Volume - I 2019-20



ECOVISION



DEPARTMENT OF ENVIRONMENTAL STUDIES

MATA SUNDRI COLLEGE FOR WOMEN

UNIVERSITY OF DELHI, DELHI-110002

	INDEX
☐ FR	OM THE PRINCIPAL'S DESK
□ FR	OM THE COURSE COORDINATOR'S DESK
□ ED	ITORIAL BOARD
☐ ED	ITORIAL FROM THE CHIEF EDITOR'S DESK
□ МЕ	SSAGE FROM CO-EDITORS
□ STU	JDENT EDITORIAL
□ AB	OUT DEPARTMENT OF ENVIRONMENTAL STUDIES
□ ню	GHLIGHTS OF THE DEPARTMENT
□ STU	JDENT'S CORNER
	❖ POEM AND ARTICLES
	* ART WORK
	❖ BEST POSTERS MADE BY STUDENTS
	❖ WINNERS OF THE POSTER COMPETITION
7	

From the Principal's Desk

Greetings Readers!!

Ecovision, the first issue of annual emagazine of Environmental Studies department kindles the imagination of our learners. I congratulate all the editorial members for the release of the first issue of the magazine. I also congratulate all the students who used various medium of expression to present their notions. As long as our ideas are expressed and thoughts sparked we can be sure of knowledge, as everything begins with an idea.



Shri Guru Granth Sahib declares that the purpose of human beings is to achieve a heavenly state and to be in synchronization with the earth and all of God's creation. It seems, however, that humans have drifted away from that ideal. It is excruciating over the fate of its dwellers and their future. Earth is in jeopardy as never before as it's lakes and rivers are being polluted, killing its marine life; lands are degraded due to anthropogenic activities. A smoky haze cloaks the cities of the biosphere. This catastrophe screams out for an instant and vital solution. The catastrophe involves going back to the basic question of the purpose of human beings in this universe and an understanding of ourselves and God's creation.

We should show some responsibility towards creation and bear in mind the needs of future generations, as well as their own current needs. Students especially women can play very crucial role in spreading the environmental awareness primarily. I realized that to take a step to spread awareness about the environment, we need to brush the basics and have awareness with some motivation. People should know and understand the basics and complexities of the environment in a simple way.

This magazine is an effort by the Ecovision team to encourage and motivate students of "Mata Sundri College for Women" through various articles, highlights of the various departmental activities and will help in spread the importance of environment and its conservation. I believe that once the children are trained in small areas, they can make use of the experience in the long run to save the environment.

"Never doubt that a small group of thoughtful committed citizens can change the world; indeed, it is the only thing that ever has."—Margaret Mead

Be the change!

With sincere and warm regards.

Dr. Harpreet Kaur (Principal)

From the Course Coordinator's Desk

Heartiest Greetings!!

This is a wonderful effort by Dr. Uzma Nadeem and her team to bring together the college's environmental conscience in the form of an e-magazine. Each semester hundreds of students learn about the environment, it's on-going degradation and the need for its conservation in the AECC course 'Environmental Studies'. Not only does the course enhance their awareness about the environment and its importance, the field trip provides an opportunity to supplement their learning with a practical observation of the environment, aloof from urban influence. Each semester ends with a new environmental awareness among students.



With her commitment and dedication, Dr. Nadeem started on this journey of giving the Environmental Studies department its very own e-magazine. She selected students across courses and years, based on their capabilities to give shape to this idea. Continued efforts by her and her team have led today to the first edition of Ecovision – the aptly named e-magazine of the Department of Environmental Studies, Mata Sundri College for Women.

The e-magazine comprises articles and poems in Hindi and English along with artwork by students from different courses, on different themes related to the environment. The Ecovision team has beautifully brought together the students' views and expressions related to the environment. I applaud the efforts and hard work by Dr. Uzma Nadeem and her team members Dr. Kavita Singh, Mr. Sudhanshu Ranjan Jha, Ms. Angira Singh, Ms. Komal Kusum, Ms. Simpi Tiwari, and Ms. Diya in the making of the inaugural issue of this e-magazine. I congratulate them on the success of their efforts and extend my best wishes to the department.

May we be blessed with further edition of Ecovision in the future!

Dr. Jasjit Kaur

(Course Coordinator)

Department of Environmental Studies

EDITORIAL BOARD



Dr. Uzma Nadeem
Chief Editor
&
E-magazine Designer



Dr. Kavita Singh Co-Editor (English)



Sudhanshu Ranjan Jha Co-Editor (English)



Komal Kusum English Editor B.A. (P), 3rd Year



Simpi Tiwari Hindi Editor B.A. (H) History, 2nd Year



Diya Garg Hindi Typist B.Sc. (H) Computer Science, 2nd Year



Angira Singh Magazine Coordinator B.A. (P) 3rd Year

Editorial from the Chief Editor's Desk

Dear Readers!

"Progress is impossible without change, and those who cannot change their minds cannot change anything."

-George Bernard Shaw

We are delighted to present our inaugural issue of our annual emagazine "Ecovision" of Earthcon Society from the Department of Environmental Studies, Mata Sundri College for Women. The Ecovision team feels privileged in presenting this first issue.

The experts are suggesting that there is an important need to spread the awareness of environmental awareness among the student community. It is important to give the same momentum among colleges. This magazine is to be viewed as a launch pad for the young student's creative urges to blossom naturally. The enthusiastic write ups of our young writers hold the interest and admiration of the readers. This magazine is an attempt to make our budding talents give shape to their creativity. It gives me immense pleasure to ensure that this magazine has successfully accomplished its objective.



This magazine not only presents you writings and artwork by students from various courses and years, expressing their views and feelings towards the environment but also contains pictures and images within the pages that speak volumes about the enriching events held in the department throughout the year. This initiative is not only to encourage the student participants, but also to motivate them to raise environment awareness. This issue of Ecovision is dedicated to all the students who put their efforts and made all the events successful throughout the session. The editorial extends its heartfelt gratitude to our Principal **Prof. Harpreet Kaur** and course coordinator and inspiration **Dr. Jasjit Kaur** for the motivation and support.

Special appreciation to the teachers and students editors who have done their bit to give Ecovision to ensure that magazine will stay appealing and vibrant. We are sure that efforts exhibited by our young students will surely stir the mind of the readers. The reflection of the student's creativeness and triumph is the essence of the magazine. I take the opportunity to thank all the contributors as their contribution is the reason that makes this magazine endearing with our readers.

Enjoy the Gems of **Ecovision**!!

Dr. Uzma Nadeem

Chief Editor & Teacher In-Charge

Message from Co-Editors

It gives me immense pleasure to bring you the first issue of our departmental e-magazine. The name and fame of an institute depends on the caliber and achievements of the students and teachers. This magazine is the platform to exhibit the literary skills and innovative ideas of students along with our departmental activities at a glance.

I would like to place my gratitude and heartfelt thanks to all those who have contributed in this endeavour. Last but not the least; I am thankful to our Principal **Prof. Harpreet Kaur** and our mentor **Dr. Jasjit Kaur** for their support and encouragement. I truly, hope that the pages that follow will make an interesting read.



Dr. Kavita Singh

Assistant Professor

Department of Environmental Studies

I feel immense happiness in being a part of the first ever edition of this e-magazine published by the EVS department of our college. It is indeed a tremendous job worth appreciating. My special accolades go to all those who have worked behind the scene to complete this novel venture. I wish that this magazine will encourage our students to foster new ways of thinking and also help them in understanding the how's and why's involved in acting sustainably.

Sudhanshu Ranjan Jha Assistant Professor Department of Environmental Studies



in the best of the destablished by the state of the state

Student Editorial

Greetings Readers!

Welcome to the first issue of Ecovision, the e-magazine of Earthcon society from the Department of Environmental Studies, Mata Sundri College for Women. The environment plays a vital role in the sustenance of life on earth. On behalf of the Ecovision team, I gladly present you writings and artwork by students from various courses and years, expressing their views and feelings towards the environment.

The e-magazine you behold is ultimately a product of human intelligence, right from the idea to submissions to the final step. Intelligence is a boon which has brought us thus far on the road to progress with promises for more with time. Intelligence has enabled us to analyse our surroundings, develop an understanding of the environment, see how it has become vulnerable and come up with ways for its conservation.



Interestingly this very human intelligence which has shaped human life for millennia has turned out to be a curse for the environment. Right from the Neolithic age, when we started clearing land for farming, to the present day when each product that makes our lives easy requires a huge amount of resources for its production and marketing, we have exploited the environment to improve our lives. Human progress has come at the cost of the environment.

While we cannot change history, we can surely shape the future. We may not be able to change the path we have traversed, but we can certainly forge the path ahead in any direction. It is high time we pay attention to the environment and work towards conserving it. The pages ahead highlight a variety of environmental concerns and how we can contribute by doing our part.

Komal Kusum

Third year, B.A. (Prog)

DEPARTMENT OF ENVIRONMENTAL STUDIES

ABOUT THE DEPARTMENT

This department aims at imparting knowledge to undergraduates from all fields of study to help them understand and appreciate various concepts and issues about environment at local, regional and global levels. The course content and suggested readings draw heavily from ideas developed through interdisciplinary works, especially as the assessment includes a compulsory project to be done by every student. Apart from the projects a questionnaire-based survey was also conducted in order to investigate the students' environmental awareness and participation for the management of the environmental problems related to the college campus and their residential area.

EARTHCON SOCIETY

"Earthcon" is the Environment Awareness Society of the department of Environmental Studies. The mission of the society is to create awareness among the students and public about the various environmental threats and their consequences.

This society has been set up by the college to generate awareness about environment and sustainable ways of living. Its functions include educating the students, employees and faculty about environmental concerns. Also, it strives to find opportunities for eco-friendly waste management in the college premises.

A group of college students who are concerned about the environment works for this society. The society tries to run itself as a co-operative and try to encourage students as well as the College staff about the environment and its protection by different environmental awareness activities in the campus like competition, talks, campaign, nukkad natak etc to spread awareness among masses.

HIGHLIGHTS OF THE DEPARTMENT

(2019-2020)

WALL GRAFFITI

Students of the department participated in the Wall Graffiti event organised by Petroleum Conservation Research Association (PCRA) which is a nodal agency under Ministry of Petroleum & Natural Gas, Govt. of India. PCRA has adopted a school "Nagam Nigam Balika Intercollege" at Mahrolli in Ghaziabad under the Swachh Bharat Campaign in on 1st Aug' 2019. The main objective of the event was to raise awareness on "Fuel and Energy Conservation" among the students of the inter college.



YOUTH SUMMIT

Our students namely Suniti Sharma, Gurmehar Kaur & Pragya Sehgal won first prize in collage making competition among 27 participating college of Delhi/NCR. Students in the "Youth Summit" held at Apeejay School of Management, Dwarka on 30th August 2019. Students participated in power point presentation, poster making and collage making competition on the topics of sustainable development.



ENVIRONMENT FACT

We can save 75,000 trees if we recycled the paper used on the daily run of the New York Times alone.

PAPER PRESENTATION (ISSES-2019)

Students of environmental studies department presented their review research papers in the form of poster presentation in One day International Seminar on Science, Environment and Spirituality (ISSES 2019) held on 13th September 2019, organized by Eco-club, Shivaji College, and University of Delhi. Following students presented their research papers:

- ♣ Aastha Mendiratta, a review research paper on the title "Environmental Changes and Mental Deterioration".
- ➡ Dilpreet Kaur, a review research paper on the title "Spirituality and Its Relationship with Sustainable Development".



QUIZ CUM TALK & NUKKAD NATAK ON " OIL AND ENERGY CONSERVATION



A quiz cum talk and "Nukkad Natak" was successfully organised for our college students on 16th September 2019 on the topic "Oil & Energy Conservation" to spread awareness about Conservation activities in association with Petroleum Conservation Research Association (a nodal agency under Ministry of Petroleum & Natural Gas, Govt. of India). Lecture was delivered by Shri. Siddhartha Saran, Deputy Director of Delhi, NCR and opening notes was delivered by Shri. Naveen Gulati, Director & CRC (Northern Region), PCRA. Same event was covered on social networking sites of PCRA. The event was attended by 185 students of the

ENVIRONMENT FACT

In the last 170 years, we added 2.4 trillion tons of Carbon Dioxide into our atmosphere. Half of this was added in the last 35 to 50 years.





POSTER COMPETITION AND A WORKSHOP ON "WASTE MANAGEMENT"

A workshop on "Waste Management" in association with "Chintan" for our college students was held on 18th September 2019 to raise awareness for waste management in the college campus. The event was attended by students of the department. Total 63 students participated in the poster competition and 180 students attended the workshop.







ENVIRONMENT FACT

There is more water vapor in the atmosphere than all the combined rivers on the planet.





ECO-INNOVATION

Department of Environmental Studies organized a competition entitled "Eco-Innovation" (Conceptual model competition for countering environmental issues) on 25th February 2020 during the annual fest "Saarang", for all undergraduate students of Delhi University. The main objective of the event was to create awareness about the concept of sustainable development among the students.





ENVIRONMENT FACTS

Aluminum can be recycled continuously, as in forever. Recycling I aluminum can save enough energy to run our TVs for at least 3 hours. 80 trillion aluminum cans are used by humans every year.

A glass bottle made in our time will take more than 4,000 years to decompose.







FIELD EXCURSIONS









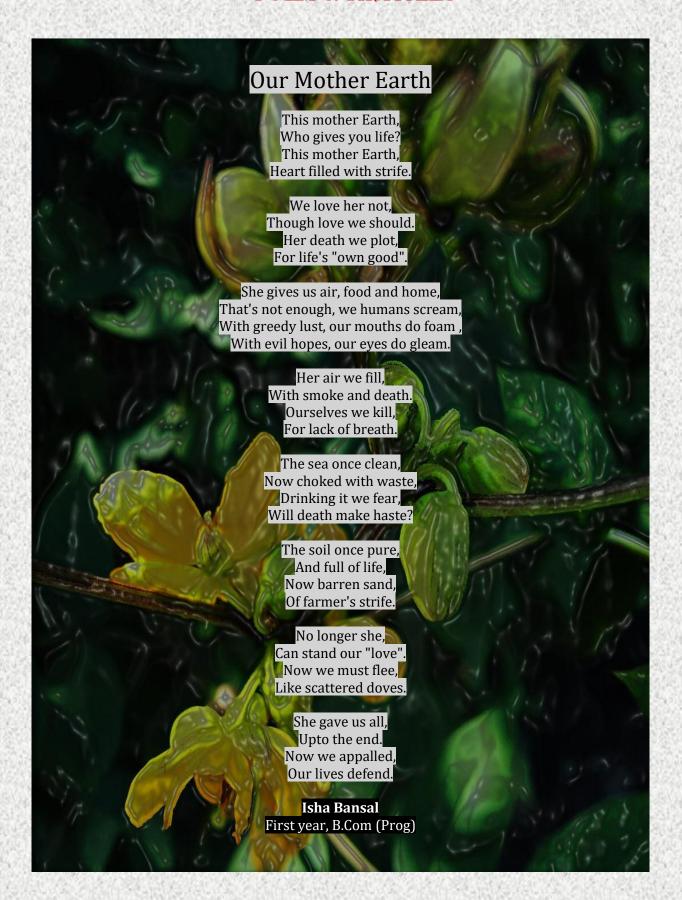




Field Excursions are organized where students are taken to Aravalli Biodiversity Park, Vasant Vihar, New Delhi and Yamuna Biodiversity Park, near Wazirabad, New Delhi where students are given special outdoor lectures by Principal Scientists and Nature education team officers. Students get enough opportunity to interact with the experts to Study of Different Ecosystems, Biodiversity analysis, Role in Pollution Control, Natural Resources, Population Explosion learn various ecological processes and services.

STUDENT'S CORNER

POEM & ARTICLES





Tell me you love me.

Not through slogans and rallies or empty pledges.

But with a small curtsy of doing justice.

Call me as all yours.

Though not without knowing the compassion of belongingness.

Shall I be of yours in whole essence?

Summon all peers of mankind.
Without breaking outrageous violence in the name of protection.
Even if it's a fight for the right visions.

Where doom awaits on each wrongful deal mistaken.

Never be fooled in escaping those future consequences.

Let me be the ambassador.

Promoting security for a future filled with uncertainties.

Technology, never a replacement to the mother environment.

For there might be no us to save us.
It would be a price too high for us.
An unpayable debt under our names in rust.

Ranjitha Rajesh Second year, B.A.(Prog)

ENVIRONMENT FACT



27,000 trees are cut down each day so we can have Toilet Paper



Groundwater: Not a Drop to Waste

"When the well is dry,

We will know the worth of water"

-Benjamin Franklin

India's groundwater usage is the highest in the world. Groundwater is one of the most important water sources in India as it accounts for 68% of all irrigation water and over 80% of rural and domestic water supplies. Groundwater supports the livelihoods of over 26 crore farmers and agricultural labourers. Wells (including dug wells, shallow tube wells and deep tube wells) provide roughly 61.6% of water for irrigation, followed by canals which provide another 24.5%.

Groundwater is depleting due to various factors, the prominent ones being frequent pumping of water from the ground without giving ample time for its replenishment, increased demand of water and limited surface water resources lead to exploitation of groundwater, water contamination as is case of pollution by landfills, septic tanks and overuse of fertilizers, subsidies on electricity and high MSP for water intensive crops, and inadequate regulation of groundwater extraction.

According to Niti Aayog, twenty-one Indian cities including Delhi, Chennai, and Bengaluru will run out of ground water in 2020. The Aayog's composite waste management index noted that "seventy- one percent of our water resources are contaminated." Several reports, including the Central Water Commission's "Water and Water Related Statistics 2019", have

highlighted the poor state of India's groundwater aquifers. If the current trends continue, in twenty years about 60% of India's aquifers will be in critical condition. These are clear signs of the devastating condition of water resources in India.

"Sooner or later everyone sits down to a banquet of consequences." So. consequences of groundwater depletion are adverse effect on food supply, groundwater depletion will force us to pump water from deeper within the earth and even more resources will be used to dig deeper, large bodies of water will become shallow from groundwater depletion, saltwater contamination of water bodies, and lack of groundwater will harm biodiversity.

"No one can go back and start a new beginning, but anyone can start today and make a new ending." We can take certain steps to conserve groundwater. An example is to use native plants in your landscape. They look great and don't need much water and fertilizers. Another is to use fewer chemicals around your home and yard. Don't dump them into the ground. Slight changes in our daily life such as shutting off the water while brushing and being constantly vigilant about leaks and promptly getting them fixed. There is a need to treat water as a common resource rather than private property to prevent overexploitation.

So, step forward to make a new ending.

Tanushree Singh

First year, B.A. (Hons.) Political Science

ENVIRONMENT FACT

Only 1% of our planet's water supply can be used. 97% is ocean water and 2% is frozen solid in the Arctic, for now.



In trees tall, in grasses small
In birds that fly, in insects that cry
In the sun so bright, in the clouds so light
In the animals that prowl and prance, in the wind that makes trees dance

All around us, in all that surrounds us We didn't find her, rather nature found us

The swish of the breeze as it passes the trees
The cries of insects, animals, and birds
Pitter-patter of raindrops as they fall onto the earth
Various sounds that by night and day are heard

Blue sky, yellow sun, and clouds that are white Green leaves, brown stems, and colourful flowers bright Trees, shrubs, insects, birds, and animals Of various colours, shapes, and sizes are visible

There is a lot that we cannot see, neither touch, hear, nor feel Much remains to be found, the boundaries of which know no bounds

Each thing discovered leads to scope for more

As we venture into the Unknown it grows and grows

To the left and right, in front and behind

It spreads far and wide

With immense depth and immense height

And boundaries that are infinite

And thus nature has two sides

One we see, hear, and feel The other, forever, to remain a mystery

Komal Kusum

Third year, B.A.(Prog)

Lifeline of Living Things

All living things that live on this earth come under the environment. Whether they live on land or in water, they are part of the environment. The environment includes air, water, sunlight, along with plants and animals. Moreover, the earth is the only planet in the universe known to support life. The environment can be understood as a blanket that keeps life on the planet safe and sound. But we can estimate some of its importance that can help us understand its crucially. It plays a vital role in keeping living things healthy. Likewise, it maintains the ecological balance that keeps check of life on earth. It provides food, shelter, air, and fulfils all the human needs whether big or small. Moreover, the entire life support of humans depends wholly on environmental factors. In addition, it also helps in maintaining various life cycles on earth. Most importantly, our environment is the source of natural beauty and is necessary for maintaining physical and mental health.

The environment gives us countless benefits that we can't repay our entire life. The forest and trees filter the air and absorb harmful gases. Plants purify water, reduce the chances of flooding, maintain natural balance and many others. Moreover, the environment keeps a close check on the planet's ecology and ecological processes. It regulates the vital systems essential for the ecosystem. The environment regulates various natural cycles which help in maintaining the natural balance between living things and

The non-living components of the environment. Disturbance in environment can ultimately affect the life cycle of humans and other living beings. The environment provides us with fertile land, water, air, livestock and many essential things for survival leading to flourishment of life.

Human activities are the major cause of environmental degradation because most of them harm the environment in some way. Humans have caused grave environmental degradation in the form of pollution, defective environmental policies, contamination with chemicals, emissions of greenhouse gases, global warming, ozone depletion, etc. The overuse of natural resources will create a situation in the future where there won't be any resources for consumption. And the most basic necessity of living, air will get so polluted that humans will have to use bottled oxygen for breathing. Above all, increasing human activity is exerting more pressure on the surface of the earth which is causing many disasters in an unnatural form. Also, we are using the natural resources at such a pace that within a few years they will vanish from the earth.

To conclude, we can say that it is the environment that is keeping us alive without which survival will be tough.

Sneha Deshwal

First year, B.A. (Hons.) English

ENVIRONMENT FACT

Our planet gains inhabitants numbering to 77 million people a year. An estimated 50,000 species inhabiting our tropical forests become extinct annually. That's an average of 137 species a day.

Chennai Water Crisis

"There is a water crisis today. But the crisis is not about having too little water to satisfy our needs.

It is a crisis of managing water so badly that billions of people - and the environment - suffer badly."

With these words I would like to start my piece. Water is the basic necessity of every human being. But water scarcity is a major issue that is rising very rapidly in modern-day India. In addition, water is one of the most misused commodities that we still waste. It is the central point of our lives but not the central point of our focus. The problem has become so severe that in many states' groundwater has almost dried up and people have to depend on water supply from other sources.

Tamil Nadu's state capital Chennai is facing severe water crisis due to lack of water governance. According to the Central Water Commission, there is a 41% rainfall deficit this year till mid-June. The city has four main reservoirs Poondi, Cholavaram, Puzhal and Sembarambakkam which are at a storage level of less than 1%. There is about 80% drop in frequency as well as quantity of water supplied to the households. That residents are now given minimum piped water and tanker supplies totalling a third of the installed capacity of 1,494 million litres a day, that too mainly from desalination plants, faraway lakes and farm wells, is proof of the neglect of water governance. Chennai's Information Technology corridor alone requires around 3 crore litres of water per day, only half of its requirement is being fulfilled at present.

There are multiple reasons behind the water crisis. The main is dying water bodies. Chennai and its adjoining district Kancheepuram and

Tiruvallur are together known as lake districts. These districts together had more than 6000 water bodies like lakes, ponds and reservoirs that maintained water table throughout the year. At present only 3896 water bodies have survived, Chennai city alone had lost 150 such water bodies. Another factor is the topography of the city. Chennai doesn't have a prominent river channel to feed its need. Anthropogenic factors play a major role in the crisis. Being an Industrial hub with multiple industrial corridors in and around the city, Chennai has failed to protect its water resources.

Keeping the reasons and the effects of the crisis in mind we should take small steps to prevent such situations. Some of the steps are sustainable water management, pollution control, sewage management; rainwater harvesting and recycled wastewater also allow reducing scarcity and easing pressures on groundwater and other natural water bodies. Groundwater recharge, that allows water moving from surface water to groundwater, is a well-known process to prevent water scarcity. Awareness and education regarding the crisis and steps we can take to curb it is the first step towards ensuring that future generations will have sufficient water to live.

Priya Tyagi

First Year, B. Sc. (Hons.) Mathematics

ENVIRONMENT FACT

Rainforests are cut down at a rate of 100 acres per minute.

Can We Say No To Plastics?

The word plastic is derived from the Greek word plastikos meaning "capable of being shaped or molded". Much like its nature, plastic has molded the entire world from the smallest things like lunch boxes and earplugs, to big machines, and now plastics are everywhere.

Thermoplastics are the plastics that, when heated, do not undergo chemical change in their composition and so can be molded again and again. Thermosetting polymers, can melt and take shape only once: after they have solidified, they stay solid. In the thermosetting process, a chemical reaction occurs which is, by its nature, irreversible. Evidently, plastics have entered our homes and lives in even the smallest possible commodity. Plastics are water proof and thus make ideal materials for objects of daily use, packaging and transport. Not just this, plastics have also entered places where they don't belong for instance, in food, fodder and even in oceans. Animals, both on land and in water are choking on plastic waste. Pure plastics have low toxicity due to their insolubility in water and because they are biochemically inert, due to their large molecular weight. Plastic products contain a variety of additives, some of which can be toxic. Being non-biodegradable, plastic is piling up like a mountain of toxicity. We are well informed about the harm caused by plastics to the environment. And so, every other summit or conference concerning the same states one idea: SAY NO TO PLASTICS. But is it that easy?

We are aware of how highly we are dependent on plastics. Apart from daily use, plastics are of great economic value. The Indian plastics market is comprised of around 25,000 companies and employs 3 million people. The domestic capacity for polymer production was 5.72m tons in 2009. The State of Gujarat in Western India is the leading plastics processing hub and accounts for the largest number of plastics manufacturers, with over 5,000 plastics firms. India is a developing country. The growth of our industries is important to us. An abrupt ban on plastics will

have numerous consequences which we may generally fail to think about. Such a ban would shut down many factories and companies, taking away thousands of jobs. The dilemma thus remains. A country like ours, requires a growing industry but not at the cost of our environment. What can be done?

Instead of putting an abrupt ban on plastics, it would be beneficial if we dispose them in a smart and efficient manner. For instance, in the south of India, most service lanes are made up of concrete mixed with plastic. Having a strong resistance to water, plastic makes the roads perfect for areas with high rainfall. Thus, making the roads durable. Such ways of efficient disposal of plastics will help decrease the amount of piling plastic waste. Moreover, as far as the industries are concerned, recent researchers have found ways to produce biodegradable plastics. Biodegradable plastics are plastics that degrade, or break down, upon exposure to: sunlight or ultra-violet radiation, water or dampness, bacteria, enzymes or wind abrasion. In some instances, rodent, pest, or insect attack can also be considered as forms biodegradation or environmental degradation. Some modes of degradation require that the plastic be exposed at the surface (aerobic), whereas other modes will only be effective if certain conditions exist in landfill or composting systems (anaerobic). Some companies produce biodegradable additives, to enhance biodegradation. Plastic can have starch powder added as a filler to allow it to degrade more easily, but this still does not lead to the complete breaking down of the plastic. Some researchers have genetically engineered bacteria to synthesize completely biodegradable plastics, such as Biopol; however, these are expensive.

We, for one, can make efforts to decrease our dependence on plastics, and be careful with how we dispose them. When we complain about a cow eating plastic, we need to remember that we're the ones who put it there.

Adhya Joshi; First year, B.A. (Hons.)Philosophy

Sand Clock of Existence

In the era of modern technology and innovations, we are struggling to keep the fundamental balance of our planet intact. Human actions and intentions indirectly direct towards the loss of uncountable innocent lives every year. From wildfires in the Amazon and Australia to the rising sea level in Antarctica, we are collectively facing the biggest issue in the history of humanity as it threatens our basic existence. There has always been a constant lack of awareness and responsibility towards our duty for earth and together we lead to the doomsday. Despite all the time that has lapsed in the sand clock of existence, there is always a hope to turn it around. Respecting the efforts made by multiple diversified organizations, governments and activists over the past years for reckoning the responsibility of humans. The Millennial development goals by the United Nations Organisation, being one of the many policies made, becomes the most reliant and effective measure. It is time, we direct our domestic policies and technological advancements towards the environmental issues faced every second that goes by. We have to start acting now before it's too late.

Ekisha Mehrotra First Year, B.A. (Prog)





ENVIRONMENT FACT

The world's oldest trees are more than 4,600 years old.

મેં મામ મામ મામ મામ માત્ર માં માત્ર મા

LATENT MESSAGE

Buildings, roads, electronic devices, poles, vehicles
Signs of progress we see all around us
A reminder of how far we have come
A souvenir of what all we have done
An indicator of the distance we have travelled
A mark of the secrets we have unravelled
An inspiration to move forward
To work harder and build something better
To find out more and use it to improve our lives
And let the things of today be added to our archives

They also give a latent message, a warning we don't see
A warning crucial to all of humanity, not just you or me
They symbolise the resources we have carelessly used
With no thought about whether they renew
A reminder of all that we have destroyed
And nature that we continue to exploit
An indication of the cost of our progress
The downside of the road on which we tread
The signs of this warning have started to spread
It is high time we changed our ways
Or we'll become part of bygone days

Komal Kusum,

Third year, B.A. (Prog)

ENVIRONMENT FACT

Our oceans have an average depth of 12,400 feet. This means that most of the living things on our planet live in total darkness

Protect the Ozone Layer - The Mission Goes On

"Earth without ozone is like a house without roof."

Ozone (O_3) is a natural gas, an allotrope of oxygen (O_2) consisting of 3 atoms of oxygen (O_2+O) bound together in a non-linear bond. These O_3 molecules form the ozone layer. The Ozone Layer absorbs 97-99% of Sun's UV light and maintains the ozone-oxygen cycle. It is harmful at ground level (troposphere) but in stratosphere, it plays a vital role in the protection of all living creatures by preventing the harmful ultraviolet radiations from entering into the troposphere.

"Act as a whole to prevent the hole."

A UN Study "Scientific Assessment of Ozone Depletion: 2018" has shown that the ozone layer is recovering at a rate of 1-3% per decade. The "1985, Vienna Convention for the Protection of Ozone Layer" was an international agreement in which UN members recognized the importance of the stratospheric ozone layer. "1987, The Montreal Protocol", stipulates that, production and consumption of compounds that deplete the ozone in the stratosphere – (CFCs, Halons, CCl₄) is to be phased out by 2000 and that of methyl chloroform by 2005 as they deplete the stratospheric ozone layer which shields the planet from detrimental UV-B radiations from the sun. China has been illegally emitting CFC-11; the banned ozone depleting chemical – according to the Research published in the Journal 'Nature' recently. The adoption of "2016 Kigali Amendment" to the Montreal Protocol will phase down the production and consumption of some HFCs (hydro-fluoro carbons) and avoid much of the projected global temperature increase and associated climate change. "The goal is to achieve 80% reduction in HFC consumption by 2047."

"Every ozone hole is a threat to our soul."

Decrease in the quantity of ozone tends to increase the penetration of solar UV-B radiation into the Earth's lower atmosphere; it leads to eye diseases, skin cancer, infectious diseases; affects the psychological and development processes of plants; changes the composition of forest and grassland species; affects both orientation mechanism and motility in phytoplankton resulting in reduced survival rates among them; decreases reproductive capacity and impair larval development of aquatic ecosystem; affects terrestrial and aquatic biogeochemical cycles; causes mutation to occur in the genetic material of organisms.

Focusing upon the recent condition, the Antarctic Ozone hole is recovering; severe ozone depletion in the polar region has been avoided despite the increase in global total emission of CFC-11; Northern hemisphere and polar region are scheduled to heal completely by 2030s, 2050s and 2060s respectively.

India is the first country in the world to develop a document on a cooling action plan. India has been on the forefront in promoting global efforts to prevent depletion of the Ozone layer. India signed and ratified the "Vienna Convention for the Protection of Ozone layer in 1991" and the "Montreal Protocol on substance that deplete the Ozone layer in 1992." On Oct 15, 2016, with the US leadership, 197 countries including India adopted Kigali amendment. India announced to freeze the consumption of HFC in 2028. "ODS phase out programme" got successfully implemented in the country. Initiatives are being undertaken for up scaling of one lakh refrigeration and air conditioning servicing technicians in collaboration with "Ministry of skill development and Entrepreneurship" under Pradhan Mantri Kaushal Vikas Yojana – Skill India Mission.

The integration of topics on HCFC phase out and energy efficiency in architectural curriculum will help the future architects to introduce energy efficient and ozone friendly materials in the construction of buildings. This will help not only in protection of the ozone layer, but also reduce energy consumption in the building sector, which is one of the significant consumers of electricity in urban areas. With such kind of initiatives to protect ozone layer, The Mission Goes On Last, but not the least we must "Get into the ZONE to protect the OZONE."

Mansi Jain

Second year, B.A. (Hons.) Political Science

"पर्यावरण बचाना है"

खतरे में है वन जीवन।

बचाओ पर्यावरण।।

वन में रहते जीव है कभी न उन्हें सताओ।

पर्यावरण बचाओ कई बीमारियाँ भगाओ।।

मिट्टी; जल; वायु; सभी प्रदूषित है यही मनुष्य ने किया है।

बचाओ पर्यावरण यही समय कोई मांग है।।

खतरों में न डालो अपना व भविष्य की पीढ़ी का जीवन पेड़ न काटो।

पर्यावरण से तो है मनुष्य का जीवन।।

वन बहुत कीमती है बसते है वहा जीवन है, उन्हें न उजाड़ते है।

पर्यावरण को स्वच्छ बनाते है।।

किया मनुष्य ने अपनी सारी जरूरतों को पूरा है।

हुआ प्रदूषित पर्यावरण सारा है।।

प्रदूषण दूर भगाना है।

पर्यावरण बचाना है।।

Sangam

Third year, B.A. (Hons.) Political Science

ENVIRONMENT FACT

Landfills are composed of 35% packaging materials

धरती की अब यही पुकार, प्लास्टिक मुक्त करो हर हाल। नहीं फ़ैंकना नदी में कड़ा।

पेड़ नष्ट हो रहे है सब।

ENVIRONMENT FACT

विधि द्विति नी केरती है। दिन किरिता किरिता किरिता किरिता किरिता किरिता केरती है। grade and goes back to nature. It

"प्रकृति"

ये प्रकृति शायद कुछ कहना चाहती है हमसे, ये धूआँ भरी हवाओं की सरसराहट, ये कटते पेड़ों की घबराहट, ये समुंदर की लहरों से प्लास्टिक का शोर, ये केमिकल की बारिश से परेशान मोर, कुछ कहना चाहते है हमसे, ये प्रकृति शायद कुछ कहना चाहती है हमसे।। ये ढलती चाँदनी रात. ये तारों की झिलमिलाती बरसात, ये मुरझाए हुए सुंदर फूल, ये उड़ती हुई धूल, कुछ कहना चाहते है हमसे, ये प्रकृति शायद कुछ कहना चाहती है हमसे।। ये नदियों के पानी का कचरा, ये मौसम के बिगड़ते हालात, ये पर्वत की पिघलती चोटियाँ. कुछ कहना चाहते है हमसे, ये प्रकृति शायद कुछ कहना चाहती है हमसे।। अब तो ठहर जाओ, खुद में बदलाव लाओ, अब तो समझो प्रकृति के इस इशारे को, ये प्रकृति शायद कुछ कहना चाहती है हमसे।। ये प्रकृति शायद कुछ कहना चाहती है हमसे।।

Sneha Deshwal

First Year, B.A. (Hons.) English

ENVIRONMENT FACT

The Ozone Layer "Hole" which is 29 million square kilometers is expected to be fully healed in the next 55 years. This is due to the worldwide banning of chlorofluorocarbon and hydro fluorocarbon.

.म्यता औ

प्लास्किक प्रान्त जीवन का अहम दिस्सा बन नुका है। प्लास्किक का आविकार लगभग 1997 में हुआ वक्सो मनुष्य इस पर अधित होते गए। पिछली कई मताब्री में प्लास्किक ने इंसान की कई तरह ये लाभ पहुंचाया है तो वई सर्वों पर बेहद नुकरान भी पहाचा है। युक्त इस प्रान्त पहुंचाया तो जात तो स्वास्किक ते कर वह नुकरान भी पहाचा है। युक्त अंतर वालास्किक के की की अभिने के प्रमाण किया तो प्रान्त के सर्वों पर बेहद नुकरान भी पहाचा है। युक्त और परला ईको है, इसिए मानव इसकी और स्वासा कर लोग तो प्रान्त के प्रमुंत के प्रान्त की स्वास है। अपन की स्वास के प्रमुंत परला की है, इसिए मानव इसकी और स्वास की है। सहस्क मानव पाँच में से पर हिस्स को ही स्वासीकी के अनुसार साधारण प्राविद्ध को सर्दित के स्वास के स्वस की ही स्वासीकी के अनुसार साधारण प्राविद्ध के सर्दित में में में स्वस की ही स्वासीकी के अनुसार साधारण प्राविद्ध के मानव में से पर है। अपन के कारण असमा इस्से मानव से से पर नहीं है। से से कारण असमा मानव पाँच में से पर हिस्से को ही साधीकी की अनुसार मानव की से स्वस न रहे हैं। इसके अतिरक्त सम्झ मानव पाँच में से पर हिस्से को ही साधीकीयों है। साधा के स्वस की साधी के अनुसार मानव की साधा के स्वस की साधा की साधा के स्वस की साधा की साधा के स्वस की साधा है। युक्त की साधा है से साधा की साधा की साधा की साधा की साधा की साधा है। युक्त है साधा है से साधा की साधा है। युक्त है साधा है से साधा की साधा है। युक्त है साधा है साधा की साधा है। युक्त है साधा है साधा है। युक्त है साधा है साधा है। युक्त है साधा है से साधा की साधा है। युक्त है साधा की साधा की साधा है। युक्त साधा है साधा की साधा है। युक्त है साधा है साधा है साधा है साधा है। साधा की साधा है साधा की साधा है। युक्त साधा है साधा की साधा है। युक्त साधा है साधा है साधा है। युक्त साधा है साधा है साधा है साधा है। युक्त साधा है साधा है साधा है साधा है। युक्त साधा है साधा है साधा है साधा है। युक्त साधा है साधा है साधा है साधा है साधा है। युक्त साधा है साधा है साधा है साधा है। युक्त साधा है साधा है साधा है। युक्त साधा है साधा है साधा है साधा है। युक्त साधा है साधा है साधा है साधा है। युक्त साधा है स

बात ये भी अंजान हैं कि शहरी क्षेत्रों की प्रकृति मनव खायराय और खुशहराती के लिए कितनी महत्वपूर्ण है। शहरी योजनाकार आर्किटेक्ट्स और बिरुद्ध हैं होता है जो करते हैं। यूसरी और परिशिक्षिकाय सकरों को की बिरुद्ध होता है। हैं होता है जो की की कित करते हैं। यूसरी और परिशिक्षिकाय सकरों के की बिरिद्ध होता है। होता है जो की की है। है हिस रे की जी की है। शहरी में की होता है। होता है जो की की है। शहरी में उत्तर है। यूसरी और परिशिक्षिकाय सकरों की मुश्किक का काफी महत्वपूर्ण है जो है। होता है जो की की है। शहरी में रहने वाले बन से की वालीवारी की कर रहर रहकर का मानिक का वालीवार है। वाले में से प्रकृति की है। होता है। होता है। यूसरी हो है। होता है। होता है। होता है। शहरी में रहने वाले बन से की वालीवारी की कर रहर रहकर का सानिक का वालावार हो हो है। होता होता है। होता होता है। हो। होता है। होता है

Natasha

Second Year, B.A. (Hons.) History

ENVIRONMENT FACT

25% of the bottled water you buy is really municipal tap water.



The painting symbolizes mother earth's face which is blue yet cracked indicating that greenery on earth is declining due to indiscriminate deforestation and some places are experiencing droughts while others floods as serious repercussions.

Gursheel Kaur First Year, B.A. (Hons.) Psychology The painting showcases
the two sides of our
earth; one side depicts
the green and happy
earth whereas the other
side shows the
devastated and sad earth
after the deforestation.

Shweta Sharma

First Year, B.A. (Prog.)

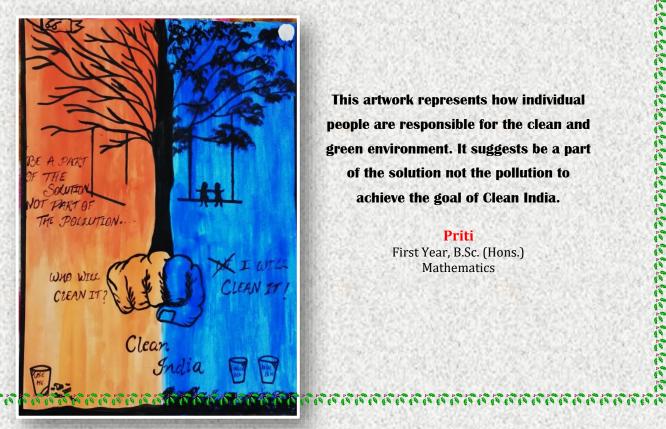


This artwork shows that how deforestation is related to other life forms and cutting one tree will cost the death of thousands of life forms.

Chetna

First Year, B.Sc. (Hons.) **Mathematics**



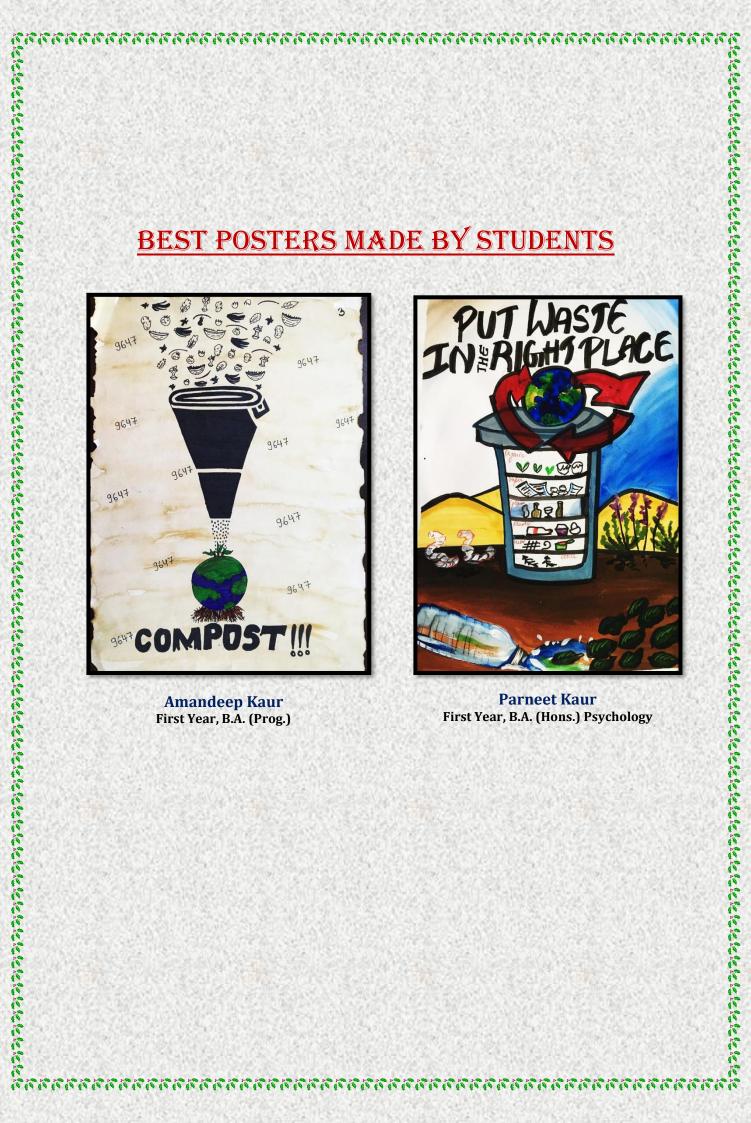


This artwork represents how individual people are responsible for the clean and green environment. It suggests be a part of the solution not the pollution to achieve the goal of Clean India.

Priti

First Year, B.Sc. (Hons.) **Mathematics**

રા રા રા રા રા રા રા રા રા કા રા કા કા કા કા કા કા કા













g.)

WINNERS OF THE POSTER COMPETITION



First Prize
PARNEET KAUR
First Year, B.A. (Hons.)
Psychology



Second Prize MEGHA RAWAT First Year, B.Com. (Prog.)



ZUHA ZAKI
First Year, B.A.(Hons.)
Political Science



Third Prize
DASHMEET KAUR
Third Year, B.Com. (Hons.)



Consolation Prize
PRATIBHA KASHYAP
Third Year, B.A. (Hons.)
Political Science

