

Jesus and Mary College

University of Delhi
Chanakyapuri, New Delhi - 110021

Accredited by NAAC with "A" Grade



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JESUS AND MARY COLLEGE

UNIVERSITY OF DELHI

SUPPORTING DOCUMENT FOR 7.2.1

BEST PRACTICE

**“The Gift of Green”:
Towards Building a Sustainable
and Clean College Campus**



This document contains information regarding the following green initiatives:

- 1. Reports of Green Society 2020-21**
- 2. Reports of Enactus JMC 2020-21**
- 3. Green Cover in college**
- 4. Biodiversity in college:**
 - a. Bird Count**
 - b. Dogs in JMC**
- 6. Plastic-free campus**
- 7. Solar Energy**
- 8. Rain Water Harvesting**
- 9. Waste Water Recycling**
- 10. Restricted entry of automobiles**
- 11. Pedestrian-friendly pathways**
- 12. Efforts made to celebrate and spread awareness about nature & bio-diversity.**
- 13. Future Green Initiatives**



STUDENT SOCIETIES DEDICATED TO GREEN INITIATIVES AND SUSTAINABLE LIVING

GREEN SOCIETY REPORT: 2020-21

SESSION 2020-2021		
S.No.	Event/Initiative	Date
1.	Annual Society Council Elections	July 2020
2.	Society Orientation	12 th August 2020
3.	Social Media Campaign	11 th – 15 th August 2020
4.	Inter College Debate Competition	31 st August 2020
5.	BagIt Cycle 1 Anti Plastic Campaign	11 th - 26 th September 2020
6.	Global Digital Climate Strike	25 th September 2020
7.	Inter College Essay Writing Competition	30 th September 2020
8.	Paint Blue Campaign, in collaboration with Enactus JMC – Project Iffat	3 rd October 2020
9.	Food For Thought Campaign	17 th – 21 st October 2020
10.	Inter-School Poster Making and Slogan Writing Competition	26 th October 2020
11.	BagIt Cycle 2 Anti Plastic Campaign	11 th – 26 th October 2020
12.	Constitution Day Webinar	25 th November 2020
13.	BagIt Cycle 3 Anti Plastic Campaign	11 th – 26 th November 2020
14.	Webinar on Sustainable Menstrual Practices	25 th February 2021
15.	BagIt Cycle 4 Anti Plastic Campaign	18 th – 28 th February 2021
16.	Waste Segregation Workshop	3 rd March 2021
17.	A Talk on 'Are we being Smart with Water?'	17 th March 2021
18.	Webinar on Global Warming & Climate Change	16 th April 2021
19.	Webinar on Noise Pollution	28 th April 2021
20.	Plastic-Usage Survey	2021
21.	Terra - Green Society Magazine 1st Issue	2021
	Number of Events	21
	Number of Members	518



2020-2021

Orientation - 12th August 2020

The Green Society of Jesus and Mary College officially began the new academic session of 2020-21 by organizing its annual orientation, welcoming potential members interested in being a part of the society. The event, hosted by the society's President, Ananya Kaushal and Vice President, Manishika Pawaiia, aimed at familiarizing the new members with certain basic rules and regulations of the society.

With the aid of a PowerPoint presentation, students present were made aware of the society's agenda for the coming year, as well as their structural functioning and upcoming campaigns.

With an overall presence of above ninety students, the orientation had a great turnout. Post the formal orientation, the official registrations for joining the Green Society (2020-21) were opened.

Social Media Campaign during Independence Day Week - 11 - 15th August 2020

The Green Society of Jesus and Mary College on the occasion of Independence Day celebrated 'INDEPENDENCE DAY WEEK' by showing their full support to the call of the Department of Environment, Government of NCT of Delhi, to ban the production, sale and use of 'Chinese Manja', along with other synthetic manjas with a metallic or glass coating. Coated manjas not only cause pollution but also pose a threat to the lives of the workers involved.

The Green Society took up social media platforms to celebrate the essence of Independence Day. The society uploaded five posts from 11th August to 15th August, bringing attention to the dangers caused by synthetic threads used to fly kites, to the lives of people, birds and the environment. Society encouraged the use of **cotton threads** instead, as they are bio-degradable and non-hazardous.

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Inter-College Debate Competition - 31st August 2020

The Green Society of Jesus and Mary College organized its first competitive event for the academic session of 2020-21, an Inter-College Debate Competition, on 31st August 2020 via Google Meet. The event was held as part of one of the society's campaigns of Constitution Day, with the agenda being "Should the Indian Constitution impose a joint responsibility on the State and the Citizen to protect and improve the Natural Environment?"

With well over thirty participants from different colleges across Delhi, the event showcased a variety of perspectives of Indian youth on the given agenda which were both interesting, as well as enriching for all.

The judges for the debate competition were Mr. Bharat Chugh, Advocate, Supreme Court of India & Former Judge and Prof. Satish C. Shastri, Dean, Faculty of Law, Mody University of Science and Technology. Well versed with law-making policies and the overall theme of Green Society's event, the judges shared their personal experiences in the fields of law and environment. The event, attended by the faculty and students of Jesus and Mary College, was a big success. The winners of the competition were Mr. Jagannath Jha from St. Stephens College and Ms. Ishani Mukherjee from Jesus and Mary College.

Global Digital Climate Strike - 25th September 2020

The Green Society, Jesus and Mary College encouraged all its members and other college students to join the **Global Digital Climate Strike** held on 25th September 2020. It was a strike in solidarity with MAPA (Most Affected People and Areas), the areas that were colonised and historically marginalised in the globe.

It was a strike against Climate Injustice that demanded immediate climate action and justice, which was led by various youth activists. The Green Society members showed support to this strike by uploading stories on the social media handles of their two fists put together, to symbolize that they won't be prisoners to injustice.

Inter-College Essay Writing Competition - 30th September 2020

The Green Society of Jesus and Mary College organized a competitive event, an Inter-College Essay Writing Competition held under the Constitution Day Campaign, with the topic being **"Increased Role of People and Civic Society in Arresting Climate Change"**.

With a great number of participants from different colleges across Delhi, the event showcased a variety of thoughts and perspectives that today's youth have on the given topic, which were quite enlightening and interesting. The write-ups were assessed on the basis of Content, Research, Structure and Language.

The winner of the Competition was Ms. Ravina Thomas.

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Paint Blue Campaign in collaboration with Enactus, JMC, Project Iffat - 3rd October 2020

The Green Society of Jesus and Mary College collaborated with ENACTUS JMC to show support for their campaign "PAINT BLUE" as part of Project Iffat's initiative under Daan Utsav- The Festival of Giving. The purpose of this campaign was to provide handmade soaps to those in need, encouraging them to wash hands and promote sanitation & hygiene.

All one had to do was paint their hands blue and click a picture of the same. Then all had to post this picture and tag @enactus_jmc, @projectiffat and @daanutsav. For every picture uploaded, a pack of handmade soaps was provided by members of Project Iffat to people in need, for promoting the washing of hands.

Our society altogether received 120 + entries and came together to show their support for the cause.

Food for Thought Campaign - 17-21 October 2020

The Green Society collaborated with the Department of Sociology, Jesus and Mary College in support of their campaign "Food for Thought". This campaign was a part of their campaign week that also concentrated on World Food Day and Poverty Day. The social media campaign that was supported by the Green Society was started to create awareness about wastage of food and how this wastage can be one of the major reasons for Climate Change.

To support this campaign, posters and stories were uploaded on the society's social media handles. These posters and stories contained information about the harmful effects of food wastage on the climate and encouraged people to not waste food.

Inter-School Poster Making and Slogan Writing Competition - 26th October 2020

The Green Society conducted an Inter-School Poster Making and Slogan Writing Competition under the Constitution Day Campaign. The event saw 150 entries from schools all across the nation. The Poster Making Competition themed "Fundamental Duties" was open for students of Grade 6-8. The Slogan Writing Competition required students of Class 9-12 to send in their entries on the topic - "Gender Equality." The event was sponsored by Zerowasteshop India. Raghavi Agarwal and Shreshtha Agarwal were the winners of the Poster Making and Slogan Writing Competition, respectively. While the Runner Ups for the same were Maria Alam and Tanu Patel. They were awarded Gift Vouchers by our sponsor.



Constitution Day Webinar - 25th November 2020

The Green Society of Jesus and Mary College hosted a webinar in alignment with the Constitution Day Campaign on 25th November 2020, Wednesday with our speakers Bipasha Rosy Lakra Ma'am, Anamika Asthana Ma'am, and Meera Gopakumar Ma'am, Assistant Professors from the Department of Political Science via Google Meet.

The event started with the formal introduction to our speaker, then ma'am extensively gave us interesting insights and tenets about our Indian Constitution, it's history and the significance of Fundamental Rights, briefly touching upon the articles.

The three teachers covered various important aspects of the constitution including Articles from Part 3 of the Indian Constitution, Freedom of Speech and expression, Fundamental Rights and Directive Principles to over 300 students in attendance.

It was a very thought-provoking and intriguing session. After that, students posed questions about the same, and we got to know varied perspectives. The event ended with a vote of thanks by our Vice President, Manishika Pawaia.

Sustainable Menstrual Practices - 25th February 2021

The Green Society, Jesus and Mary College collaborated with 'Greensphere - Eco Club of Indira Gandhi Delhi Technical University for Women' for a discussion on Sustainable Menstrual Practices and to support their campaign 'Project Echo'.

Aiming towards having an interactive session, few games like guessing the word, sharing experiences, etc. were included in the session. Audiences were made aware of the cost efficiency and the environmental friendliness of menstrual cups and organic pads, the brands supplying these products and also the health-related benefits they have. To sum it all, the session was an awakening call for all with regards to the usage of sustainable menstrual products.



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Webinar on Global Warming, Climate Change and Our Steps Towards a Better and Sustainable Future - 16th April 2021

The Green Society of Jesus and Mary College conducted a workshop in collaboration with ExploreIT on 16th April 2021 via Microsoft Teams. The objective of the webinar was to raise cognisance among the participants about global warming, its ramifications on the climate and the measures in which we can create a better future for all by walking on the path of sustainable development. ExploreIT is an organisation that champions environmental sustainability and works towards creating change leaders who will further advance this cause.

Mr Shivam Singh, the founder of ExploreIT, enlightened the audience about the origins of global warming. Expounding the lack of empathetic relationship between Earth and its inhabitants, the speaker talked about the catastrophic activities of human beings that are causing more disasters than ever.

Attended by more than 130 students, the webinar also brought to light the transformative capabilities of our generation. This was supported by examples of the increased use of solar and wind energy in the last year alone as well as the conditions of the Paris Agreement that aims to reduce global greenhouse gas emissions.

The session illuminated the people about the importance of individual action. It provided them with a stimulus to ponder upon their carbon footprints and minimise the same.

Webinar on Noise Pollution - 28 April 2021

The Green Society of Jesus and Mary College conducted a webinar on the adverse impact of noise pollution on our environment in collaboration with volunteers from Miranda House, University of Delhi. The aim of the one-hour long session, including an interactive Q&A round, was to enlighten the members of the green society about noise pollution; how common it is, what causes it, the impact it may have on us and the natural order of the environment, and potential ways to control it.



Plastic - Usage Survey - 2021

As part of our Anti-Plastic campaign, we wanted to understand our waste disposal systems and practices and segregation in various localities and an idea of individual plastic consumption for statistical purposes.

Hence, we surveyed via a questionnaire on google form and circulated it to maximum people we could reach using social media platforms. We got a total of 204 responses. Moreover, the age ranges were from 16 to 51. The study was pan-India. A detailed report has been published

Terra - Green Society Magazine 1st Issue

We formulated the first edition of our magazine - Terra. With our President, Ananya Kaushal as the Editor-in-Chief, the magazine features poems, quizzes and thought-provoking articles. A photo essay called "JMC through the Seasons" showcases the beautiful campus as photographed by the members of our society. The Magazine is set to release in Autumn 2021.





BagIt, JMC - Anti Plastic Campaign

About the Campaign

The Green Society started an at-Home Plastic Collection Drive in which members, other college students and the general audience were encouraged to replace plastic with other environment-friendly materials.

Students were also asked to segregate and collect plastic over the course of fifteen days. Guidelines were provided to students about how to segregate plastic and what can be used instead. An Instagram hashtag was also introduced, #BagItJmc, which many students used to spread awareness. Various members also shared reels on Instagram in support of this campaign. The Campaign consisted of four cycles spread across the academic year.

Cycle - I

Commenced on 11th September 2020

Finished on 26th September 2020

Number of Participants - 50

Number of bags - 80

Cycle - II

Commenced on 11th October 2020

Finished on 26th October 2020

Number of Participants - 60

Number of Bags - 101

Cycle - III

Commenced on 11th November 2020

Finished on 26th November 2020

Number of Participants - 68

Number of Bags - 130

Cycle - IV

Commenced on 18th February 2021

Finished on 24th February 2021

Number of Participants - 47

Number of Bags - 82

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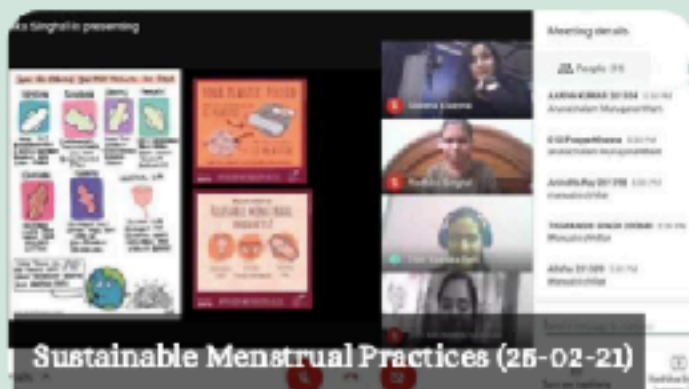


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Waste Management Workshop (03-03-21)



Inter-School Poster Making Competition
(26-10-20)



BagItJMC

@imcgreensocietyv

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ENACTUS JMC REPORT: 2020-21



4

PROJECTS

Sugam



Sahaay



Iffat



Dhara



99

PEOPLE EMPOWERED

72k

TOTAL REVENUE

1.8+

CRORE
DIGITALLY IMPACTED

109

TEAM MEMBERS



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PROJECT SUGAM



Approximately **15%** of the Indian population still defecates in the open. **25,000** tonnes of plastic is produced daily, of which **40%** goes uncollected, ending up in landfills and water bodies. **1 million** people die each year due to lack of sanitation and hygiene facilities. Sugam provides a long-lasting fix to this tri-fold issue.

ENTREPRENEURIAL LEADERSHIP



NEED ASSESSMENT SURVEY

Lack of access to a public washroom, sanitation facilities and proper disposal of plastic in Sangam Vihar



UPSKILLING BENEFICIARIES

Training by Ms. Kandana Weerakoon, a Sri-Lankan ecobrick specialist



COLLECTION OF PLASTIC

Collaborated with a manufacturing unit and 5 hotels to achieve our target of collecting 400 kg of plastic monthly



PRODUCTION

Appointed 4 beneficiaries and collaborated with Jaago Bharat Trust for making eco-bricks

BUSINESS INNOVATION



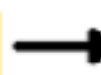
SUSTAINABLE INFRASTRUCTURE



PLASTIC IN PLASTIC TECHNIQUE



CRADLE TO GRAVE APPROACH



CIRCULAR ECONOMY

BUSINESS PRINCIPLES



GENDER SENSITIVE



DISABLED FRIENDLY



FAIR WAGES



MAINTENANCE CHECKS



SAFE AND HYGIENIC

DIRECT IMPACT

PROSPERITY



Project total revenue for first year is **Rs. 1,97,100** ensuring we recover our construction costs within first year of operation



Transformed **4 WOMEN** into financially independent social entrepreneurs

Washroom will cater to **193 INDIVIDUALS** per day in Sangam Vihar, in the first year of operations



Each washroom will upcycle 1000 kg of plastic waste reducing **1538 kg** of CO2 emissions

Collected **1500 kg** of plastic through an Anti-Plastic Campaign inaugurated by Padma Shree **GAUTAM GAMBHIR**

Reduced CO2 emissions **2531.548 kg** by collecting 3645 kg of plastic

INDIRECT IMPACT

Indirectly impacted **21,32,969 individuals**



Initiated a plastic free campaign along with **ENACTUS HAMBURG**, transcending geographical boundaries



Organised a **BEST OUT OF WASTE** live collaboration with Robin Hood Army, educating school students on the importance of Reuse, Reduce and Recycle



Organised the first-ever virtual conclave on plastic and sustainability with **1300+ PARTICIPANTS** and **30 EMINENT SPEAKERS**



Hosted a plastic-centric competition **THE PLASTIC MARATHON** with participation from 15 Fracture Teams



3 SANITATION DRIVES to distribute masks, gloves and sanitizers and ensured a year-long supply of sanitary napkins to 12 women.

FUTURE ROADMAP



Promoted by the **MLA of Sangam Vihar**, a local community attendant will be appointed for the upkeep of the washrooms



Aiming to appoint 5 more beneficiaries within the next year



Organising recurring awareness campaigns and a sanitary kit distribution drive



Registration of washrooms on Google Maps



Diversifying into eco-brick dustbins and disabled friendly street furniture at locations across Delhi

ACHIEVEMENTS

Amongst the **TOP 4**

Race to **RETHINK PLASTIC**



Recipient of the Swachhata Saurahi Fellowship



Received Rs. 25,000 under KPMG Business Ethics Grant



Gained recognition from WWF and HCV



Crowdfunderd Rs. 2,30,509



Won Rs. 30,000; secured the second place in SRCC CIP Social Summit



The Green Campus, Energy and Environment Policy

LINK TO THE POLICY DOCUMENT:

<https://www.jmc.ac.in/uploads/staticfiles/iqac/policydocuments/Green%20Campus%20and%20Environment%20Policy.pdf>

Objectives of the Policy

- To protect and conserve ecological systems and resources within the campus.
- To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
- To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
- To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- To make the campus plastic free.
- To conduct environmental and energy audits from time to time.
- To minimize the use of paper in administration through having policy for E-governance



GREEN COVER

Link to geotagged photos of Green Campus Initiatives:

<https://www.jmc.ac.in/uploads/staticfiles/naac/supportingdocuments/criterion7/7.1.5/>

8.	Is there a garden in your institute?	Yes, about 1.5 Acre is the Green Area.	
9.	Do students spend time in the garden?	2-4 Hours during winters	
10.	Total number of Plants in Campus	Plant Type	Approx. number
		Trees	More than 350
		Shrubs	More than 1000
		Grass Cover	1.5 Acre
11.	Suggest plants for your campus (Trees, vegetables, herbs, etc.)	Ashoka, Ficus Religiosa, Bignoniella, Alovera, Azadirachta Indica, and many more as per geographical regime.	
12.	Is the College campus have any Horticulture Department	Yes	
	Number of Staff working in Horticulture Department	Five Gardeners	
13.	Number of Tree Plantation Drives organized by College per annum. (If Any)	Yes, Three Tree Plantation Drives are Organized Annually. 50+ trees and 100+ shrubs planted in this financial year	
14.	Number of Trees Planted in Last FY	80	
	Survival Rate	90%	
15.	Plant Distribution Program for Students and Community	Yes, Seed Bank is developed and, Saplings are distributed to Students and visitors at various Occasions	
16.	Plant Ownership Program	No	

Source: Environmental Audit p. 18



Different species of trees identified and tagged in our college campus to develop awareness about diversity in nature. There are more than 350 trees and more than 1000 shrubs on campus along with 1.5 acre of grass cover.

S.No.	Name of Trees	Number of Trees
1.	Bamboo	more than 50
2.	Mulberry	4
3.	Molsree	6
4.	Karnikara	1
5.	Ashok	84
6.	Yellow bells	12
7.	Neem	118
8.	Ficus	1
9.	Christmas tree	8
10.	Palash	1
11.	Bottle brush	10
12.	Bel tree	3
13.	Sharifa	3
14.	Scholars tree	8
15.	Australian Babul	4

Outdoor Gymnasium in college surrounded by trees



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JMC Sports field surrounded by trees on all sides



View of the JMC Nursery





Greenhouse at JMC



Medicinal flora at JMC



BIODIVERSITY



This green cover is maintained by organizing annual tree plantation drives. The diverse green cover of JMC is also home to a number of animals and birds creating a campus rich in biodiversity. More than 200 squirrels, 8 dogs, 2 cats and others including butterflies, insects, bees, earthworms, etc. can be found on campus.

Bird Count was carried out by Dr. Divya Agarwal, Department of Environmental Sciences and a B.Sc. (Zoology Honours, II year) student of Hansraj College, Mr. Himanshu Sharma dated 29 Nov, 6.50 AM onwards. The reported birds are Black Kite, Roufous Treepie, Common Tailor bird, Purple Sunbird, Indian Robin, Jungle Babblers, Pavo Cristatus, Brown headed Barbet, Rose ringed Parakeet (identified both male and female), Whiskered Bulbul, Starling (Myna), Brahminy Starling, Green Bee Eater, Oriental Magpie Robin, Eurasian Collared-Dove, Lesser Whitethroat, House Crow, Large billed Crow (Indian Jungle), Red vented Bulbul, Red-whiskered Bulbul, Hume's Warbler, Greenish Warbler, Indian White-eye and Indian Peafowl. The bird species were identified by spotting and listening to their melodious calls. Diversity of birds indicates the maintenance of healthy habitat niche and good quality air within the campus.

Indian Peafowl sighted in college campus



Rose ringed Parakeet enjoying at the colourful branches of *Bauhinia* tree species, sighted besides the main gate of the college

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Roufers Treepie bird seen at one of the windows of the college





Black Kite on campus

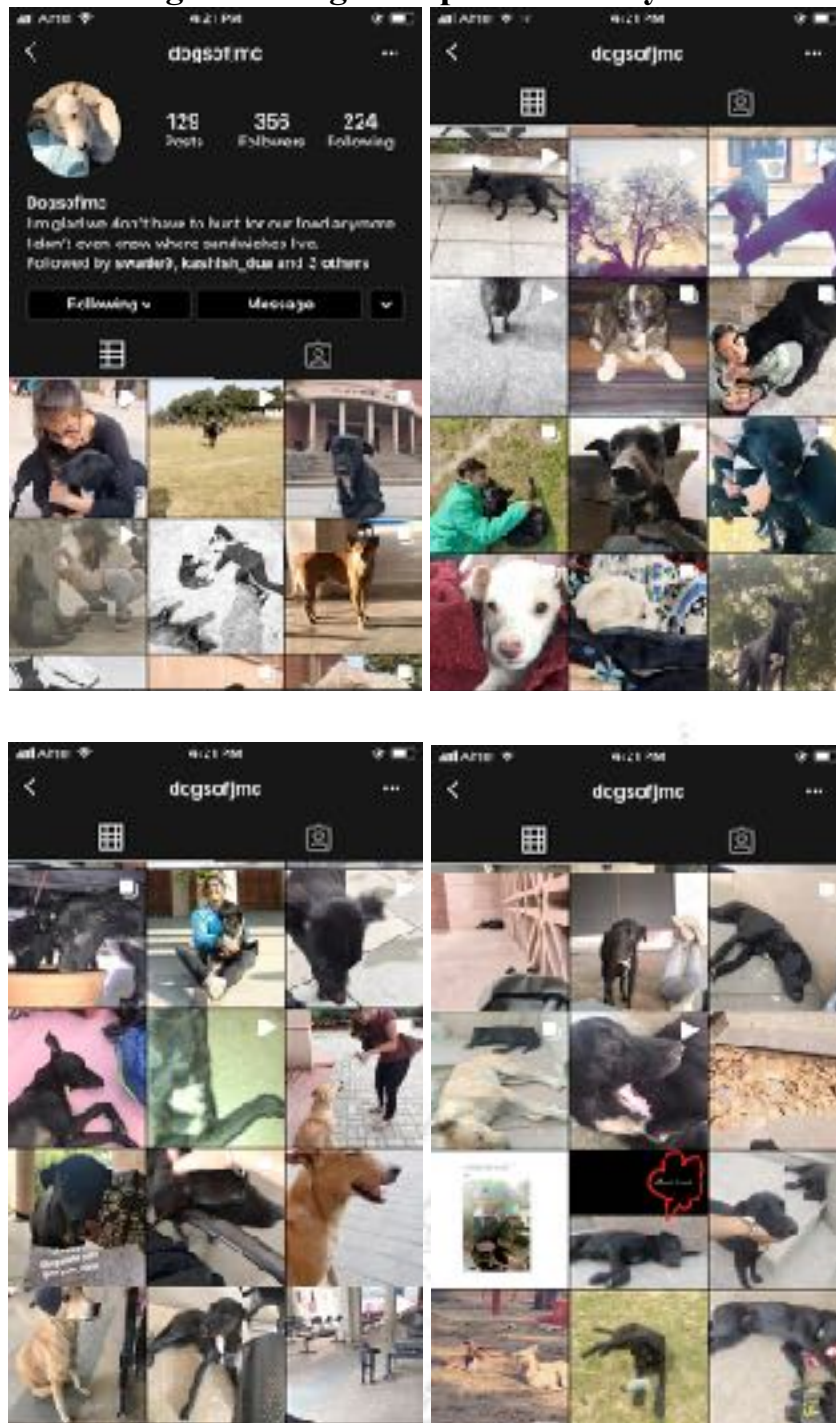


Nest found in one of the branches of the tree





Student run instagram page documenting the dogs on college campus over the years





PLASTIC-FREE CAMPUS

Notification for the banning of single-use plastic in college

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1st November, 2019

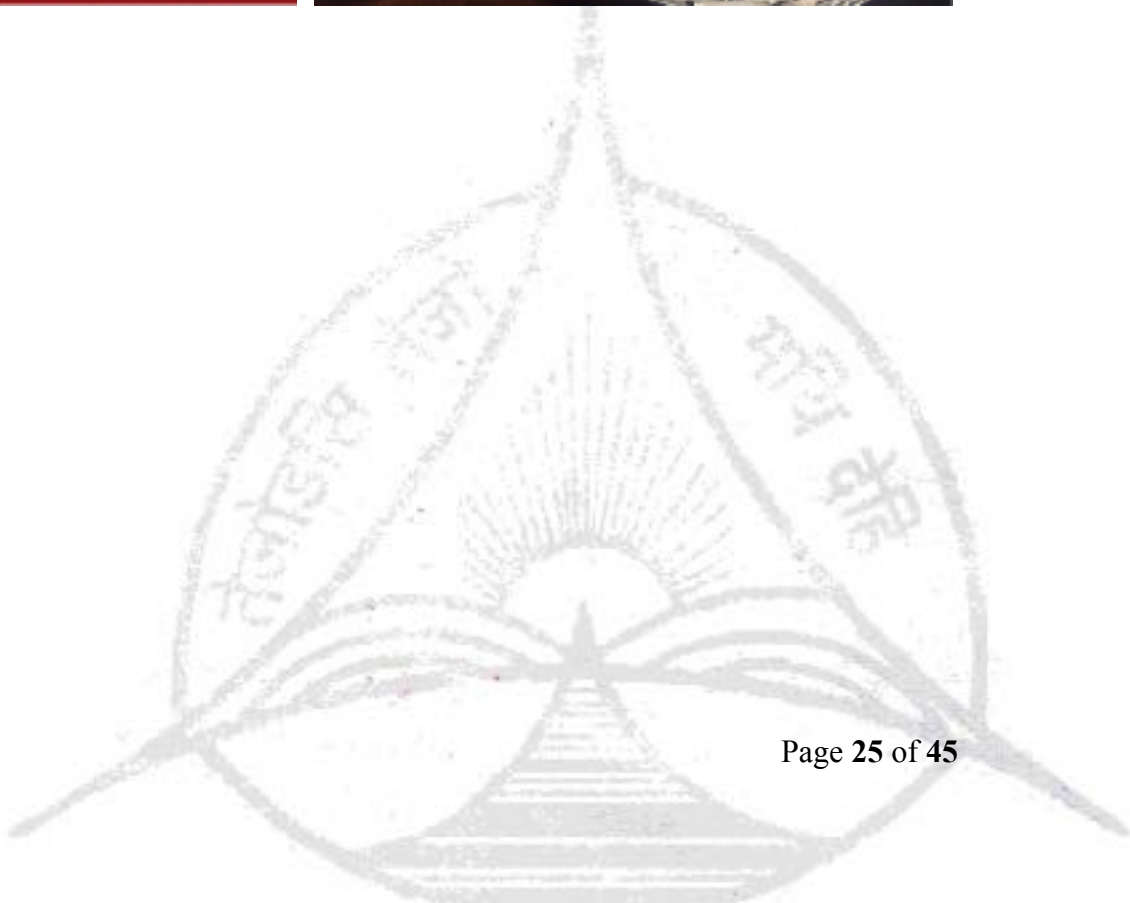
Notification about Ban on Single Use Plastics
Jesus and Mary College
(University of Delhi)

1. As per the Solid Waste Management Rules, 2016, every urban body including all educational institutions are to abide by the directions of the Ministry of Environment, Forest and Climate Change published in the Gazette of India, Part II, subsection 3 (ii).
2. Jesus and Mary College has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use – especially – single use plastics – cutlery, disposable plates, thermocol plates/glasses, plastic spoons, straws, plastic bottles/water bottles, plastic wrappers, food wrappers, cans, food, and beverage containers made of polyethylene and products made of non-degradable plastic etc, the college administration, herewith, bans the use of single use plastics in its premises to make it truly Plastic Free Campus w.e.f. 2nd November 2019.
3. This ban is applicable to all the entities – including the college canteen, all departments, societies, and any external agency that organize any event at the college campus.
4. Each and every event organizer of the college community has to ensure that no single use dishes are to be used either by it or by the invited business entities (staff owners, external caterers, promotional stalls, vendors etc).
5. It shall be the duty of the event organizer (students' council, students societies, departments, staff association, non-teaching staff associations) to inform any outside vendor that no single use plastics defined in para (2) is permitted by the college authorities.
6. Failure to comply with this ban shall invite penalties on the organizer.
7. It may be noted that as per the Solid Waste Management Rules, the waste generator will be penalized. Hence, the college administration will ensure that violation of this strict rule will be met with suitable penalties.
8. It is also clarified that if any individual of the college community brings her/his water bottles/food wrapped in biodegradable material etc. she or he shall dispose off it in the Non-flammable Biodegradable Bin provided in the premises. Similarly, if any prepackaged food or snacks (chips, waters, biscuits, etc.) are sold by the canteen (or any external vendor) in the premises, it is the duty of the seller to keep a separate bin for disposal of the same and also to inform the buyers (students/staff) to drop the wrappers in the bin provided or handed over by the college authorities.
9. Similarly, burning of premises is strictly prohibited. Any one doing it will be facing suitable action.

Dr. Roshni Singh
Dr (3d) Resita T. J. Jeyaraj
Coordinating Principal



JMC has reduced single-use plastic consumption by keeping steel crockery in the canteen



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SOLAR ENERGY





Solar Powered Street-Lights

There are 20 street-lights which are working on solar power with battery. These lights are switched ON in the night with the help of timer.





We have installed environmentally friendly electrical appliances that save energy and reduce wasteful inefficiencies. The electrical wiring in the college has been protected against leakage and short circuit at three levels: MCBs on all the floors; ELCBs for each building; and electric feeder station for the campus set up by NDMC. We have phased out 95% of CFL and conventional light sources with LED lighting.

5 Star Energy Efficient ACs installed in college





LED BULBS

The total lighting (luminary) load of the college is about 8 kW which includes Fluorescent tubes 36w/ 40w, LED lights 12w/ 36w etc. LED lights is good from energy efficiency point of view.

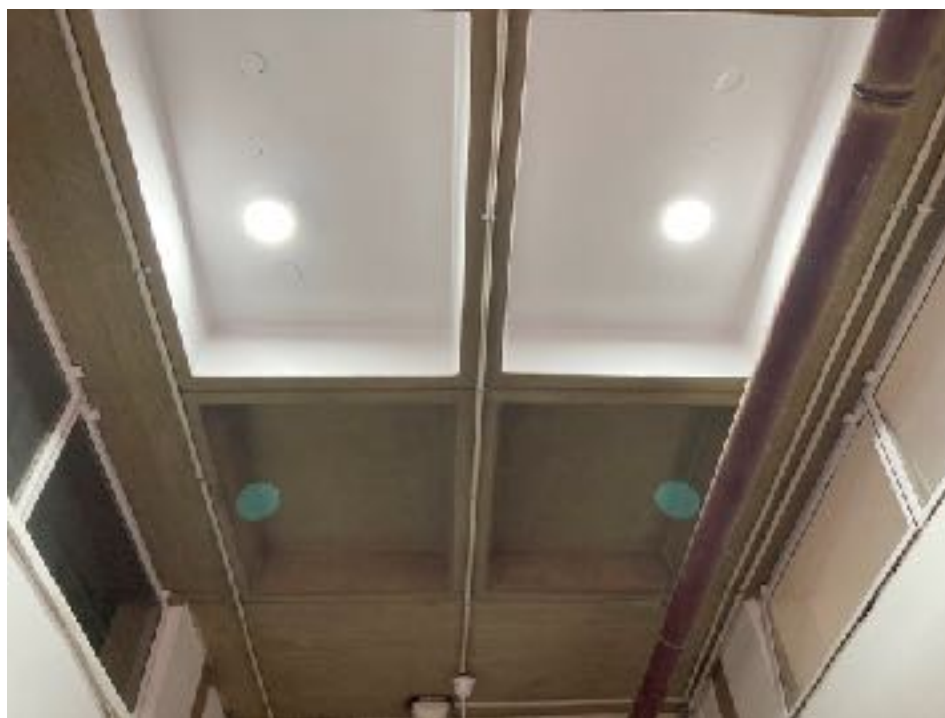
LED tube lights are also available in the market, which is also good from energy efficiency point of view. Whenever 36/40w tube gets fuse (not in warranty period) then it could be replaced by 18w/ 9w LED tube. There are 20 nos. of street lights which are working on solar power with battery. These lights are switched ON in the night with the help of timer.

During study, tube lights were ON in the class room and it was observed that lux level was good (240 – 320) in the class room near to window. But Lux level was down (120 – 200) near the entrance door and its wall side. It is advisable to increase some tube lights in the class room for better lux value.

Total Number of LED Bulbs = 500

Total Number of CFL Tubelights = 50

LED LIGHTS IN CORRIDORS





LED LIGHTS IN OFFICES



LED LIGHTS IN CLASSROOMS



Link to Geotagged Photos of Energy Conservation Facilities:

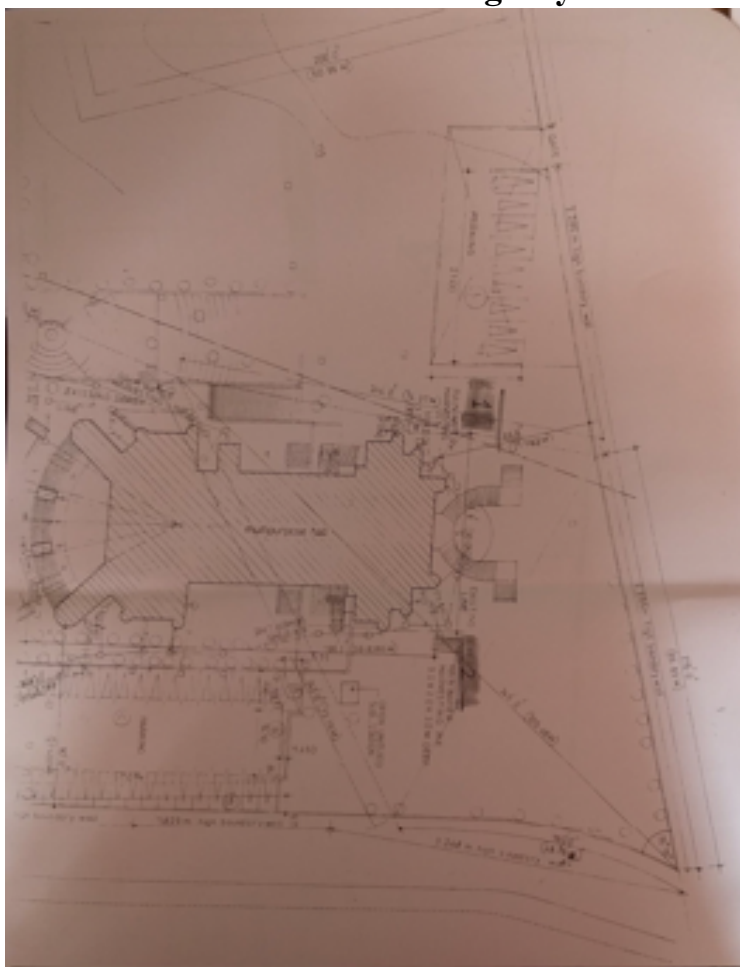
<https://www.jmc.ac.in/uploads/staticfiles/naac/supportingdocuments/criterion7/7.1.2/>



Rain Water Harvesting

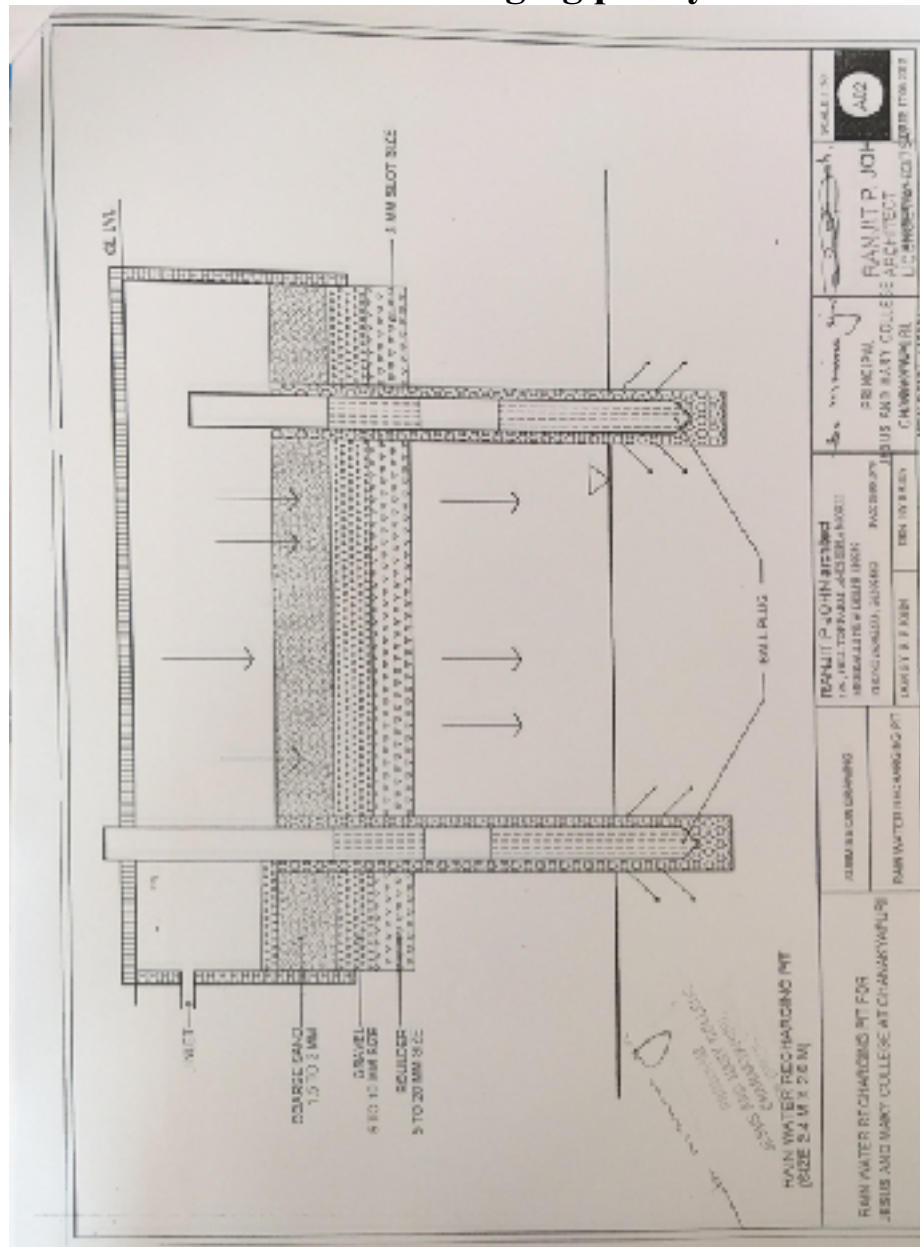
Jesus and Mary College has taken a sustainable initiative by installing Rooftop-Rain Water Harvesting Structure as a priority over other construction works. There are a total of 06 drainage lines that are connected to underground tanks spread in the campus. The underground tanks are cleaned yearly for maintenance. This practice is playing a key role in the recharging of the ground water table. Successful impact towards sufficient ground water recharge is evident from the growth of huge ancient trees growing superfluously in the campus viz. species of Ficus, Terminalia, Azadirachta, Bauhinia. Overall growth of birds, squirrels, insects including butterflies, grasses, herbs, shrubs and trees, which are visible in remarkable high number, also indicate towards healthy abiotic components (water, air, sunlight, soil etc.) of the institution as an ecosystem.

Rain Water Harvesting Layout



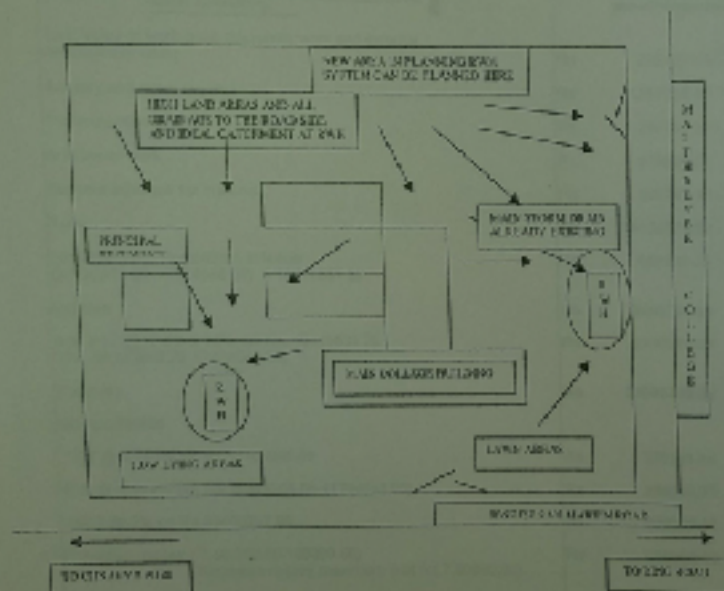


Rain water recharging pit layout




$$\Delta \text{TEMPERATURE } ^\circ \text{C} :$$

Lay-out plan of the Rain Water Harvesting System in the College Premises :





Rain Water Harvesting Structures





Waste Water Recycling

R.O. Waste Water Recycling Unit

A separate tank is installed at the roof-top, to collect the waste water coming out of R.O. unit, from where it is sent to washrooms by a separate pipeline network and is used for the purpose of flushing.





Grease Trap System

Grease trap system is installed with three sedimentary tanks to remove excess oil and organic impurities of canteen waste before the waste water is released. This reduces the Biochemical Oxygen Demand in the effluent waste water produced by the JMC canteen.



Link to Geotagged Photos of Water Conservation Facilities:

<https://www.jmc.ac.in/uploads/staticfiles/naac/supportingdocuments/criterion7/7.1.4/>



RESTRICTED ENTRY OF AUTOMOBILES

JMC has 5 gates of which only one is used for thoroughfare. The rest are kept locked. Entry of automobiles is restricted by the security guards present at all times at the main gate.





PEDESTRIAN-FRIENDLY PATHWAYS

Due to the restricted entry of automobiles in college premises, the pathways are pedestrian friendly. The college campus is also disabled-friendly.





Efforts made to celebrate and spread awareness about nature & bio-diversity

ENACTUS JMC Initiatives



Webinar- Bring Plants In, Good Health Follows

Project Dhara, in collaboration with WePlant, organised a webinar titled "Bring Plants In, Good Health Follows" on September 6, 2020. Mr. Santhosh George, Founder, WePlant was the facilitator of the event. He talked about the importance of and ways to build a community of organic plants. Further, he encouraged the habit of planting trees at home. We also had Ms. Seema Baf, Vice-Principal, St. Mary's School, Dwarka, share their experience and insights on inculcating the practice of tree plantation as part of their school curriculum. We received an overwhelming participation with 200+ people joining the webinar.

Webinar with Project Zero Waste titled "Sustainable Living Post Covid"

Enactus JMC's Projects Iffat and Project Sugam collaborated with Project Zero Waste, for a webinar on 'Sustainable Living in the Post-Covid World' on July 18, 2020. Through this webinar, we learned sustainable methods of living and got an opportunity to share our project with the audience. Ms. Himani Wadhwa, the founder of Project Zero Waste helped us reach out to a large audience and spread awareness towards the numerous challenges facing our environment, thus engaging the participants in the much needed conversation around climate change.

Jesus and Mary College

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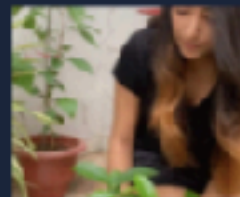
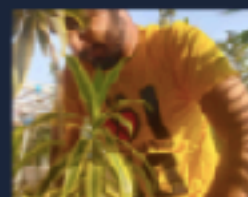
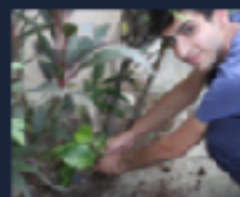
Collaborations

Project Dhara collaborated with WePlant, an organization that aims to solve the problems of malnutrition in India and declining global biodiversity by planting indigenous fruit trees in public places. They have also started the concept of establishing seed banks in schools and colleges. We also received support from various college communities like NSS Maharaja Surajmal Institute, and AIESEC in Delhi IIT in our Plant a Plant campaign.



Plant a Plant Campaign

Towards the end of the webinar with WePlant, Project Dhara launched a 15-day "Plant a Plant" campaign. The campaign aimed at encouraging people to plant at home and also to promote thinking in an environment friendly manner. People were given a challenge of potting a plant at home in their own unique and creative manner and posting it on their social media platforms encouraging others to plant as well. 60+ people participated in this campaign. We also had communities like NSS Maharaja Surajmal Institute, and AIESEC in Delhi IIT contribute to this campaign.



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Process of Eco-Brick Making

Through our social media handles, we have spoken about the meticulous process of making an Eco-brick. Not only have we mentioned the six steps involved in this process, we have also answered some questions the audience may have, such as "Are these Eco-bricks safe for the environment?"



Project Zero Waste Webinar

Project Sugam, along with Project Itiat, collaborated with Project Zero Waste to conduct a webinar on July 18, 2020. The speaker for the sessions was Ms. Himani Wadhwa, founder Project Zero Waste.

It focused on sustainable living in a post covid world, and about 100 students attended it. Enactus JMC was able to spread the message of curbing single use plastic consumption, and promoted adoption of ecological techniques and commodities.



Collaborations

This quarter, Project Sugam collaborated with Project Zero Waste to help spread awareness about sustainable living (especially in the post Covid-19 world).

Project Zero Waste is a social enterprise that aims to reach as many people as possible in Delhi with the message of zero waste, climate change and sustainability. It offers high quality goods that further help individuals to use eco-friendly products.



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Peace Society- Zero Waste Week

6th – 12th September, 2020

Peace Society, Jesus and Mary College, launched the Zero Waste Week campaign as its first event for the session, 2020-2021, from 6th September to 12th September. This is an award-winning campaign that raises awareness about the impact of waste on the environment. Its goal is not to send trash to landfills, incinerators, or the ocean. As part of the initiative towards the same, the week was filled with a plethora of competitions like creative writing and poster making competition, DIY Competition and Ecolution, the ecological quiz along with two really interesting webinars on adapting a sustainable lifestyle at the inauguration and closing of the week.

The week-long campaign began with a webinar – Roadmap to sustainability on 6th September. The speaker for the same was Ms. Ridhima Kandru, a sustainability activist who has carried out multiple cleaning drives in Delhi. The webinar was attended by 200+ attendees from various colleges and universities who learned about various alternatives that can be used in day to day life to reduce the amount of plastic produced. It instilled everyone with the motto to protect the environment by making conscious efforts.

Next in line was, the Creative writing and Poster Making competition, on the theme – Sustainability, in which a great response was received from the students of various universities. The participants, through their poems and essays, handmade and digital posters, very well conveyed the idea of Sustainability. The judges appreciated the effort of all the students who participated with utmost zeal and enthusiasm.

After this, “Ecolution”, the ecological quiz was conducted in two rounds. The first round was based on sustainable practices and general facts about the environment which attracted more than 70+ participants. For the next round, an interactive session was held via Zoom where the top 6 participants were judged on their knowledge about waste management and the techniques/methods taken by numerous organizations to promote sustainability.

Adding to the fun-filled week, a Do-It-Yourself competition was held in which 20+ participants submitted their entries, through a 2-minute video, which were highly creative and captivating. The entries included a doormat made out of an old saree, a lamp made out of stone embellishments and other items made out of household and waste material. All these were extremely innovative and beautiful. One could tell that a lot of effort and enthusiasm had gone into the making of these items.

Ending the week on a high note, another webinar – Sustain’know’ability was conducted as the last event of the week. The speaker for the webinar was Mr. Ajinkya Hange, the co-founder of

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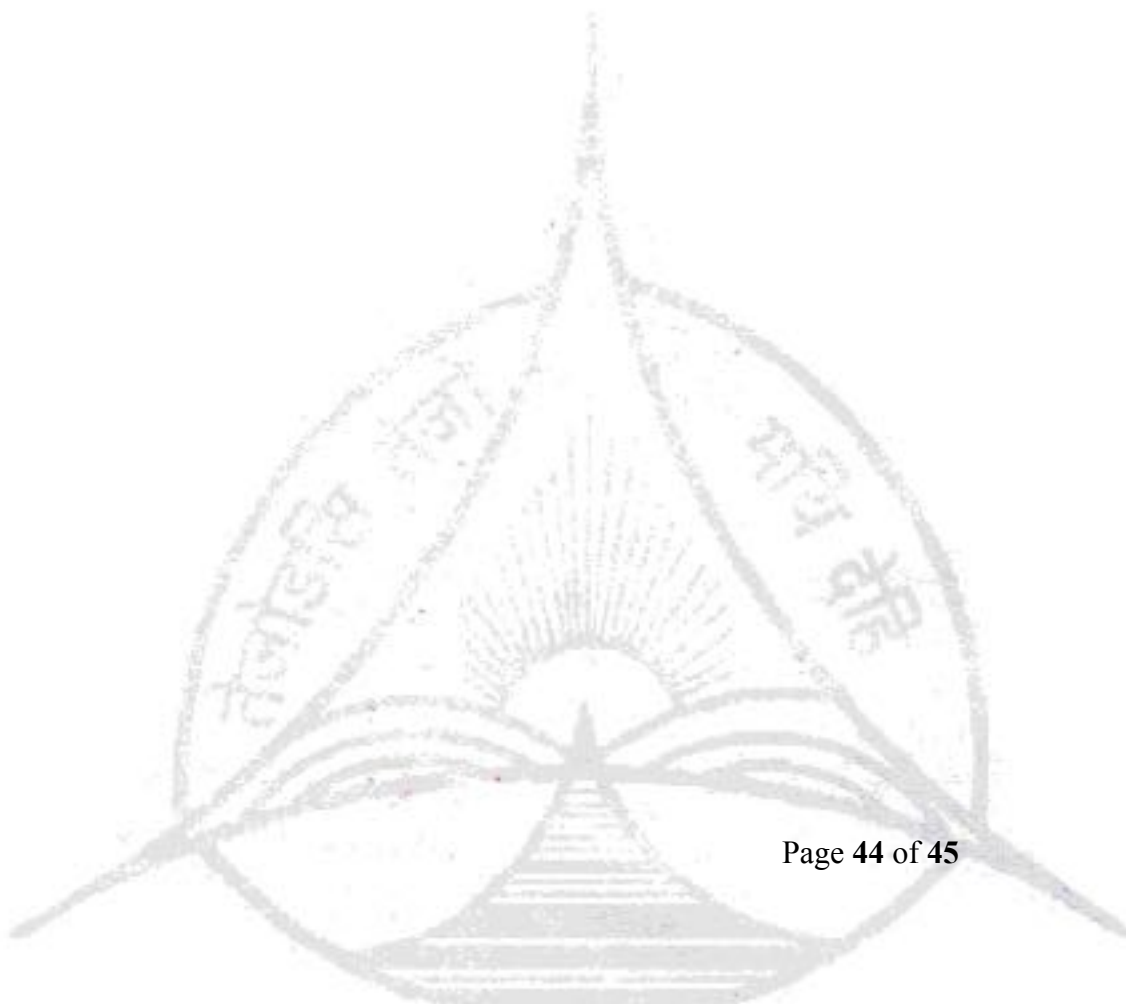
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Two Brothers Organic Farms, who emphasized on an organic way of living. He explained how different methodologies can be used in farming that are feasible, environment-friendly and generate very little or no garbage as compared to traditional farming.

Peace Society through this initiative was successful in raised awareness about a sustainable and organic way of living which benefits each and every-one. A lot of positive feedback was received by the society after both the webinars and the competitions making the campaign a success.





FUTURE GREEN INITIATIVES

Some suggestions for future green initiatives as deliberated upon in the IQAC. The aim is to encourage students to become genuine agents of change, committed to treasuring the campus environment and the neighbourhood.

LINK TO THE DOCUMENT ON THE COLLEGE WEBSITE:

<https://www.jmc.ac.in/uploads/staticfiles/iqac/initiatives/Future%20Green%20Initiatives.pdf>

