



Miranda House

UNIVERSITY OF DELHI



ENVIRONMENT AUDIT REPORT

PREPARED BY
EHS ALLIANCE SERVICES



Miranda House



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AUDIT CERTIFICATE



CERTIFICATE NO. EHSAC50B

CERTIFICATE

PRESENTED TO

M/S MIRANDA HOUSE

GC Narang Road, University Enclave, New Delhi, Delhi 110007

Has been assessed by EHS Alliance Services for the comprehensive study of environmental impacts on institutional working framework to fulfill the requirement of

ENVIRONMENT AUDIT

The environment legal compliances and initiatives carried out by the College have been verified on the report submitted and was found to be satisfactory.

The efforts taken by management and faculty towards environment and sustainability are highly appreciated and noteworthy.

SIGNATURE



12.01.2021

DATE OF AUDIT

EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001
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ACKNOWLEDGEMENT

EHS Alliance Services would like to thank the management of Miranda House for assigning this important work of Environment Audit. We appreciate the co-operation to the teams for completion of assessment.

We would also like to thank **Dr. Nisha Vashishta** – IQAC convener, for her Continuous Support and guidance, without which the completion of the project will not be possible. We are also thankful to other staff members who were actively involved while collecting the data and conducting field measurements.

We are also thankful to

Dr. Mallika Verma – Convener, Academic Committee

Dr. Amrita T. Sheikh – Convener, MH Vatavaran

Dr. Saloni Bahari – IQAC member

Dr. Namrata Singh – IQAC member

Dr. Monika Tomar, IQAC member

Mr. Jyoti Prakash – Section Officer, Admin

Mr. Sudhir Aggarwal – Section Officer, Accounts

Mr. Shiv Kumar – Site Engineer

Last but not the least, we would like to thank **Dr. Bijayalaxmi Nanda** - Principal, Miranda House for giving us an opportunity to evaluate the environmental performance of the campus.



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DISCLAIMER

EHS Alliance Services Audit Team has prepared this report for Miranda House based on input data submitted by the representatives of College complemented with the best judgment capacity of the expert team.

While all sensible care has been taken in its preparation, details contained in this report have been compiled in good faith based on information gathered.

It is further informed that the conclusions are arrived following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

If you wish to distribute copies of this report external to your organisation, then all pages must be included.

EHS Alliance, its staff and agents shall keep confidential all information relating to your organisation and shall not disclose any such information to any third party, except that in the public domain or required by law or relevant accreditation bodies.

EHS Alliance staff, agents and accreditation bodies have signed individual confidentiality undertakings and will only receive confidential information on a 'need to know' basis.

Signature

LEAD AUDITOR



|| CONCEPT AND CONTEXT

In India, the process for environmental audit was first mentioned under the Environment Protection Act, 1986 by the Ministry of Environment of forests on 13th march, 1992. As per this act, every person owning an industry or performing an operation or process needs a legal consent and must submit an environmental report or statement.

The National Assessment and Accreditation Council, New Delhi (NAAC) has made it mandatory from the academic year 2019–20 onwards that all Higher Educational Institutions should submit an annual Green, Environment and Energy Audit Report. Moreover, it is part of Corporate Social Responsibility of the Higher Educational Institutions to ensure that they contribute towards the sustainable environment.

In view of the NAAC circular regarding environment auditing, the College management decided to conduct an external environment assessment study by a competent external professional auditor.

The term 'Environmental audit' means differently to different people. Terms like 'assessment', 'survey' and 'review' are also used to describe similar activities. Furthermore, some organizations believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety and environment-related matters. Although there is no universal definition of Environment Audit, many leading companies/institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its publication of Environmental Auditing (1989).

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management and equipment are performing with the aim of safeguarding the environment and natural resources in its operations/projects."

This audit focuses on the environment legal compliances and implementation of rules defined by MoEFCC or state pollution control board. The concepts, structure, objectives, methodology, tools of analysis, and objectives of the audit are discussed below.



|| INTRODUCTION

Nature is very precious gift for all life forms. Disturbance in the nature causes environmental Problems. These are increasing day by day as a result of development of urbanization and industrialization on earth. Because of unplanned utilization of resources, our planet is facing tremendous pressure results a sharp rise in temperature. Therefore, there is an urgent need to plan the consumption of the resources in sustainable manner in order to conserve natural resources for future generation.

Sustainable development is becoming popular in the world for saving the earth. Utilizing resources in judiciously can save the earth's precious resources. Measurement of environmental components is the most effective step to conserve and protect natural resources.

Environmental auditing had begun in the early 1970s with provision of civil lawsuits for non-compliance with environmental regulations. Environment auditing involves on site visit, collection of samples, performing analyses, and report results to competent authorities.

Industry, the corporate world is initiating auditing for saving natural resources. Academic institutions also can contribute to the preservation and conservation of resources within their premises.

In this "Environment Audit" report would help everyone to think about preserving resources, show willingness to learn their importance, adopt steps to minimize resource use and set an example for others to follow the path of eco-friendly practices to achieve the goal of sustainable development. Effective implementation of environmental auditing helps in minimization of environmental risks at low cost.



Miranda House

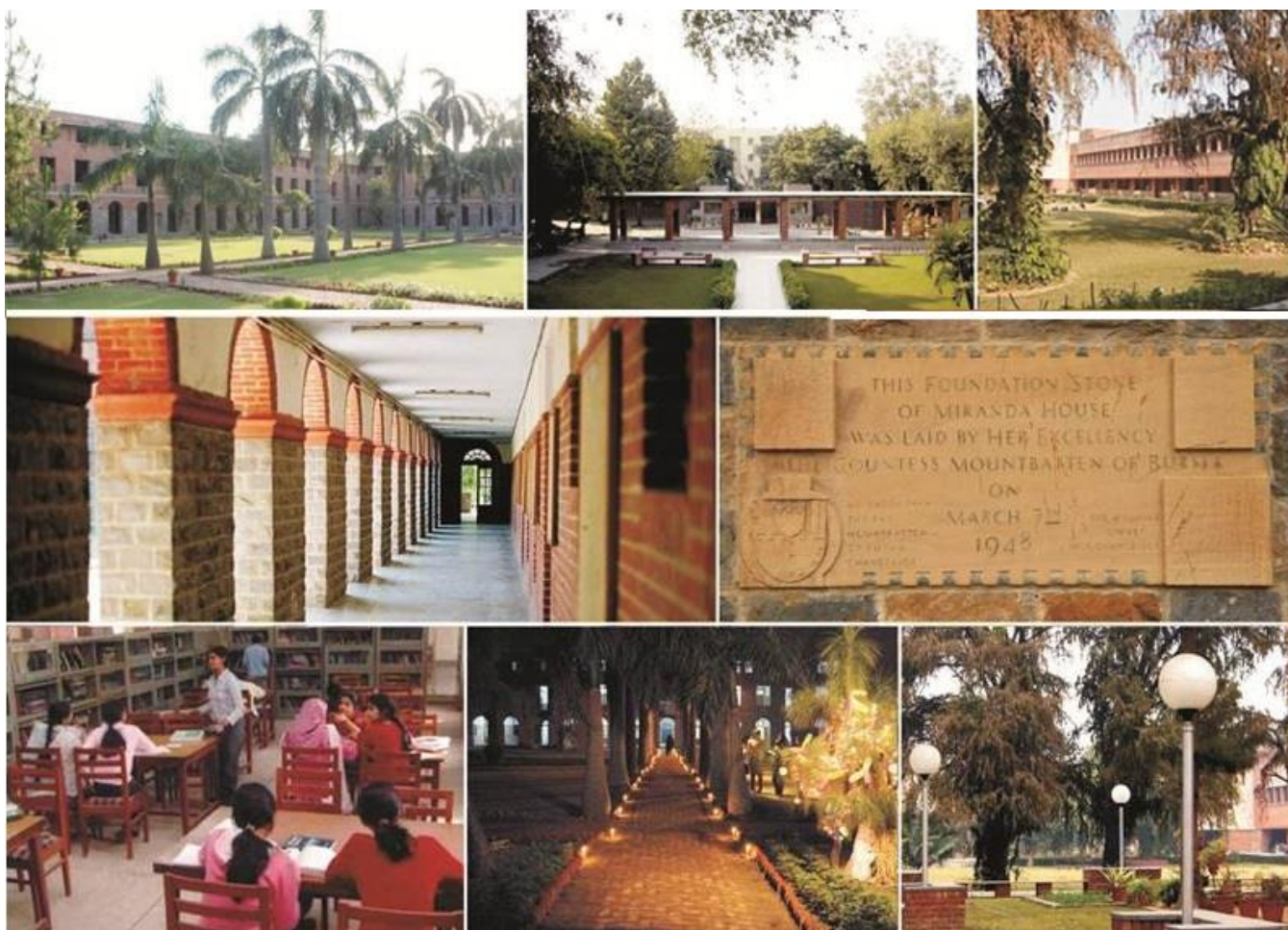


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OVERVIEW OF THE COLLEGE

Miranda House, college for women, located in the University of Delhi campus, is a premier women's institution. It was established in 1948 by the then Vice Chancellor, Sir Maurice Gwyer. Lady Edwina Mountbatten laid its foundation stone on March 7 in the same year. Originally designed by renowned architect Walter George, Miranda House is built in warm red brick with cool and spacious corridors. The College shares an architectural affinity with other colonial educational institutions of the country. In the past six decades, as the College has grown, several other buildings have been added in consonance with its original design. Special efforts are on to preserve the heritage of its pristine architectural glory.

Miranda House offers liberal education in social sciences, humanities and basic sciences to more than 4000 students. The faculty, renowned for its meritorious profile and versatile talent, is dedicated to the cause of liberal education. Through their three years at Miranda, our students develop a sense of social responsibility, intellectual rigour, and practical knowledge. They develop communication, analytical and problem-solving skills, and a demonstrated ability to apply their education to our complex and diverse world.





The College has always maintained high academic standards. More significantly, it has provided students an enabling and creative environment to freely develop and express views that help them respond to changes in society. Being on the University campus, its proximity to other colleges facilitates the participation of Miranda students in several inter-college events, both academic and cultural. Those who will make the College hostel their home for the next three years have the privilege of residing in one of the most beautiful residential buildings on the University campus. The institution's philosophy is guided by a pedagogy that encourages the students to explore new domains, to critically examine the world around them and to question stereotypes.

The Legacy... traditions and institutional values

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MH has a rich legacy. Established at dawn of independence it provided a unique opportunity to young women for quality higher education. They set for themselves high goals and ideals. They worked for a new society in which women would enjoy equal opportunity with men in professional and public fields. In this, they were abetted by the founding faculty who were independent minded, and belonged to the select group of highly educated women in independent India with a deep concern for quality of education they imparted. They were also charged with a spirit of adventure, steeped in idealism, and committed to women empowerment and the task of building a nation. Proud of their mission as early pioneers, they worked with single-minded devotion in setting the Miranda traditions. These attributes of total dedication have contributed in a large measure to the position of distinction occupied by the college. Over near seven decades of its existence, the college has grown from strength to strength, continuing to provide an atmosphere of high academic excellence and rich cultural activities to its students. The college has established a niche for itself amongst the globally recognized premiere institutions of higher learning.





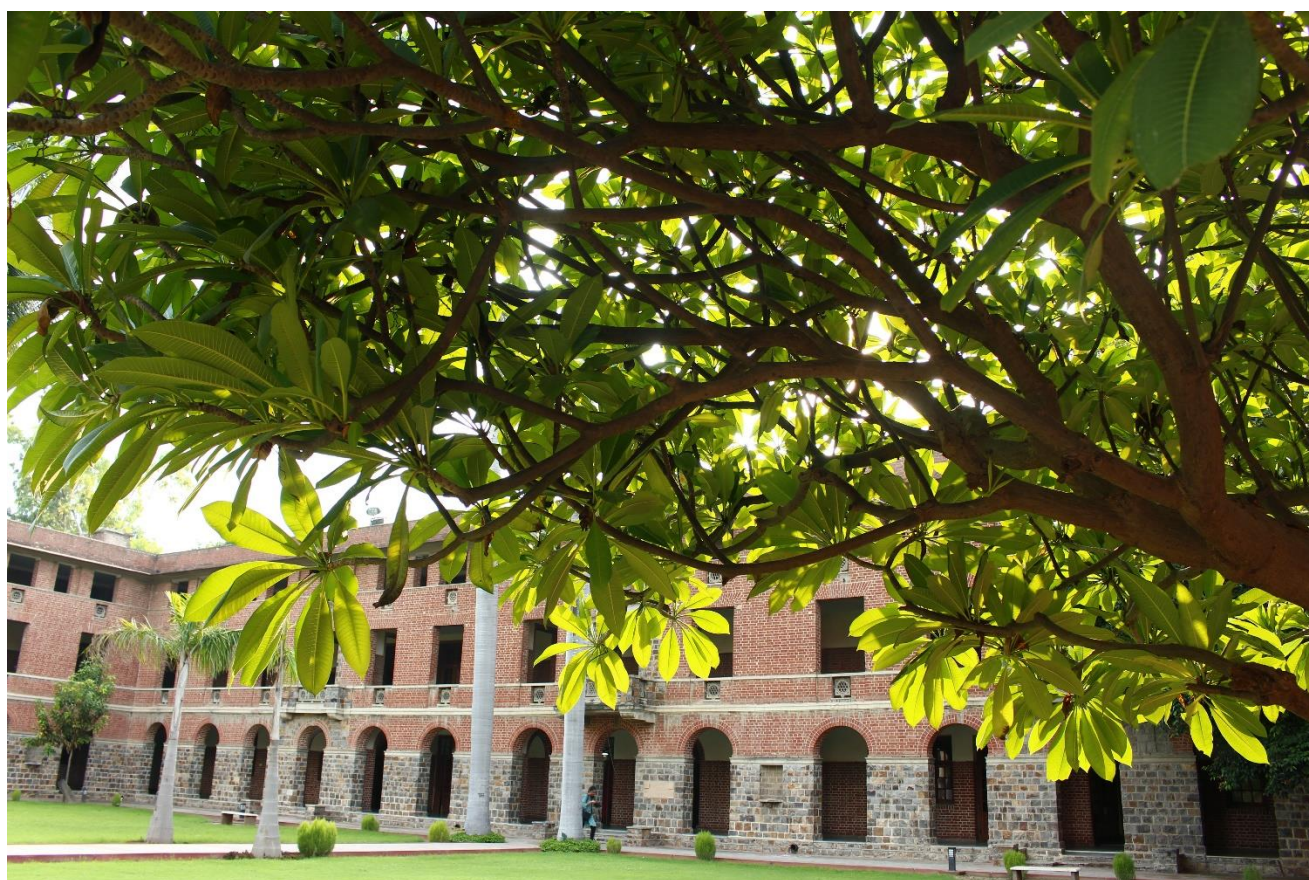
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Being a college established and maintained by the University, Miranda House has a special place among the women's colleges of the University of Delhi. Its location in the heart of the University Campus, and its close interaction with the various Departments of the University and other campus colleges gives it a unique advantage. Although a women's college, it is not a cloister. It welcomes interaction with other colleges and educational organizations across the country, actively engaging both men and women in all its extramural activities, competing with the best on equal terms.

The extremely distinguished list of alumnae imparts a sense of confidence and immense pride in students. They view themselves as torchbearers of great traditions. All this propels them to often explore uncharted territory, think unfettered, and bend traditions in a bid to create a better world, especially for women.



Vision

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Swadhyayann pramaditavyam steer students towards introspection and self-learning the Upanishadic maxim in the college logo enshrines its understanding of what education must accomplish.

MH envisions a world where women have their rightful place and are given due recognition as leaders to reach the top positions in all sectors of human endeavor. To give shape to this vision, Miranda House



Miranda House



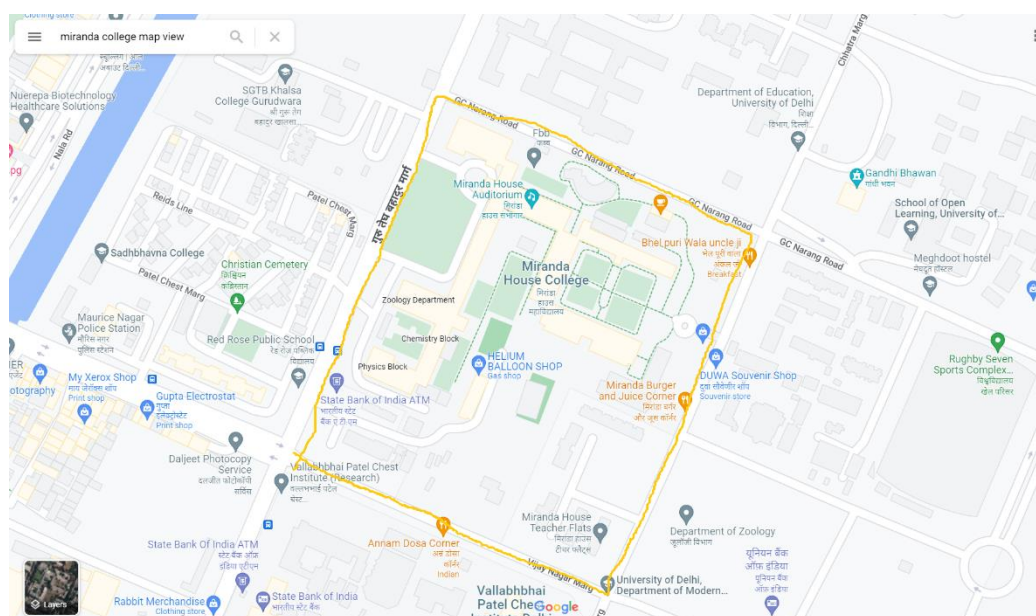
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continually reaffirms and embraces its responsibility to build on its historic legacy of leadership in education of women. It remains strongly committed to addressing issues of gender in all their complexity and preparing the young women to lead professionally successful lives enriched by the love of learning build personally fulfilling lives radiating integrity and strength of character sustain purposeful engagement with the world with an open mind and balanced perspective meet with confidence the challenges they will encounter in their lives flourish in different cultural milieus in an increasingly interconnected world uphold the core institutional values of respect for diversity, inclusiveness and humanism emerge as leaders charged with new ideas and capacity to make a difference

Mission

The stated mission of the college is to provide

- a stimulating active learning environment attracting young women with exceptional desire to make a difference to the world
- highest quality liberal arts and basic science education through distinctive academic programmes that instill rigour in the pursuit of knowledge
- culturally sensitive inclusive environment upholding core values of respect for diversity
- enriching co-curricular activities linking education to the world of work and communities
- dedicated and responsive faculty of scholars to assist each student fulfill aspirations and reach milestones
- competencies for new domains of knowledge and the future of work in a globally connected world
- early mentoring for leadership instilling capacity to explore new ideas, take intellectual risk, and usher paradigm change



Geo Location : Geo Coordinates from Google maps: 28.6928674,77.2080126



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AUDIT PARTICIPANTS

On behalf of College

Name

Dr. Bijayalaxmi Nanda – Principal, Miranda House
Dr. Mallika Verma – Convener, Academic Committee
Dr. Amrita T. Sheikh – Convener, MH Vatavaran
Dr. Nisha Vashishta – IQAC, Coordinator
Dr. Saloni Bahari – IQAC member
Dr. Namrata Singh – IQAC member
Dr. Monika Tomar, IQAC member
Mr. Jyoti Prakash – Section Officer, Admin
Mr. Sudhir Aggarwal – Section Officer, Accounts
Mr. Shiv Kumar – Site Engineer

On behalf of EHS Alliance Services

Name	Position	Qualifications
<i>Mr. Puneet Kaushik</i>	<i>Lead-Auditor</i>	<i>M.Sc, M.Tech, Lead Auditor ISO 14001:2015, NEBOSH, IOSH, OSHAS, Field Expert, ISO 45001:2015</i>
<i>Dr. Uday Pratap</i>	<i>Co-Auditor</i>	<i>Ph.D. , PDIS, QCI – WASH, Lead Auditor ISO 14001:2015</i>



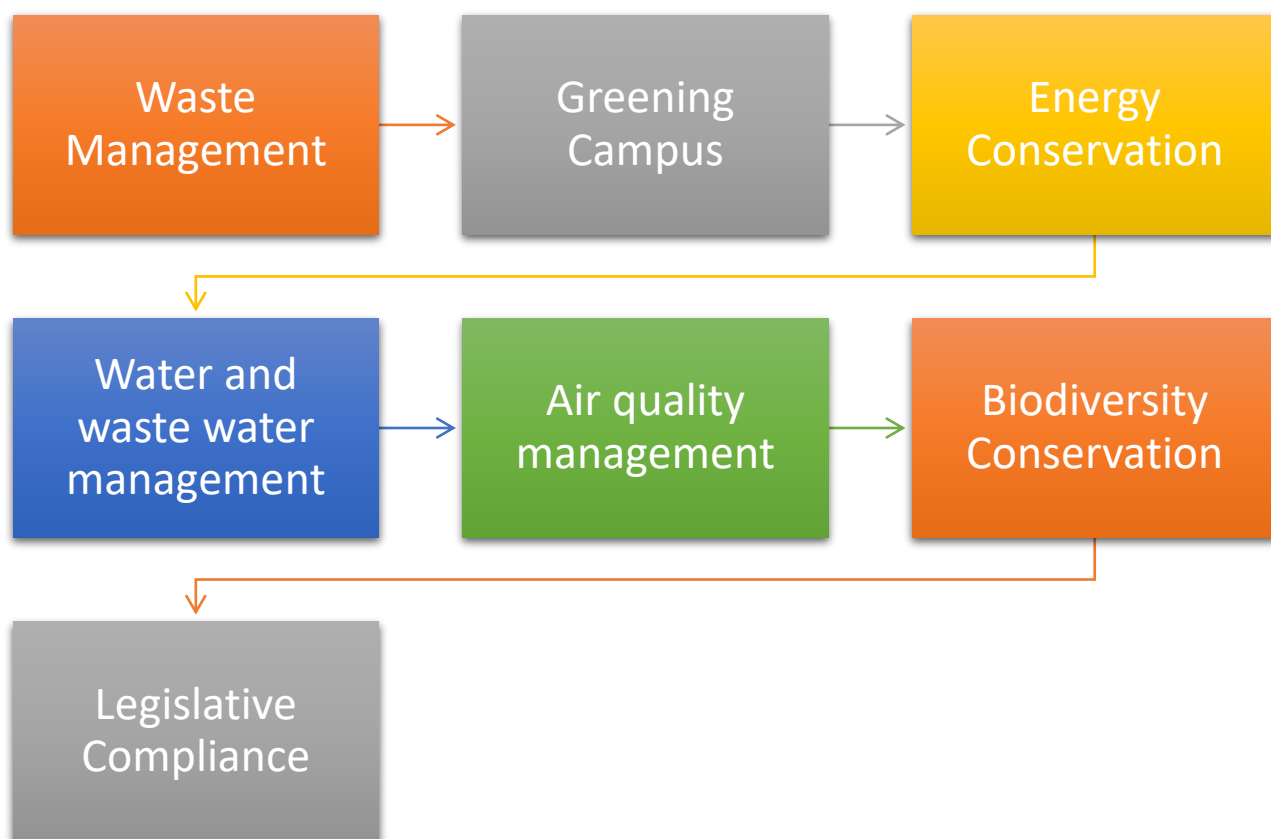


EXECUTIVE SUMMARY

The environment 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 out-dated unless there is some mechanism in place to continue the effort of monitoring environmental compliance. Our approach to promote a Green Campus to inculcate the sustainable value systems among the students, so that they carry the learning and practices them in their future endeavours. This will ensure that Sustainability and Environmental practices get embedded in all the institutions and organizations in the country.

A Green Campus is a place where environmentally friendly practices and education combine to promote sustainability in the campus which ultimately offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

This is very first environment audit of College for doing their bit towards environmental protection and environmental awareness at local and global front. 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 audit. This audit report contains observations and recommendations for improvement of environmental consciousness.





WASTE MANAGEMENT

TYPES OF WASTE ON COLLEGE CAMPUS

To create effective waste management plans, College first need to know the types of waste they produce. Below, we have compiled a list of various kinds of waste commonly generated on institutional campus:

1. **Food Waste** - College campus generates food waste. The average mess and canteen generates approximately 15 kg of food waste a day. The reasons for food waste on an educational campus may be over purchasing food to ensure a sufficient supply and then throwing it away, especially in all hostel messes where plentiful stores are essential. And in the cafeteria or hostel mess, students may pile food onto their ample trays, find it unappealing once they sit down and dutifully scrape it into the garbage. Immediate attention is given to the food waste minimization techniques.
2. **Recyclable Paper, Cardboard, Plastic, Glass and Cans** -Campus tends to produce vast quantities of these recyclables. Even in the digital age, many students, professors and staff members still prefer handwritten notes and end up with piles of unwanted paper once their courses and projects are complete. For solution to this critical issue, MH has paper recycling plant in the campus, which has been in constant use for over ten years. The snacks so essential to late-night studying or socializing tend to come in recyclable plastic, glass or aluminium containers. And shipments of necessary items throughout the year are likely to arrive in recyclable plastic and cardboard packaging. The same is sold/auctioned to the scrap vendors time to time.
3. **Student Clothes and Housewares** - As we have mentioned above, many students find it more convenient to throw away their clothes and dorm furnishings at the end of the year than donate or recycle them. But, College has initiated a donation camp in association with “Goonj” NGO for donating summer and winter clothes to help needy people.
4. **E – Waste - Student and facility electronics often form a large portion of a campus’s waste** — As campus continually upgrade their computing facilities and office computers to keep up with the latest technology, the old computers have to go somewhere. So do old printers, phones, copy machines and other electronics that receive upgrades over the years. Discarded student electronics often become part of a College’s waste stream as well. Students may throw away old phones, TVs, tablets, laptops and printers, along with cords and other accessories. Recycling is a much more eco-friendly option — the metals in old electronics often have a high reuse value. College has tie-up with external authorised agency details mentioned in legislation compliances.
5. **Chemical Waste** - Chemical waste on a College campus may come from numerous sources. Campus laboratories generate waste chemicals, as do cleaning services. The detergents used in campus laundry rooms eventually become waste as well. Much of these chemical substances are



hazardous waste under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and must undergo specific disposal processes according to state environmental rules and regulations.

6. **Maintenance Waste** - In the maintenance department, spent paints, solvents, adhesives and lubricants all form potentially hazardous waste. Because they are difficult to recycle, spent incandescent light bulbs usually become landfill waste. Spent fluorescent light bulbs, which contain small amounts of mercury, typically require special handling because of the environmental and health risks they pose.
7. **Biological Waste** - Biological waste from laboratories will require special handling and disposal as per BMW Rules, 2016. Tissue from biology forms biological waste, as do tissue samples, contaminated bandages and used sharps from medical facilities.
8. **Furniture** - Furniture waste on a College campus has a couple different sources. The campus itself may also get rid of old furniture as it modernizes its classrooms, cafeterias, computer labs and study spaces. Annually sold to junk dealer.
9. **Books/Magazines/Newspapers** - Books accounted for solid waste generation and College often generate tons of textbook waste. As courses upgrade to new editions, they may end up throwing their newly obsolete textbooks into the garbage if donation programs cannot use them. Students of MH donate their text books and notes to junior students, or else are auctioned to reseller.
10. **C & D Waste** - Due to expansion of College campus building and renovation works result significant amount of construction and demolition waste that should be either used for back filling or disposed off through authorised dumping site by CPCB/SPCB.
11. **Solid Waste** - The College is managing solid waste by providing it to the MCD.
12. **Horticulture Waste** – College campus has lavish greenery and grounds that results significant horticulture waste which is managed by in-house composting system.



|| ENERGY CONSERVATION

1. List ten ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.

- Electricity saves by use of LED bulbs for illumination
- Sensor based lights are installed in new building and library for energy saving
- LPG saves by use of Pressure cookers for cooking food.
- Solar heaters usage in kitchens and hostels
- Solar power plant – 7KW installed, to save electricity

2. Are there any energy saving methods employed in your institute? If yes, please specify. If no, suggest some

Yes, campus has adopted energy saving techniques

- Renewable source of energy through 7 KW solar panel is operational
- Solar heaters are installed for hostel and mess
- LED and sensor based lights have been installed in new buildings

3. How many CFL/LED bulbs has your institute installed?

Approx 45 % of Total Conventional bulbs and tube lights are replaced by LED/CFL Lights.

4. Do you run “switch off” drills at institute?

Yes

5. Are your computers and other equipment's put on power-saving mode?

No, college switch off the mains

6. Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?

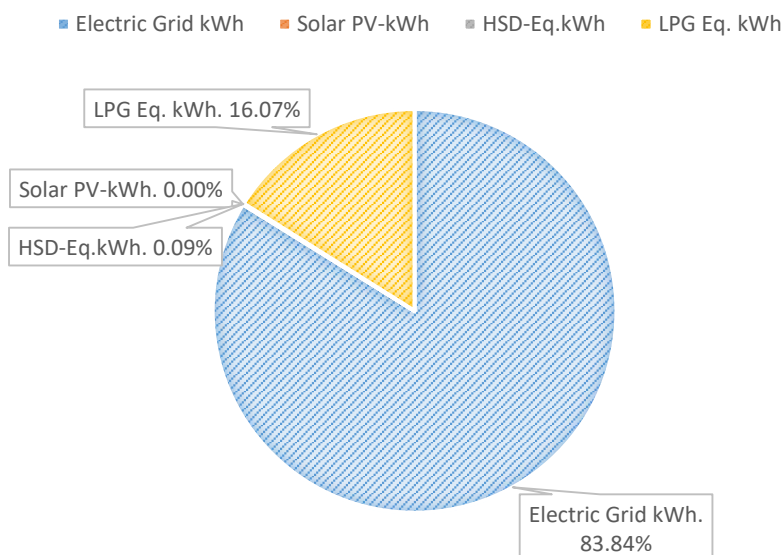
Yes, approx. 6 hours



Energy Share	kWh	Percentage
Electric Grid kWh	406431.00	83.84
Solar PV-kWh	0*	0
HSD-Eq.kWh	438.40	0.09
LPG Eq. kWh	77882.84	16.07
Total -kWh	484752.24	100

*Solar power plant is not operational during this period because of the ongoing pandemic restrictions

ENERGY SHARE IN KWH



WATER AND WASTE- WATER MANAGEMENT

1. List uses of water in your institute

Basic use of water in campus:

Drinking – 157.27 KL/month



Gardening – 126.00 Kl/month

Kitchen and Toilets – 1035.71 KL/month

Others – 202.05 KL/month

Hostel – 1080.00 KL/Month

Total = 2601.04 KL/Month

2 How does your institute store water? Are there any water saving techniques followed in your institute?

There are total 192500 liters water storage of water and boosting within the College campus.

Sl. No	Storage Type	Capacity	Quantity	Total (in Litres)
1	OVER HEAD TANK	500	75	37500
2	OVER HEAD TANK	1000	19	19000
3	OVER HEAD TANK	2000	3	6000
4	OVER HEAD TANK	3000	1	3000
5	UNDER GROUND TANK (Fire tank)	5000	3	15000
6	UNDER GROUND TANK	34000	3	102000
7	UNDER GROUND HEAD TANK	10000	1	10000
	TOTAL STORAGE CAPACITY			192500

Saving Techniques

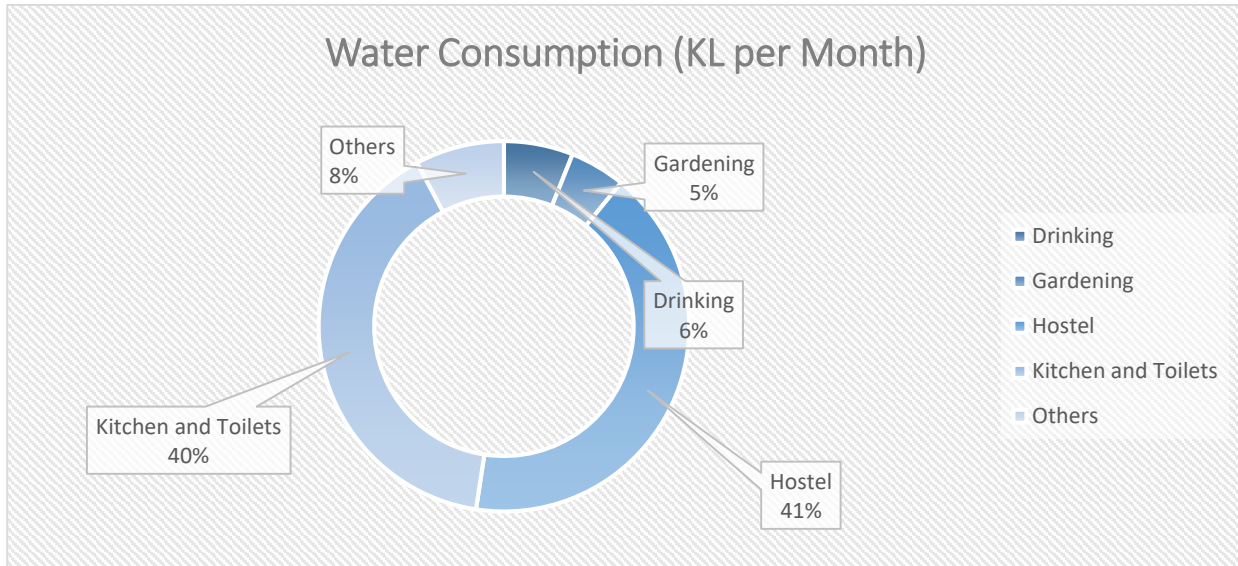
- *Avoid overflow of water controlled valves are provided in water supply system.*
- *Close supervision for water supply system.*
- *Sprinklers usage for gardening and grass cover*
- *Water Conservation awareness for new students*

3. Locate the point of entry of water and point of exit of waste water in your institute. (Entry and Exit)

Entry - Water comes from MCD.



Exit- From Canteen, Toilets, bathrooms, Hostels and Laboratories through covered drainage which is connected to sewage



4. Write down ways that could reduce the amount of water used in your institute

Basic ways:

- *Sprinklers usage for gardening and grass cover*
- *Advanced mopping machines which uses less water*
- *Maintenance and monitoring of valves in supply system to avoid overflow, leakage and spillage*
- *Water Conservation awareness for new students*

5. Does your institute harvest rainwater?

Yes, there is one large unit for rain water storage

6. Is there any water recycling System?

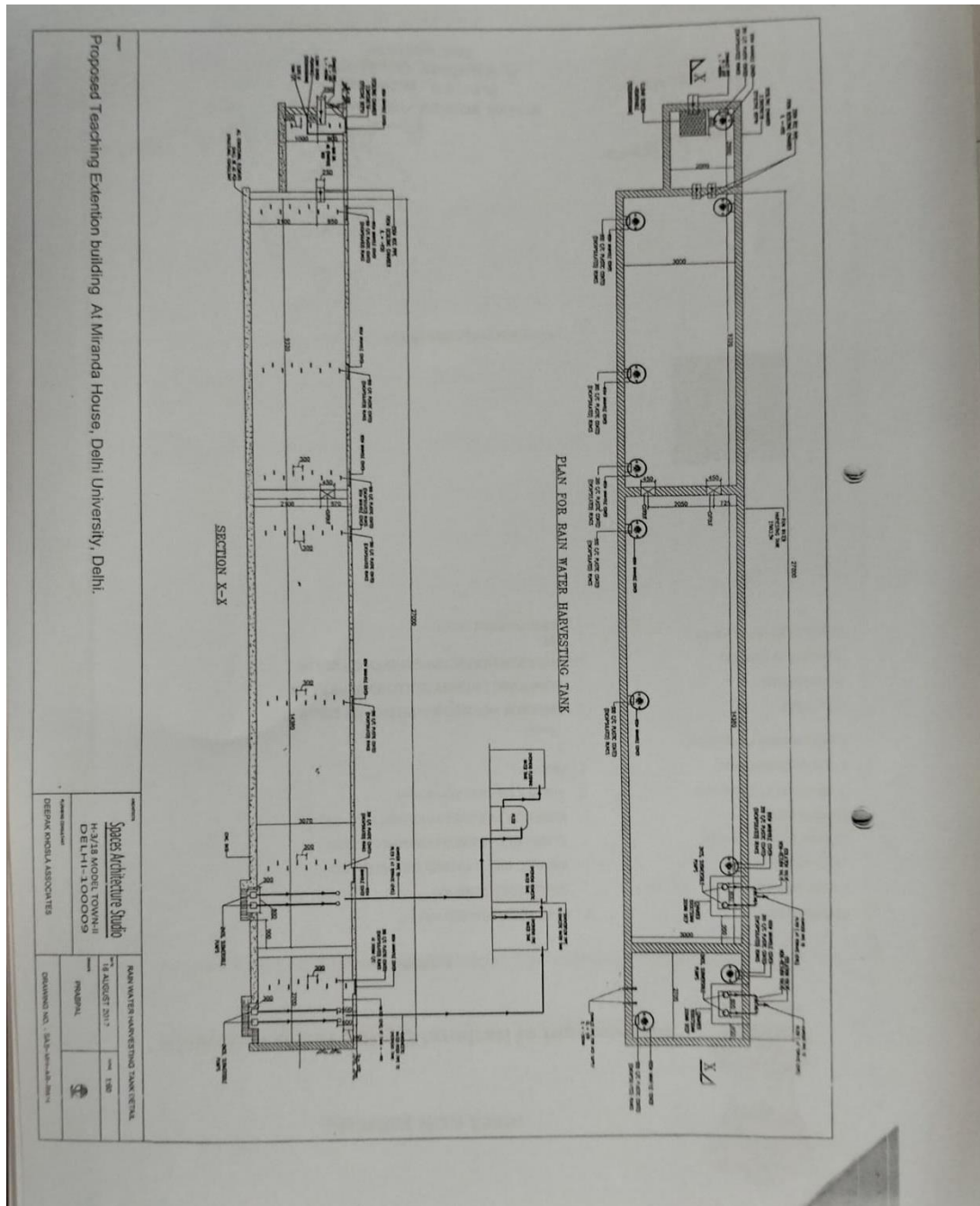
No



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The drawing of Rainwater storage tank



AIR QUALITY MANAGEMENT

1. Are the Rooms in Campus Well Ventilated?

Yes, as per National Building Code, guidelines

2. Window Floor ratio of the Rooms?

Very Good, ample daylight utilization because of big windows.

3. What is the ownership of the vehicles used by your campus?

There are no college owned vehicles.

4. Provide details of school-owned vehicles?

NA

5. PUC done?

NA

6. Specify the type of fuel used by your campus's vehicles

NA

8. Air Quality Monitoring Program (If, Any)

No



ENVIRONMENT LEGISLATIVE COMPLIANCE

1. Are you aware of any environmental Laws Pertaining to different aspects of environmental management?

Yes, faculty members and administrative team is well aware of national environmental laws.

2. Does your institute have any rules to protect the environment? List possible Rules you could include.

Yes, initiatives are being taken by College to reduce pollution and go green.

3. Does Environmental Ambient Air Quality Monitoring conducted by the Institute?

No

4. Does Environmental Water and Waste water Quality monitoring conducted by the Institute?

No

5. Does stack monitoring of DG sets conducted by the Institute?

No

6. Is any warning notice, letter issued by state government bodies?

No

7. Does any Hazardous waste generated by the Institute?

No



|| GENERAL

1. Does your institute have any rules to protect the environment? List possible rules you could include.

Yes, MH Vatavaran society carries out a number of workshops, campaigns, and awareness programmes for environment protection in campus.

2. Are students and faculties aware of environmental cleanliness ways? If Yes Explain

Yes, various awareness campaigns like swachhta pakhwara, Swachh Bharat Abhiyan, plantation drive, energy conservation, pollution reduction campaigns carried out by College

3. Does Important Days Like World Environment Day, Earth Day, and Ozone Day etc. eminent in Campus?

Yes, World Environment Day, Ozone Day, Earth Day, Earth Hour and more are celebrated by campus.

4. Does Institute participate in National and Local Environmental Protection Movement?

Yes, MH is actively participating in environment protection movements.

- *MH Vatavaran, The Environment Society of Miranda House celebrated wildlife week to generate awareness about the existence of our wild surrounding and the need to conserve them.*
- *Swachh Bharat Abhiyan by students at campus*
- *Delhi Youth Summit on Climate Change at MH*
- *MH Vatavaran has been collaborating with WWF-India for project ECHO (Environment Conservation Heroes)*
- *On the directives of the government, MH has worked on themes like protecting city against dust pollution, Controlling air and noise pollution, saving Yamuna, and more*

5. Does Institute have any Recognition or certification for environment friendliness?

Yes. Plastic free college of the year award and EXCELLENCE AWARD "For delivering Excellence in the area of Environment and Society"



7. Does Institution conduct a green or environmental audit of its campus?

This is the first external audit carried out by the College.

8. Has the institution been audited /accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?

Yes, College is accredited as NAAC A+ rated college and NIRF ranking

BEST PRACTICES

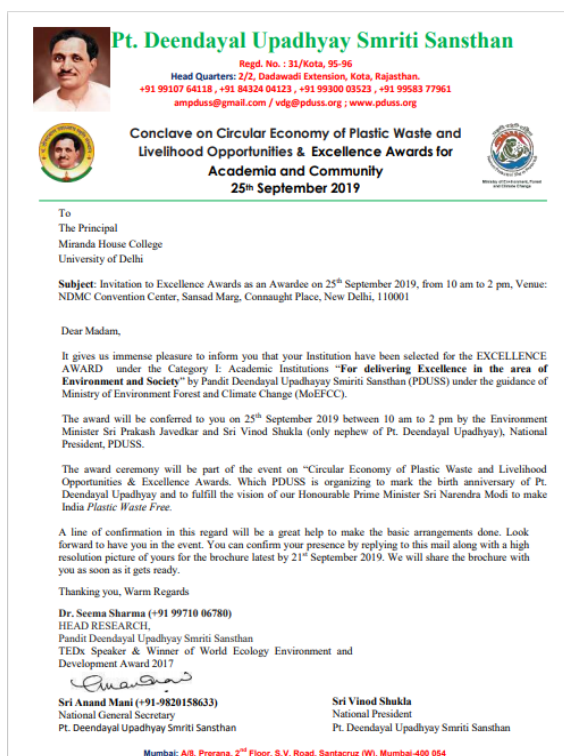
- MH Vatavaran volunteers participated in two activities held in parallel – a visit to Yamuna Biodiversity Park and a Save Petroleum Walkathon in collaboration with HPCL
- On 14 February 2020, a Bird Watch was organized in the College under the ‘Great Backyard Bird Count’ for the students to experience and appreciate the diversity of birds in the campus. A total of eighteen species of birds were observed. Students got to see species like shikra, Eurasian collared dove, green pigeon, blackheaded barbet, rose-ringed parakeet and many more.
- On 26 July 2019 an environmental awareness and sustainable practices session was organized by Envirar.
- Miranda House received Excellence Award “For delivering Excellence in the area of Environment and Society”.
- Miranda House participated in an Innovation Summit and exhibition at Janpath on 10 and 11 September 2019 in UNEP (The United Nations Environment Programme), in partnership with Ministry of Environment, Forests and Climate Change (MoEFCC) Government of India, United Nations Development Program (UNDP), United Nations Industrial Development Organization (UNIDO) and UN Women. It has 7 central themes: Clean Energy, Water, Smart Agriculture, Electrical Mobility, Air Pollution, Cooling and Waste Management.
- MH Vatavaran collaborated for an event on Food Challenge with NET IMPACT Delhi University with aim of ‘sustainable solutions to pivotal issues in food and agriculture’
- MH Vatavaran celebrated ‘Sustainability Week’ as a part of ECHO 2020 project under WWF-India.
- Swachhta Pakhwara (Cleanliness Fortnight) was celebrated by MH Vatavaran in collaboration with NSS, Miranda House in August.



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RECOMMENDATION

- Green building guidelines with ECBC compliance should be adopted for future expansion projects of the College.
- Provide sanitary waste disposal facility as per the CPCB guidelines for management of sanitary waste (as per Solid Waste Management Rules, 2016). Installation of Incinerator is recommended in campus
- Environmental Monitoring i.e. (Ambient Air Quality monitoring, Stack Monitoring of DG sets, Water monitoring need to be conducted by State Pollution Control Committee, approved laboratory) should be conducted periodically.
- Agreement with third party authorised vendors should be done for different types of waste management, such as e-waste, BMW, Plastic waste, etc.
- Environmental parameters should be included in purchase policy to achieve cradle to grave approach for sustainability.



CONCLUSION

This audit involved extensive consultation with all the campus team, interactions with key personnel on wide range of issues related to environmental aspects. Overall 75% of College campus is for landscaping and 60% is green cover. The audit has identified some observations for making the campus premise more environment friendly. The recommendations are mentioned for College campus team to initiate actions. The audit team opines that the overall site is well-maintained from environmental perspective. Still there are few things that are important to initiate urgently which includes installation of incinerator, air quality monitoring and periodic inspection of buildings to increase the energy efficiency.

REFERENCES

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- 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 rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices



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ANNEXURE PHOTOGRAPHS



Recycling Bio-degradable waste



Upcycling event at campus



Paper recycling plant



Waste segregation & composting



Ozone Day celebration



Ozone Day celebration



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Collaboration with WWF India for Project ECHO 2020



Collaboration with WWF India for project ECHO



Swachh Bharat Mission workshop



Summit on climate change



Activities under project ECHO



Zero waste initiative



Herbal garden



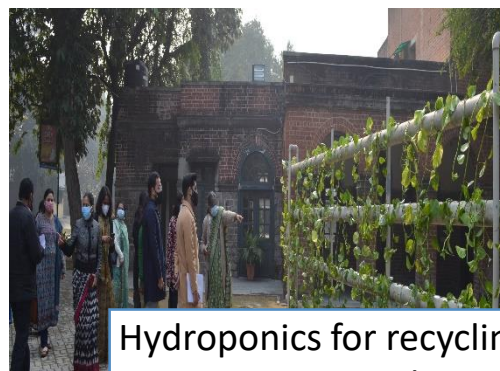
Miranda House



Prepared by: EHS ALLIANCE SERVICES



Plastic waste recycled into plant pots



Hydroponics for recycling mess grey water



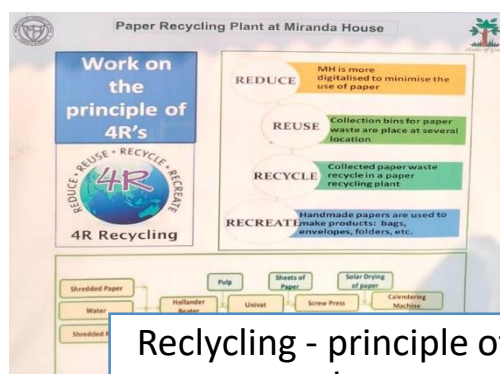
Composting at the campus



Aerobic composting for bio degradable waste



Colored coded dustbins in the campus



Recycling - principle of 4R's



Miranda House



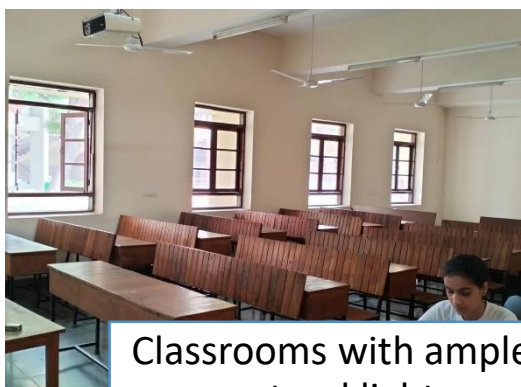
Prepared by: EHS ALLIANCE SERVICES



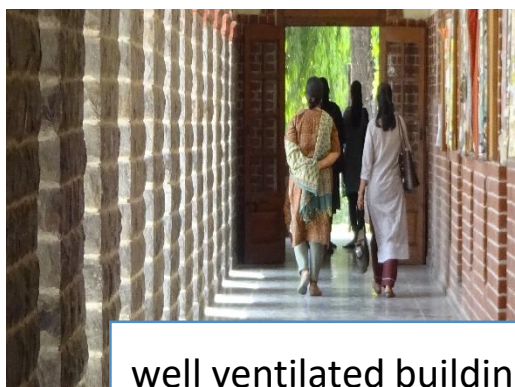
Solar Heaters installed on the building roofs



Solar lights installed in the campus



Classrooms with ample natural light



well ventilated building

***** END OF THE REPORT *****