Raipur, Gwalior, Patna and Delhi.

The combined weight of ants on the planet is higher than all human beings.

The world has over 7 billion people, and 100 trillion ants.

FUN FACTS





From the Editors' Desk

A Young Warrior: Licypriya Kangujam

Licypriya Kangujam (born 2 October 2011) is a child environmental activist from Manipur, India. She belongs to the Meitei ethnicity of Manipur. She is one of the youngest global climate activists who has addressed world leaders at the United Nations Climate Change Conference 2019 to take immediate climate actions. Licypriya has been campaigning for climate action in India since 2018. Her campaigns emphasized on the need to pass new laws to change India's high pollution levels. She also campaigned to make climate-change literacy mandatory in schools. Licypriya started working against climate change in July 2018. She was inspired by the climate activist Greta Thunberg. On 21 June 2019, Licypriya started spending a week outside the Indian Parliament House to draw the attention of Prime Minister Narendra Modi to pass a climate change law in India. On 31 August 2019, Licypriya received the "World Children Peace Prize 2019". It was given by Mr Charles Allen, Director of Partnerships of Global Peace Index - Institute of Economics & Peace (IEP), Australia. She received the award in an event organized by the Regional Alliance of Fostering Youth and Ministry of Youth Sports and Community Empowerment, Government of Maldives. She was also honoured with the title 'Rising Star' by the Earth Day Network, Washington, D.C., USA. On 19 November 2019, she was given the 'SDGs Ambassador Award 2019' at Chandigarh University by Dainik Bhaskar and NITI Aayog, Government of India. Licypriya also received the 'Global Child Prodigy Award 2020' on 3 January 2020 in New Delhi by Lieutenant Governor of Pondicherry Kiran Bedi. On 18 February 2020, she addressed the TEDxSBSC held at the University of Delhi, New Delhi, India. On 23 February 2020, she addressed the TEDx Gateway held in Mumbai and received a standing ovation for her speech. She addressed TEDx talks six times by the time she was nine years old.

Shreeya Sinha



HOW MANY WARNINGS DO WE NEED?



Come, let us join hands
and ACT NOW

Perception Survey on Single Use Plastic Pollution and Management

As part of the Single-Use Plastic Survey Campaign, the environment club of our school conducted a perception survey on 'Single-Use Plastic Pollution and Management'. The aim of the survey was to get an insight into people's perception of the use of plastic in daily lives, management of plastic waste at the household level and awareness about the impacts of plastic pollution, and alternatives to plastic. More than 175 individuals responded to the survey through online mode.

1. Methodology - The surveys were conducted through online mode using Google Forms (<https://forms.gle/yJMGXUvXtFPIWLia7>)

2. Summary of Results

- 97% of respondents are aware of plastic pollution and the impact it has on the environment
- 79% of respondents reported that they reuse their plastic bags after using them once
- 64% of respondents believe that it is not at all difficult for them to use reusable bags or an alternative instead of using single-use plastic bags when shopping.
- 73% of respondents perceive that their families influence them the most to reduce the use of plastic.
- 59% of respondents reported that they are aware of schemes that are in place to reduce plastic pollution in India.
- 71% of respondents perceive that the government isn't doing enough to tackle plastic pollution



3. Perception of Respondents

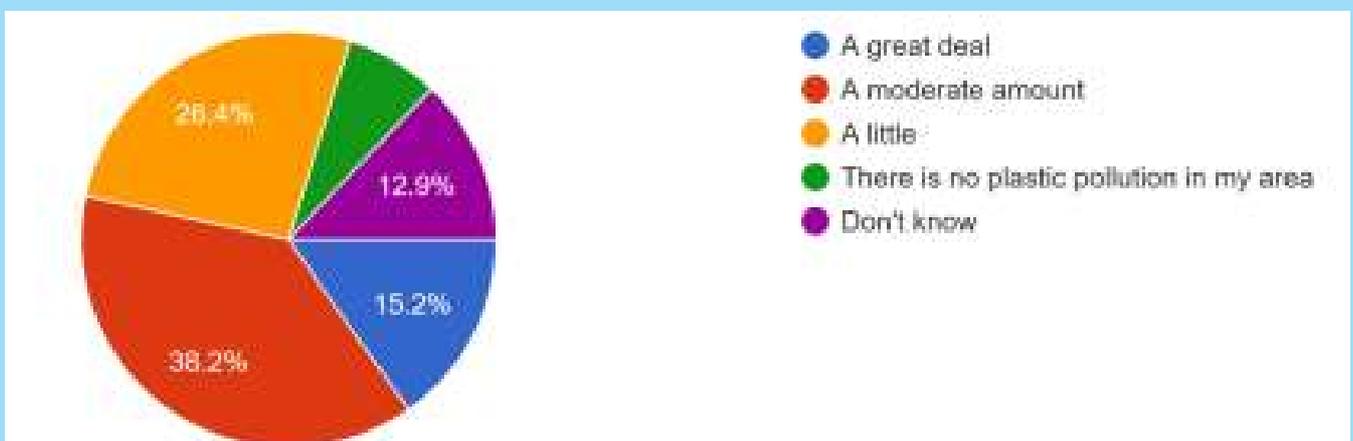
- 64% of respondents perceive that it is not difficult for them to use reusable bags or an alternative instead of using single-use plastic bags. The difficulties as perceived by the other respondents are summarised in the graph below



- 97% of respondents are aware that plastic waste is a concern for human health and the environment.
- Despite being aware of the severe impacts of plastics on human health and the environment, reasons for preferring plastic products are their cheap cost, light weight, durability, easy availability and lack of alternative materials

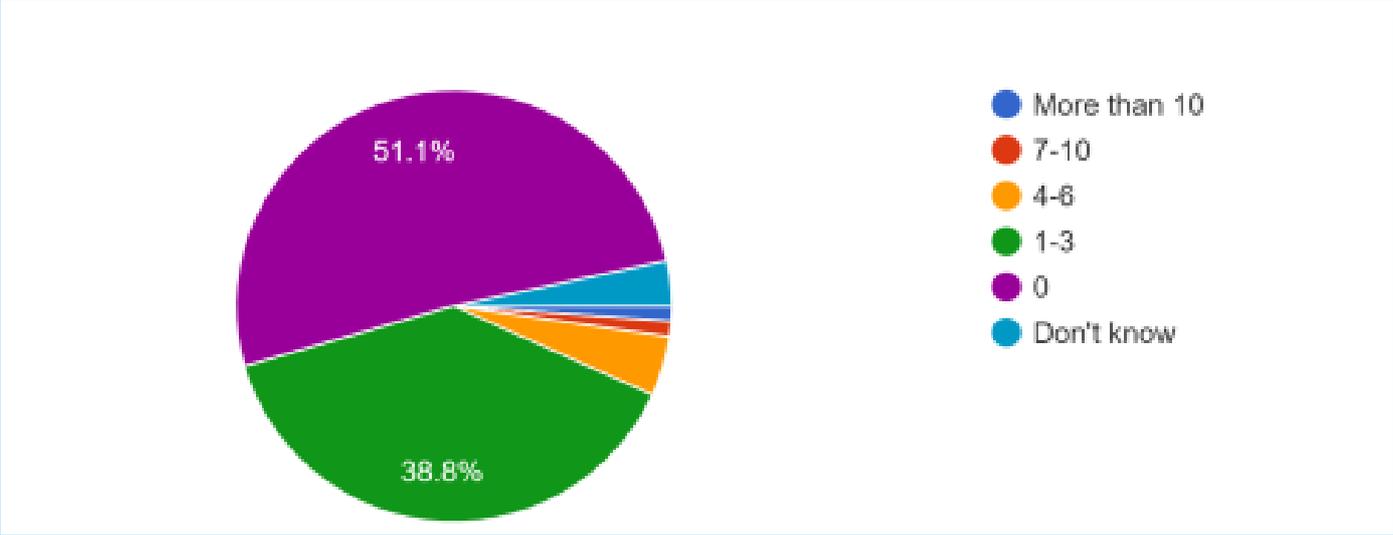
3.1 Plastic Waste Management in Locality

- The respondents were asked to rate plastic pollution in their localities

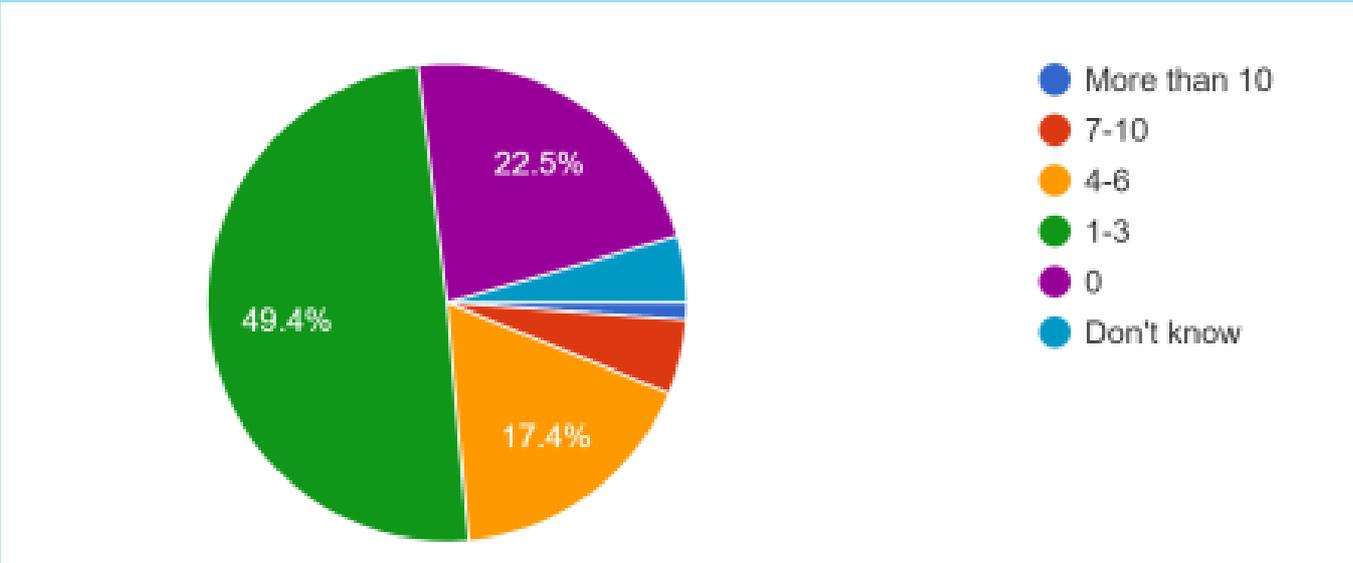


3.2 Plastic Waste Management at Household Level

- 51% of respondents do not buy/use plastic bottles at all, while 38% use 1-3 plastic bottles per week.

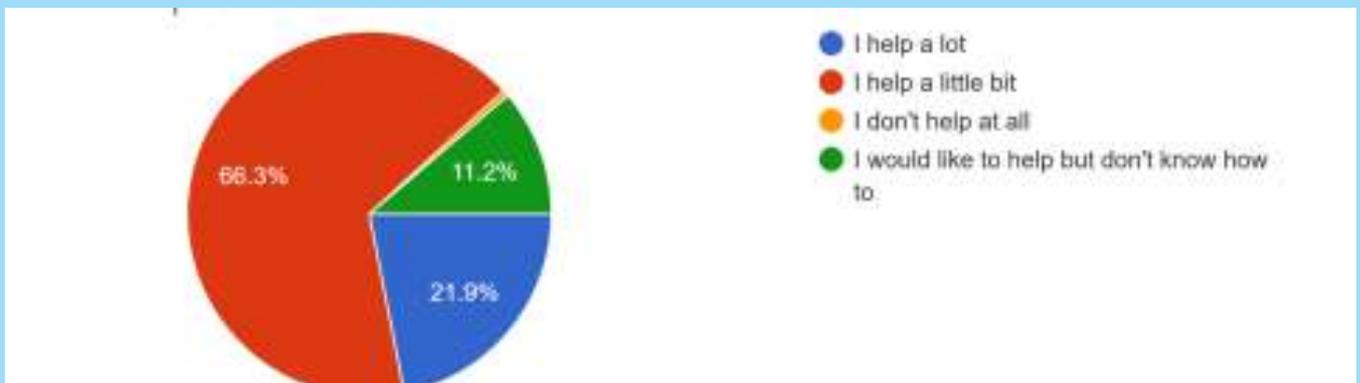


- About 50% of respondents buy/use 1-3 plastic bags per week, 17% use 4-6 bags, and 22% use none.



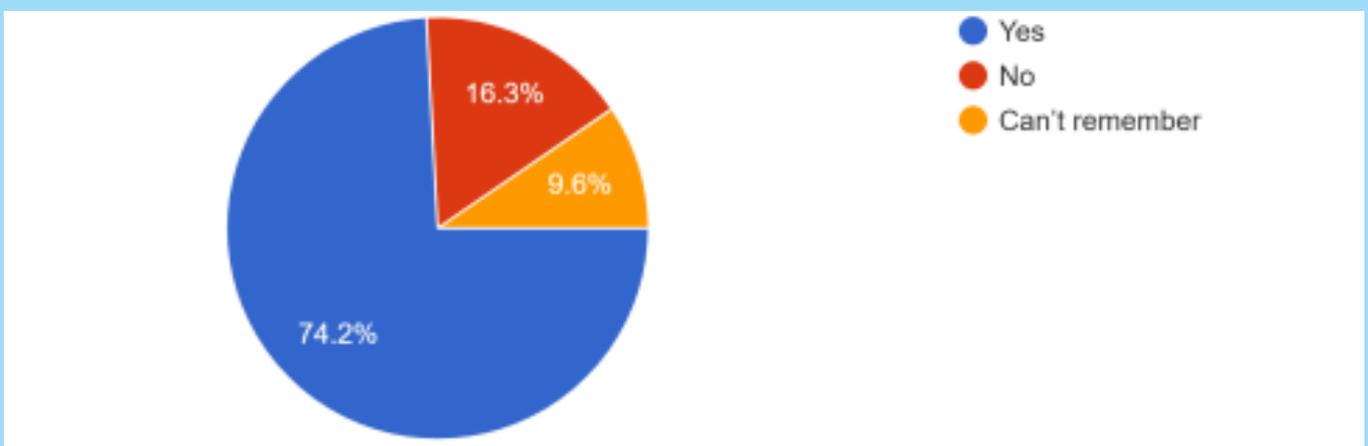
More than half of the respondents try to reduce their plastic waste at home. This can be considered a positive outcome of initiatives like the Swachha Bharat Mission and also because of media highlighting environmental issues like plastic pollution and proper waste management. More such initiatives and awareness campaigns should be promoted.

- However, awareness about plastic waste management and recycling needs to be promoted. Only 22% of respondents reported that they help a lot in reducing plastic pollution

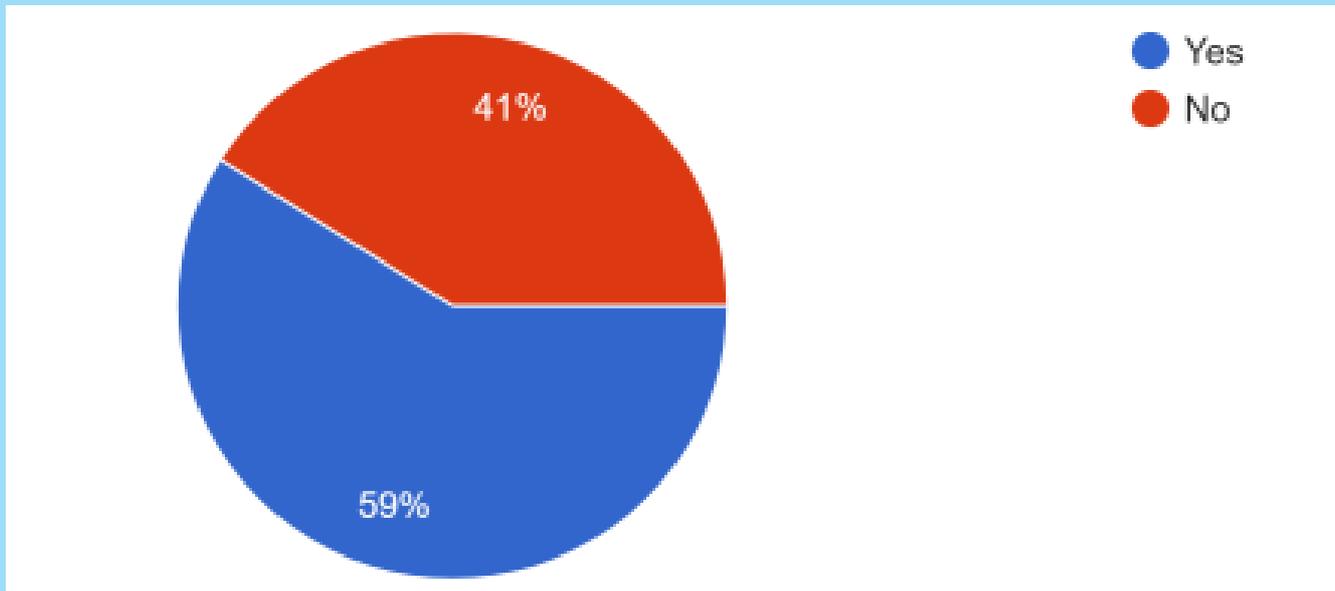


3.3 Awareness of Plastic Pollution

- 74% of respondents have seen documentaries highlighting the effects of plastic waste on the environment.



- 41% of respondents are not aware of schemes that are in place to reduce plastic pollution in India.



Greater awareness about the same is important to sensitise the citizens about the magnitude of the waste being generated and the schemes in place to tackle it. This will encourage citizens to bring about behavioural changes not only to reduce waste generation at household levels but also to effectively manage the waste.

Dhruv Chhabra



Pranav Kapoor

“Sustainable development is the development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

- Gro Harlem Brundtland

Hyperloops for transportation

When I think about hyperloops, the picture that forms in my mind is similar to the ones we see in movies set in futuristic cities like in *Meet the Robinsons* or *Tomorrowland*. Even though we had seen hyperloops in the cinematic media, they were mainly popularised among people and companies when Elon Musk wrote a paper on them. But what exactly are hyperloops?

Hyperloops are an upcoming new and improved mode of transportation, for both people and goods, that can go as fast as an aeroplane at 700 miles per hour. Hyperloops are a form of ground transport, except that instead of using wheels, the pods carrying the passengers float inside the tubes due to magnetic levitation. The pods are able to move at this speed because most of the air is removed from the tubes to create a low pressure, hence reducing friction. Hyperloops are currently being developed by a lot of companies in several countries including India. Even though the location of the routes has not been finalised, these companies have sketched out some routes in countries like India, the USA and many other European countries like between New York and Washington DC, and Pune and Mumbai.

Hyperloops are better than other modes of transport as they are energy-efficient, sustainable and eco-friendly. It is believed that the hyperloop will be a cheaper mode of transport than the traditional methods and will also be able to carry more people than in a subway. Hyperloops are eco-friendly as they would get their energy from an external electric motor and also from solar panels placed on top of the tubes. This way more energy than is needed will be generated making it energy efficient. Due to this, there will be lower carbon emissions and reduced pollution, making it a sustainable medium of travel.



There are, however, some drawbacks that come with building the tubes for the tracks. The engineers would require a lot of technical skills as even a small crack could lead to the tube imploding. In this situation, low pressure would be created inside, causing air to go rushing in. Thus, there will be a risk to life if anything goes wrong with the system. There may also be dizziness among passengers due to the high speed of the pods and even though the hyperloop system is environmentally friendly, there is likely to be a lot of deforestation to make the tracks which can have drastic effects on the environment.

In my opinion, in the long run, hyperloops will have a lesser negative impact on the environment than the transportation system available nowadays. Overall hyperloops will be a great step forward in development even though there is a long wait before they will be used by the public.



Hyperloop

Atharv Anand

Interview of Mali Bhaiya

Question: What is your name and how have you been taking care of such a large area every day?

Reply: My name is Ram Kishan Paswan, when I had come to this place in 1969 Tara Didi's father used to be there. Back then I was about 15 years, I had seen that the Ashram and School were quite small, so relatively the number of teachers and staff was less. In the ashram, Neem trees would be large in number along with tikad (which are non-useful thorny bushes). There were no fruit-bearing trees except 5 trees of guava, and in total there were only 90-100 trees. Gradually students and teachers increased.

Tara Didi gave me the knowledge of different trees and whatever I am today, is all because of her. She used to help me in planting trees by sitting alongside and guiding me through the process. She educated me on how much distance is to be maintained while planting various types of trees. Now we have 10 gardeners and people are always ready to volunteer. We have planted more than 2500 trees across campus. Plants have a better success rate nowadays due to monsoon. Seeds are not supposed to be sown deeper than 3-4 inches otherwise they may rot during the process of germination.

Question: What is your strategy while planting trees that are more likely to thrive?

Reply: Pits are first dug out at a radius of 2 feet, depth of 4 feet and the distance between each pit is 3-4 feet. In the case of large trees, the pits are left in the open for two weeks then a mixture of soil and manure is added after another 15 days so that the soil settles down as much as it can.

When planting small plants about 1-2 feet high, another 6-inch cylindrical pit is dug out, some more manure is added and then the plant is ready to be planted. The chances of plant or root rot are reduced significantly as proper nutrition and care are provided. We need to be careful about maintaining proper moisture since as soon as moisture is lost pests start eating roots. We need to dig a one-foot-deep hole around the plants and add natural pesticides.

Question: Since we all know that you prefer using organic materials, what challenges do you face?

Reply: We do not use any insecticide for our fruit-bearing trees whatsoever. However, we use termite oil to take care of large trees.

Question: Do you find any degradation in the quality of soil after replanting seeds frequently.

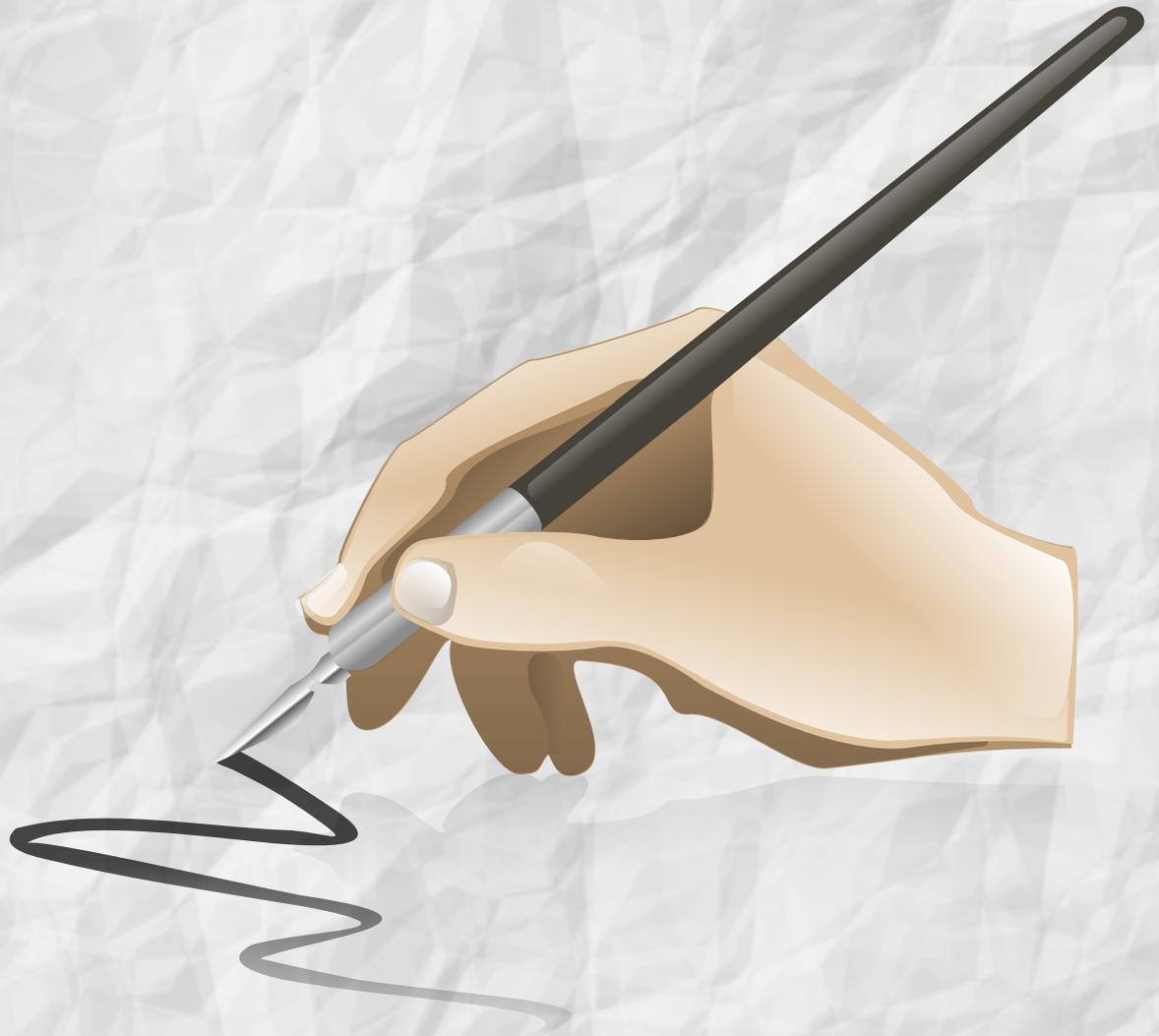
Reply: Once a crop is harvested, we check the quality of soil by picking some up in our hands. If we find moisture and find the soil to be healthy, we know we do not have to add manure. After that we level the soil, if we have to plant vegetables, we have to maintain proper distance between the plants. Since the seeds are very fine, we have to winnow them properly before sowing. Manure is prepared and added to the fields before sowing.

Manan Sharma

Parul

Dhruv Chhabra





Pen Your Thoughts

Global Warming is Global Warning

Global warming is a major issue in today's world. It is the increase in the temperature of the earth due to the increase of greenhouse gases in the atmosphere. These gases increase due to human activities. For example, the burning of fossil fuels. When we burn fossil fuels to create energy/power, we release carbon dioxide into the atmosphere. Deforestation is also one of the reasons. Trees absorb carbon dioxide and release oxygen, creating a balance but due to the cutting of trees, carbon dioxide increases.

Global warming is really dangerous. It leads to a lot of other issues. It causes glaciers to melt. Animals living in polar regions, like the polar bears, are experiencing a loss of habitat. Also, sea levels are rising, which is causing the loss of coastal land. Floods can take place as well, which are life-threatening. Excessive heat can lead to droughts too.

Global warming is a global warning. It warns us to stop harming the earth. Different organisations have tried to reduce greenhouse gas emissions in order to reduce global warming. The UN is one of them. The United Nations Secretariat has adopted a new 10-year Climate Action Plan aimed at transforming its operations to achieve a 45% reduction in greenhouse gas emissions and sourcing 80% of electricity from renewable energy by 2030.

We too, on our part should contribute to reducing global warming. We should start using non-conventional sources of energy like hydel energy, wind energy, solar energy etc. instead of conventional sources like coal. We should stop cutting trees to obtain land. Small measures like these can go a long way in saving our earth.

“Earth provides enough to satisfy every man's need, but not every man's greed.”

~Mahatma Gandhi

Sanchita Suri

IX-E

Growing With Nature

While growing up, we often fail to notice how everything around us ages. The small mango sapling is now a large, shady tree which blesses us with its bountiful fruit every year. The squirrels have grown in number as they scurry around the park, looking for nuts to hoard and trees to climb. As we grow, from crawling toddlers to walking unsteadily to running and chasing, Mother Nature watches us.

We have been given more than we can imagine, yet, nowadays we are disrespecting Mother Nature by violating her beautiful creations. Humans have, for centuries, been exploiting the Earth and it is time for us to delve into the plethora of problems threatening the existence of the environment. Pollution, global warming, and deforestation, all come to mind as some of the most prevalent and serious issues in the present world. In 2019, every sixth death globally was caused by pollution and, the horrifying reality is that this statistic only continues to worsen with the passing years. However, the prospect isn't yet all black; talented and passionate individuals and groups are coming forth with fresh ideas.

Come, let us all join this fight to protect our beloved Earth from the dangers that endanger the peace of this beautiful planet. Let us pave the way for future generations to grow up in the lap of nature, under Mother Nature's watchful eye. Let us build a sustainable future.

Nitya Jain

IX-C



Save Earth Before It's Too Late

I am Mother Earth, the only planet in the solar system, that has life and existence. I am giving life to all the living creatures and shelter to all the non-living things. All was well and I never thought that this day of destruction will ever come but, I was wrong. As time passed, technology and industries started developing at a rapid pace. Greed increased and it led to mindless exploitation and misuse of nature and natural resources. Such a greed-based race is damaging nature. Forests are cut or burnt for growing crops and building homes and factories to meet the needs of exploding human population. Many species go extinct and many continue to lose their homes and die. Industries grew and it led to water, air, soil and noise pollution. Rivers got dirty, soil got degraded and over-used. Smoke is everywhere. It is really hard to breathe, and I was feeling very suffocated.

Many diseases, many of which are man-made, are adversely affecting health and social life. Greed-based and indiscriminate use of technology and its ill effects are causing serious threats to the very existence of humans and all other creatures and ultimately my own existence.

In this darkness, I have a pleasant experience to share. During the current lockdown to prevent the spread of COVID-19, when most of the industries are temporarily shut down, vehicles are off the road, and people are staying indoors, there is a noticeable change in me. A ray of light has emerged. Dolphins and other sea animals have come to the shore and can be seen easily, the air is getting cleaner and fresh, the sky is blue and clean, and the rivers are getting clean. Animals are feeling safe and can be seen in various places. Birds are chirping. I am feeling relieved and better, after a prolonged struggle.

Nature is really powerful and has the power to clean itself. There is a significant improvement in nature without any action. It shows that there is an inevitable need to pause and think rather than indulge in the blind race of greed.

I have given you all so much, I deserve to be protected and be beautiful again. Humans, being amongst the most intelligent species of nature carry the biggest responsibility to protect me and save this creation of life. This can be achieved by adopting ways and means of sustainable development and striking a balance between development and nature preservation. My children, always remember that my survival and well-being are important for the survival and well-being of you all.



Eco-Toons

Humour in nature



Aradhya Porwal

Source: seppo.net and maxgustafson.com



Tunes of Sustainability

POEMS

Nature Nurtures

Listen closely, a tale she tells,
Looking around, her heart swells.

Under the care of her watchful eye,
She gave me wings, pushed me to fly.

These leaves no less than a treasure,
In the wind, gently swaying with leisure.

This grass shining with gem like dew,
Lights up my heart with every hue.

These trees reaching out to the sun,
And the shade, a playground for frolic and fun.

Yes, this is home; where I was mothered,
A paradise that is yet undiscovered.

And my heart is grateful every day,
Who says Nature isn't child's play?



Save Nature

So I was pondering about the memories I cherish

The pristine blue waters of the Havelock and their dazzling fish

Visiting Mussoorie, the Queen of the Hills

That invite you to hike, despite the chills !

The clear water of the Himalayas, unbelievably pure

As a Delhite, I feel enchanted by its allure

The rocky terrain of Rajasthan makes you ponder

This is how the Maharajas lived, you wonder !

The brackish lagoons of Alleppey force you to introspect

What will the future generations see if we do not protect ?



Eco Frames

REC





Aradhya Porwal



Dhairya Soodh



Deetya Ruchi Ahuja
IX-E

Meri Kalam Se (Hindi Articles)



धरती है जीवन का आधार

‘वही पशु-प्रवृत्ति है कि आप-आप ही चरे,
वही मनुष्य है कि जो मनुष्य के लिए मरे।।’

हमारे देश में कई महापुरुषों का जन्म हुआ है – महात्मा गांधी, मदर टेरेसा, चाणक्य, आदि। इन सभी ने हमें यह सीख दी कि अपना काम तो सभी करते हैं, परंतु असली सुख, किसी और का बोझ काम करके प्राप्त होता है। मनुष्य का इस धरती पर जन्म परोपकार के लिए हुआ है। जो व्यक्ति केवल अपने स्वार्थ के विषय में सोचे, उसका जीवन व्यर्थ है। लेकिन परोपकारी प्रकृति इसका ज्वलंत उद्घरण है। रहीम जी कहते हैं:-

तरुवर फल नहीं खात है, सरवर पियहि न पान।

कहि रहीम पर काज हित, संपति सँचहि सुजान॥

अपने आस-पास देखने से हमें मालूम होता है कि पर्यावरण की उदारता सभी ओर से हम पर छलक रही है। पेड़ों की ठंडी छाँव हमारे आनंद के लिए है; इससे उन्हें कभी लाभ नहीं होता परंतु वे कभी बदले में हमसे कुछ नहीं माँगते। नदियाँ अपने शीतल जल का इस्तेमाल स्वयं नहीं करती। मानव इस पानी का उपयोग अपने सभी कामों में करता है, परंतु हम कभी उस नदी के विषय में नहीं सोचते जिसने अपनी राह के पत्थरों, जंगलों, आदि अनेक रुकावटों को पार कर, हम तक इसे पहुँचाया है। सदियों से, प्रत्येक वर्ष, आसमान में गड़गड़ाते हुए बादल वर्षा करते हैं। सदियों से, हर साल, गरजते हुए बादल हम पर बरसते हैं। यह बारिश खेतों की सिंचाई और हमारे लिए भोजन का प्रबंध करने के लिए महत्वपूर्ण है। बादल कभी बदले में हमसे कुछ नहीं माँगते। फिर मनुष्य का हृदय इतना स्वार्थी क्यों है? मनुष्य को तो सभी जीवित प्राणियों में सबसे अधिक बुद्धिमान माना जाता है, लेकिन वह केवल अपने स्वार्थ को पूरा करने के लिए चिंतित है।

बहुत से लोगों के मन में सवाल उठता है - मनुष्य और पशु में क्या अंतर है? इसका जवाब है, उनकी सोचने की क्षमता जो उन्हें एक-दूसरे से इतना अलग बनाती है। तो आईए, एक-दूसरे के बारे में सोचे, और इस धरा से एक बार पुनः, एक सीख लें। सीख, परोपकार की।

- नित्या जैन ९-सी

"माता भूमि: पुत्रो अहं पृथिव्यां"

धरती हमारी माता है और हम इसके पुत्र हैं। धरती माता हमारे जीवन के अस्तित्व का एक प्रमुख आधार है। इंसान का जीवन धरती के वातावरण के कारण अस्तित्व में है। हमारे साँस लेने के लिए हवा से लेकर खाने पीने तक की हर जरूरी चीजें वातावरण उपलब्ध कराता है और धरती पर जीने के लिए अनुकूल माहौल देता है। प्रकृति और पर्यावरण से ही ब्रह्मांड सुचारू रूप से चल पाता है। प्रकृति तो हमें जीने के लिए बहुत कुछ देती है लेकिन इसके बदले में इंसानों ने प्रकृति का सिर्फ दोहन किया और पर्यावरण को प्रदूषित किया। जिससे प्रकृति को तो नुकसान हो ही रहा है, साथ ही जनजीवन का अस्तित्व भी खतरे में है।

दरअसल, धरती पर हो रहे जलवायु परिवर्तन के लिए जिम्मेदार कोई और नहीं बल्कि समस्त मानव जाति ही है। जी हाँ, हमने कहीं न कहीं सुविधाभोगी जीवनशैली में सामाजिक सरोकारों को पीछे छोड़ दिया है। जैसे-जैसे हम विकास के सोपान चढ़ रहे हैं वैसे-वैसे पृथ्वी पर नए-नए खतरे उत्पन्न हो रहे हैं। दिन-प्रतिदिन घटती हरियाली और बढ़ता पर्यावरण प्रदूषण इसका बड़ा सबूत है जो रोज नई समस्याओं को जन्म दे रहा है। भौतिक विकास के पीछे दौड़ रही दुनिया को अब यह अहसास हो रहा है कि इस चमक-दमक के लिए क्या कीमत चुकाई जा रही है। आज ऐसा कोई देश नहीं है जो धरती के संरक्षण पर मंथन नहीं कर रहा हो।

भारतीय परंपराओं का धरती के संरक्षण से पुराना संबंध है। प्राचीन काल से ही हमें प्रकृति के साथ संतुलन बनाते हुए चलने का संस्कार मिला है। हमारे यहाँ पेड़-पौधों, नदी, पर्वत, ग्रह, नक्षत्र अग्नि, वायु सहित प्रकृति के विभिन्न रूपों के साथ मानवीय रिश्ते जोड़े गए हैं। पेड़ की तुलना संतान से की गई है तो नदी को माँ स्वरूप माना गया है। 'जियो और जीने दो' भारतीय संस्कृति का मूल आधार है और यह सह अस्तित्व का सिद्धांत ही हमें प्रकृति के प्रति अधिक संवेदनशील बनाता है।

हम सभी जो कि इस स्वच्छ श्यामला धरा के निवासी हैं उनका यह दायित्व है कि दुनिया में कदम रखने से लेकर आखिरी साँस तक हम पर प्यार लुटाने वाली इस धरा को बचाए रखने के लिए हर संभव प्रयास करें। लेकिन यह तभी संभव होगा जब वह हरी-भरी तथा प्रदूषण से मुक्त रहे।

किसी ने क्या खूब लिखा है कि पृथ्वी और आकाश, जंगल और मैदान, झीलें और नदियाँ, पहाड़ और समुद्र, ये सभी उत्कृष्ट शिक्षक हैं और हमें ये इतना कुछ सिखाते हैं, जितना हम किताबों से नहीं सीख सकते। वह सबसे धनवान है, जो कम से कम में संतुष्ट है, क्योंकि संतुष्टि प्रकृति की दौलत है।

- ध्रुव छाबड़ा ९-ई



Art In Nature

Posters

Green Energy



Aradhya Porwal

IX-E

Kavya Darpan



प्रकृति - जीवन का अभिन्न अंग

क्या तुमने प्रकृति को गौर से देखा है कभी?
जिसके अनुदान आशीर्वाद से हैं हम सभी
प्रकृति परमात्मा का उपहार है भव्य
तो क्या उसका संरक्षण नहीं हमारा कर्तव्य?

रासायनिक खाद का छिड़काव करता भूमि प्रदूषित
कूड़े कचरे का नदियों में प्रवाह सर्वथा अनुचित
खनन हनन और प्लास्टिक करते सब अस्त-व्यस्त
पृथ्वी की करोगे रक्षा, तभी आएगी खुशहाली समस्त

निज स्वार्थ के लिए मत काटो भविष्य की सीढ़ी
वरना इसका परिणाम सहेगी अगली पीढ़ी
प्रदूषण कम करने के लिए अब नहीं कोई विकल्प
पर्यावरण की रक्षा करने का सब लें संकल्प

आज समय की माँग यही है, पर्यावरण बचाओ
प्रकृति से नाता जोड़ो, उसके मित्र बन जाओ।

- ध्रुव छाबड़ा ९-ई



Environmental Updates

NEWS

EXPANDING GREEN COVER

THE TARGET

To plant 85,000 trees

5.2 lakh shrubs and ornamental plants

BY WHEN
2022-23

HIGHLIGHTS

- > Plants of indigenous varieties like neem, pilkhan, pipal, jamun, fig, etc. being planted because of high survival rate
- > Recently transferred sites/parks from DDA to be used too
- > With space in parks exhausted, dispensaries, regional offices, community

- halls, schools, etc. to be used for plantation
- > In Shahdara south and north zone, 92 parks were transferred from DDA last year
- > MCD developed 21 'mini-forests' till last year
- > 20 more mini-forests to be developed this year



(IStock)

Pledge your support to nature!

Established by the UN in 1973, with an aim of creating awareness about environmental problems, World Environment Day is celebrated globally. With rampant pollution, deforestation, poaching contributing to global warming, conservation of the environment should be our top priority. An excellent opportunity to do just that lies right in our city to assemble knowledge about the harmful practices degrading the environment and illegal trade endangering the ecosystem. So, come along and pledge your support towards the environment through plantations, marches, interactive sessions and activities happening across the city and pay homage to Mother Earth, the nature's advocate and shield that the planet from destruction.

On World Environment Day, take part in eco-friendly activities happening in the city



<h3>CELEBRATING GO GREEN</h3> <p>Take part in celebrations of World Environment Day</p> <p>When and Where: June 5, Centre for Environment Education - CEE-West</p> <p>Time: 5 pm to 8 pm</p>	<h3>RUN AHMEDABAD RUN!</h3> <p>Participate in a green run to support environment conservation</p> <p>When and Where: June 5, Helmet Cross Road</p> <p>Time: 5:30 am</p>	<h3>PLANT TREES</h3> <p>Help plant saplings at places across the city</p> <p>When and Where: June 5, Shree Basaji Heritage Villa, Opp Divine Child International School</p>
<h3>INTERACTIVE SESSION</h3> <p>Attend a session by Phool Thel on World Environment Day</p> <p>When and Where: June 5, Ahmedabad Management Association, ATRIA campus</p> <p>Time: 10 am</p>		
<h3>ELOCUTION COMPETITION</h3> <p>Participate in an elocution competition on 'Single Trade in World'</p> <p>When and Where: June 5, Bhaloka</p>		

An eco-friendly nation



Members of the Indian Youth Climate network gather at the Teen Mantri Bhawan to prepare for their first ever event on May 28-29.

Indians top the list of environment-friendly people, survey says

Pallavi Palani
New Delhi, May 14

Last week, a survey published by the *Nation's Geographic* listed Indians to be among the most environment-friendly people. There is every good news. A well-informed network of young people in India is making sure we reach higher goals.

Part of a training programme conducted by Nobel Peace winners Al Gore and K.J. Pichauer in March, founder members of the Indian Youth Climate Network (IYCN) have very quickly created a culture that cuts across communities, youth organisations, environmental groups and cities.

The first major event since their launch — IYCN's Delhi South District on Climate (DYSC) — will be held on May 28 and 29, at Teen Mantri Bhawan. Eighty young people will come together to set the agenda on climate change for Delhi.

The DYSC is in association with United Level International's India chapter, Forum of Development, Research and Action, the USOC's Oceanic South Pacific, Education, Registration fees can be developed at sites.

"There has been no real 'India'

movement on the issue of climate change. When Kertikaya, a key member of IYCN, attended the UN Climate Change Conference in Delhi in December as part of a US youth delegation it was decided that there was no representation of the Indian youth at such an important conference," says Govind Singh, a PhD scholar at Delhi University's School of Environmental Studies.

"And so Kertikaya Singh, a Congress Member from US who is working on renewable energy resources in lights, and Govind structured this youth coalition."

"I want to create a platform for youth on the issue of climate change and make IYCN a national movement with a presence in every city. We want to generate ideas and solutions."

KARTIKAYA SINGH, IYCN founder

IYCN's members include Mumbai-based Delhi Climate — a movement for green ITs run by IIT alumni, Bangalore-based Global Citizens for Sustainable Development and Unleashed Rajasthani Society for Natural History.

Their partners are Department of Environment and Water Management, Azim Premji University, India, and Action for Food Production.

Delhi Climate with IYCN has started the first campus sustainability clubs this year, collecting carbon emissions.

"Strategic short, behavioural changes to students and the among the staff is vital. If you see a recycling bin, close it — it's so basic as that. We have been looking at how Harvard and MIT are doing in terms of developing green technology," said Abhishek Dandekar, an active member of Delhi Climate, which is currently looking 'green' alternatives to light IT campuses.

In Delhi, the DYSC works with 200 committed members, most of them young environment programme.

<http://www.indiayouthclimate.com>

Delhi's own 'Chipko' bid to stop tree massacre

By **Rishabh Arak**
of New Delhi

THE citizens' movement to protect trees in north Delhi is gaining momentum. Several



Locals and social organisations have come together to hold a campaign on the lines of Chipko movement to save 6,500 trees from being felled in the Capital.



PHOTO: ANAND KUMAR

Mangrove soldiers remove 95-tonne garbage in 91 weeks

SHERINE RAJ
Mumbai

'Mangrove soldiers' of Environment Life Foundation conducted a mangroves cleanup drive on Sunday near Nerul and Navi Mumbai, removing more than a tonne of garbage.

The NGO started cleaning the mangroves and creeks from Nerul to Belapur, Navi Mumbai on August 15, 2020 and has removed over 95 tonnes of non-degradable trash in 91 weeks without any break.

Environmentalist and founder of Environment Life Foundation, Dharmesh Barni said, "Cleaning of mangrove areas is a never-ending task, every week the same place gets filled with garbage again because of the waste coming from the creeks. But we keep cleaning it again and again. Now, it is yielding results as the ecosystem in these areas are reviving with crabs and other aquatic life flourishing again."

According to Dharmesh, the main source of garbage is the dumping of waste by slums and other areas into the water bodies. This garbage then flows and gets stuck within the roots of the mangroves. "This is the main cause of and needs to be rectified by spreading awareness among the people."

"Our team works from 7



am to 9 am every Sunday and removes trash, including medical waste, thousands of slippers, food waste, plastic waste, etc from the creek and mangrove forests with the huge support of Navi Mumbai Municipal Corporation (NMMC), Mangroves Foundation and various groups of volunteers from all over the city. This Sunday we collected around 1.5 tonnes of garbage with the participation of around 40 volunteers," added the environmentalist.

He added that the garbage collected by his NGO gets transferred by the NMMC in trucks to the dumping ground where the waste gets segregated and processed.

Dharmesh and his team also conduct a small session after every clean-up activity about mangroves and about the need for everyone to wake up and help restore mother nature.

The NGO welcomes new volunteers every week and interested can reach them on Instagram page @EnvironmentLife.

The background of the image is a dense, intricate maze pattern. The maze is composed of thick, light blue lines that form a complex network of paths and dead ends. The paths are set against a light grey background. The overall effect is a visually busy and challenging pattern.

A Maze

Word Search

D	B	I	O	D	I	V	E	R	S	I	T	Y
E	E	X	B	N	M	I	O	P	A	S	G	F
N	D	C	L	I	M	A	T	E	S	V	V	A
V	F	I	G	E	J	P	F	S	D	T	Y	S
I	P	W		F	H	R	W	F	O	R	I	S
R	O	A	A	K	M	A	G	A	Z	I	N	E
O	L	D	L	R	I	K	Q	U	O	W	O	Q
N	L	S	O	E	M	R	H	N	N	T	E	S
M	U	R	U	A	W	I	I	A	E	W	R	L
E	T	E	I	D	E	T	N	G	I	H	S	I
N	I	Q	S	F	R	I	L	G	O	F	I	U
T	O	T	F	L	O	R	A	I	L	C	W	P
A	N	R	T	H	C	S	D	E	R	T	I	O

- Pollution
- Warming
- Ozone
- Flora
- Fauna
- Biodiversity
- Environment
- Prakriti
- Climate
- Magazine

A close-up photograph of a green plant with numerous thin, needle-like leaves. The tips of the leaves are a bright yellow color, contrasting with the vibrant green of the rest of the foliage. The background is a soft, out-of-focus green, suggesting a natural, outdoor setting. The overall lighting is bright and natural, highlighting the texture and color of the plant.

**Thinking Globally,
Acting Locally**

Greening Activities

1. Van Mahotsava: The Eco-club of MIS is working proactively towards greening activities and planting saplings on a regular basis, especially flowering and fruit trees. As a result, our campus has a large green cover with a mix of medium and big trees, shrubs, creepers, climbers and herbs. In continuation with our valued traditions and sustained greening efforts, this year, the planting of trees was conducted in July and August to enhance the green cover. The total progressive status of the plantation is 35 trees, 175 shrubs and 77 herbs. The saplings included different varieties namely, Anjeer, Neem, Ashok, Bel, Oak, Mulberry, Amla, Ber, Cotton rose (Hibiscus variety) and Christmas tree (Araucaria).

2. Further enhancement of green cover for the campus beautification: A plantation drive was organised in the month of December 2021. With the active participation of students, the drive was conducted in a well-coordinated manner observing all the covid related protocols (including social distancing and wearing masks). The students planted approximately sixty saplings of Phlox and Gazania in various locations on the campus premises. They learnt about the selection of location, appropriate root depth, sunshade requirements, manure and nutrient requirements and appropriate distance for planting the saplings and enjoyed working so close to nature.

3. Growing Seasonal Vegetables Organically: Students were guided to develop organic kitchen garden. They learnt technicalities of distance and depth of sowing seeds, watering frequency etc. Students enthusiastically participated in planting brinjal, chilly, bottle guard, bhindi, pumpkin, and tomato plants.



Awareness Campaigns

1. Jal Hai Toh Kal Hai: The Environment Fest: SAMANVAY” was organised in August 2021 to spread awareness on water conservation, saving water bodies rainwater harvesting and water pollution. Various activities were conducted such as mono acting (One Nature, One Act), movie making (JalGyaan.mov), Poster making (Art in Nature) and choreography on saving water bodies (X-pressions)

2. Say No To Crackers (November 2021): An awareness drive and a special assembly were conducted before Diwali to give a vital message of sustainability and generate awareness about the afflicting effects of noise and air pollution. The message conveyed the alarming pollution levels in big cities including Delhi which is becoming a major concern for public health. The assembly was intended to make the students and everyone aware of the ill effects of the burning of crackers and fireworks. Poetry writing, poster making, role plays and a short skit by the students reminded all, of the responsibility of protecting mother nature. Young students portrayed various eco-friendly ways to celebrate Diwali and requested everyone to follow the same. The program was concluded with a pledge to celebrate a cracker-free Diwali.

3. Phasing Out Single Use Plastic on Earth Day-2022: On the occasion of Earth Day-2022, following the theme “Invest in our Planet”, the Environment Club of The Mother’s International School launched an awareness campaign against single use plastic titled as “Phasing Out Single Use Plastic”. Many activities have been conducted as a part of the campaign such as Pledge-taking by the students and teachers, Poster making, Slogan writing and Survey on the awareness of single-use plastic.

The activities are designed to serve the purpose of spreading awareness among a larger group of people and maximise their involvement in the movement against single-use plastic.

4. World Environment Day-2022

The Environment Club of The Mother's International School planned and organized several intraschool competitions around this year's theme "Only One Earth: Living Sustainably in Harmony with Nature". The events highlighted the necessity of safeguarding the diversity of living beings on Earth, while also protecting ecosystems and resources mother nature provides us with. It aimed at steering positive changes toward the environment and also urged people to protect it.



Projects Undertaken on Reduce, Reuse, Recycle

1. Vermicomposting - A Sustained Effort: The MIS Eco-Club started the project on Vermicomposting with the concept of converting organic kitchen waste into compost with the help of red worms (*Eisenia foetida*). Preparing the bedding for redworms, and understanding their dietary needs, moisture requirements and other protective measures were continued even during the pandemic afflicted year. Three well-prepared pits of 2'x3' with the arrangement of proper aeration and a shed witnessed an increasing number of red worms which were fed with vegetable peelings and other kitchen waste (approximately 2 to 3 kg per day) and the Eco-Club had three rich harvests during the year (approximately 500 kg).

2. Preparing Natural Cleaners- Bio-enzymes: Another project taken up by the Eco-club was to prepare Natural Cleaners: Bio-enzyme to promote sustainable practices and discourage toxic chemicals in household cleaning. Students had great experiential learning and gained insights on how these organic solutions, produced by fermentation of fruits, citrus peels, jaggery, yeast and water can help in removing stains and bad odours. Bio-enzymes can replace commercial cleaning products which contain toxic/hazardous chemicals. Students enthusiastically participated in preparing bio enzymes using citrus jaggery, citrus peels and water.

3. Book Collection Drive: The aim of this initiative is to generate a sense of responsibility in the students towards resource conservation and recycling, as well as, experience the joy of giving. This helped in creating a book bank where students could donate their old textbooks which are maintained in good condition. The students were encouraged to reuse the books and help in conserving resources. More than one thousand books were received and distributed as a part of the book collection drive this year.





Competitions

Participation in Competitions

“Your deepest roots are in nature”

Our eco-warriors participated in various inter-school competitions and won laurels for our school.

Our Eco-Orators

- ASN Senior Secondary School, Mayur Vihar organized Prakriti Vandana, a national-level Sanskrit shloka chanting competition based on the theme: Roots of Sustainability in Vedas. Dhruv Chhabra (VIII E) and Shambhavi Saraswat (VII D) participated in this event and bagged the first consolation prize.

Our Proficient Nature Artists

- In the Hindi Vigyapan Rachna Competition organised by DPS Dwarka on the theme - Save Environment, Niharika Sehgal of VIII E bagged the first position.
- In the Sanskrit Poster Making Competition - “ANKURAN” organised by DPS Dwarka, Dhruv Chhabra (VIII E), Shambhavi Saraswat (VII D) and Vedikka Chhabra (VI D) worked as a team and bagged the first prize.

Budding Environmentalists

- Shaina Bagaria (VIII C) and Shambhavi Saraswat (VII D) participated in the Wild Wisdom Quiz and qualified for the National Challenge.
- Under the initiative of 'Ek Bharat Shreshtha Bharat', students of Class VIII made posters and picture collage in Sanskrit depicting the culture of Sikkim and the various environment-friendly activities done by the state.
- Cambridge Foundation School organized 'Managing Microgreens', a Pan India Interschool Competition which emphasized the importance and health benefits of microgreens. Participants prepared healthy salad using the microgreens grown by them and were introduced to the nutrients derived from each microgreen. Vedansh Joshi (VII D) secured the second position in the event.
- In March 2022, Dhruv Chhabra and Pranav Kapoor of Class VIII, and Poorna Datta of Class VII participated in the Global Sustainability Champions program organised by a non-profit NGO EKonnnect Foundation, in association with Balmohan Vidyamandir School, Mumbai. The students got an opportunity to showcase their efforts in the area of sustainability besides getting prepared for a future where every aspect of life would require a sustainable approach.

Greenfo

Infographic Presentations

Please click the link for infographic presentations

<https://drive.google.com/drive/folders/19xORhnV-GwXaNd1RKHpLUZl8dB4ETMm?usp=sharing>

”Our biggest challenge in this new century is to take an idea that seems abstract – sustainable development – and turn it into reality for all the world’s people.”

Kofi Annan



Special thanks to

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