

## 7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives



**ACHARYA NARENDRA DEV COLLEGE**

U N I V E R S I T Y   O F   D E L H I

DBT STAR STATUS COLLEGE

All India NIRF 2022 Ranking-18, NAAC Score-3.31

Govindpuri, Kalkaji, New Delhi 110019



# ACHARYA NARENDRA DEV COLLEGE

*Preparing for the future...*

आचार्य नरेंद्र देव कॉलेज

तैयारी भविष्य की...

University of Delhi | NAAC accredited: A Grade

दिल्ली विश्वविद्यालय | नैक मान्यता प्राप्त 'ए' ग्रेड



**7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following**

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Following documents are attached:

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**ACHARYA NARENDRA DEV COLLEGE**  
**UNIVERSITY OF DELHI**  
**GREEN POLICY**



The goal of the Acharya Narendra Dev College's green policy is to protect the environment and preserve natural resources by using its knowledge and expertise to create a variety of innovative eco-friendly solutions. Our green policy calls for monitoring, directing, and inspecting human activity as well as implementing a variety of steps to protect the biophysical environment and natural resources while assuring no adverse effects on people.

*Paritantra*, the Eco Club of the college has been actively working on spreading awareness on issues related to environment protection and sustainable lifestyle among the students and society. The Eco Club organises programmes which aim at the conservation of air, water, biodiversity, energy and adoption of the practices which promote good health and sustainable development. The activities comprise sensitizing the community about conservation and sustainability of the biotic as well as abiotic components of the environment through workshops, awareness campaigns, rallies, poster making competitions, street plays, talks, symposiums and various other drives. Currently, there are following main areas that need to be monitored

#### **Waste Segregation:**

The College works to follow the practice of the complete segregation of waste into biodegradable and non-biodegradable in the college. ANDC organizes workshops and awareness programmes on the significance of the segregation of recyclable waste and management at the source. The aim of these workshops is to sensitize the students and staff about reducing the burden on landfills, keeping the environment clean, conserving natural resources and saving energy. The volunteers of the Eco Club initiated the practice of the segregation of recyclable waste in 2017 and sold the non-biodegradable waste to authorized recycling companies in the Trash to Cash Scheme.

#### **Paper Recycling:**

The college endorses the culture of reduce and reuse of paper strongly and has over the years, reduced the consumption of paper to a significant extent. The Eco Club volunteers collect rough copies and the practical files from the laboratories after the practical examinations and separate the used and blank pages. The used pages are sent for recycling and the blank pages are used to make notebooks. These items are given for recycling and receive stationery items in return. In 2017-18, 251 kg of paper was recycled, saving approximately 4 trees, 2816 gallons of water and 1250 kwh energy.

#### **Say No To Non-Biodegradable Disposables:**

The College initiated a drive to stop the use of thermocol/plastic disposables in the college premises. It has successfully stopped the usage of single use plastic including plates, glasses, spoons, straws, etc. in the college campus in association with the college canteen. The college has received 'Plastic Free College of the Year Award' at the National Environment Convention 2018 for freeing the campus from single-use plastic.



**Say No To Crackers:**

The college raises a voice to prevent air-pollution and not to spoil the holy spirit of Diwali celebrations in a chaotic display of fire crackers. It supports the concept of cracker free Diwali and organises an anti-cracker campaign every year. The campaign makes use of various means to spread its message including rangoli making competition, rally in the surrounding areas, *Nukkad*, *Nataks*, etc.

**Energy Conservation:**

The Energy Conservation Policy for a "Environment of Educational Excellence" was adopted by Acharya Narendra Dev College in order to encourage environmental awareness and the holistic development of students. The College aims to thoroughly reduce energy consumption, ensure acceptable indoor air quality, and improve energy efficiency on campus using methods that are consistent with a safe, secure, and eco-conscious campus community. As stated in this policy, energy conservation will be achieved through creating a proactive and forward-thinking strategy for campus operations that are responsible, efficient, and cost-effective. The College has installed rooftop solar panels to harness solar energy.

**Energy Saving Tips:**

- Turn off the monitor when not in use.
- Turn off unnecessary lights and use daylight instead.
- Encourage Use of LEDs.
- Keep fans, ACs in conference halls, classrooms, seminar halls when they are not in use.
- Use the fans only when they are needed.

**Water Conservation:**

Water security in our nation and the protection of lives and livelihoods depend on water conservation and recharge. ANDC has been effectively and efficiently managing a rain water harvesting system to preserve rainwater. This subterranean rainwater harvesting system, is situated close to the college's sports area.

**Management of Wastes:**

The college periodically disposes of the purchased electrical and electronic equipment that is no longer functional. The writing off and safe disposal procedures are meticulously followed. Lists of obsolete electronic equipment are created by all departments and sections that use it, together with information about how they were acquired and why they were written off. They also specify whether the item is harmful and requires particular handling if it is. A Governing Body subcommittee visits the location for physical verification. The University of Delhi

Radiological Officer then grants clearance after personally inspecting the trash or designating a substitute. The college submits the list of inoperable items for the Governing Board's consideration after receiving a clearance certificate. Upon approval, the auction procedure is launched via a public notice that only invites government-certified e-waste management firms.

For the orderly and secure storage of written-off equipment and other assets, the college has built a separate store. Potentially dangerous materials and E-waste are treated carefully in this area in accordance with the guidelines outlined above. Staff members receive special training to help them recognise leaching batteries. The college has designated bins with distinct markings for collecting e-waste.

For the safe disposal of biowaste, the College has outsourced M/s Biotic Waste Solutions Pvt Ltd.

  
Officialing Principal  
Acharya Narendra Dev College  
(University of Delhi)  
Govindpuri, Kalkaji  
New Delhi-110019



# ENVIRONMENT AUDIT REPORT

## MARCH 2022



**Acharya Narendra Dev College (University of Delhi)**  
**Govindpuri, Kalkaji, New Delhi-110019**

DEEPAK  
Energy Auditor  
(E-19724)  
*Deepak*  
Engineering Facility Services  
Noida-201301

**Audit Conducted by:**



### **ENGINEERING FACILITY SERVICES**

Office No.778-779, Gaur City Mall, Sector-04, Greater Noida (Uttar Pradesh) India,  
201318; E-mail: [efs\\_info@yahoo.com](mailto:efs_info@yahoo.com); Mo: 8826682703  
Energy Service Companies empaneled with Bureau of Energy Efficiency (BEE)

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## 1 ACKNOWLEDGEMENT

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EFS Engineering Facility Services acknowledges the cooperation and support of the management and staff of **Acharya Narendra Dev College**, in particular, the support and disposition of the **Prof. Gagan Dhawan, Prof. Seema Gupta, Mr. Abhay Pratap Singh** and Teaching/Supporting Staff of College that has been invaluable to the success of this report. EFS Engineering Facility Services wishes to stress that in line with its policy, all information obtained in the course of this Audit exercise as well as those contained in this report will be accorded the strictest confidentiality.

DEEPAK  
Energy Auditor  
(EA-9001)  
Engineering Facility Service  
No. 15/201204

## 2 DISCLAIMER

This Environment audit report of **Acharya Narendra Dev College** is prepared by Engineering Facility Services, Noida on interest of the organization.

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Report by: (Deepak Bajpai) Lead Auditor

(Certified Energy Auditor and Chartered Engineer)

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The Principal  
Acharya Narendra Dev  
College



Environment Audit is a process of systematic identification, quantification, recording, reporting and analysis of components of environmental diversity of various establishments. It aims to analyze environmental practices within and outside of the concerned sites, which will have an impact on the eco-friendly ambience. Environment audit can be a useful tool for a college to determine how and where they are using the most energy or water or resources; the college can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization plan. It can create health consciousness and promote environmental awareness, values and ethics. It provides staff and students better understanding of Green impact on campus. If self-enquiry is a natural and necessary outgrowth of a quality education, it could also be stated that institutional self-enquiry is a natural and necessary outgrowth of a quality educational institution. Thus, it is imperative that the college evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

#### **4 OVERVIEW OF INSTITUTE**

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Acharya Narendra Dev College is a constituent college of the University of Delhi situated in Govindpuri (Kalkaji), Delhi, India. Established in 1991, it is named after the great educationist and reformist of modern India, Acharya Narendra Dev. Acharya Narendra-Dev College through all these years has helped to unfold the enormous potentialities of the students and empower them to meet the challenges of the future. Within this short span of journey, we have carved a niche of our own and ANDC is considered as one of the top colleges in India. It is ranked 20<sup>th</sup> among colleges in India by the National Institutional Ranking Framework (NIRF) in 2021. Besides, India Today and Week rankings are also testimony to this.

College has 2218 students enrolled in various Academic, Professional, and Research Programs. It is affiliated with the University of Delhi. It has 129 faculty members and 117 non-teaching & other staff.

The College comprises of 13 departments offering different undergraduate programs. College offers various courses listed below:

### **Undergraduate Courses**

B.Com. (Hons.)  
B.Sc. (Hons.) Bio-Medical Science  
B.Sc. (Hons.) Mathematics  
B.Sc. (Hons.) Botany  
B.Sc. (Hons.) Physics  
B.Sc. (Hons.) Chemistry  
B.Sc. (Hons.) Zoology  
B.Sc. (Hons.) Electronics  
B.Sc. (Hons.) Computer Science  
B.Sc. Physical Science (with Chemistry)  
B.Sc. Physical Science (with Computer Science)  
B.Sc. Physical Science (with Electronics)  
B.Sc. Life Science

### **Postgraduate Courses**

MSc Mathematics  
MSc Chemistry

### **ADD-ON Courses:**

NEST (Nurturing and Educating Student through theater)

Acharya Narendra Dev College offers part-time certificate and diploma courses in foreign languages:

French  
German  
Spanish  
Russian

The College is spread over 7 acres which includes a sports ground and considerable green area. The College is easily accessible by road and metro; the nearest metro station is **Govindpuri** which is 900 m away and Indira Gandhi International Airport is 15.8 km away from the College.

Although the campus is located in a residential area, the presence of green belts including gardens, lawns, and a herbal garden has considerably reduced noise pollution on the campus. The college area has an academic building, Rainwater Harvesting System (RWH). For the treatment of sanitary waste water generated on campus, the college uses a municipal sewage system.

## 5 OBJECTIVES



The Environment Audit of an institution is of paramount importance these days for self-assessment of the institution, reflecting the role of the institution in mitigating the present environmental problems. The college has been putting efforts to keep the environment clean since its inception. But the auditing of this non-scholastic effort of the college has not been documented. Therefore, the purpose of the present environment audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. The main objectives of carrying out Environment Audit are to:

1. Document the quality of drinking water
2. Document the quality of recycled waste water for gardening
3. Document the solid waste disposal system of medical and non-medical waste
4. To document the ambient environmental condition of air, water and noise in the campus.
5. Benchmarking for environmental protection initiatives
6. Reduction in resource use of water, electricity etc.
7. Financial savings through a reduction in resource use as electricity, water, waste, fuel, etc.

## 6 AUDIT TEAM

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**Audit was conducted by the EFS team:**

<b>Name</b>	<b>Position</b>	<b>Qualification</b>
Deepak Bajpai	Lead Auditor	B.Tech ( Mechanical Engineering) Bureau of Energy Efficiency Certified Energy Auditor, Chartered Engineer
Om Pal	Auditor	B. Tech
Vikrant Pal	Auditor	B. Tech
Rajat Katiyar	Auditor	B. Tech

## **7 EXECUTIVE SUMMARY**

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An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

This is an environmental audit of the institute for NAAC affiliation; QS Programme and doing their bid towards environmental protection and environmental awareness at the local and global front. The audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation, and environmental legislative compliance by the campus. A questionnaire is used during the audit. This audit report contains observations and recommendations for the improvement of environmental consciousness.

## 8 AREA OF IMPROVEMENTS

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## Environment Audit Report – Acharya Narendra Dev College, New Delhi

- Water meters should be installed and maintain the inventory of water resources.
- Environmental drills for response against spillages and leakage of chemicals in the campus.
- The monthly inventory of e-waste is required to be maintained in formats on regular basis.
- Can use solar PV cell
- Install STP & use water for gardening.



## 9 ENVIRONMENTAL AUDIT -QUESTIONNAIRES

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

- I. Waste Minimization and Recycling
- II. Greening
- III. Energy Conservation
- IV. Water Conservation
- V. Clean Air
- VI. Animal Welfare
- VII. Environmental Legislative
- VIII. General Practices

What is the total permanent population of the Institute?

<b>Particulars</b>	<b>Total</b>
<b>Students</b>	<b>2218 (all three year)</b>
<b>Teachers</b>	<b>129</b>
<b>Non-Teaching Staff</b>	<b>117</b>
<b>Sub Total</b>	<b>2464</b>
<b>Approximate Number of Visitors (Per day)</b>	<b>45</b>

**Where is the campus located?**

Acharya Narendra Dev College (University of Delhi) is located in Govindpuri, Kalkaji New Delhi-19, and New Delhi-110019 India.

Which of the following are available in your institute?

Sr. No	Location	
1	Garden area	Available
2	Playground	Available
3	Kitchen	Available
4	Toilets	Available
5	Garbage Or Waste Store Yard	Available
6	Laboratory	Available
7	Canteen	Available
8	Hostel Facility	Not Available
9	Guest House	Not Available

Which of the following are found near your institute?

1	Municipal dump yard	Yes in the vicinity of the institute
2	Garbage heap	No
3	Public convenience	Yes, public convenience is available
4	Sewer line	Installed
5	Stagnant water	No
6	Open drainage	Yes, properly maintained and sanitized
7	Industry - (Mention the type)	No
8	Bus / Railway station/Metro	Nearby from campus
9	Market / Shopping complex / Public halls	Yes, within 500 mtr.
10	Effluent Treatment Plant	No

**I – WASTE MINIMIZATION AND RECYCLING**

<p><b>1. Does your institute generate any waste? If so, what are they?</b></p>	<p><b>Yes, Solid waste, Canteen waste, paper, plastic, garden waste etc.</b></p>		
<p><b>2. What is the approximate quantity waste generated per day?</b></p>	<p>Wet Waste</p>	<p>Horticulture Waste</p>	<p>Dry Waste</p>
<p><b>3. How is the waste generated in the institute managed? By</b></p> <p>1 Composting</p> <p>2 Recycling</p> <p>3 Reusing</p> <p>4 Others (specify)</p>	<p>30 kg</p>	<p>40 kg</p>	<p>200 KG</p>
<p><b>4. Do you use recycled paper in institute?</b></p>	<p>Yes</p>		
<p><b>5. Do you use reused paper in institute?</b></p>	<p>Yes</p>		
<p><b>6. How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, Please specify.</b></p>	<p>Awareness drives about resource crunches are done in locality via rally and street play.</p>		



**II – GREENING THE CAMPUS**

<b>8.</b>	<b>Is there a garden in your institute?</b>	<b>Yes, 30% areas are developed as Gardens.</b>	
<b>9.</b>	Do students spend time in the Lawn?	2-4 Hours during winters	
<b>10.</b>	Total number of Plants in Campus	Plant type	Approx. number
		Trees	95
		Ornamental	300
<b>11.</b>	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Ashoka, Ficus Religeosa, Boganvella, Bottle palm, Tunn, Jackfruit and many more as per geographical regime.	
<b>12.</b>	Does college campus has any Garden Committee?	Yes	
	Number of Staff working in cultivation and maintenance of plants in college campus?	2-4 Gardeners, look water pipe line maintenance and Caretaker officer looking maintenance	
<b>13.</b>	Number of Tree Plantation Drives organized by college per annum.(If Any)	Yes, Plantation Drives are Organized Annually.	
<b>14.</b>	Number of Sapling Planted in Last FY.	15	
	Survival Rate	70%	
<b>15.</b>	Plant Distribution Program for Students and Community	Saplings are distributed to Students and visitors at various occasions. Besides, this landscape of some area in city is developed by Institute.	
<b>16</b>	Plant Ownership Program	Various trees are planted and owned by staff, as well as by the students. The name plates are also displayed near the plants.	

### III – ENERGY

17.	List ways of energy used in your institute. (Electricity, LPG, firewood, others).	Electricity, LPGA and Spirit lamp in laboratories
18.	Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some	<p>Yes.</p> <p>Electricity is saved by use of CFL/LED</p> <p>LPG is used for cooking</p> <p>Energy saving methods likes switching off the electrical gadgets, when not in use. Use of Natural Lights and Natural Ventilation is promoted.</p> <p>Messages are displayed at various locations to make the students aware about energy saving.</p>
19.	How many CFL/LED bulbs has your institute Installed?	50 % of total conventional bulbs are Replaced by LED Lights.
20.	Are any alternative energy sources employed / installed in your institute? (Photovoltaic cells for solar energy, windmill, energy efficient stoves, etc.,) Specify.	Upgradation work is under consideration
21.	Do you run “switch off” drills at institute?	Yes
22.	Are your computers and other equipment’s put on power-saving mode?	Yes, this practice is followed.
23.	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	<p>Yes, all machinery works only when required.</p> <p>Printer/ fax are switched on during the usages only.</p>

**IV – WATER CONSERVATION**

24.	List four uses of water in your institute	<p>Basic use of water in campus:</p> <ol style="list-style-type: none"> <li>1. Drinking –500 KL/month</li> <li>2. Gardening – 200 KL/Month</li> <li>3. Kitchen and Toilets –200 KL/month</li> <li>4. Others – 150KL/month</li> </ol>
25.	How Does your institute store water? Are there any water saving techniques followed in your institute?	<p>We have two Underground Tanks for the storage of water are available.</p> <p>To avoid overflow of water, controlled valves have been provided in water supply system. Close supervision for water supply system is done.</p> <p>Rainwater Harvesting Structure technique is installed in the College campus.</p>
26.	<p>Locate the point of entry of water and point of exit of waste water in your institute.</p> <p>Entry-</p> <p>Exit-</p>	<p>Entry- Water comes from Authority of Water Supply at campus</p> <p>Exit- From Water Drainage System to STP Authority</p>
27	Write down ways that could reduce the amount of water used in your institute?	<ol style="list-style-type: none"> <li>1. Dripping of water from taps is closely monitored.</li> <li>2. Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage</li> <li>3. Water Conservation awareness for new Students</li> <li>4. Reuse of waste water(RO water usage)</li> </ol>
28.	Does your institute harvest rain water?	Yes
29.	Is there any water recycling system.	Upgradation work is in progress

**V – CLEAN AIR**

30.	Are the Rooms in Campus Well Ventilated?	Yes				
31.	Window Floor ratio of the Rooms	Very Good				
32.	What is the ownership of the vehicles used by your institute? (Please Tick <input checked="" type="checkbox"/> only one)		Operator-owned vehicles			
		<input checked="" type="checkbox"/>	Institute-owned vehicles			
			A combination of campus-owned and operator-owned vehicles			
33.	Provide details of institute-owned motorised vehicles?	<b>Buses</b>	<b>Cars</b>	<b>Vans</b>	<b>Other</b>	<b>Total</b>
	No. of vehicles	0	1	0	0	0
	No. of Non-Air-conditioned vehicles	0	0	0	0	0
	PUC done	-	Yes	-	-	1
34.	Specify the type of fuel used by your institute's vehicles:	<b>Buses</b>	<b>Cars</b>	<b>Vans</b>	<b>Other</b>	
	Diesel	0	1	0	0	
	Petrol	0	0	0	0	
	CNG	0	0	0	0	
	LPG	0	0	0	0	
	Petrol	0	0	0	0	
	Electrical/Battery	0	0	0	0	
35.	Air Quality Monitoring Program (If Any)	No				
36.	Students suffer from respiratory ailments? (If Any)	There has been no reported case of respiratory ailments due to environment pollution.				
37.	Details of Genset	Silent DG Set installed for backup power				

## VI – ANIMAL WELFARE

38	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	Birds and Squirrels are commonly found in campus. A variety of bird's species and other flora and fauna are available but these are not harmful to humans so institute doing their bit for its conservation.
39.	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	Not required
40.	Does your institute have a Biodiversity Programme or an Eco CLUB?	Yes

## VII – ENVIRONMENTAL LEGISLATIVE COMPLIANCE

41.	the institute aware of environmental laws Pertaining to different aspects of environmental management?	Yes
42.	Does your institute have any rules to protect the environment? List possible rules you could include.	Yes (Conduct of regular Plantation drives, Restrictions of vehicles, Ban on one-time disposable plastic bags or items)
43.	Is Environmental Ambient Air Quality Monitoring conducted by the Institute?	No
44.	Does stack monitoring of DG sets conducted by The Institute?	Yes, conducted
45.	Is any warning notice, letter issued by state Government bodies?	No
46.	Is any hazardous waste generated by the Institute? If yes explain its category and disposal method	Yes (Disposal of hazardous waste by dilution method)
47.	Is any Biomedical waste generated by the Institute? If yes explain its category and disposal method	No



**VIII –GENERAL**

48.	Are you aware of any environmental Laws Pertaining to different aspects of environmental management?	Yes
49.	Does your institute have any rules to protect The environment? List possible rules you could include.	Yes (rules of eco-club ) like Ban of Single use plastics on campus Reuse of used paper for Printing Annual Plantation Drive
50.	Is housekeeping schedule on your campus?	Yes
51.	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes, Periodically pollution reduction, plantation, energy conservation awareness campaigns carried out by the institute
52.	Do Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?	Yes
53.	Is Institute participate in National and Local Environmental Protection Movement?	Yes, Insititue participated in all the environment protection movement initiated by Govt of Delhi NCT and University of Delhi under Azadi ka Amrit Mahostav and Swacch Bharat Campus Abhiyaan.
54.	Does Institute have any Recognition/certification for the environment's Friendliness?	Yes
55.	Does Institute use renewable energy?	No
56.	Does Institution conducts a Green/environmental audit of its campus?	Yes, this is the third environmental audit done by the institution
57.	Has the institution been audited/accredited By any other agency such as NABL, NABET, TQPM, NAAC ,NIRF etc.?	Yes

## 10 BEST PRACTICES/INITIATIVES FOR ENVIRONMENT

A	<b>Renewable Energy</b>	No
B	<b>Biodiversity Conservation</b> Flora and fauna conservation	Yes
C	<b>Tree Plantation Drives</b> Two Drives Annually, as well as Every Guest, is honored by Tree Plantation at Campus.	Yes
D	<b>Ground Water Recharge</b>	Yes, 03 units of rainwater harvesting is available.
E	<b>Pollution Reduction</b>	Reduction in Air Pollution through vehicular. Personal vehicle use Emission.
F	<b>E-Waste Management</b>	Handover to authorized recycler
G	<b>Solid Waste Management</b>	Yes
H	<b>Adoption of Village School</b>	Yes, under NSS and UBA
I	<b>Water Conservation</b>	Yes
K	<b>Mitigation measures for Air pollution at construction stage and operation stage by developing adequate green belt.</b>	Yes
L	<b>Mitigation measures for noise pollution by isolation of noise generation activities</b>	Yes
M	<b>Disaster management plan</b>	Yes
N	<b>Fire protection system</b>	Yes
O	<b>Environment/Green committee</b>	Eco-Club For regulating eco-friendly initiatives at campus premises.

## 11 RECOMMENDATIONS

E- Waste monthly inventory be maintained at campus as per E-waste rules 2016

Bio-medical waste inventory to be maintained at campus as per BMW rule 1998 and amendment 2022

Environmental drills for response against spillages and leakage of chemicals in the campus.

The monthly inventory of e-waste is required to be maintained in formats on regular basis.

Can use solar PV cell

Install STP & use water for gardening.

Required lighting needs to replace with LED

## 12 CONCLUSION

This audit involved extensive consultation with the complete campus team and interactions with key personnel on a wide range of issues related to Environmental aspects. The Acharya Narendra Dev College has Environmental Committee for sustainable use of resources. The audit identified several observations for making the campus premise more environmentally friendly. The recommendations are also mentioned with observations for college campus teams to initiate actions.

The audit team opines that the overall site is maintained well from an environmental perspective. There are no major observations, but few things important to initiate urgently are water balance cycles and periodic inspections of buildings and the initiation of composting at campus.

### 13 REFERENCE

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended2010)
- The Petroleum Act: 1934 – The Petroleum Rules:2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle Rules:1989 (Amended in2005)
- Energy Conservation Act2010.
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules –1975
- The Water [Prevention & Control Of Pollution] Cess Act-1977 (Amended 2003) and Rules-1978
- The Air [Prevention & Control Of Pollution] Act – 1981 (Amended 1987) The Air (Prevention & Control of Pollution) Rules –1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules –1981
- E-waste management rules2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended2010)
- The Batteries (Management and Handling) rules, 2001 (Amended2010)
- Relevant Indian Standard Code practices

## 14 Green activities of Acharya Narendra Dev College

<p><b>28/02/2021</b></p>	<p><b>Group Discussion on ‘How to increase sustainable development rather compromising technology’</b> – The event was good from the quality prospectus, not quantity prospectus; the participants have shared many innovative ideas and had good interaction between all the participants. The participation was very diverse; Many students were there from different institutes like NSUT, IIT And others.</p>
<p><b>10/04/2021</b></p>	<p><b>Symposium on ‘Noise Pollution a Cannonade on Living Organisms! How to take the edge Off it?’</b> – The event was very well organised and executed. It consisted of many evident speakers from different colleges of India like Miranda House, Gargi College, Hansraj College, NSUT, and National Engineering College etc. Participants introduced various ways by which noise pollution can be minimized in our day-to-day lives.</p>
<p><b>19/04/2021</b></p>	<p><b>Quiz Competition on ‘Carbon Footprint’</b> – This event was organized on 19 April 2021 to raise awareness among students about the increasing carbon footprint. Top Performers were given E-Certificates by the Eco club.</p>
<p><b>21/04/2021</b></p>	<p><b>Group Discussion</b> – This event was organized on ‘World Fish Migration day’ on the topic “Effect of Micro Plastics on Marine Life”. Many students from different colleges of DU participated in this And shared their views on it.</p>
<p><b>22/04/2021</b></p>	<p><b>Presentation on Wetlands</b> – As a part of “Bharat ka Amrut Mahotsav” initiative launched by the Govt. of India, a presentation event was organized to Create awareness about the importance of Wetlands.</p>
<p><b>24/04/2021</b></p>	<p><b>Article Writing competition</b> – On ‘Earth Day’, an Article writing competition was organized. The theme was “Restoration of Earth”.</p>
<p><b>08/05/2021</b></p>	<p><b>Quiz competition</b> – A quiz competition was organized by the Eco club on “Bird Migration” in order to make people aware about the Importance of Bird migration.</p>
<p><b>05/06/2021</b></p>	<p><b>Youth Panel discussion</b> – This event was an initiative of the Department of Environment, Vivekananda College under the student development programme. The program was planned in collaboration with the Eco club Of Daulat Ram College And Acharya Narendra Dev College. The objective of this program was to allow young minds to rethink, reimagine and ideate upon creative solutions to make this planet a better place to live.</p>



<p><b>31/08/2021</b></p>	<p><b>Quiz Competition –</b> This event was organized on the topic “Interaction of whale Shark with marine ecosystem” to create awareness among young learners of the importance of Whale sharks.</p>
<p><b>07/09/2021</b></p>	<p><b>Plantation Drive –</b> This Plantation Drive was an initiative of Rotaract Club of Ramanujan College, which was organized in collaboration with the Eco club of Acharya Narendra Dev college on 7<sup>th</sup> September 2021. During this plantation drive, around 300 saplings of plants like Neem, Peepal, Aloe Vera, Curry plant, Jamun and many more were planted in Shaheed Bhagat Singh Herbal Park, Near Vasant Kunj, New Delhi.</p>
<p><b>16/09/2021</b></p>	<p><b>A National Webinar on “Effects of Good Ozone and Bad Ozone on Human’s Life” –</b> A National Webinar was organized by the Eco club as a Celebration of ‘World Ozone Day’ on “Effects of Good Ozone and Bad Ozone on Human’s Life”. Dr.Seema Sharma, Assistant Professor, Vivekananda College, a BBC World News Panelist graced the webinar.</p>
<p><b>17/09/2021 to 21/09/2021</b></p>	<p><b>Social Media Campaign on theme “Eco Friendly Ganesh Chaturthi” –</b> On the auspicious occasion of Ganesh Chaturthi, the Eco club of ANDC had taken an initiative to start a Social Media Campaign with aim to aware people about the impacts Ganesh idol’s visrajan can have on the environment if not done properly. Under the above campaign, a Group discussion was organized on 19<sup>th</sup> September 2021 on the topic “Role of Government in promoting Eco friendly Ganesh Chaturthi. Apart from group discussion, many social media posts including Posters and Reels were posted including Covid-19 Guidelines and precautions to take during Ganesh Chaturthi.</p>
<p><b>25/10/2021 to 02/11/2021</b></p>	<p><b>Diwali Campaign</b> On the auspicious occasion of Diwali, the Eco club of ANDC had taken an initiative with the aim to aware people regarding the hazards of burning crackers, promoting Indigenous products like Diya’s and herbal rangoli colors. It was a 9-day campaign starting from 25<sup>th</sup> October until 2<sup>nd</sup> November. The campaign was a mixture of informative, Interactive and interesting online and offline events. A slogan writing competition, a rangoli making competition and an Anti-Cracker rally was carried out during this Campaign. Also posts were made to make people aware about the ‘Effects of crackers on nature’, ‘Using Diya’s instead of Chinese lights as a sustainable option’, ‘Child labor in crackers industry’, etc.</p>
<p><b>13/11/2021</b></p>	<p><b>Plantation Drive –</b> This plantation drive was organized in collaboration with the Eco clubs of SGND Khalsa College, Sri Aurobindo College, Mata Sundri College and Ambedkar University on 13<sup>th</sup> November 2021. During this plantation drive, around 80 saplings were planted of Snake plant, Bougainvillea, etc. at Bhuli Bhatiyari Regional Park, Near- Jhandewalan Metro Station.</p>

Acharya Narendra Dev College  
University of Delhi

NAAC ACCREDITATION GRADE 'A'-NIRF-2020 ALL INDIA RANKING- 18

**'PARITANTRA'**  
Presents  
**WEBINAR**  
ON

**"Effects of good ozone  
and bad ozone on  
Human's life"**

**E  
C  
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B**

Date : 16 sep 2021  
Time : 4pm  
Venue : Google meet

Dr. Seema Sharma  
Assistant professor,  
Vivekananda College, University of Delhi.  
BBC World News panelist.

For further queries  
Nikhil : 82875 25576  
Vridhi : 70420 05164

f i in  
ecoclub\_andc

**GLIMPSE OF THE  
Anti Crackers Rally**  
HELD ON 1ST NOVEMBER 2021

ecoclub\_andc



**ACHARYA NARENDRA DEV COLLEGE**  
**UNIVERSITY OF DELHI**  
NAAC ACCREDITATION GRADE 'A' - NIRF - 2021 ALL INDIA RANKING 2021

**'PARITANTRA'**  
PRESENTS  
**DIWALI CAMPAIGN**  
**2021**

**Begins on:**  
**25th oct**  
9 DAYS CAMPAIGN

Campaign Co-ordinators: Khushi Agrawal, Harsh Godara

**ACHARYA NARENDRA DEV COLLEGE**  
**UNIVERSITY OF DELHI**  
NAAC ACCREDITATION GRADE 'A'-NIRF-2021 ALL INDIA RANKING-20  
In Collaboration with,

**'PARITANTRA'**  
PRESENTS  
**Social Media**  
**Campaign:**  
**Eco friendly**  
**Ganesh Chaturthi**

**5 DAY EVENT**  
**Start date: Sept,17**  
**End date : Sept,21**

**Campaign Co-ordinators:**  
*Akanksha, Khushi, Vridhi*

**"गं गणपतये नमः"**

ecoclub\_andc

**ACHARAYA NARENDRA DEV COLLEGE**  
University of Delhi  
NAAC Accreditation Grade 'A'|NIRF-2020 All India Ranking 18

**Eco Club 'Paritantra'**  
Presents  
**Article Writing Competition**  
On The Occasion Of  
«Earth day»  
On the theme   
**Restoration of Earth**

Last Date Of Submission  
**24 April 2021**

 Submit Your Entries here  
<https://forms.gle/qK5xmhKJB4xihlyj9>

For further queries: Sanskriti Arunima  
97180 28390 60026 79769 

**ACHARAYA NARENDRA DEV COLLEGE**  
University of Delhi  
NAAC Accreditation Grade 'A'|NIRF-2020 All India Ranking 18

**Eco Club 'Paritantra'**  
Presents  
**Group Discussion**  
**Topic:**  
**"EFFECT OF MICRO PLASTICS  
ON MARINE LIFE"**

**Date- 21/04/2021** For further queries:  
**Time- 5 PM** Neeraj : 9354573764  
**Venue- Google meet** Rashid : 8076331954

**Under Project** @ecoclub\_andc  
**INDIGENOUS MATERIALS AND PLANTS** 


**ACHARAYA NARENDRA DEV COLLEGE**  
University of Delhi  
NAAC Accreditation Grade 'A'|NIRF-2020 All India Ranking 18

**Eco Club 'Paritantra'**  
Presents  
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**Topic:**  
**"EFFECT OF MICRO PLASTICS  
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**INDIGENOUS MATERIALS AND PLANTS** 





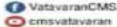



Environment & Wildlife International Film Festival and Forum  
A unique Green Movement to impact Policy, Perception & Practice.


In Association with  
HIGH COMMISSION OF CANADA IN INDIA  
& ACHARYA NARENDRA DEV COLLEGE, UNIVERSITY OF DELHI  
Celebrating  
**WORLD ENVIRONMENT DAY 2022**  
Theme: 'Only One Earth'


**Program Highlights**  
Postermaking Competition | Film Screening | Award Ceremony  
June 03, 2022 | 10:00 am – 01:00 pm  
Venue: Acharya Narendra Dev College, Govind Puri, New Delhi





 VatavaranCMS  
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 75 Azadi Ka Amrit Mahotsav







[www.cmsvatavaran.org](http://www.cmsvatavaran.org)



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UNIVERSITY OF DELHI  
ACCREDITED 'A' GRADE BY NAAC WITH SCORE 3.31.  
NIRF ALL INDIA RANKING - 20



**ECO CLUB 'PARITANTRA'**  
**PRESENTS**

**CAMPUS BIRD COUNT**



Date- 18/02/2022  
Timing- 8 AM Onwards  
At College Campus

For any query, Contact  
Nikhil- 8287525576

    [ecoclub\\_andc](https://www.instagram.com/ecoclub_andc)



## PLANTATION DRIVE





## **PLANTATION DRIVE**



## Green Campus



# THANKS







## ENGINEERING FACILITY SERVICES

O-806, Amarpali Zodiac, Sector-120, Noida (Uttar Pradesh) India, 201301

E-mail: [efs\\_info@yahoo.com](mailto:efs_info@yahoo.com); Mo: 8826682703

Energy Service Companies empaneled with Bureau of Energy Efficiency (BEE)

EFS/2022/03/111

Date: 14<sup>th</sup> March, 2021

### TO WHOM IT MAY CONCERN

This is to certify that Engineering Facility Services, Sector 120, Noida, (U.P.) has conducted the Energy Audit, Green Audit & Environment Audit in March 2021 for the session 2021-2022. Acharya Narendra Dev College (Delhi University), Govindpuri, Kalkaji, New Delhi-110019 has been undertaking satisfactory steps towards ensuring green campus, energy efficiency & sustainable environment. The areas of improvement have been identified which has been mentioned in the detailed reports.

Audit Site: Acharya Narendra Dev College (Delhi University), Govindpuri, Kalkaji, New Delhi-110019

Signature

DEEPAK  
Energy Auditor  
(EA-19771)  
Engineering Facility Services  
Noida-201301

Deepak

+91 8826682703

Certified Energy Auditor from Bureau of energy efficiency (EA19771)

Chartered Engineer (AM1517557) from "The Institution of Engineers (India)

NDT Level 2 certified professional





**ACHARYA NARENDRA DEV COLLEGE**  
**Govind Puri, New Delhi**





With the great inspiration, motivation and action from the dynamic and result oriented environmental programmes launched by Karmayogi Dr. Priya Ranjan Trivedi, the 26<sup>th</sup> World Environment Congress is being dedicated.



# INTERNATIONAL ASSOCIATION OF EDUCATORS FOR WORLD PEACE

Affiliated to United Nations (ECOSOC, UNDP, UNICEF, UNESCO)

## 26<sup>th</sup> WORLD ENVIRONMENT CONGRESS

Organised by

Confederation of Indian Universities  
Indian Institute of Ecology and Environment  
National Institute of Cleanliness Education and Research

The Search Committee has pleasure in conferring upon

Acharya Navendra Dev College  
Dv Savitri Singh, Ponnampal

## WORLD ECOLOGY, ENVIRONMENT AND DEVELOPMENT (WEED) AWARD

with all the rights and privileges appertaining thereto.

Presented on 7 and 8 November 2017 on the auspicious occasion of the 37<sup>th</sup> Anniversary of the Indian Institute of Ecology and Environment held at India International Centre, New Delhi.

*Charles Mercieca*  
Dr. Charles Mercieca  
President, IAEWP



*Tanuja Trivedi*  
Dr. Tanuja Trivedi  
Director



# Certificate of Appreciation



**2018** Awarded to

ACHARYA NARENDRA DEV COLLEGE  
(UNIVERSITY OF DELHI)

## CONGRATULATION

And with Sincere thanks for your tireless Effort and valuable Role in Building the Foundation of Protect our tree and Mother Earth. Show below in Index that what your Contribution in Environment and not save nature even start movement of aware to people save trees for coming Generations.



Recycled 251 kg waste paper	
Tree	4.267
Water(Gallon)	2815.718
Energy(Kwh)	1250.482
Greenhouse Gas(Kg)	239.956

(Authorized Signatory)





# NATIONAL ENVIRONMENT CONVENTION 2018 47<sup>th</sup> WORLD ENVIRONMENT DAY CELEBRATIONS

Jointly Organised by

## INDIAN INSTITUTE OF ECOLOGY AND ENVIRONMENT, NEW DELHI

and

## NATIONAL INSTITUTE OF CLEANLINESS EDUCATION AND RESEARCH (NICER)

**ENVIRONMENTAL PROTECTION IS A NATIONAL RESPONSIBILITY**

The Governing Council of the International Association of Educators for World Peace  
(Affiliated to United Nations : ECOSOC, DPI)

Indian Institute of Ecology and Environment (IIEE) and National Institute of Cleanliness  
Education and Research (NICER) have pleasure in conferring

# PLASTIC FREE COLLEGE OF THE YEAR AWARD

upon

## Acharya Narendra Dev College

Govind Puri, Kalkaji, New Delhi

Principal : Dr. Savithri Singh

Faculty Members :

Dr. Seema Gupta, Dr. Vatsla Kohli

Dr. Gagan Dhawan, Dr. Abhishek Mehta

Students : Manisha, Rajat Mann, Lokender


Priya Kaushal, Senjuti Sengupta


based on their outstanding contribution in the fields of ecological and environmental  
protection, cleanliness, hygiene and sanitation education.

Given at New Delhi on the auspicious occasion  
of the World Environment Day Celebrations and  
the National Environment Convention 2018  
at India International Centre, New Delhi  
on 5 - 6 June 2018 in the presence of  
national and international dignitaries.



  
Dr. Charles Mercieca  
President, IAEWP

  
Dr. Tanuja Trivedi  
Director, IIEE

  
Dr. Utkarsh Sharma  
Director, NICER



GO GREEN  
recycle



Rotary  
District 3011



PRIDE  
The Ramon Magsaysay Center  
University of the Philippines Diliman  
Quezon City, Philippines

## CERTIFICATE OF COLLABORATION

This certificate is proudly presented to

# PARITANTRA - THE ECO CLUB, ANDC

for successfully collaborating with our club, ROTARACT  
CLUB OF RAMANUJAN COLLEGE RID 3011 ZONE 5 in the  
“Plantation Drive” organised on 7th September 2021.

**RTR. DHRITI SHARMA**

President

**RTR. RIMJHIM CHAKRAVERTY**

Secretary

**RTR. ADITI CHAUHAN**

Vice-President







## Action Taken Report (Energy Conservation)

Auditor highlighted the need of rooftop solar panel for renewable energy generation and more LED lights in college classrooms for energy conservation.

### 1. Rooftop solar Panel




### LED installation:



Officiating Principal  
Acharya Narendra Dev College  
(University of Delhi)  
Govindpur, Kalkaji  
New Delhi-110019



  
Officiating Principal  
Acharya Narendra Dev College  
(University of Delhi)  
Govindpuri, Kalkaji  
New Delhi-110019







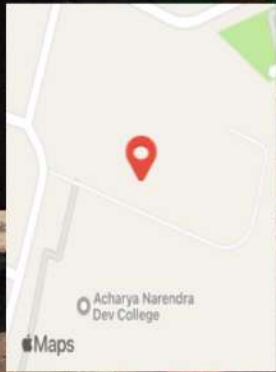






Life & Pursuits

GPS Map Camera

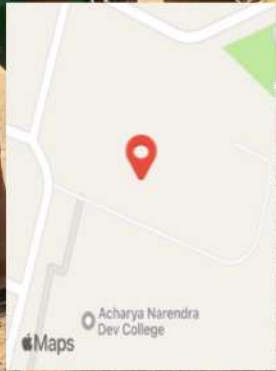


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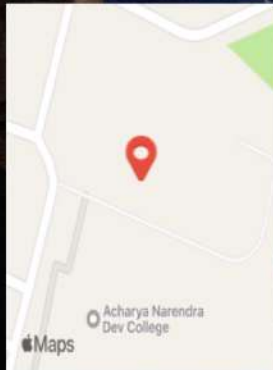


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GPS Map Camera





Acharya Narendra  
Dev College  
Apple Maps

GPS Map Camera

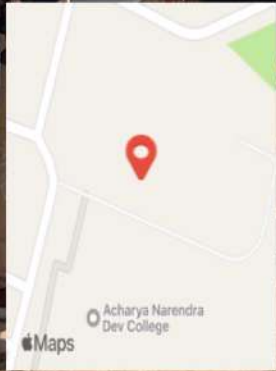
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DEPARTMENT OF BOTANY  
वनस्पति विज्ञान विभाग

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UNIVERSITY OF DELHI

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NIRF ALL INDIA RANKING - 20



# **ECO CLUB 'PARITANTRA' PRESENTS**

## **CAMPUS BIRD COUNT**



Date- 18/02/2022

Timing- 8 AM Onwards  
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For any query, Contact  
Nikhil- 8287525576





# BUTTERFLIES

## The Fluttering Gems

A Photographic Compilation of Butterflies seen in ANDC Campus



Vinesh Kumar & Rajesh Chaudhary  
Department of Biomedical Science



Common Leopard (*Phalanta phalantha*)



Common Evening Brown (*Melanitis leda*)



Striped Tiger (*Danaus genutia*)



Yellow Fanny (*Junconia hierta*)



Common Emigrant (*Catopsilia pomona*)



Plains Cupid (*Chilades pandava*)



Spotless Grass Yellow (*Eurema lacta*)



Common Baron (*Euthalia aconthis*)



Pea Blue (*Lampides boeticus*)



Tiny Grass Blue (*Zizula hylax*)



Psyche (*Leptosis nina*)



Dark Grass Blue (*Zizeeria karsandra*)





Yellow Orange-tip (*Xanthopan pyrene*)



Common Castor (*Ariadne merione*)



Mottled Emigrant (*Catopsilia pyranthe*)



Gram Blue (*Euchrysops cnejus*)



Painted Lady (*Vanessa cardui*)



Common Grass Yellow (*Extrema hecabe*)



Peacock Pansy (*Junonia almana*)



Forget-me-not (*Catoclyrops strabo*)



Common Mormon (*Papilio polytes*)



Indian Cabbage White (*Pieris canidia*)



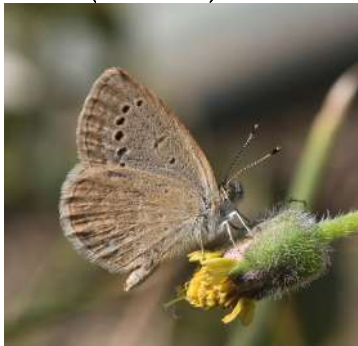
Zebra Blue (*Leptotes plinius*)



Common Jay (*Graphium doson*)



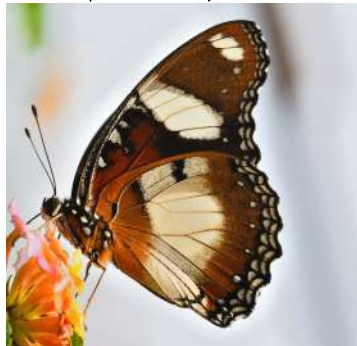
Pale Grass Blue (*Pseudonitzscheria maha*)



Pioneer (*Belenois aurora*)



Danaid Eggfly (*Hypolimnas misippus*)



Lime Blue (*Chilades lajus*)



Red Pierrot (*Taliscanda nyscus*)



Lime Butterfly (*Papilio Demoleus*)



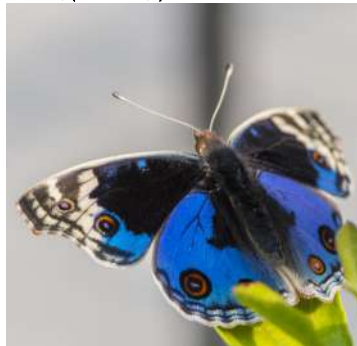
Plain Tiger (*Danaus chrysippus*)



Lemon Pancy (*Junonia lemonias*)



Blue Pancy (*Junonia orithya*)



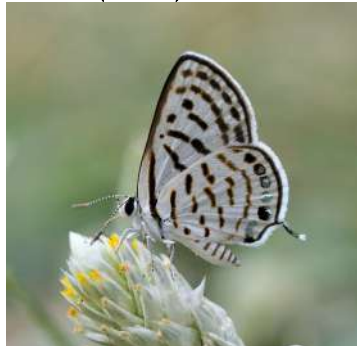
Common Gull (*Cepora nerissa*)



Large Cabbage White (*Pieris brassicae*)



Rounded Pierrot (*Tarucus nara*)





# Certificate of Appreciation



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## CONGRATULATION

And with Sincere thanks for your tireless Effort and valuable Role in Building the Foundation of Protect our tree and Mother Earth. Show below in Index that what your Contribution in Environment and not save nature even start movement of aware to people save trees for coming Generations.



Recycled 251 kg waste paper	
Tree	4.267
Water(Gallon)	2815.718
Energy(Kwh)	1250.482
Greenhouse Gas(Kg)	239.956

(Authorized Signatory)





*Presented to*

**ACHARYA NARENDRA DEV COLLEGE**

(DELHI)

*In recognition of their Green Initiative of  
"Waste Paper Recycling" through  
Green-O-Tech India,® in Year 2018*

*thanking you for building a stronger  
partnership together for "Saving Mother  
Earth".*

Total Waste Paper Recycle  
734

Total Tree Planted  
7

January 2019 | New Delhi



  
Prashant Rana  
Founder & CEO  
Green-O-Tech India®